



**PHASE I ENVIRONMENTAL  
SITE ASSESSMENT REPORT UPDATE**

12870 Panama Street  
Los Angeles, California 90066  
APN: 4223-008-003  
APN: 4223-008-004

**PREPARED FOR**

Ocean Charter School  
12606 Culver Boulevard  
Los Angeles, California 90066

Project Number: OCSC-16-6110

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## TABLE OF CONTENTS

Section	Page
<b>Executive Summary</b> .....	<b>iii</b>
<b>1 INTRODUCTION</b> .....	<b>1</b>
1.1 OBJECTIVES .....	1
1.2 SERVICES.....	1
1.3 ASSUMPTIONS .....	2
1.4 LIMITATIONS .....	2
1.5 TERMS .....	3
1.6 PROFESSIONALS .....	4
<b>2 SITE DESCRIPTION</b> .....	<b>4</b>
2.1 PROPERTY DEVELOPMENT AND USE .....	4
2.2 SERVICES.....	5
2.3 HAZARDOUS MATERIALS AND CHEMICAL STORAGE AREAS.....	5
2.4 STORAGE TANKS .....	5
2.5 POLYCHLORINATED BIPHENYLS .....	6
2.6 WASTEWATER, FLOOR DRAINS, SUMPS, AND CLARIFIERS .....	6
2.7 MECHANICAL SYSTEMS .....	6
2.8 ODORS.....	6
2.9 POOLS OF LIQUID.....	6
2.10 SURFACE STAINING.....	6
2.11 STRESSED VEGETATION.....	7
2.12 SOLID WASTE .....	7
2.13 ADJOINING SITES .....	7
<b>3 SITE SETTING</b> .....	<b>7</b>
3.1 TOPOGRAPHIC .....	7
3.2 REGIONAL GEOLOGY AND HYDROLOGY .....	7
3.3 FLOOD PLAIN .....	7
3.4 OIL AND GAS WELLS .....	7
<b>4 USER-PROVIDED INFORMATION</b> .....	<b>8</b>
4.1 INTERVIEW.....	8

4.2	TITLE RECORDS .....	8
4.3	CLEAN-UP LIENS.....	9
4.4	ACTIVITIES AND USE LIMITATIONS .....	9
4.5	SPECIALIZED KNOWLEDGE.....	9
4.6	COMMONLY KNOWN INFORMATION.....	9
4.7	PREVIOUS ENVIRONMENTAL ASSESSMENTS .....	9
<b>5</b>	<b>RECORDS REVIEW .....</b>	<b>11</b>
5.1	GOVERNMENTAL DATABASES .....	11
5.2	REGIONAL AGENCY OFFICES .....	13
5.3	HISTORICAL AERIAL PHOTOGRAPHS.....	13
5.4	HISTORICAL CITY DIRECTORY .....	14
5.5	SANBORN FIRE INSURANCE MAPS.....	15
<b>6</b>	<b>FINDINGS .....</b>	<b>15</b>
6.1	CURRENT SITE ACTIVITIES.....	15
6.2	HISTORICAL SITE ACTIVITIES .....	15
6.3	OFF-SITE ACTIVITIES .....	16
6.4	DATA-GAPS.....	16
<b>7</b>	<b>CONCLUSIONS.....</b>	<b>16</b>
<b>8</b>	<b>QUALIFICATIONS AND SIGNATURE.....</b>	<b>18</b>

## FIGURES

1. Site Location Map
2. Site Layout Map

## APPENDICES

- A. Historical Topographic Maps
- B. EDR Database Summary Table and EDR Radius Report
- C. Regional Agency Records
- D. Historical Title Records
- E. EDR Lien And AUL Search
- F. Select Previous Environmental Assessment Reports and Records
- G. Aerial Photographs
- H. Historical City Directory Listings
- I. Sanborn Fire Insurance Maps
- J. References

## **EXECUTIVE SUMMARY**

Alta Environmental (“Alta”) completed an update of the Phase I Environmental Site Assessment (ESA) report dated July 29, 2015 for the subject site located at 12870 Panama Street, Los Angeles 90066. The Phase I ESA update was performed in conformance with the scope and limitations of ASTM E1527-13. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. This update was performed to identify changes in conditions indicative of releases and threatened releases of hazardous substances, pollutants, contaminants, petroleum and petroleum products, and controlled substances on, at, in, or to the subject site since the date of the previous Phase I ESA.

### **Site and Vicinity Description**

The subject property is approximately 2.15 acres and located within a mixed commercial and residential area of Los Angeles, California. The subject property is bound to the north by Panama Street and residential buildings, to the east by Teledyne Reynolds, to the south by E-Z Storage, and to the west a vacant property most recently occupied by Teledyne Microelectronic Technologies.

At the time of this update, the subject property was developed with an approximately 17,178 square foot mixed concrete tilt up and brick construction administration building with an attached 930 square foot wooden construction maintenance shed, two concrete-block out-buildings (one approximately 1,424 square foot building, and one 600 square foot building with two attached storage sheds), and one 600 square foot wooden construction out-building. The remaining areas of the property were covered with asphalt and concrete paving. Within the southern and western portions of the property, a drainage swale crossed the property that channeled surface water runoff to Panama Street.

### **Site Use and History**

Based on earliest records reviewed, the subject property was utilized for agriculture as early as 1928. By 1954, the property was redeveloped as The Sprague Electric Company facility. This facility was described in the Sprague Electric Company “Log,” published in March 1960, as a business that was devoted to the sales and field engineering activities for the West Coast, including radio noise filter design and development for the West Coast Sprague sales offices (*Log*, 1960). This site use continued to the early-1970s until a catering company began utilizing the property for business operations and for maintaining vehicles. The catering company operated a 250-gallon waste oil underground storage tank (UST), two subsurface hydraulic vehicle hoists, and a wastewater clarifier. By 1981, the property was owned and operated by Teledyne.

The subject property was most recently used by Teledyne for business administration and for supporting operations conducted at the western adjoining facility. General facilities maintenance support for the neighboring facility was provided through July 31, 2013, when that location was vacated. More recently, a portion of the administration building was recently repurposed as a microelectronic circuit prototype laboratory. This laboratory was never brought online and no associated significant chemical storage or use occurred.

### **Data Gaps**

The ASTM Standard defines a data gap as “a lack of or inability to obtain information required by the practice despite good faith efforts by the environmental professional to gather such information.” A data gap is only significant if other information obtained during the ESA, or professional experience, raises reasonable concerns and affects the ability of the environmental professional to identify whether a given issue is a REC. The ASTM Standard requires that the ESA report identify and comment on significant data gaps. No significant data gaps were identified during the course of this investigation.



## **Conclusions**

This assessment revealed no evidence of current and historical (recognized environmental conditions) RECs or Controlled RECs in connection with the subject property, with the exception of the following:

### Historical Onsite RECs

The previous Phase I ESA dated July 27, 2015 identified three onsite RECs: a former 250-gallon waste oil UST, two former subsurface hydraulic vehicle lifts, and a former wastewater clarifier. These potential environmental concerns were further assessed during subsurface investigations conducted in September and October of 2015. The concentrations of volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), and Title 22 metals in all soil and soil vapor analytical results were reported below their respective industrial/commercial screening levels. The concentrations of VOCs in groundwater were reported below drinking water MCLs for all samples. Low levels of TPH as diesel and TPH as oil were detected in the vicinity of the former UST, however the Los Angeles Regional Water Quality Control Board issued a no further action finding dated January 7, 2016. Based on this information, the three previously identified onsite RECs now meet the definition of a Historical REC and are not considered significant environmental concerns for future industrial/commercial site users.

### Resolved Offsite RECs

The previous Phase I ESA dated July 27, 2015 identified one offsite REC: 12922 Panama Street, the southwestern adjoining property. This potential offsite environmental concern was further assessed with two soil and soil vapor boring advanced near the property boundary during the September 2015 subsurface investigation. The concentrations of VOCs, TPH, and Title 22 metals in all soil and soil vapor analytical results were reported below their respective industrial/commercial screening levels. Additionally, Alta has conducted extensive onsite and offsite soil, soil vapor, and groundwater sampling at the 12922 Panama Street site under LARWQCB oversight, has developed an approved draft remedial action plan, and has not identified any significant indications of subsurface impacts along the property boundary with the subject site. Based on this information, the previously identified offsite REC is not considered a significant environmental concern for future industrial/commercial site users.

# 1 INTRODUCTION

The purpose of this assessment was to update our previous evaluation of the environmental condition of the subject site and to satisfy one of the requirements for qualification of the innocent landowner defense, contiguous property owner, or bona fide prospective purchaser under the federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). ASTM Standard Practice E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) constitute the “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice” as defined in:

1. 42 U.S.C § 9601(35)(B), referenced in the ASTM Standard Practice E1527-13;
2. Sections 101(35)(B) (ii) and (iii) of CERCLA and referenced in the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312); and
3. 42 U.S.C. 9601(40) and 42 U.S.C. 9607(q).

This report was prepared exclusively for use by Ocean Charter Schools. This report may not be relied upon by any other person or entity without Alta Environmental’s express written permission. The information, conclusions and recommendations described in this report apply to conditions existing at certain locations when services were performed and are intended only for the specific purposes, locations, time frames and project parameters indicated. Alta Environmental cannot be responsible for the impact of any changes in environmental standards, practices or regulations after performance of services.

## 1.1 Objectives

Alta’s objective for this environmental assessment update was to identify changes in conditions indicative of releases and threatened releases of hazardous substances, pollutants, contaminants, petroleum and petroleum products, and controlled substances on, at, in, or to the subject site. The Phase I ESA update (Update) was done to meet ASTM Standard Practice E1527-13.

The assessment provided herein was determined based on the following:

1. Findings of the previous Phase I ESA dated July 29, 2015;
2. Changes in current and past property uses and occupancies;
3. Changes in current and past uses of hazardous substances;
4. Changes in waste management and disposal activities that could have caused releases or threatened releases of hazardous substances;
5. Changes in current and past corrective actions and response activities undertaken to address past and on-going releases of hazardous substances;
6. Changes in engineering controls;
7. Changes in institutional controls; and
8. Evaluation of properties adjoining or located nearby the subject site that have environmental conditions that could have resulted in conditions indicative of releases or threatened releases of hazardous substances to the subject site.

## 1.2 Services

In accordance with ASTM E1527-13, Alta performed the following services during our update of the previous Phase I ESA report:

1. Reviewed historical sources of information;
2. Searched for recorded environmental clean-up liens;
3. Reviewed Federal, State, Tribal, and local government records;
4. Visually inspected the site and the adjoining sites; and
5. Provided an opinion on the degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation.

### 1.3 Assumptions

Alta has assumed the following for the purposes of this assessment:

1. Information provided during any interview (written or oral) was accurate and correct;
2. Database information reviewed was accurate and correct;
3. Historical information reviewed was accurate and correct;
4. Information reviewed at any governmental agency was accurate and correct;
5. Groundwater flow and depth to groundwater, unless otherwise specified by on-site well data, or well data from adjacent sites are assumed based on contours depicted on the United States Geological Survey (USGS) Topographic Maps; and
6. The property has been correctly and accurately identified by the client, client representatives, property contact, property owner, and/or property representatives.

### 1.4 Limitations

This assessment is limited to the standards set forth in ASTM Standard Practice E1527-13. This assessment specifically excludes assessment of the following:

1. Asbestos and asbestos-containing building materials;
2. Biological agents;
3. Cultural and historic resources;
4. Ecological resources;
5. Endangered species
6. Health and safety;
7. Indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment;
8. Industrial hygiene;
9. Lead-Based Paint;
10. Lead in Drinking Water;
11. Mold;
12. Radon;
13. Regulatory compliance; and
14. Wetlands.

Considerations identified by ASTM as beyond the scope of a Phase I Environmental Site Assessment (ESA) that may affect business environmental risk at a given property are not included. These environmental issues or conditions may warrant assessment based on the type of property transaction; however, they are considered non-scope issues under ASTM Standard Practice E1527-13.

The conclusions and findings set forth in this report are strictly limited in time and scope to the date of the evaluation. The conclusions presented in this report are based solely on the services described herein, and not on scientific tasks or procedures beyond the scope of agreed-upon services or the time and budgeting restraints imposed by the Client. No subsurface exploratory drilling or sampling of any kind was done under the scope of this work. Unless specifically stated otherwise in the report, no chemical or physical analyses have been performed during the course of this Phase I ESA.

Some of the information provided in this report is based upon personal interviews, and research of available documents, records, and maps held by the appropriate government and private agencies. This is subject to the limitations of historical documentation, availability, and accuracy of pertinent records and the personal recollections of those persons contacted. As applicable, Alta Environmental has relied in good faith upon representations and information furnished by individuals with respect to operations and existing property conditions, to the extent that they have not been contradicted by data obtained from other sources. Accordingly, Alta Environmental accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

Property conditions, as well as local, state, tribal, and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented (if any) as a result of this study apply strictly to the environmental regulations and property conditions existing at the time the study was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the property. Alta makes no warranty, express or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the study.

This Phase I ESA is not, and should not be construed as, a warranty or guarantee about the presence or absence of environmental contaminants that may affect the property. The assessment is not intended to assure clear title to the property in question. The sole purpose of investigation into property title records is to ascertain a historical basis of prior land use and environmental liens. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings, conclusions, and recommendations stated in this report are based on the data and information provided, and observations and conditions that existed on the date and time of the property visit. Responses received from local, state, or federal agencies or other secondary sources of information after the issuance of this report may change certain facts, findings, conclusions, or circumstances to the report. A change in any fact, circumstance, or industry-accepted procedure upon which this report was based may adversely affect the findings, conclusions, and recommendations (if any) expressed in this report.

## 1.5 Terms

The following terms are used in this report:

- “Subject site,” “subject property,” or “Site” refers to the property within the approximate boundaries described in Section 2;
- “Immediate site vicinity” refers to properties adjacent to the site that share a common boundary with the subject site; and
- “Site vicinity” refers to the area within an approximate 1-mile radius of the property.
- “Recognized Environmental Conditions” (RECs) – The presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a *property*: (1) due to release to the environment; (2) under conditions indicative of a *release* to the *environment*; or (3) under conditions that pose a *material threat* of a future *release* to the *environment*. *De minimis conditions* are not *recognized environmental conditions*.
- “Controlled Recognized Environmental Condition” (CREC) – A recognized environmental condition resulting from a past *release* of *hazardous substances* or *petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with *hazardous substances* or *petroleum products* allowed to remain in place subject to the implementation of required controls (for example, *property use restrictions*, *activity and use limitations*, *institutional controls*, or *engineering controls*). A condition identified as a *controlled recognized environmental condition* does not imply that the *environmental professional* has evaluated or confirmed the adequacy, implementation, or continued effectiveness of the required control that has been, or is intended to be, implemented.
- “Historical Recognized Environmental Condition” (HREC) – A past *release* of any *hazardous substances* or *petroleum products* that has occurred in connection with the *property* and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the *property* to any required controls (for example, *property use restrictions*, *activity and use limitations*, *institutional controls*, or *engineering controls*).

- “Migrate/migration” – For the purposes of this practice, “migrate” and “migration” refers to the movement of *hazardous substances* or *petroleum products* in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface.
- “Hazardous Substances” – The term “hazardous substance” is used here in general accordance with its use as defined in the following regulations:
  - Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended; and
  - Superfund Amendment and Reauthorization Act (SARA) of 1986, as amended.

The terms “material,” “waste,” and “substances” are used interchangeably, and no legal distinction is implied between the terms as used herein. The words “impact” or “impacted” are used to mean the effect or result of a release of a hazardous substance that could result in a hazardous waste being present at the property. Search distances for government agency lists were those designated by the ASTM Standard E 1527-13.

## 1.6 Professionals

This document has been prepared by an Environmental Professional as defined by the EPA, 40 C.F.R. Part 312.10. All work performed for this assessment was performed by or under the direct supervision of an Environmental Professional.

## 2 SITE DESCRIPTION

Alta personnel performed a site reconnaissance on May 17, 2016. The following descriptions are based on observations made during that site visit and interviews with site users. Site Location and Site Layout maps depicting the areas and features described in the following sections are presented as Figures 1 and 2.

### 2.1 Property Development and Use

#### 2.1.1 Development

The subject property is located within a mixed commercial and residential area of the City of Los Angeles, California (Figure 1). The property is approximately 2.15 acres in size and reportedly zoned as *Los Angeles City Zoning M1-1 and M2-1 (Light Industrial and Limited Manufacturing)*. The Assessor’s Parcel Numbers for the property are 4223-008-003 and 4223-008-004. The subject property is bound to the north by Panama Street and residential buildings, to the east by Teledyne Reynolds, to the south by E-Z Storage, and to the west by vacant buildings most recently occupied by Teledyne Microelectronic Technologies.

At the time of our site visit, the subject property was developed with an approximately 17,178 square foot mixed concrete tilt up and brick construction administration building with an attached 930 square foot wooden shed, two concrete-block out-buildings (one approximately 1,424 square foot former facilities maintenance building, and one 600 square foot storage building with two attached storage sheds), and one 600 square foot wooden out-building. In addition, there were two approximately 200 square foot, fenced storage areas onsite. The remaining areas of the property were covered with asphalt and concrete paving. Within the southern and western portions of the property, a drainage swale crossed the property that channeled surface water runoff to Panama Street.

### **2.1.2 Use**

At the time of our site reconnaissance, the property was in transition from a business administration use to that of a vacant property. Teledyne Technologies Incorporated (Teledyne) was in the process of relocating their operations to another location.

## **2.2 Services**

The utilities servicing the subject property area:

Electricity:	Los Angeles Department of Water and Power
Water:	Los Angeles Department of Water and Power
Gas:	Los Angeles Department of Water and Power
Sewer:	Los Angeles City Bureau of Sanitation

## **2.3 Hazardous Materials and Chemical Storage Areas**

Multiple storage areas were formerly utilized at the subject property; however, all materials have since been removed. No significant chemical or hazardous material storage and no evidence of significant spills or releases were identified during the course of this Update.

At the time of our previous Phase I ESA assessment, small quantities of household cleaning chemicals were observed within a janitorial shed and flammable storage container located within one of the outbuildings. Storage of small quantities of acetone and a 2-part epoxy were also observed at that time within the administration building; however, these chemicals were reportedly never used. Additionally, two 55-gallon drums of non-hazardous investigation derived wastes were formerly observed stored within an enclosed area along the southeastern fence line within the southeastern portion of the property. One drum was labeled as soil cuttings and one drum was labeled as decontamination water. These nonhazardous wastes were related to ongoing investigations of the adjoining former Teledyne Microelectronic Technologies facility to the west and have since been removed from the subject property.

Historically, circa 1990, a small engineering lab was located onsite that may have used very small quantities of alcohol, acetone, and adhesives. In addition, former maintenance activities conducted onsite (electrical, HVAC, plumbing, carpentry, painters, janitorial, etc.) would have used hazardous materials common to their trade. At that time, the facility stored and used flammable gas (propane) to support forklift operations and oxygen, nitrogen and argon compressed gases to support the start-up of a Microelectronic Circuit Prototype Laboratory. However, that laboratory was never brought online.

## **2.4 Storage Tanks**

### **2.4.1 Aboveground Storage Tanks**

No evidence of current aboveground storage tank use was observed at the time of the site reconnaissance.

### **2.4.2 Underground Storage Tanks**

No evidence of current underground storage tank (UST) use was observed at the time of the site reconnaissance. However, a 250-gallon waste oil UST was reported within the present-day maintenance building located along the southeastern property boundary. According to a 1996 UST Closure Report (All Environmental, Inc., 1996), the UST was removed and properly disposed under City of Los Angeles Fire Department oversight. See Section 4.7 for additional details.

### **2.4.3 Septic Tanks**

No evidence of septic tank use was observed at the time of the site reconnaissance.

## **2.5 Polychlorinated Biphenyls**

No significant potential sources of polychlorinated biphenyls were identified within the subject site during the site reconnaissance.

## **2.6 Wastewater, Floor Drains, Sumps, and Clarifiers**

An abandoned clarifier was identified along the northwestern property boundary adjacent to Panama Street. The clarifier was reportedly utilized by a previous site user to process wastewater from a vehicle wash rack. Based on information provided by the site user (Teledyne), the clarifier was used to remove solids and oils from former catering truck cleaning operations. The trucks were washed in the parking lot, and the discharge was conveyed by the existing swales, into the clarifier. The hose bibs and piping used for hose-downs were observed during the site reconnaissance.

In addition, Alta was informed that the clarifier formerly discharged to the sanitary sewer and that it was equipped with a device that would direct discharge to the storm sewer during rain events. During abandonment activities, the clarifier was reportedly filled with sand, capped with concrete, and the connections to the sanitary sewer were disconnected and capped. No other information regarding this unit was identified during the course of the previous Phase I ESA or the Update.

A surface water runoff swale was identified which drains the southeastern and southwestern parking areas. The outfall was located adjacent to the former clarifier discussed above and empties to the local stormwater drain.

No floor drains, sumps, or other wastewater systems were observed on the subject property.

## **2.7 Mechanical Systems**

### **2.7.1 Back-up Power Generation**

No back-up power generators were observed on the subject property.

### **2.7.2 Cooling Towers**

No cooling towers were observed on the subject property.

### **2.7.3 Elevators, Lifts and Compactors**

No elevators, lifts or trash compactors were observed on the subject property. However, the locations of two former hydraulic lifts were identified during our site walk. These lifts were removed during the UST closure discussed in Section 2.4.2. Based on information provided by Teledyne, soil samples were collected around the UST but not in the immediate vicinity of the hydraulic lifts, which were located about 10 feet southwest of the tank. No records of post-removal confirmation sampling were identified.

## **2.8 Odors**

No strong, pungent, or noxious odors were identified emanating from the subject property.

## **2.9 Pools of Liquid**

No indications of significant standing surface water or other pits, ponds, or lagoons potentially containing hazardous substances or petroleum products were observed on the property at the time of the site reconnaissance.

## **2.10 Surface Staining**

No surface staining was observed on the subject property.

## 2.11 Stressed Vegetation

No indication of stressed vegetation was identified.

## 2.12 Solid Waste

No indication of unauthorized dumping was identified.

## 2.13 Adjoining Sites

The following land use in the near vicinity of the property was observed:

Direction	Property Name	Property Address	Business Operation
North:	Residential	Various	Residential
East:	Teledyne Reynolds – Special Products	12820 Panama Street	Electronics Manufacturing Company
South:	E-Z Storage	12901 Culver Blvd	Self-storage Rental Units
West:	Vacant	12908-12964 Panama Street	Former Electronics Manufacturing

## 3 SITE SETTING

### 3.1 Topographic

The United States Geological Survey (USGS), [Los Angeles] 7.5 Minute Topographic Quadrangle map of the subject property and surrounding vicinity was reviewed. The elevation of the property is located at approximately 16 feet above mean sea level. The subject site and the surrounding topography are relatively flat and slopes gently to the south-southwest. A copy of the USGS 7.5 Minute Topographic Quadrangle Map is included in Appendix A.

### 3.2 Regional Geology and Hydrology

The following description of regional geology and hydrology was developed based on regional information presented on the State Water Resources Control Board's online Geotracker database.

The subject property is located along the southern boundary of the Santa Monica Basin. The Santa Monica Basin is bound to the northwest by the Santa Monica Mountains, to the west and southwest by the Pacific Ocean, to the northeast by the Newport-Inglewood fault, and to the south and southeast by the Ballona escarpment and Baldwin Hills. Local sediment underlying the subject site consists primarily of silty sand and silt, underlain by sand and gravel. Depth to first encountered groundwater is approximately 8 to 15 feet, with a gradient towards the west-southwest at a gradient of 0.0040 foot per foot.

### 3.3 Flood Plain

According to Federal Emergency Management Agency flood plain data presented in the site-specific Environmental Data Resources (EDR) Geocheck Report, the subject property is located outside of the 100-year and 500-year flood zones (EDR, 2016). The EDR Radius Report is presented as Appendix B.

### 3.4 Oil and Gas Wells

Oil/gas wells were not identified on the subject property or adjoining properties. According to the State of California, Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR)



Online Mapping System (DOMS), the nearest wells are approximately 2,400 feet to the west-southwest of the property. These wells are identified as “Plugged” wells and identified as Sharby Oil Co. “1” (API 03705869) and Edwin W. Pauley & D Frankel “2” (API 03713968). Appendix C presents a screen shot of the online mapping system.

In addition, according to site data published on the City of Los Angeles Zone Information and Map Access System (ZIMAS) webpage, the subject site is located within the boundaries of a designated methane zone. City of Los Angeles Building Code regulations will likely require methane gas testing prior to future development of the subject property.

## 4 USER-PROVIDED INFORMATION

### 4.1 Interview

During the previous Phase I ESA and the Update, Alta Environmental interviewed the Director of Environment, Health, and Safety, Mr. Michael R. Shearer, who has been with Teledyne for over 15 years. Mr. Shearer stated that Teledyne’s primary site use was business administration and to a lesser extent, former maintenance support for the adjoining Teledyne Microelectronics facility when that facility was in operation. Mr. Shearer also disclosed that a microelectronic circuit prototype laboratory was developed within the main building, but that the lab never went online. During development, this lab contained small quantities of acetone, isopropyl alcohol, and two-part epoxies that were never used.

Mr. Shearer also identified the locations of the former clarifier, 250-gallon UST and the two former hydraulic hoists. Mr. Shearer indicated that this equipment was not utilized by Teledyne and that it related to a catering service, which occupied the property prior to Teledyne.

### 4.2 Title Records

#### 4.2.1 Chain of Title Report

An EDR Chain of Title report covering the time period from 1940 through present day was provided to Alta for review. Appendix D presents a copy of the EDR Chain of Title Report, which is summarized in the following table.

Date Recorded	Title Vested In	Title Received From
<b>APN: 4223-008-003</b>		
08/11/1950	Robert Hindle	Clarence J. and Marie R. Lee
05/09/1954	Sprague Electric Company	Robert Hindle
01/17/1972	Isadore and Goldie Chernick	Sprague Electric Company
02/24/1981	Panama Street Partnership	Isadore and Goldie Chernick
06/30/1981	Teledyne Industries, Inc.	Panama Street Partnership
01/21/2000	Teledyne Technologies Inc., a Delaware corporation	Teledyne Industries, Inc., a California corporation
<b>APN: 4223-008-004</b>		
06/17/1947	Gregory E. and Virginia H. Mc Masters	Frank W. and Marjorie Barnaby
04/10/1954	Sprague Electric Company	Gregory E. and Virginia H. Mc Masters
01/17/1972	Isadore and Goldie Chernick	Sprague Electric Company
02/24/1981	Panama Street Partnership	Isadore and Goldie Chernick

Date Recorded	Title Vested In	Title Received From
06/30/1981	Teledyne Industries, Inc.	Panama Street Partnership
01/21/2000	Teledyne Technologies Inc., a Delaware corporation	Teledyne Industries, Inc., a California corporation

#### 4.2.2 Preliminary Title Report

A preliminary title report was provided by Teledyne during the previous Phase I ESA for each of the two subject property parcels. The reports identify a Shell Oil pipeline easement affecting both parcels. Teledyne reports that Shell Oil Company transferred the easement rights to Crimson Oil and that neither Shell Oil nor Crimson Oil installed pipelines on the property. In addition, the National Pipeline Mapping System does not identify a pipeline encroachment on the subject property. Teledyne is reportedly working with Crimson Oil and the Title Company to remove the easement right from the Title Report. Appendix D presents a copy of the two preliminary title reports.

#### 4.3 Clean-Up Liens

Knowledge of any clean-up liens against the subject site was not disclosed by those interviewed. Further, the EDR Environmental Lien and AUL Search report did not identify any environmental liens for the subject property (Appendix E).

#### 4.4 Activities and Use Limitations

Knowledge of site-specific activities or use limitations were not disclosed by those interviewed. Further, according to the EDR Lien and AUL Search report, no Activity and Use Limitations are identified for the subject property (Appendix E).

#### 4.5 Specialized Knowledge

On behalf of Teledyne, Alta has conducted a variety of environmental site investigations of the western adjoining property known as the *Panama Site*. This site is currently under the oversight of the Los Angeles Regional Water Quality Control Board for potential subsurface impacts from metals and volatile organic compounds (VOCs). No evidence of significant impacts affecting the subject property have been identified.

Teledyne also reports historical usage of solvents (vapor degreaser) and tin/lead electroplating activities at the adjacent property to the east (12820 Panama Street). These activities were conducted by a separate Teledyne business unit.

#### 4.6 Commonly Known Information

No commonly known information was disclosed by those interviewed during the course of this Phase I investigation.

#### 4.7 Previous Environmental Assessments

*Foundation Investigation, 1981, prepared by Leroy Crandall and Associates*

Alta was provided a copy of a *Report of Foundation Investigation* dated August 6, 1981, which was prepared by Leroy Crandall and Associates (Crandall). Based on a review of this report, Crandall calls out the existence of fill soils, 7 to 11 feet in thickness, observed in the exploration borings installed. The fill was found to be firm at the boring locations; however, was not observed and tested during placement and

the uniformity of the fill is questionable. The report indicates that the natural soils beneath the subject site consisted primarily of soft to moderately firm silty sand and silt, underlain by firm, dense sand and gravel. Water was measured at depths of 11 to 14 feet below the existing grade (Crandall, 1981).

Underground Storage Tank (UST) Closure, March 27, 1996, prepared by ALL Environmental, INC.

During our July 2015 Phase I ESA, Alta was provided a copy of this report for review. The document detailed the removal and subsequent closure of a 250-gallon waste-oil UST and two hydraulic lifts located within a cinder block building along the southeastern property boundary. According to the UST closure report, the subject property had been owned and operated by Teledyne Electronic Technologies since 1981. Prior to Teledyne, the building was owned by Isador and Goldie Chernick who had operated a mobile catering service in the 1970s. During Isador and Goldie Chernick's ownership, the cinder block building was used as a maintenance garage. Used oil generated during maintenance of their catering trucks was stored in the waste oil tank, prior to off-site disposal. All Environmental, Inc (AEI) reported "the waste-oil UST had been out of service for the past 15 years".

During the removal process, the waste-oil UST and the two hydraulic lifts were reported to be in good condition and no signs of corrosion or rupture were noted. Initial soil sampling conducted beneath the UST excavation indicated soil concentrations of Total Petroleum Hydrocarbons (TPH) ranging from 1,100 to 1,700 mg/kg. Soil samples were also analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX). No concentrations of BTEX were detected above laboratory detection limits. Due to elevated concentrations of TPH, AEI excavated to 10 feet bgs and resampled. The reported concentrations of the second round of confirmation sampling were below cleanup levels. A no further action letter dated April 1, 1996 was issued by the City of Los Angeles Fire Department.

Phase II ESA, September 9, 2015, prepared by Alta Environmental (Appendix F)

In August 2015, Alta conducted a Phase II ESA of the subject site based on the findings of the Phase I ESA report, which is the subject of this Update. The scope of work was developed to investigate potential subsurface impacts related to the former 250-gallon waste oil UST, the two former subsurface hydraulic lifts, the abandoned wastewater clarifier, and the adjoining offsite properties to the northeast and southwest. A total of 12 borings (B1 through B12) were advanced at various depths ranging from approximately 10.5-feet to 14-feet below ground surface (bgs). Soil samples collected during the investigation were analyzed for TPH as gasoline, diesel and motor oil (TPH-g, TPH-d, and TPH-o), VOCs, and Title 22 Metals. Selected samples collected near the UST were also analyzed for polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs). Dual-nested soil vapor probes were installed in nine of the 12 boreholes (B4 through B12) at depths of 5-feet and 10-feet bgs. Soil vapor samples were collected and analyzed for VOCs using a mobile laboratory. Concentrations in all soil and soil gas samples were found to be below the respective industrial/commercial screening levels.

In addition, grab groundwater samples were collected from borings B5, B8, and B11 using temporary groundwater sampling wells. Samples were collected and analyzed for TPH-g, TPH-d, and TPH-o, and VOCs. Concentrations of TPH-d and TPH-o were detected in the samples. Elevated concentrations of TPH-d were found in the sample collected from B5, located in the immediate area of the former waste oil UST.

Based on the detected concentrations of TPH-d in groundwater at boring B5, Alta recommended additional assessment to investigate the extent of the TPH groundwater impact.

Additional Site Assessment, October 22, 2015, prepared by Alta Environmental (Appendix F)

In September 2015, Alta Environmental conducted an additional site assessment at the subject site to assess the extent of TPH groundwater impacts identified during the previous investigation. A total of 7

borings were advanced to depths ranging from approximately 15-feet to 20-feet bgs. Upon reaching groundwater, a temporary well screen was advanced into the formation to facilitate the collection of grab samples. Groundwater grab samples were collected from all borings, with the exception of B16. Boring B16 did not produce enough groundwater for sample collection. Groundwater samples were analyzed for TPH-g, TPH-d, and TPH-o and VOCs. TPH-g was not detected in any of the analyzed groundwater samples. Concentrations of TPH-d were detected in groundwater samples from borings B14, B15 and B19 ranging from 9.4J µg/L (B19) to 530 µg/L. Concentrations of TPH-o were only detected in the sample collected from B14 at 3,800 µg/L. The highest concentrations of TPH were detected in the groundwater sample collected at boring B14, located just outside of the building, to the southwest and downgradient of the former waste oil UST and previous boring B5, where TPH-d was detected at 1,500 µg/L. Concentrations of VOCs did not exceed the MCLs identified for drinking water in any of the groundwater samples.

*Groundwater Assessment Results, Former Underground Storage Tank Site, 12870 Panama Street, Los Angeles, California, 90066, December 10, 2015, prepared by Alta Environmental (Appendix F)*

In December 2015, Alta Environmental submitted a letter to the Los Angeles Fire Department (LAFD) to provide a summary of findings for the two subsurface investigations (September and October 2015). The letter presented a brief summary of investigation methods, an overview of laboratory analytical results, and requested LAFD to review the analytical data and to advise further action.

*Underground Storage Tank Program – Case Referral Response, Teledyne Technologies Incorporated, 12870 Panama Street, Los Angeles, California, (Global ID No.: T10000008217), January 7, 2016, prepared by the Los Angeles Regional Water Quality Control Board (Appendix F)*

On December 30, 2015, the City of Los Angeles Fire Department transmitted this case to the Los Angeles Regional Water Quality Control Board (LARWQCB) due to concerns regarding soil and groundwater impacts from the subject site. The LARWQCB reviewed the Groundwater Assessment Results letter described above and determined that residual concentrations of fuel constituents posed a low threat to human health, and soil and groundwater quality beneath the subject site. A *No Further Action* letter was issued on January 7, 2016.

## 5 RECORDS REVIEW

### 5.1 Governmental Databases

Alta contracted EDR to perform a radius search of governmental databases for this project. The databases searched, the distances from the subject property, and the number of locations identified in each database is summarized in the table provided in Appendix B. The database report is also provided in Appendix B. Alta conducted a review of the referenced databases and provides the following findings based on sites that have the potential to impact the subject property, with respect to the identified west-southwest groundwater flow direction (GeoTracker, 2015). Our findings are based on the assumption that a hazardous material released to the subsurface generally does not migrate laterally within unsaturated soil for a significant distance. Although a hazardous material can migrate in groundwater in a generally down-gradient direction, there are limitations to this interpretation such as groundwater depth, soil lithology and other subsurface barriers.

#### 5.1.1 Subject Property Database Findings

According to EDR, the subject property has been identified on the HAZNET database, which includes information extracted from copies of hazardous waste manifests each year by the DTSC. This facility is identified on this database for the use of PCBs and PCB containing materials, and aged or surplus organics. No indications of violations have been identified.

### **5.1.2 Adjoining Property Database Findings**

#### **The Panama Site – 12922 Panama Street, Los Angeles, CA**

This facility is located to the west and down-gradient of the subject property, with respect to groundwater flow direction. According to EDR, this facility is listed on CA SLIC, CA NPDES, and CA CHMIRS databases. Based on a review of available records, the facility was used for electronics and aerospace manufacturing from the 1960s until mid-2013. Manufacturing activities used chlorinated solvents and Title 22 metals. The media (aquifer used for drinking water supply, other groundwater [uses other than drinking water], soil, and soil vapor) was potential affected by 1,4-dioxane, other chlorinated hydrocarbons, tetrachloroethylene (PCE), trichloroethylene (TCE), vinyl chloride, arsenic, chromium, nickel, and other metals. This facility is listed as “Open – Site Assessment” on the Geotracker online database and is currently under the oversight of the Los Angeles Regional Water Quality Control Board. Alta has conducted extensive onsite and offsite soil, soil vapor, and groundwater sampling at this site, has developed an approved draft remedial action plan, and has identified no indications significant subsurface impacts along the northeastern property boundary, which adjoins the subject site.

#### **Teledyne Microelectronics/Lighting and Display– 12964 Panama Street, Los Angeles, CA**

This facility is part of the larger Panama Site discussed above (12922 Panama Street, Los Angeles, CA). According to EDR, this facility is listed on HIST FTTS, CA UST, PA Manifest, PCRA-LQG, ICIS, and CA HAZNET databases. Alta has conducted extensive onsite and offsite soil, soil vapor, and groundwater sampling at this site, has developed an approved draft remedial action plan, and has identified no indications of significant subsurface impacts along the northeastern property boundary, which adjoins the subject site.

### **5.1.3 General Vicinity Database Findings**

EDR identified a number of properties within the ASTM recommended approximate minimum search distance with listings in the various regulatory databases searched. Several of these listings (e.g., hazardous waste generators and registered USTs) by themselves are not necessarily indicative of an environmental concern and are therefore, not discussed herein. A number of sites also appear on databases indicative of potential contamination concerns (e.g., LUST, Cortese, and EDR Historic Auto Service Stations, CORRACTS). Of these latter facilities, the locations close enough (within 1/8 mile) to, or up-gradient of the subject property that require further scrutiny. The reported facilities below were discovered to potentially impact the subject property.

#### **Sears Pacific Central Service – 12870 Culver Blvd, Los Angeles, CA**

This facility is located cross/down-gradient of the subject property, with respect to groundwater direction and approximately 320 feet to the east of the subject property. According to EDR, this facility is listed on CA FID UST, CA HIST UST, and CA SWEEPS UST databases. There are three USTs (8,000-gallon of unleaded fuel, unknown tank capacity and fuel, unknown tank capacity of waste oil) on the property. The current status, date of installment, and additional information is unknown. Due to the location and gradient of groundwater, this facility is not believed to impact the subject property.

#### **Tomei Motors - 12817 Panama Street, Los Angeles, CA**

This facility address is located up-gradient of the subject property, with respect to groundwater direction and approximately 475 feet to the northeast of the subject property. According to EDR, this facility is listed on the US Historical Auto Station database in 2001. However, it should be noted that the database is populated based on city directory listings (phone books) and does not necessarily indicate actual property use. During our site reconnaissance, this address was observed as a residential property with no

evidence of current commercial use identified. Based on this information, this database listing is not considered a significant environmental concern for the subject property.

## 5.2 Regional Agency Offices

Alta submitted information requests to the various county and regional agencies that may have records with regard to environmentally-oriented concerns affecting the subject site, in accordance with ASTM E1527-13 requirements. At the time of this report, no response to the records review request has been received from the Los Angeles Fire Department and the State of California Office of Environmental Health and Safety (OEHHA). Should significant records be identified at a later date, an addendum to this report will be issued. Based on the quality of information obtained from other sources and known property uses, the records review is not expected to indicate additional environmental concerns. Appendix C presents the results of the 2015 agency requests and those conducted during this Update.

Agency	Records Summary
Los Angeles County Department of Public Works	<u>Subject Property</u> No records found
Department of Toxic Substances Control – ENVIROSTOR	<u>Subject Property</u> No records found
County of Los Angeles Public Health	<u>Subject Property</u> No records found during the original Phase I ESA. No additional information has been received as of the date of this Update report.
Division of Oil, Gas, and Geothermal Resources – DOGGR	No additional oil or gas wells were identified within the subject property or adjoining property boundaries.
Regional Water Quality Control Board - Geotracker	<u>Subject Property</u> UST Program: No further action letter dated January 7, 2016  <u>Adjoining Property</u> 12922 Panama Street - Various onsite and offsite environmental assessment reports and draft remedial action plan
Los Angeles Fire Department	No additional information has been received as of report date
Los Angeles City Building and Safety	<u>Subject Property</u> Various Building Permits
City of Los Angeles – ZIMAS	<u>Subject Property</u> The subject property is located within a Methane Zone
South Coast AQMD - FINDS	<u>Subject Property</u> No records found

## 5.3 Historical Aerial Photographs

Twelve historical aerial photographs of the property and surrounding area (from 1938 through 2012) were reviewed. The aerial photographs are presented in Appendix G, and summarized in the following table.

Date	Description
1928, 1938, 1947, 1953	The subject property and general vicinity appear to be associated with agricultural site use. Over time, increasing residential development density is depicted. The Southern Pacific Electric Railroad tracks are present southeast of the subject site, running in a southwest to northeast direction.
1963, 1972, 1977, 1994, 2002	Beginning in 1963, the subject property, adjoining properties to the east and west, and properties to the north are depicted as developed similar to present day. Properties further to the east, south, and west are depicted as agricultural (both active and fallow). By 1972, land use to the east and south begins to transition to present day development and road improvements are depicted along the present day Marina Freeway corridor. The present day freeway frontage road is depicted, however the elevated portion of the freeway has yet to be constructed. By 1981, the Southern Pacific Electric Railroad tracks are no longer depicted southeast of the subject site. The 1994 photograph depicts a variety of structures and parked vehicles within the Marina Freeway alignment, between the present day frontage roads. By 2002, the area between the frontage roads appears to be vacant, cleared land.
2005, 2009, 2010, 2012	The subject property and surrounding areas are generally depicted similar to present day. The 2005 photograph depicts construction beginning for the elevated portion of the Marina Freeway, with construction complete by 2009.

#### 5.4 Historical City Directory

Alta Environmental contracted EDR to conduct a search for historical city directory information for the subject site and general vicinity. In accordance with ASTM E1527-13, only those properties which are likely to indicate significant environmental concern for the subject property are discussed. The subject property is not shown in the EDR City Directory database. The EDR City Directory report is presented in Appendix H and summarized in the following table.

Listing Years	Description
<b>Subject Property – 12870 Panama Street</b>	
1958-1971	Sprague Products Co – Electronic Equipment
1975-1980	Action Industrial Catering, Abitious Catering, Kopper Kart Caterers
<b>Adjoining Properties</b>	
<u>12820 Panama Street</u>	
1958-1962	Fenske Fedrick & Miller Electronics Inc
1971	KCE Corp
1980	Sprague Products Co – Electronic Equipment
2000	Betty Allen
<u>12908 Panama Street</u>	
1965	Quantatron
1970-1971	Wahl Wm Corp
1975	Heat Spy
<u>12910 Panama Street</u>	
1958-1967	Chem Seal Corp of America

Listing Years	Description
1970-1980	Banner Printing Co
<u>12964 Panama Street</u>	
1962-1975	Amelco Inc – Electronic Equipment
1975-1980	Microelectronic Operations
1976-2013	Teledyne Microelectronics
<u>12901 Culver Boulevard</u>	
1985-2006	E-Z Storage

## 5.5 Sanborn Fire Insurance Maps

Alta contracted EDR to provide available Sanborn Fire Insurance Maps. EDR reviewed the Sanborn Library collections and determined that coverage does not exist. Appendix I presents a copy of the EDR Sanborn report.

## 6 FINDINGS

Alta Environmental has performed a Phase I Environmental Site Assessment for the subject property in conformance with the scope and limitations of ASTM Practice E 1527. Based on the site reconnaissance, review of historical and available documents, and interviews, Alta finds the following:

### 6.1 Current Site Activities

At the time of our site visit, the subject property was developed with an approximately 17,178 square foot mixed concrete tilt up and brick construction administration building with an attached 930 square foot wooden shed, two concrete-block out-buildings (one approximately 1,424 square foot former facilities maintenance building, and one 600 square foot storage building with two attached storage sheds), and one 600 square foot wooden out-building. In addition, there were two approximately 200 square foot, fenced storage areas onsite. The remaining areas of the property were covered with asphalt and concrete paving. Within the southern and western portions of the property, a drainage swale crossed the property that channeled surface water runoff to Panama Street.

At the time of our site reconnaissance, the property was in transition from a business administration use to that of a vacant property. Teledyne was in the process of relocating their operations to another location.

### 6.2 Historical Site Activities

Based on earliest records reviewed, the subject property was utilized for agriculture as early as 1928. By 1954, the property was redeveloped as The Sprague Electric Company facility. This facility was described in the Sprague Electric Company “Log”, published in March 1960, as a business that was devoted to the sales and field engineering activities for the West Coast, including radio noise filter design and development for the West Coast Sprague sales offices (*Log*, 1960). This site use continued to the early-1970s until a catering company began utilizing the property for business operations and for maintaining vehicles. The catering company operated a 250-gallon waste oil UST, two subsurface hydraulic vehicle hoists, and a wastewater clarifier. By 1981, the property was owned and operated by Teledyne.

The subject property was most recently used by Teledyne for business administration and for supporting operations conducted at the western adjoining facility. General facilities maintenance support for the neighboring facility was provided through July 31, 2013, when that location was vacated. More recently, a



portion of the administration building was repurposed as a microelectronic circuit prototype laboratory. This laboratory was never brought online and no associated significant chemical storage or use occurred.

### **6.3 Off-Site Activities**

Current land use in the general vicinity of the subject property include mixed commercial and light industrial to the west, south, and east, and residential to the north. Historically, the Southern Pacific Electric Railroad tracks ran in a northeast to southwest direction, southeast of the subject Site, in the early 1900's through the late 1970's.

### **6.4 Data-Gaps**

The ASTM Standard defines a data gap as "a lack of or inability to obtain information required by the practice despite good faith efforts by the environmental professional to gather such information." A data gap is only significant if other information obtained during the ESA, or professional experience, raises reasonable concerns and affects the ability of the environmental professional to identify whether a given issue is a REC. The ASTM Standard requires that the ESA report identify and comment on significant data gaps. No significant data gaps were identified during the course of this Update.

## **7 CONCLUSIONS**

Alta Environmental completed a Phase I ESA Update of the subject site located at 12870 Panama Street, California. The ESA was performed in conformance with the scope and limitations of ASTM E1527-13 and AAI standards. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. The assessment was performed to identify conditions indicative of releases and threatened releases of hazardous substances, pollutants, contaminants, petroleum and petroleum products, and controlled substances on, at, in, or to the subject site. This assessment revealed no evidence of current or historical RECs or Controlled RECs in connection with the subject property, with the exception of the following:

#### Historical Onsite RECs

The previous Phase I ESA dated July 27, 2015 identified three onsite RECs: a former 250-gallon waste oil UST, two former subsurface hydraulic vehicle lifts, and a former wastewater clarifier. These potential environmental concerns were further assessed during subsurface investigations conducted in September and October of 2015. The concentrations of VOCs, TPH, and Title 22 metals in all soil and soil vapor analytical results were reported below their respective industrial/commercial screening levels. The concentrations of VOCs in groundwater were reported below drinking water MCLs for all samples. Low levels of TPH-d and TPH-o were detected in the vicinity of the former UST, however the LARWQCB issued a no further action finding dated January 7, 2016. Based on this information, the three previously identified RECs now meet the definition of a Historical REC and are not considered significant environmental concerns for future industrial/commercial site users.

#### Resolved Offsite REC

The previous Phase I ESA dated July 27, 2015 identified one offsite REC; 12922 Panama Street, the southwestern adjoining property. This potential offsite environmental concern was further assessed during the September 2015 subsurface investigation with two soil and soil vapor boring advanced near the property boundary. The concentrations of VOCs, TPH, and Title 22 metals in all soil and soil vapor analytical results were reported below their respective industrial/commercial screening levels. Additionally, Alta has conducted extensive onsite and offsite soil, soil vapor, and groundwater sampling at the 12922 Panama Street site under LARWQCB oversight, has developed an approved draft remedial action plan, and has identified no indications significant subsurface impacts along the northeastern

property boundary, which adjoins the subject site. Based on this information, the previously identified offsite REC is not considered significant environmental concerns for future industrial/commercial site users.

## 8 QUALIFICATIONS AND SIGNATURE

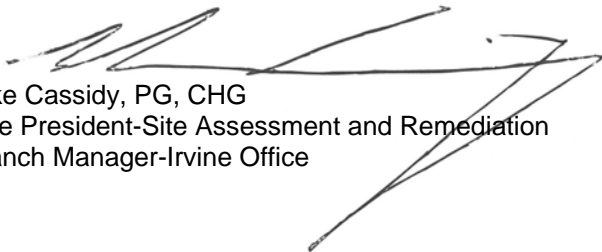
I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental professional as defined in 40 CFR 312.10. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Bina Patel  
Associate Consultant I



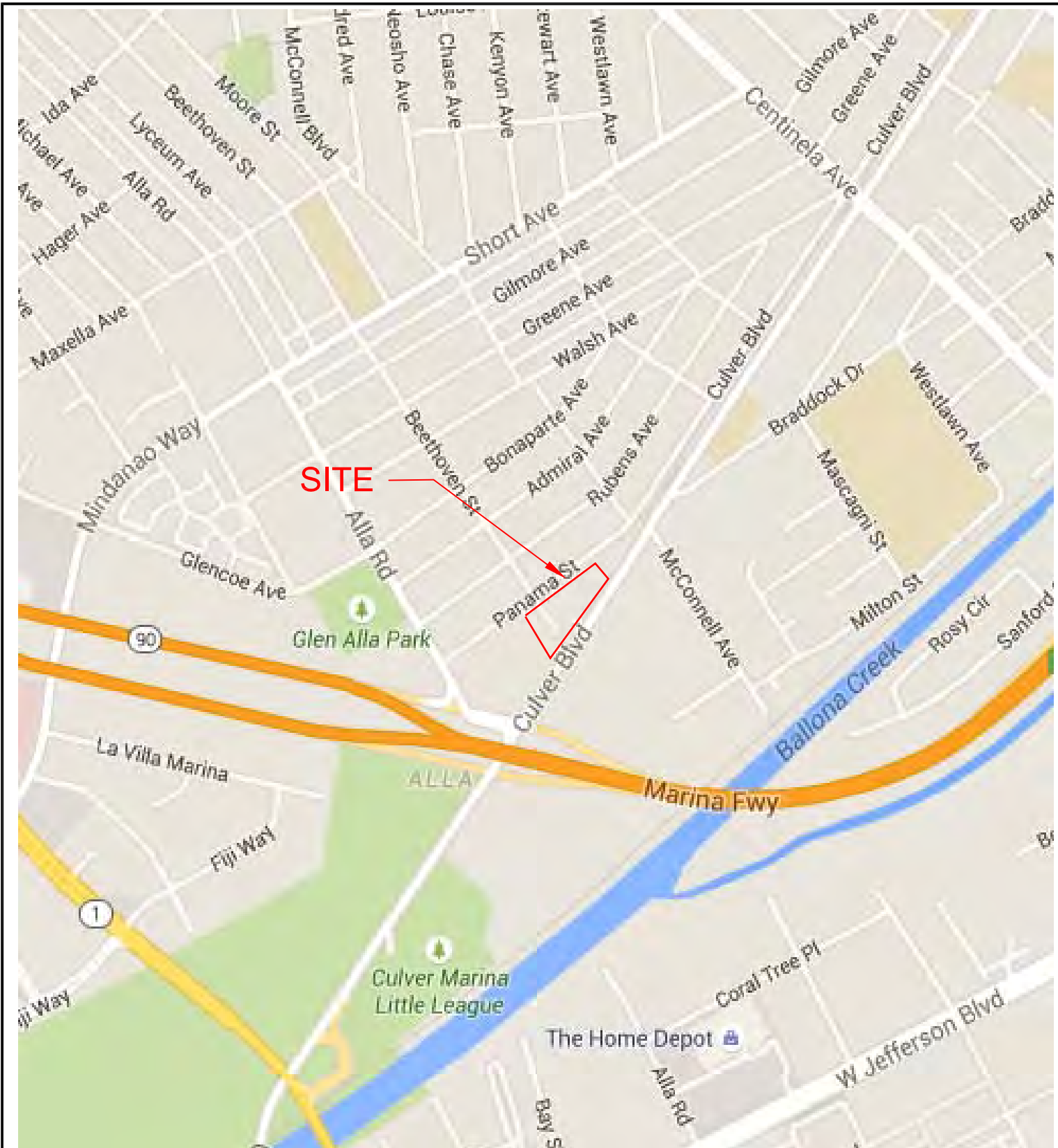
Jonathan Barkman  
Project Manager



Mike Cassidy, PG, CHG  
Vice President-Site Assessment and Remediation  
Branch Manager-Irvine Office


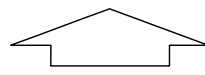
Resume and other supporting documentation are maintained on file at Alta.

Figures



— Approximate Outline of Site

**FIGURE 1: Site Vicinity Map**

CLIENT: McGuire Woods		SITE LOCATION: 12870 Panama Street Los Angeles, California 90066	
PROJECT #: MCGU-15-5327		DRAWN: VB	APPROVED: JB
 3777 Long Beach Blvd., Annex Bldg. Long Beach, CA 90807 (562) 495-5777 www.altanviro.com	SCALE: None	DATE: June 2015	 NORTH

\\libfile01\Data\2\Clients - H-M\McGuire Woods (MCGU)\MCGU-15-5327 Phase I ESA\Photos - Drawings\Figures 1 and 2.dwg



— Approximate Outline of Site

## FIGURE 2: Site Layout Map

CLIENT:  
McGuire Woods

SITE LOCATION: 12870 Panama Street  
Los Angeles, California 90066

PROJECT #: MCGU-15-5327



**ALTA**  
ENVIRONMENTAL

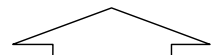
3777 Long Beach Blvd., Annex Bldg.  
Long Beach, CA 90807  
(562) 495-5777 www.altaenviron.com

DRAWN: VB

APPROVED: JB

SCALE:  
None

DATE: June 2015



NORTH

# Appendix A

Historical Topographic Maps





**Teledyne Panama Street Property**

12870 Panama Street

Los Angeles, CA 90066

Inquiry Number: 4246078.4

March 26, 2015

# EDR Historical Topographic Map Report



6 Armstrong Road, 4th Floor  
Shelton, Connecticut 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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

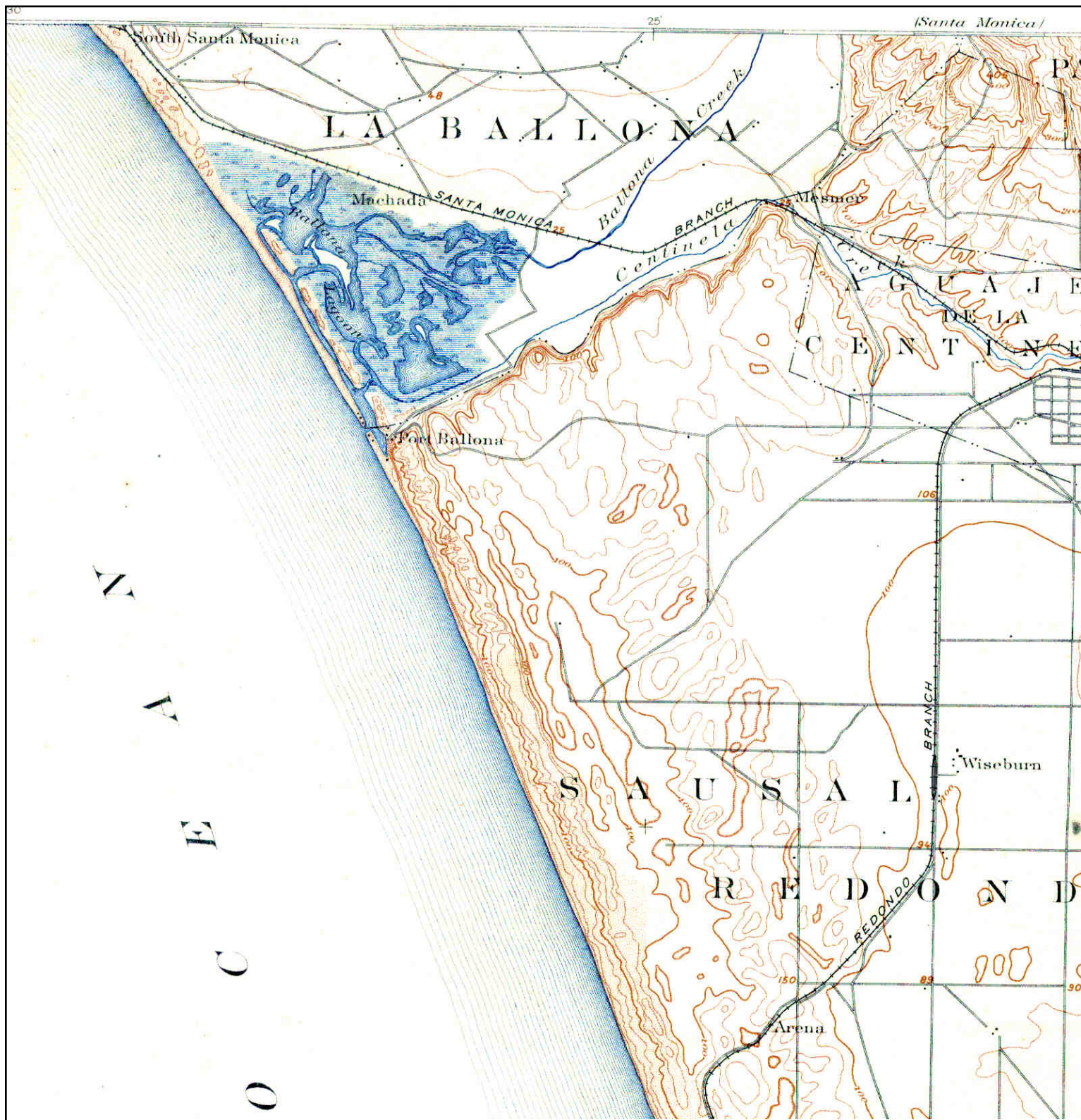
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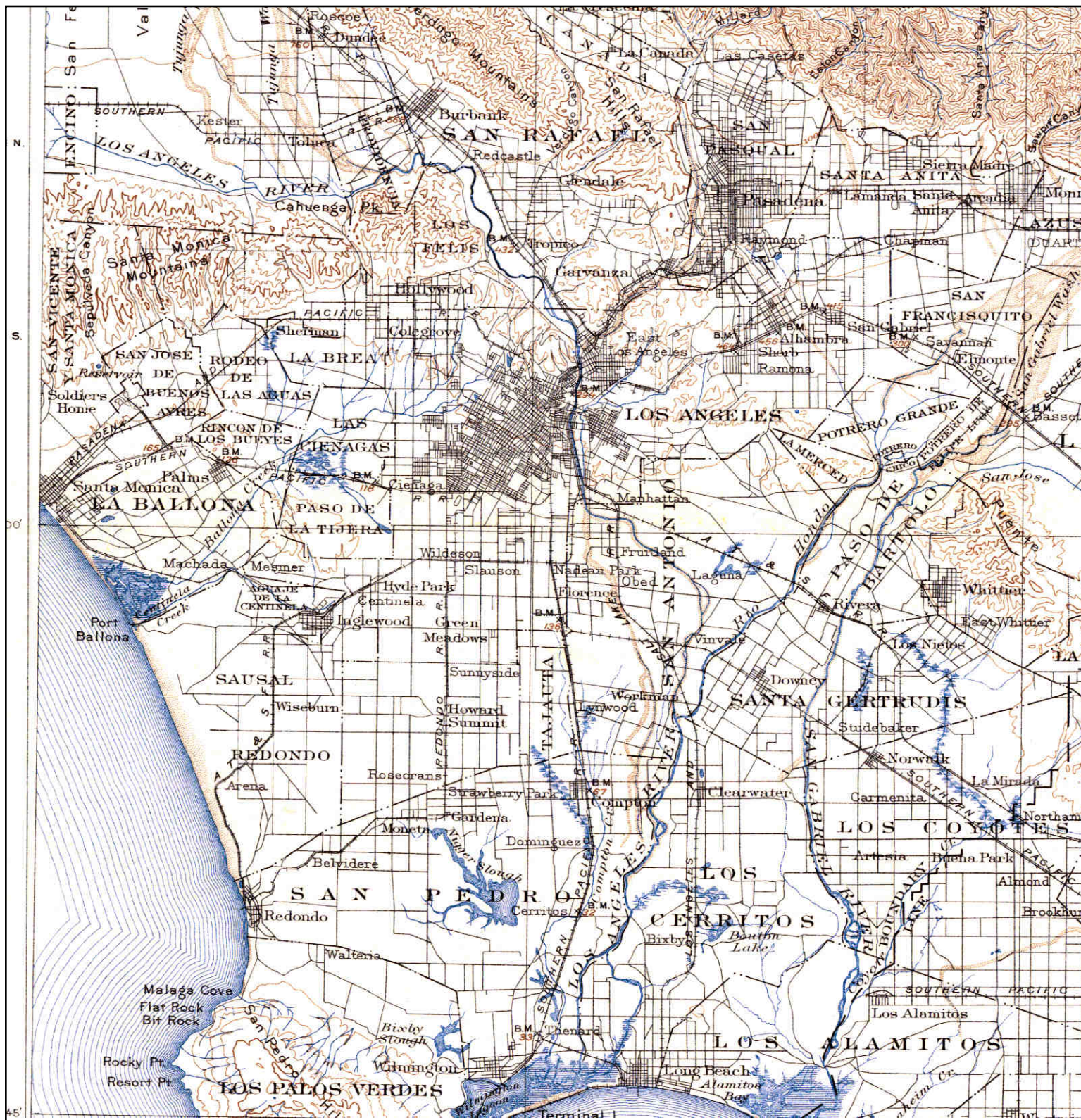
# Historical Topographic Map




	<b>TARGET QUAD</b>	<b>SITE NAME:</b> Teledyne Panama Street Property	<b>CLIENT:</b> Teledyne Technologies Incorporated
	<b>NAME:</b> REDONDO	<b>ADDRESS:</b> 12870 Panama Street	<b>CONTACT:</b> Mark Egbert
	<b>MAP YEAR:</b> 1896	<b>Los Angeles, CA 90066</b>	<b>INQUIRY#:</b> 4246078.4
	<b>SERIES:</b> 15	<b>LAT/LONG:</b> 33.9841 / -118.4273	<b>RESEARCH DATE:</b> 03/26/2015
	<b>SCALE:</b> 1:62500		



# Historical Topographic Map



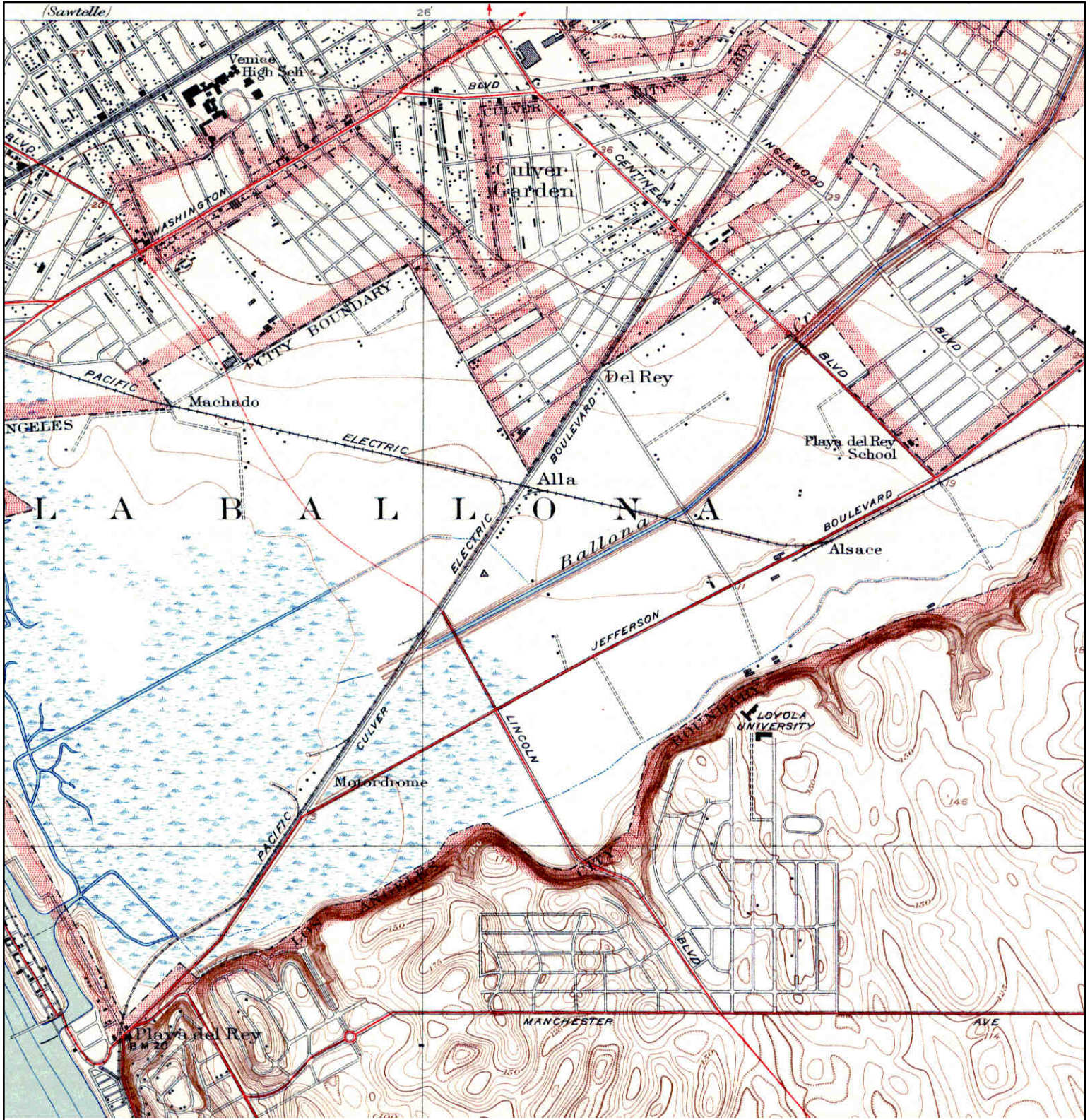
<p>N</p> 	<b>TARGET QUAD</b> NAME: SOUTHERN CA SHEET 1 MAP YEAR: 1901	SITE NAME: Teledyne Panama Street Property ADDRESS: 12870 Panama Street Los Angeles, CA 90066 LAT/LONG: 33.9841 / -118.4273	CLIENT: Teledyne Technologies Incorporated CONTACT: Mark Egbert INQUIRY#: 4246078.4 RESEARCH DATE: 03/26/2015
	SERIES: 60 SCALE: 1:250000		







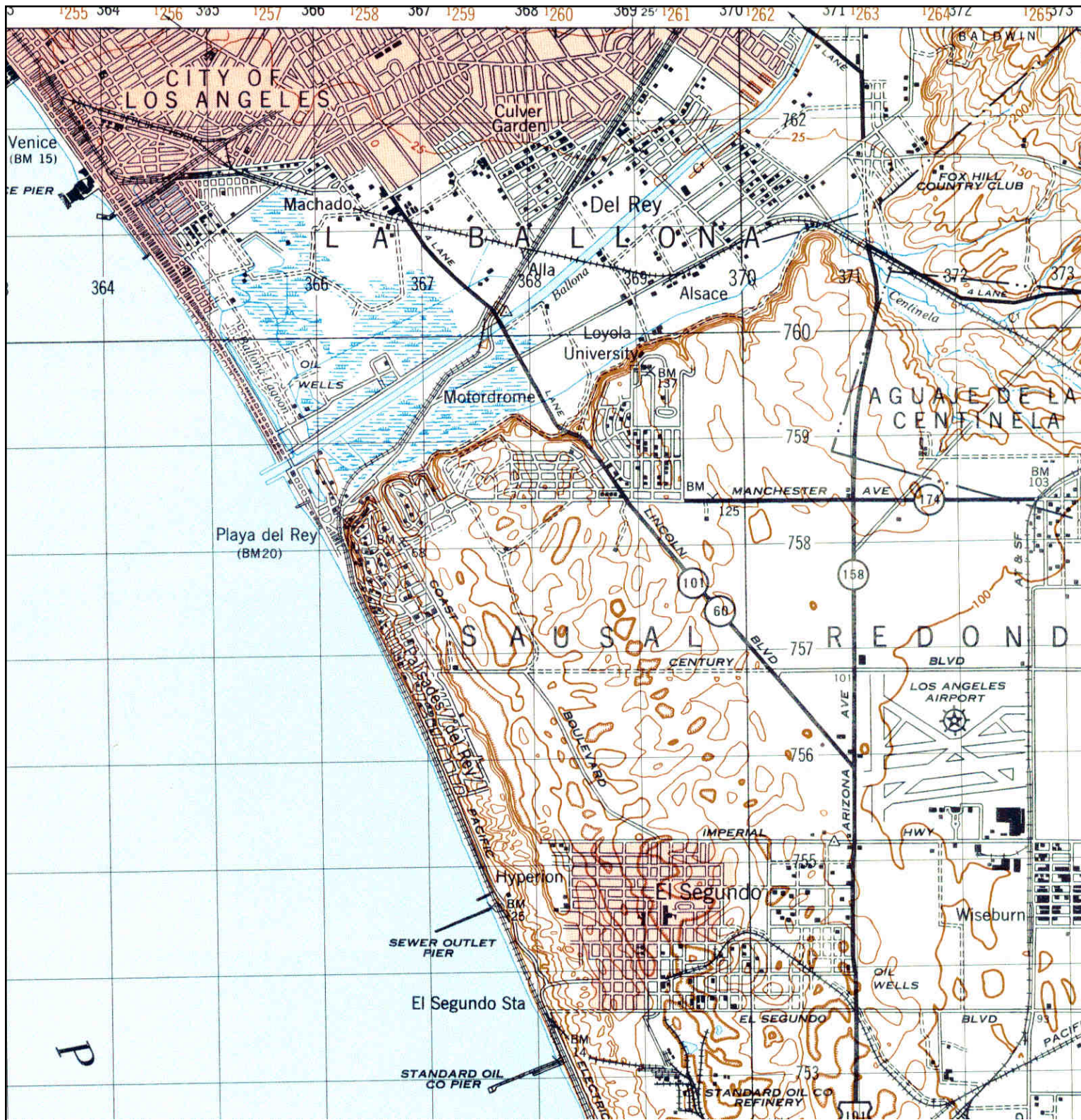
# Historical Topographic Map



<p>N</p>	TARGET QUAD	SITE NAME:	Teledyne Panama Street Property	CLIENT:	Teledyne Technologies Incorporated
	NAME: VENICE	ADDRESS:	12870 Panama Street	CONTACT:	Mark Egbert
	MAP YEAR: 1934		Los Angeles, CA 90066	INQUIRY#:	4246078.4
	SERIES: 6	LAT/LONG:	33.9841 / -118.4273	RESEARCH DATE:	03/26/2015
	SCALE: 1:24000				



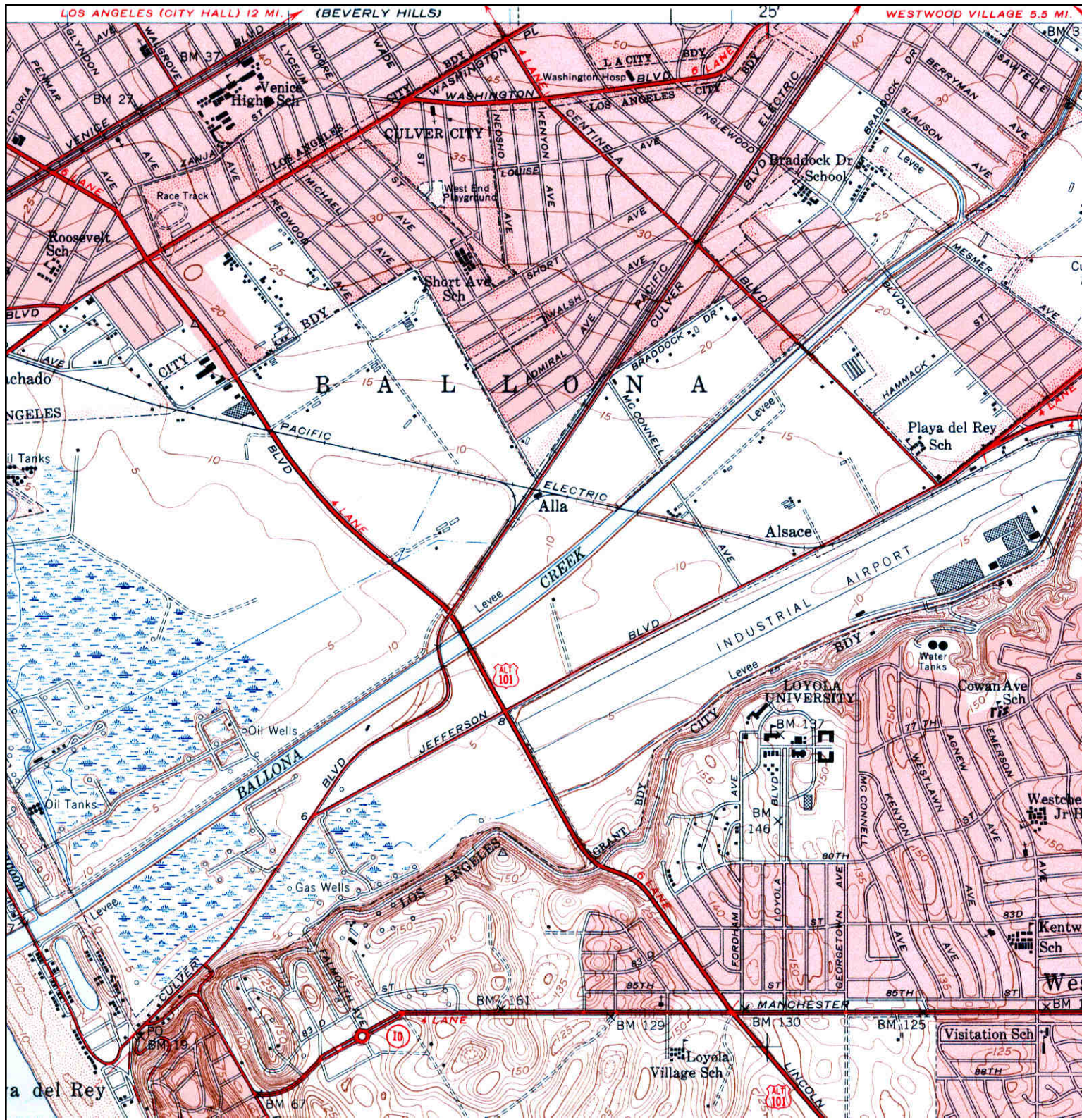
# Historical Topographic Map



<p>N ↑</p>	<p><b>TARGET QUAD</b>                  NAME: REDONDO                  MAP YEAR: 1948</p>	<p><b>SITE NAME:</b> Teledyne Panama Street Property  <b>ADDRESS:</b> 12870 Panama Street                  Los Angeles, CA 90066  <b>LAT/LONG:</b> 33.9841 / -118.4273</p>	<p><b>CLIENT:</b> Teledyne Technologies Incorporated  <b>CONTACT:</b> Mark Egbert  <b>INQUIRY#:</b> 4246078.4  <b>RESEARCH DATE:</b> 03/26/2015</p>
	<p><b>SERIES:</b> 15  <b>SCALE:</b> 1:50000</p>		



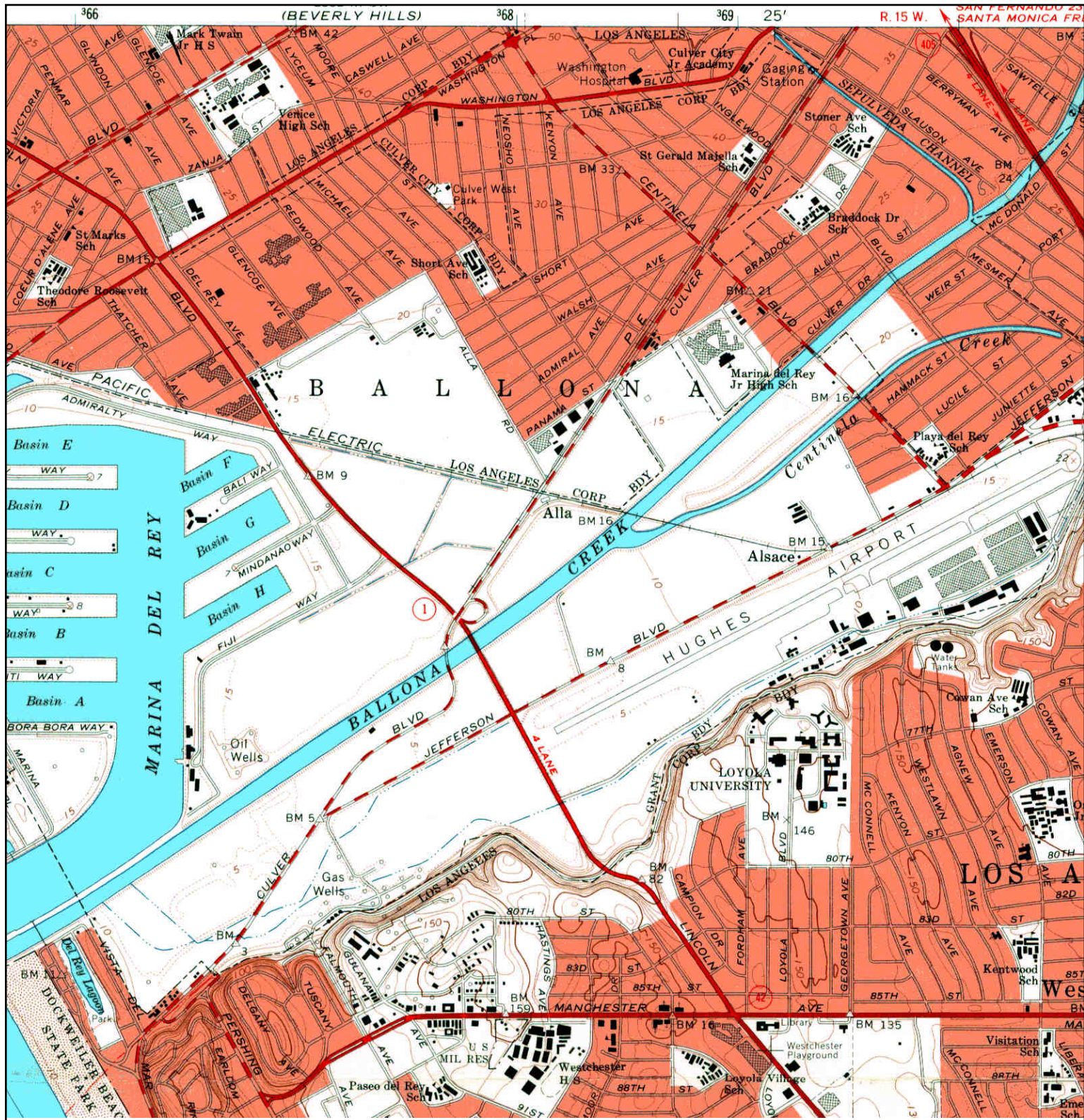
# Historical Topographic Map



<p>N</p>	<p><b>TARGET QUAD</b></p>	<p><b>SITE NAME:</b> Teledyne Panama Street Property</p>	<p><b>CLIENT:</b> Teledyne Technologies Incorporated</p>
	<p>NAME: VENICE</p>	<p><b>ADDRESS:</b> 12870 Panama Street Los Angeles, CA 90066</p>	<p><b>CONTACT:</b> Mark Egbert</p>
	<p>MAP YEAR: 1950</p>	<p><b>LAT/LONG:</b> 33.9841 / -118.4273</p>	<p><b>INQUIRY#:</b> 4246078.4</p>
	<p>SERIES: 7.5</p>		<p><b>RESEARCH DATE:</b> 03/26/2015</p>
	<p>SCALE: 1:24000</p>		



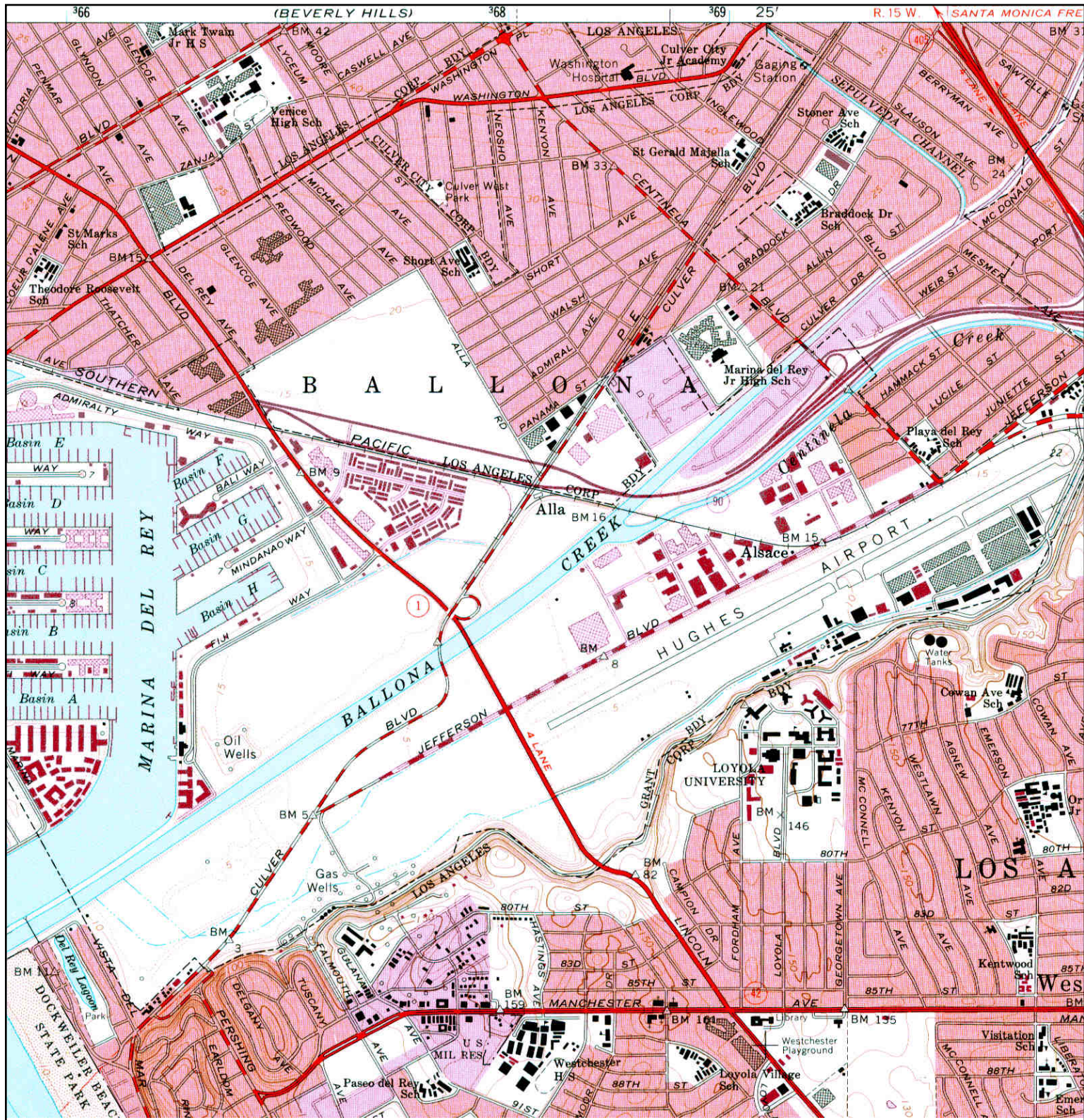
# Historical Topographic Map



<p>N</p>	<b>TARGET QUAD</b>	<b>SITE NAME:</b> Teledyne Panama Street Property	<b>CLIENT:</b> Teledyne Technologies Incorporated
	NAME: VENICE	ADDRESS: 12870 Panama Street	CONTACT: Mark Egbert
	MAP YEAR: 1964	Los Angeles, CA 90066	INQUIRY#: 4246078.4
	SERIES: 7.5	LAT/LONG: 33.9841 / -118.4273	RESEARCH DATE: 03/26/2015
	SCALE: 1:24000		



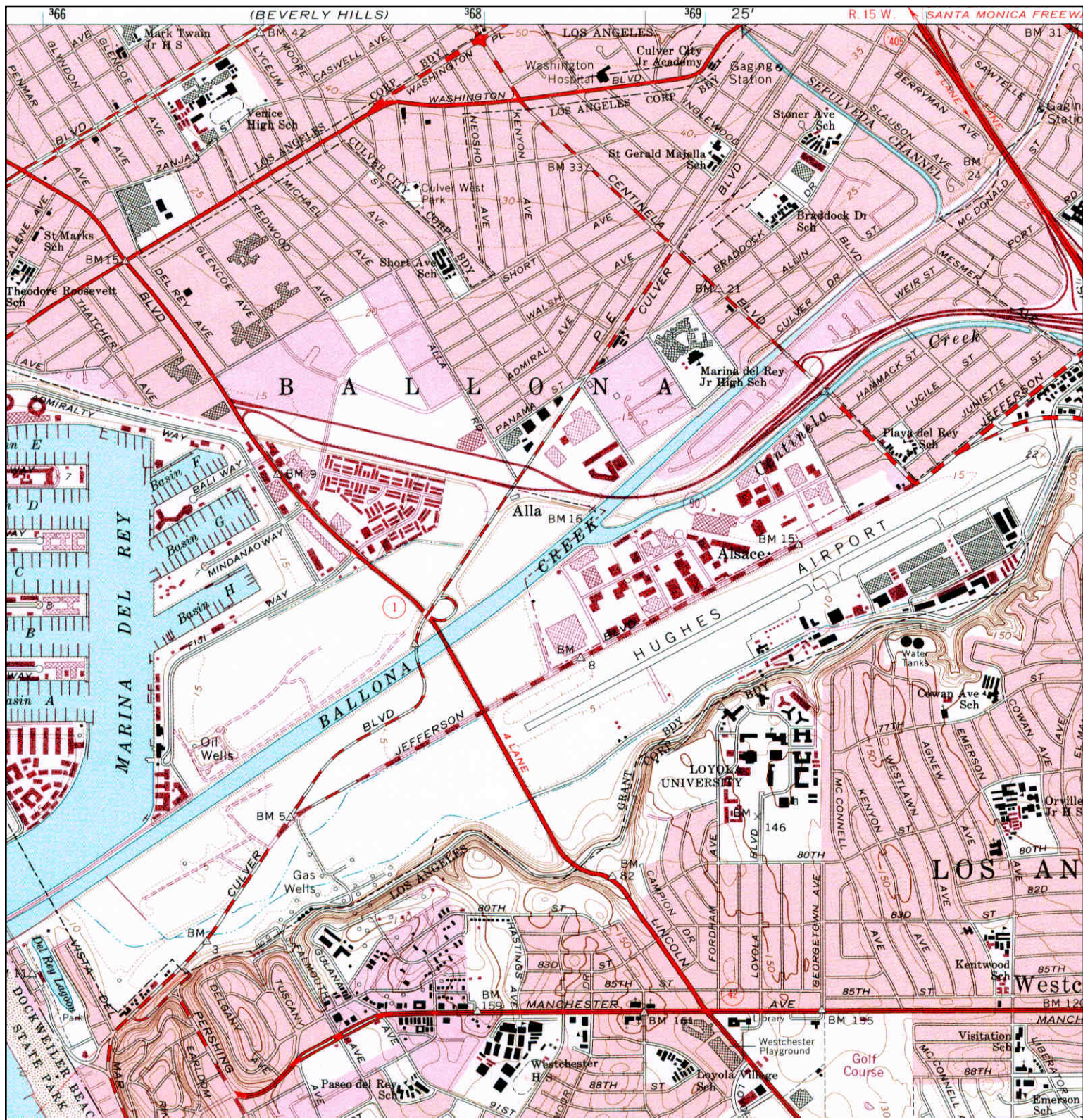
# Historical Topographic Map



<p>N ↑</p>	<b>TARGET QUAD</b>	<b>SITE NAME:</b> Teledyne Panama Street Property	<b>CLIENT:</b> Teledyne Technologies Incorporated
	NAME: VENICE	<b>ADDRESS:</b> 12870 Panama Street	<b>CONTACT:</b> Mark Egbert
	MAP YEAR: 1972	<b>LAT/LONG:</b> 33.9841 / -118.4273	<b>INQUIRY#:</b> 4246078.4
	PHOTOREVISED FROM :1964		<b>RESEARCH DATE:</b> 03/26/2015
	SERIES: 7.5		
	SCALE: 1:24000		



# Historical Topographic Map



<p>N</p>	<p><b>TARGET QUAD</b></p>	<p><b>SITE NAME:</b> Teledyne Panama Street Property</p>	<p><b>CLIENT:</b> Teledyne Technologies Incorporated</p>
	<p>NAME: VENICE</p>	<p><b>ADDRESS:</b> 12870 Panama Street</p>	<p><b>CONTACT:</b> Mark Egbert</p>
	<p>MAP YEAR: 1981</p>	<p><b>LAT/LONG:</b> 33.9841 / -118.4273</p>	<p><b>INQUIRY#:</b> 4246078.4</p>
	<p>PHOTOREVISED FROM :1964</p>		<p><b>RESEARCH DATE:</b> 03/26/2015</p>
	<p>SERIES: 7.5</p>		
	<p>SCALE: 1:24000</p>		



## Appendix B

EDR Database Summary Table and EDR Radius Report

EDR Database Summary Table

Database	Target Property	Search Distance (miles)	<1/8	1/8-1/4	1/4-1/2	>1/2	Total Identified
<b>Standard Environmental Records</b>							
NPL		1.000	0	0	0	0	0
Proposed NPL		1.000	0	0	0	0	0
NPL LIENS		TP	NR	NR	NR	NR	0
Delisted NPL		1.000	0	0	0	0	0
CERCLIS		0.500	0	0	0	NR	0
FEDERAL FACILITY		0.500	0	0	0	NR	0
CERC-NFRAP		0.500	0	0	0	NR	0
CORRACTS		1.000	0	0	0	1	1
RCRA-TSDF		0.500	0	0	0	NR	0
RCRA-LQG		0.250	1	0	NR	NR	1
RCRA-SQG		0.250	1	5	NR	NR	6
RCRA-CESQG		0.250	0	0	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	0
US INST CONTROL		0.500	0	0	0	NR	0
LUCIS		0.500	0	0	0	NR	0
ERNS		TP	NR	NR	NR	NR	0
RESPONSE		1.000	0	0	0	1	1
ENVIROSTOR		1.000	0	0	0	3	3
SWF/LF		0.500	0	0	0	NR	0
LUST		0.500	0	0	1	NR	1
SLIC		0.500	1	0	1	NR	2
INDIAN LUST		0.500	0	0	0	NR	0
UST		0.250	1	0	NR	NR	1
AST		0.250	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	0
FEMA UST		0.250	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	0
INDIAN VCP		0.500	0	0	0	NR	0
<b>Additional Environmental Records</b>							
US BROWNFIELDS		0.500	0	0	0	NR	0
DEBRIS REGION 9		0.500	0	0	0	NR	0
ODI		0.500	0	0	0	NR	0
SWRCY		0.500	0	0	0	NR	0
HAULERS		TP	NR	NR	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	0
US CDL		TP	NR	NR	NR	NR	0
HIST Cal-Sites		1.000	0	0	0	1	1
SCH		0.250	0	0	NR	NR	0
Toxic Pits		1.000	0	0	0	0	0
AOCONCERN		1.000	0	0	0	0	0
CDL		TP	NR	NR	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	0
CA FID UST		0.250	2	1	NR	NR	3

Database	Target Property	Search Distance (miles)	<1/8	1/8-1/4	1/4-1/2	>1/2	Total Identified
HIST UST		0.250	2	0	NR	NR	2
SWEEPS UST		0.250	2	1	NR	NR	3
LIENS 2		TP	NR	NR	NR	NR	0
LIENS		TP	NR	NR	NR	NR	0
DEED		0.500	0	0	0	NR	0
HMIRS		TP	NR	NR	NR	NR	0
CHMIRS		TP	NR	NR	NR	NR	0
LDS		TP	NR	NR	NR	NR	0
MCS		TP	NR	NR	NR	NR	0
SPILLS 90		TP	NR	NR	NR	NR	0
RCRA NonGen / NLR		0.250	0	1	NR	NR	1
DOT OPS		TP	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	0
FUDS		1.000	0	0	0	0	0
CONSENT		1.000	0	0	0	0	0
ROD		1.000	0	0	0	0	0
UMTRA		0.500	0	0	0	NR	0
US MINES		0.250	0	0	NR	NR	0
TRIS		TP	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	0
RMP		TP	NR	NR	NR	NR	0
CA BOND EXP. PLAN		1.000	0	0	0	1	1
UIC		TP	NR	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	0
Cortese		0.500	0	0	0	NR	0
HIST CORTESE		0.500	0	0	1	NR	1
CUPA Listings		0.250	0	0	NR	NR	0
MANIFEST		0.250	2	0	NR	NR	2
Notify 65		1.000	0	0	0	0	0
LA Co. Site Mitigation		TP	NR	NR	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	0
LOS ANGELES CO. HMS		TP	NR	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	0
ENF		TP	NR	NR	NR	NR	0
HAZNET	X	TP	NR	NR	NR	NR	1
EMI		TP	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	0

Database	Target Property	Search Distance (miles)	<1/8	1/8-1/4	1/4-1/2	>1/2	Total Identified
Financial Assurance		TP	NR	NR	NR	NR	0
HWP		1.000	0	0	0	0	0
PROC		0.500	0	0	0	NR	0
HWT		0.250	0	0	NR	NR	0
MWMP		0.250	0	0	NR	NR	0
WDS		TP	NR	NR	NR	NR	0
EPA WATCH LIST		TP	NR	NR	NR	NR	0
US FIN ASSUR		TP	NR	NR	NR	NR	0
LEAD SMELTERS		TP	NR	NR	NR	NR	0
PRP		TP	NR	NR	NR	NR	0
2020 COR ACTION		0.250	0	0	NR	NR	0
COAL ASH DOE		TP	NR	NR	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	0
US AIRS		TP	NR	NR	NR	NR	0
<b>EDR High Risk Historical Records</b>							
EDR MGP		1.000	0	0	0	0	0
EDR US Hist Auto Stat		0.250	4	0	NR	NR	4
EDR US Hist Cleaners		0.250	0	0	NR	NR	0
<b>EDR Recovered Government Archives</b>							
RGA LF		TP	NR	NR	NR	NR	0
RGA LUST		TP	NR	NR	NR	NR	0

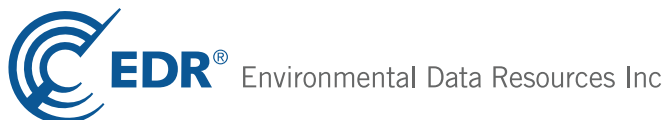
**Teledyne Panama Street Property**

12870 Panama Street  
Los Angeles, CA 90066

Inquiry Number: 4642400.2s

June 08, 2016

# The EDR Radius Map™ Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary .....	ES1
Overview Map .....	2
Detail Map .....	3
Map Findings Summary .....	4
Map Findings .....	8
Orphan Summary .....	136
Government Records Searched/Data Currency Tracking .....	GR-1

## GEOCHECK ADDENDUM

GeoCheck - Not Requested

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

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## 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) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

12870 PANAMA STREET  
LOS ANGELES, CA 90066

#### COORDINATES

Latitude (North): 33.9842180 - 33° 59' 3.18"  
Longitude (West): 118.4270800 - 118° 25' 37.48"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 368179.8  
UTM Y (Meters): 3761129.5  
Elevation: 17 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5640438 VENICE, CA  
Version Date: 2012  
  
North Map: 5630733 BEVERLY HILLS, CA  
Version Date: 2012

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140513  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
12870 PANAMA STREET  
LOS ANGELES, CA 90066

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	TELEDYNE MICOELECTRO	12870 PANAMA ST	CA HAZNET		TP
2	SEARS PACIFIC CENTRA	12870 CULVER BLVD	CA SWEEPS UST, CA HIST UST, CA FID UST	Higher	122, 0.023, South
3	THE PANAMA SITE	12922 PANAMA STREET	CA SLIC, CA CHMIRS, CA NPDES	Higher	210, 0.040, WSW
A4		12817 PANAMA ST	EDR Hist Auto	Higher	274, 0.052, NE
5	KRUPP TAYLOR USA	12800 CULVER BLVD	RCRA-SQG, FINDS, CA HAZNET, ECHO	Higher	491, 0.093, ESE
6		4810 MCCONNELL AVE	EDR Hist Auto	Higher	508, 0.096, ENE
B7	TELEDYNE LIGHTING AN	12964 PANAMA STREET	PA MANIFEST	Higher	509, 0.096, WSW
B8	TELEDYNE MICROELECTR	12964 PANAMA ST	CA UST, HIST FTTS	Higher	509, 0.096, WSW
B9	TELEDYNE MICROELECTR	12964 PANAMA STREET	RCRA-LQG, ICIS, CA HAZNET	Higher	509, 0.096, WSW
B10	TELEDYNE MICROELECTR	12964 PANAMA STREET	PA MANIFEST	Higher	509, 0.096, WSW
A11	MARINA WATER GARDENS	12781 CULVER BL	CA HIST UST	Higher	517, 0.098, NE
A12	CURRENT OCCUPANT	12781 CULVER BLVD	CA SWEEPS UST, CA FID UST	Higher	517, 0.098, NE
13		12950 CULVER BLVD	EDR Hist Auto	Higher	529, 0.100, South
14		12917 ADMIRAL AVE	EDR Hist Auto	Higher	627, 0.119, WNW
15	MILPITAS FLEMING ASS	4755 ALLA ST	RCRA-SQG, FINDS, ECHO	Higher	796, 0.151, WSW
16	APARTMENT HOUSE	12939 BONAPARTE	RCRA-SQG	Higher	931, 0.176, WNW
C17	RANDALL MCANANY COMP	4935 MCCONNELL	RCRA-SQG, FINDS, ECHO	Higher	1056, 0.200, ESE
C18	TELEDYNE REYNOLDS IN	5005 MCCONNELL AVE	RCRA-SQG, TRIS, FINDS, CA NPDES, CA WDS, ECHO	Higher	1080, 0.205, ESE
C19	RANDALL/MCANANY CO	4943 MCCONNELL AVE,	RCRA NonGen / NLR	Higher	1207, 0.229, ESE
C20	PAUL V WEELDEN	4943 MC CONNELL AVE	CA SWEEPS UST, CA FID UST	Higher	1207, 0.229, ESE
C21	BOWERS MACHINING	4943 MCCONNELL UNIT	RCRA-SQG, FINDS, ECHO	Higher	1207, 0.229, ESE
22	TRANSACTION TECH INC	12959 & 12975 CORAL	CA LUST, CA SLIC, CA EMI, CA HIST CORTESE	Lower	2359, 0.447, SSE
D23	BRADMORE INVESTMENT	4150 GLENCOE AVE	CA ENVIROSTOR, CA SLIC, CA VCP, CA DEED	Higher	4750, 0.900, WNW
D24	CORNELL-DUBILIER ELE	4144 GLENCOE	SEMS, CA RESPONSE, CA ENVIROSTOR, CA SLIC, CA HIST.	Higher	4907, 0.929, WNW
D25	CORNELL-DUBILIER ELE	4144 GLENCOE AVENUE	CA BOND EXP. PLAN	Higher	4907, 0.929, WNW
26	CENTRAL REGION ELEME	13150 WEST BLUFF CRE	CA ENVIROSTOR, CA SCH	Lower	5182, 0.981, South
27	WESTERN CIRCUITS INC	4136 DEL REY	SEMS-ARCHIVE, CORRACTS, RCRA-SQG, ECHO	Higher	5193, 0.984, WNW

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
TELEDYNE MICOELECTRO 12870 PANAMA ST LOS ANGELES, CA 90066	CA HAZNET GEPAID: CAL000392306	N/A

## 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

### ***Federal RCRA non-CORRACTS TSD facilities list***

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

### ***Federal RCRA generators list***

RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

### ***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

## EXECUTIVE SUMMARY

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

CA 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  
CA 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

### ***State and tribal Brownfields sites***

CA BROWNFIELDS..... Considered Brownfields Sites Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

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

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

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

#### ***Local Lists of Hazardous waste / Contaminated Sites***

CA AOCONCERN..... San Gabriel Valley Areas of Concern  
US HIST CDL..... Delisted National Clandestine Laboratory Register  
CA CDL..... Clandestine Drug Labs  
CA Toxic Pits..... Toxic Pits Cleanup Act Sites  
US CDL..... National Clandestine Laboratory Register

#### ***Local Land Records***

CA LIENS..... Environmental Liens Listing  
LIENS 2..... CERCLA Lien Information

#### ***Records of Emergency Release Reports***

HMIRS..... Hazardous Materials Information Reporting System

## EXECUTIVE SUMMARY

CA LDS..... Land Disposal Sites Listing  
CA MCS..... Military Cleanup Sites Listing  
CA SPILLS 90..... SPILLS 90 data from FirstSearch

### ***Other Ascertainable Records***

FUDS..... Formerly Used Defense Sites  
DOD..... Department of Defense Sites  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
US FIN ASSUR..... Financial Assurance Information  
EPA WATCH LIST..... EPA WATCH LIST  
2020 COR ACTION..... 2020 Corrective Action Program List  
TSCA..... Toxic Substances Control Act  
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  
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  
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  
UXO..... Unexploded Ordnance Sites  
DOCKET HWC..... Hazardous Waste Compliance Docket Listing  
CA CUPA Listings..... CUPA Resources List  
CA DRYCLEANERS..... Cleaner Facilities  
CA ENF..... Enforcement Action Listing  
CA Financial Assurance..... Financial Assurance Information Listing  
CA LOS ANGELES CO. HMS..... HMS: Street Number List  
CA HWP..... EnviroStor Permitted Facilities Listing  
CA HWT..... Registered Hazardous Waste Transporter Database  
CA MINES..... Mines Site Location Listing  
CA MWMP..... Medical Waste Management Program Listing  
CA PEST LIC..... Pesticide Regulation Licenses Listing  
CA PROC..... Certified Processors Database  
CA Notify 65..... Proposition 65 Records  
LA Co. Site Mitigation..... Site Mitigation List  
CA UIC..... UIC Listing  
CA WASTEWATER PITS..... Oil Wastewater Pits Listing  
CA WIP..... Well Investigation Program Case List  
FUELS PROGRAM..... EPA Fuels Program Registered Listing

### **EDR HIGH RISK HISTORICAL RECORDS**

#### ***EDR Exclusive Records***

EDR MGP..... EDR Proprietary Manufactured Gas Plants

## EXECUTIVE SUMMARY

EDR Hist Cleaner..... EDR Exclusive Historic Dry Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### **Exclusive Recovered Govt. Archives**

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

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

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

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

### STANDARD ENVIRONMENTAL RECORDS

#### **Federal RCRA CORRACTS facilities list**

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 12/09/2015 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>WESTERN CIRCUITS INC</i></b>	<b><i>4136 DEL REY</i></b>	<b><i>WNW 1/2 - 1 (0.984 mi.)</i></b>	<b><i>27</i></b>	<b><i>130</i></b>

#### **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 12/09/2015 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>TELEDYNE MICROELECTR</i></b>	<b><i>12964 PANAMA STREET</i></b>	<b><i>WSW 0 - 1/8 (0.096 mi.)</i></b>	<b><i>B9</i></b>	<b><i>30</i></b>

## EXECUTIVE SUMMARY

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 12/09/2015 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>KRUPP TAYLOR USA</b>	<b>12800 CULVER BLVD</b>	<b>ESE 0 - 1/8 (0.093 mi.)</b>	<b>5</b>	<b>16</b>
<b>MILPITAS FLEMING ASS</b>	<b>4755 ALLA ST</b>	<b>WSW 1/8 - 1/4 (0.151 mi.)</b>	<b>15</b>	<b>63</b>
APARTMENT HOUSE	12939 BONAPARTE	WNW 1/8 - 1/4 (0.176 mi.)	16	64
<b>RANDALL MCANANY COMP</b>	<b>4935 MCCONNELL</b>	<b>ESE 1/8 - 1/4 (0.200 mi.)</b>	<b>C17</b>	<b>65</b>
<b>TELEDYNE REYNOLDS IN</b>	<b>5005 MCCONNELL AVE</b>	<b>ESE 1/8 - 1/4 (0.205 mi.)</b>	<b>C18</b>	<b>67</b>
<b>BOWERS MACHINING</b>	<b>4943 MCCONNELL UNIT</b>	<b>ESE 1/8 - 1/4 (0.229 mi.)</b>	<b>C21</b>	<b>75</b>

### **State- and tribal - equivalent NPL**

CA RESPONSE: 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.

A review of the CA RESPONSE list, as provided by EDR, and dated 02/01/2016 has revealed that there is 1 CA RESPONSE site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CORNELL-DUBILIER ELE</b> AWP Facility Id: 19360279 Status: Active Facility Id: 19360279	<b>4144 GLENCOE</b>	<b>WNW 1/2 - 1 (0.929 mi.)</b>	<b>D24</b>	<b>83</b>

### **State- and tribal - equivalent CERCLIS**

CA ENVIROSTOR: The Department of Toxic Substances Control's (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.

A review of the CA ENVIROSTOR list, as provided by EDR, and dated 02/01/2016 has revealed that there are 3 CA ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>BRADMORE INVESTMENT</b> Facility Id: 60001574	<b>4150 GLENCOE AVE</b>	<b>WNW 1/2 - 1 (0.900 mi.)</b>	<b>D23</b>	<b>78</b>

## EXECUTIVE SUMMARY

Status: Certified O&M - Land Use Restrictions Only

<b>CORNELL-DUBILIER ELE</b>	<b>4144 GLENCOE</b>	<b>WNW 1/2 - 1 (0.929 mi.)</b>	<b>D24</b>	<b>83</b>
Facility Id: 19360279				
Status: Active				

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CENTRAL REGION ELEME</b>	<b>13150 WEST BLUFF CRE</b>	<b>S 1/2 - 1 (0.981 mi.)</b>	<b>26</b>	<b>118</b>
Facility Id: 60000645				
Status: Certified / Operation & Maintenance				

### **State and tribal leaking storage tank lists**

CA LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the CA LUST list, as provided by EDR, and dated 03/14/2016 has revealed that there is 1 CA LUST site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>TRANSACTION TECH INC</b>	<b>12959 &amp; 12975 CORAL</b>	<b>SSE 1/4 - 1/2 (0.447 mi.)</b>	<b>22</b>	<b>76</b>
Facility Id: 902920034				
Status: Pollution Characterization				
Global ID: T0603701345				

CA SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the CA SLIC list, as provided by EDR, and dated 03/14/2016 has revealed that there are 2 CA SLIC sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>THE PANAMA SITE</b>	<b>12922 PANAMA STREET</b>	<b>WSW 0 - 1/8 (0.040 mi.)</b>	<b>3</b>	<b>11</b>
Facility Status: Open - Site Assessment				
Global Id: T10000004824				

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>TRANSACTION TECH INC</b>	<b>12959 &amp; 12975 CORAL</b>	<b>SSE 1/4 - 1/2 (0.447 mi.)</b>	<b>22</b>	<b>76</b>
Facility Status: Completed - Case Closed				
Facility Status: No further action required				
Global Id: SL2046C1644				



## EXECUTIVE SUMMARY

### **State and tribal registered storage tank lists**

CA 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 CA UST list, as provided by EDR, and dated 03/14/2016 has revealed that there is 1 CA UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>TELEDYNE MICROELECTR</b> Facility Id: 23622	<b>12964 PANAMA ST</b>	<b>WSW 0 - 1/8 (0.096 mi.)</b>	<b>B8</b>	<b>29</b>

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Local Lists of Hazardous waste / Contaminated Sites**

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

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

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CORNELL-DUBILIER ELE</b>	<b>4144 GLENCOE</b>	<b>WNW 1/2 - 1 (0.929 mi.)</b>	<b>D24</b>	<b>83</b>

#### **Local Lists of Registered Storage Tanks**

CA SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the CA SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 3 CA SWEEPS UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>SEARS PACIFIC CENTRA</b> Comp Number: 751	<b>12870 CULVER BLVD</b>	<b>S 0 - 1/8 (0.023 mi.)</b>	<b>2</b>	<b>9</b>
<b>CURRENT OCCUPANT</b> Status: A Tank Status: A Comp Number: 1878	<b>12781 CULVER BLVD</b>	<b>NE 0 - 1/8 (0.098 mi.)</b>	<b>A12</b>	<b>59</b>
<b>PAUL V WEELDEN</b> Status: A Comp Number: 5067	<b>4943 MC CONNELL AVE</b>	<b>ESE 1/8 - 1/4 (0.229 mi.)</b>	<b>C20</b>	<b>74</b>

## EXECUTIVE SUMMARY

CA HIST UST: Historical UST Registered Database.

A review of the CA HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 CA HIST UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>SEARS PACIFIC CENTRA</b> Facility Id: 00000006542	<b>12870 CULVER BLVD</b>	<b>S 0 - 1/8 (0.023 mi.)</b>	<b>2</b>	<b>9</b>
MARINA WATER GARDENS Facility Id: 00000033891	12781 CULVER BL	NE 0 - 1/8 (0.098 mi.)	A11	58

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 3 CA FID UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>SEARS PACIFIC CENTRA</b> Facility Id: 19019428 Status: A	<b>12870 CULVER BLVD</b>	<b>S 0 - 1/8 (0.023 mi.)</b>	<b>2</b>	<b>9</b>
<b>CURRENT OCCUPANT</b> Facility Id: 19055433 Status: A	<b>12781 CULVER BLVD</b>	<b>NE 0 - 1/8 (0.098 mi.)</b>	<b>A12</b>	<b>59</b>
<b>PAUL V WEELDEN</b> Facility Id: 19055959 Status: A	<b>4943 MC CONNELL AVE</b>	<b>ESE 1/8 - 1/4 (0.229 mi.)</b>	<b>C20</b>	<b>74</b>

### **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 12/09/2015 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RANDALL/MCANANY CO	4943 MCCONNELL AVE,	ESE 1/8 - 1/4 (0.229 mi.)	C19	73

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

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

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CORNELL-DUBILIER ELE	4144 GLENCOE AVENUE	WNW 1/2 - 1 (0.929 mi.)	D25	117

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

A review of the CA HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 CA HIST CORTESE site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>TRANSACTION TECH INC</b> Reg Id: 902920034	<b>12959 &amp; 12975 CORAL</b>	<b>SSE 1/4 - 1/2 (0.447 mi.)</b>	<b>22</b>	<b>76</b>

PA MANIFEST: Hazardous waste manifest information.

A review of the PA MANIFEST list, as provided by EDR, has revealed that there are 2 PA MANIFEST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TELEDYNE LIGHTING AN Generator EPA Id: CAL000271350	12964 PANAMA STREET	WSW 0 - 1/8 (0.096 mi.)	B7	19
TELEDYNE MICROELECTR Generator EPA Id: CAD009587700	12964 PANAMA STREET	WSW 0 - 1/8 (0.096 mi.)	B10	48

### 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 4 EDR Hist Auto sites within approximately 0.125 miles of the target property.

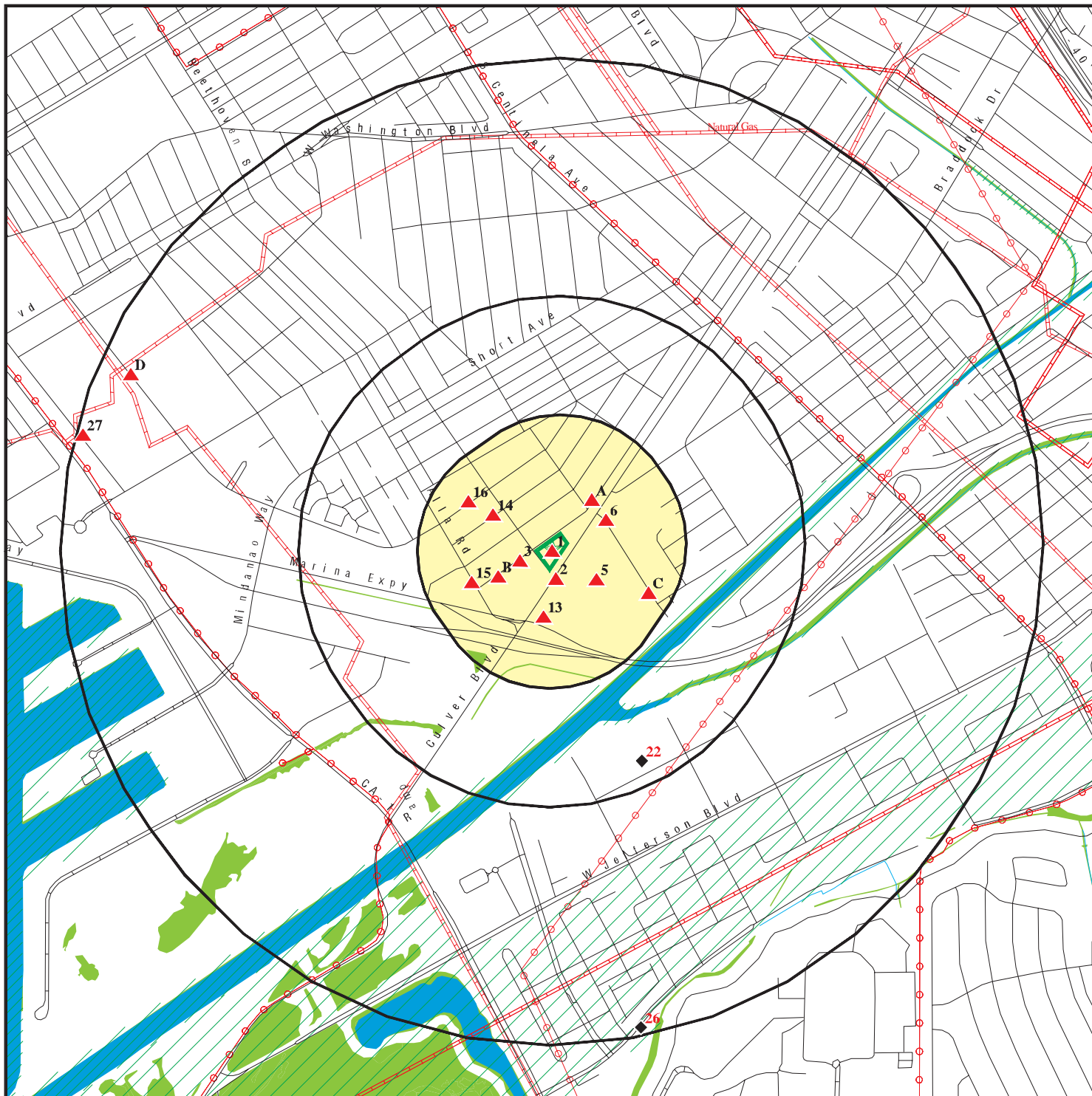
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	12817 PANAMA ST	NE 0 - 1/8 (0.052 mi.)	A4	16
Not reported	4810 MCCONNELL AVE	ENE 0 - 1/8 (0.096 mi.)	6	19
Not reported	12950 CULVER BLVD	S 0 - 1/8 (0.100 mi.)	13	62
Not reported	12917 ADMIRAL AVE	WNW 0 - 1/8 (0.119 mi.)	14	62

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

<u>Site Name</u>	<u>Database(s)</u>
PLAYA VISTA	SEMS-ARCHIVE
SOUTHERN CALIFORNIA GAS COMPANY	CA SLIC
HUGHES AIRCRAFT COMPANY CULVER CIT	CA ENVIROSTOR
WESTCHESTER 3 ACRE PROPERTY	CA ENVIROSTOR

# OVERVIEW MAP - 4642400.2S



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

Indian Reservations BIA

Power transmission lines

Pipelines

100-year flood zone

500-year flood zone

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: Teledyne Panama Street Property  
 ADDRESS: 12870 Panama Street  
 Los Angeles CA 90066  
 LAT/LONG: 33.984218 / 118.42708

CLIENT: Alta Environmental  
 CONTACT: Bina Patel  
 INQUIRY #: 4642400.2s  
 DATE: June 08, 2016 8:02 pm

# DETAIL MAP - 4642400.2S



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

Indian Reservations BIA

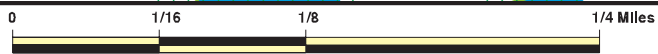
100-year flood zone

500-year flood zone

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: Teledyne Panama Street Property  
 ADDRESS: 12870 Panama Street  
 Los Angeles CA 90066  
 LAT/LONG: 33.984218 / 118.42708

CLIENT: Alta Environmental  
 CONTACT: Bina Patel  
 INQUIRY #: 4642400.2s  
 DATE: June 08, 2016 8:03 pm

## 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
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	1	NR	1
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		1	0	NR	NR	NR	1
RCRA-SQG	0.250		1	5	NR	NR	NR	6
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
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
<b><i>Federal ERNS list</i></b>								
ERNS	0.001		0	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent NPL</i></b>								
CA RESPONSE	1.000		0	0	0	1	NR	1
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
CA ENVIROSTOR	1.000		0	0	0	3	NR	3
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
CA SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
CA LUST	0.500		0	0	1	NR	NR	1

## 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
CA SLIC	0.500		1	0	1	NR	NR	2
<b><i>State and tribal registered storage tank lists</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
CA UST	0.250		1	0	NR	NR	NR	1
CA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b><i>State and tribal voluntary cleanup sites</i></b>								
CA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b><i>State and tribal Brownfields sites</i></b>								
CA BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>								
<b><i>Local Brownfield lists</i></b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Landfill / Solid Waste Disposal Sites</i></b>								
CA WMUDS/SWAT	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	0	0	NR	NR	0
CA HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Hazardous waste / Contaminated Sites</i></b>								
CA AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	0	0	1	NR	1
CA SCH	0.250		0	0	NR	NR	NR	0
CA CDL	0.001		0	NR	NR	NR	NR	0
CA Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
<b><i>Local Lists of Registered Storage Tanks</i></b>								
CA SWEEPS UST	0.250		2	1	NR	NR	NR	3
CA HIST UST	0.250		2	0	NR	NR	NR	2
CA FID UST	0.250		2	1	NR	NR	NR	3
<b><i>Local Land Records</i></b>								
CA LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
CA DEED	0.500		0	0	0	NR	NR	0
<b><i>Records of Emergency Release Reports</i></b>								
HMIRS	0.001		0	NR	NR	NR	NR	0



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA CHMIRS	0.001		0	NR	NR	NR	NR	0
CA LDS	0.001		0	NR	NR	NR	NR	0
CA MCS	0.001		0	NR	NR	NR	NR	0
CA SPILLS 90	0.001		0	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		0	1	NR	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	1	NR	1
CA Cortese	0.500		0	0	0	NR	NR	0
CA CUPA Listings	0.250		0	0	NR	NR	NR	0
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA EMI	0.001		0	NR	NR	NR	NR	0
CA ENF	0.001		0	NR	NR	NR	NR	0
CA Financial Assurance	0.001		0	NR	NR	NR	NR	0
CA HAZNET	0.001	1	0	NR	NR	NR	NR	1
CA HIST CORTESE	0.500		0	0	1	NR	NR	1
CA LOS ANGELES CO. HMS	0.001		0	NR	NR	NR	NR	0
CA HWP	1.000		0	0	0	0	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA HWT	0.250		0	0	NR	NR	NR	0
PA MANIFEST	0.250		2	0	NR	NR	NR	2
CA MINES	0.001		0	NR	NR	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
CA NPDES	0.001		0	NR	NR	NR	NR	0
CA PEST LIC	0.001		0	NR	NR	NR	NR	0
CA PROC	0.500		0	0	0	NR	NR	0
CA Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	0.001		0	NR	NR	NR	NR	0
CA UIC	0.001		0	NR	NR	NR	NR	0
CA WASTEWATER PITS	0.500		0	0	0	NR	NR	0
CA WDS	0.001		0	NR	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	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		4	NR	NR	NR	NR	4
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

### EDR RECOVERED GOVERNMENT ARCHIVES

#### *Exclusive Recovered Govt. Archives*

CA RGA LF	0.001		0	NR	NR	NR	NR	0
CA RGA LUST	0.001		0	NR	NR	NR	NR	0

- Totals -- 1 16 8 3 7 0 35

#### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**1**            **TELEDYNE MICROELECTRONIC TECHNOLOGIES**  
**Target**        **12870 PANAMA ST**  
**Property**      **LOS ANGELES, CA 90066**

**CA HAZNET**    **S118234767**  
                         **N/A**

**Actual:**  
**17 ft.**

HAZNET:

envid:                    S118234767  
Year:                     2014  
GEPaid:                  CAL000392306  
Contact:                 CAHARLIE BARRIOS  
Telephone:               3105742017  
Mailing Name:            Not reported  
Mailing Address:        12870 PANAMA ST  
Mailing City,St,Zip:    LOS ANGELES, CA 900660000  
Gen County:              Los Angeles  
TSD EPA ID:              AZ0000337360  
TSD County:              99  
Waste Category:         Polychlorinated biphenyls and material containing PCBs  
Disposal Method:        Not reported  
Tons:                      0.06612  
Cat Decode:               Polychlorinated biphenyls and material containing PCBs  
Method Decode:          Not reported  
Facility County:         Los Angeles

envid:                    S118234767  
Year:                     2014  
GEPaid:                  CAL000392306  
Contact:                 CAHARLIE BARRIOS  
Telephone:               3105742017  
Mailing Name:            Not reported  
Mailing Address:        12870 PANAMA ST  
Mailing City,St,Zip:    LOS ANGELES, CA 900660000  
Gen County:              Los Angeles  
TSD EPA ID:              CAT080014079  
TSD County:              Contra Costa  
Waste Category:         Off-specification, aged or surplus organics  
Disposal Method:        Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery  
                                  (H010-H129) Or (H131-H135)  
Tons:                      0.003  
Cat Decode:               Off-specification, aged or surplus organics  
Method Decode:          Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery  
                                  (H010-H129) Or (H131-H135)  
Facility County:         Los Angeles

envid:                    S118234767  
Year:                     2014  
GEPaid:                  CAL000392306  
Contact:                 CAHARLIE BARRIOS  
Telephone:               3105742017  
Mailing Name:            Not reported  
Mailing Address:        12870 PANAMA ST  
Mailing City,St,Zip:    LOS ANGELES, CA 900660000  
Gen County:              Los Angeles  
TSD EPA ID:              CAD008302903  
TSD County:              Los Angeles  
Waste Category:         Off-specification, aged or surplus organics  
Disposal Method:        Fuel Blending Prior To Energy Recovery At Another Site  
Tons:                      0.055  
Cat Decode:               Off-specification, aged or surplus organics  
Method Decode:          Fuel Blending Prior To Energy Recovery At Another Site

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**S118234767**

Facility County: Los Angeles

envid: S118234767  
Year: 2014  
GEPAID: CAL000392306  
Contact: CAHARLIE BARRIOS  
Telephone: 3105742017  
Mailing Name: Not reported  
Mailing Address: 12870 PANAMA ST  
Mailing City,St,Zip: LOS ANGELES, CA 900660000  
Gen County: Los Angeles  
TSD EPA ID: CAD008302903  
TSD County: Los Angeles  
Waste Category: Off-specification, aged or surplus inorganics  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.0065  
Cat Decode: Off-specification, aged or surplus inorganics  
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Facility County: Los Angeles

envid: S118234767  
Year: 2014  
GEPAID: CAL000392306  
Contact: CAHARLIE BARRIOS  
Telephone: 3105742017  
Mailing Name: Not reported  
Mailing Address: 12870 PANAMA ST  
Mailing City,St,Zip: LOS ANGELES, CA 900660000  
Gen County: Los Angeles  
TSD EPA ID: CAD008302903  
TSD County: Los Angeles  
Waste Category: Off-specification, aged or surplus organics  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.1125  
Cat Decode: Off-specification, aged or surplus organics  
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access additional CA\_HAZNET: detail in the EDR Site Report.

2  
South  
< 1/8  
0.023 mi.  
122 ft.

**SEARS PACIFIC CENTRAL SERVICE**  
**12870 CULVER BLVD**  
**LOS ANGELES, CA 90066**

**CA SWEEPS UST 1000369122**  
**CA HIST UST N/A**  
**CA FID UST**

**Relative:**  
**Higher**

SWEEPS UST:  
Status: Not reported  
Comp Number: 751  
Number: Not reported  
Board Of Equalization: 44-011384  
Referral Date: Not reported  
Action Date: Not reported

**Actual:**  
**17 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SEARS PACIFIC CENTRAL SERVICE (Continued)**

**1000369122**

Created Date: Not reported  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-050-000751-000001  
Tank Status: Not reported  
Capacity: 8000  
Active Date: Not reported  
Tank Use: M.V. FUEL  
STG: PRODUCT  
Content: REG UNLEADED  
Number Of Tanks: 1

**HIST UST:**

File Number: 00028284  
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028284.pdf>  
Region: STATE  
Facility ID: 00000006542  
Facility Type: Other  
Other Type: SERVICE  
Contact Name: RON CURTIS  
Telephone: 2138210531  
Owner Name: SEARS, ROEBUCK AND COMPANY  
Owner Address: 900 SOUTH FREMONT AVENUE  
Owner City,St,Zip: ALHAMBRA, CA 91802  
Total Tanks: 0003

Tank Num: 001  
Container Num: 1  
Year Installed: Not reported  
Tank Capacity: 00008000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 002  
Container Num: 2  
Year Installed: Not reported  
Tank Capacity: 00000000  
Tank Used for: WASTE  
Type of Fuel: 06  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 003  
Container Num: 3  
Year Installed: Not reported  
Tank Capacity: 00000000  
Tank Used for: WASTE  
Type of Fuel: 06  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Click here for Geo Tracker PDF:

CA FID UST:  
Facility ID: 19019428

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SEARS PACIFIC CENTRAL SERVICE (Continued)**

**1000369122**

Regulated By: UTNKA  
 Regulated ID: 00006542  
 Cortese Code: Not reported  
 SIC Code: Not reported  
 Facility Phone: 2138210531  
 Mail To: Not reported  
 Mailing Address: 900 S FREMONT AVE  
 Mailing Address 2: Not reported  
 Mailing City,St,Zip: LOS ANGELES 900660000  
 Contact: Not reported  
 Contact Phone: Not reported  
 DUNS Number: Not reported  
 NPDES Number: Not reported  
 EPA ID: Not reported  
 Comments: Not reported  
 Status: Active

**3**  
**WSW**  
**< 1/8**  
**0.040 mi.**  
**210 ft.**

**THE PANAMA SITE**  
**12922 PANAMA STREET**  
**LOS ANGELES, CA 90066**

**CA SLIC S113482459**  
**CA CHMIRS N/A**  
**CA NPDES**

**Relative:**  
**Higher**

SLIC:

Region: STATE  
**Facility Status: Open - Site Assessment**  
 Status Date: 06/05/2015  
 Global Id: T10000004824  
 Lead Agency: LOS ANGELES RWQCB (REGION 4)  
 Lead Agency Case Number: Not reported  
 Latitude: 33.983274  
 Longitude: -118.428277  
 Case Type: Cleanup Program Site  
 Case Worker: JB  
 Local Agency: Not reported  
 RB Case Number: 1292  
 File Location: Regional Board  
 Potential Media Affected: Aquifer used for drinking water supply, Other Groundwater (uses other than drinking water), Soil, Soil Vapor, Under Investigation  
 Potential Contaminants of Concern: 1,4-Dioxane, Other Chlorinated Hydrocarbons, Tetrachloroethylene (PCE), Trichloroethylene (TCE), Vinyl chloride, Arsenic, Chromium, Nickel, Other Metal  
 Site History: The Panama site property was used for electronics and aerospace manufacturing from the 1960's until late 2013. Chlorinated solvents and Title 22 metals that were used for or are associated with these manufacturing activities have affected subsurface media at the site. Planning for removal of contaminated soil at the site is underway. Assessment of the extent of contaminated groundwater associated with the site is also underway.

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

CHMIRS:

OES Incident Number: 13-2771  
 OES notification: 05/08/2013  
 OES Date: Not reported  
 OES Time: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**THE PANAMA SITE (Continued)**

**S113482459**

<b>Date Completed:</b>	<b>Not reported</b>
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 Agency 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:	Yes
Waterway:	ground water
Spill Site:	Industrial Plant
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Liters(s)
Other:	Not reported
Date/Time:	1500
Year:	2013
Agency:	Teledyne MicroElectronic Technologies
Incident Date:	5/8/2013
Admin Agency:	Los Angeles City Fire Department
Amount:	Not reported
Contained:	Unknown
Site Type:	ground water
E Date:	Not reported
Substance:	Trichloroethylene
Quantity Released:	121
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

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**THE PANAMA SITE (Continued)**

**S113482459**

Evacs: Not reported  
Injuries: Not reported  
Fatals: Not reported  
Comments: Not reported  
Description: The 4th and last substance is: 1, 2 dichlorobenzene at 203 micrograms per liter in ground water. Teledyne is closing down this site and did ground water sampling and discovered the chemicals on their property. Teledyne continues to evaluate the sampling.

**NPDES:**

Npdes Number: CAS000002  
Facility Status: Active  
Agency Id: 0  
Region: 4  
Regulatory Measure Id: 441993  
Order No: 2009-0009-DWQ  
Regulatory Measure Type: Enrollee  
Place Id: Not reported  
WDID: 4 19C368051  
Program Type: Construction  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: 10/23/2013  
Expiration Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Discharge Name: Teledyne Technologies Incorporated  
Discharge Address: 1049 Camino Dos Rios  
Discharge City: Thousand Oaks  
Discharge State: California  
Discharge Zip: 91360  
RECEIVED DATE: Not reported  
PROCESSED DATE: Not reported  
STATUS CODE NAME: Not reported  
STATUS DATE: Not reported  
PLACE SIZE: Not reported  
PLACE SIZE UNIT: Not reported  
FACILITY CONTACT NAME: Not reported  
FACILITY CONTACT TITLE: Not reported  
FACILITY CONTACT PHONE: Not reported  
FACILITY CONTACT PHONE EXT: Not reported  
FACILITY CONTACT EMAIL: Not reported  
OPERATOR NAME: Not reported  
OPERATOR ADDRESS: Not reported  
OPERATOR CITY: Not reported  
OPERATOR STATE: Not reported  
OPERATOR ZIP: Not reported  
OPERATOR CONTACT NAME: Not reported  
OPERATOR CONTACT TITLE: Not reported  
OPERATOR CONTACT PHONE: Not reported  
OPERATOR CONTACT PHONE EXT: Not reported  
OPERATOR CONTACT EMAIL: Not reported  
OPERATOR TYPE: Not reported  
DEVELOPER NAME: Not reported  
DEVELOPER ADDRESS: Not reported  
DEVELOPER CITY: Not reported  
DEVELOPER STATE: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**THE PANAMA SITE (Continued)**

**S113482459**

DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	441993
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	4 19C368051
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	10/18/2013
PROCESSED DATE:	10/23/2013
STATUS CODE NAME:	Active
STATUS DATE:	10/23/2013
PLACE SIZE:	5.73
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Melanie Cibik

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**THE PANAMA SITE (Continued)**

**S113482459**

FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	805-373-4605
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	mcibik@teledyne.com
OPERATOR NAME:	Teledyne Technologies Incorporated
OPERATOR ADDRESS:	1049 Camino Dos Rios
OPERATOR CITY:	Thousand Oaks
OPERATOR STATE:	California
OPERATOR ZIP:	91360
OPERATOR CONTACT NAME:	Melanie Cibik
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	805-373-4605
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	mcibik@teledyne.com
OPERATOR TYPE:	Other
DEVELOPER NAME:	Teledyne Technologies Incorporated
DEVELOPER ADDRESS:	1049 Camino Dos Rios
DEVELOPER CITY:	Thousand Oaks
DEVELOPER STATE:	California
DEVELOPER ZIP:	91360
DEVELOPER CONTACT NAME:	Melanie Cibik
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	N
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	N
CONSTYPE BELOW GROUND IND:	N
CONSTYPE CABLE LINE IND:	N
CONSTYPE COMM LINE IND:	N
CONSTYPE COMMERTIAL IND:	N
CONSTYPE ELECTRICAL LINE IND:	N
CONSTYPE GAS LINE IND:	N
CONSTYPE INDUSTRIAL IND:	Y
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	N
CONSTYPE RECONS IND:	N
CONSTYPE RESIDENTIAL IND:	N
CONSTYPE TRANSPORT IND:	N
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	N
CONSTYPE WATER SEWER IND:	N
DIR DISCHARGE USWATER IND:	N
RECEIVING WATER NAME:	Ballona Creek
CERTIFIER NAME:	Melanie Cibik
CERTIFIER TITLE:	Senior Vice President General Counsel and Secretary
CERTIFICATION DATE:	18-OCT-13
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**A4**  
**NE**  
**< 1/8**  
**0.052 mi.**  
**274 ft.**

**12817 PANAMA ST**  
**LOS ANGELES, CA 90066**

**Site 1 of 3 in cluster A**

**EDR Hist Auto 1015198037**  
**N/A**

**Relative:**  
**Higher**

EDR Historical Auto Stations:

Name: TOMEI MOTORS  
Year: 2001  
Address: 12817 PANAMA ST

**Actual:**  
**18 ft.**

**5**  
**ESE**  
**< 1/8**  
**0.093 mi.**  
**491 ft.**

**KRUPP TAYLOR USA**  
**12800 CULVER BLVD**  
**LOS ANGELES, CA 90066**

**RCRA-SQG 1000349392**  
**FINDS CAD981985716**  
**CA HAZNET**  
**ECHO**

**Relative:**  
**Higher**

RCRA-SQG:

Date form received by agency: 03/25/1987  
Facility name: KRUPP TAYLOR USA  
Facility address: 12800 CULVER BLVD  
LOS ANGELES, CA 90066  
EPA ID: CAD981985716  
Contact: ENVIRONMENTAL MANAGER  
Contact address: 12800 CULVER BLVD  
LOS ANGELES, CA 90066  
Contact country: US  
Contact telephone: (213) 306-3646  
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

**Actual:**  
**18 ft.**

Owner/Operator Summary:

Owner/operator name: MEASURED MARKETING SV  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
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  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KRUPP TAYLOR USA (Continued)**

**1000349392**

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: 110002765428

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.

HAZNET:

envid: 1000349392  
Year: 1994  
GEPID: CAD981985716  
Contact: Not reported  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 12800 CULVER BLVD  
Mailing City,St,Zip: LOS ANGELES, CA 900660000  
Gen County: Not reported  
TSD EPA ID: CAD008252405  
TSD County: Not reported  
Waste Category: Aqueous solution (2 < pH < 12.5) containing reactive anions ...  
Disposal Method: Recycler  
Tons: .2085  
Cat Decode: Aqueous solution (2 < pH < 12.5) containing reactive anions ...  
Method Decode: Recycler  
Facility County: Los Angeles

envid: 1000349392  
Year: 1994  
GEPID: CAD981985716  
Contact: Not reported  
Telephone: 0000000000  
Mailing Name: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KRUPP TAYLOR USA (Continued)**

**1000349392**

Mailing Address: 12800 CULVER BLVD  
Mailing City,St,Zip: LOS ANGELES, CA 900660000  
Gen County: Not reported  
TSD EPA ID: CAD008252405  
TSD County: Not reported  
Waste Category: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)  
Disposal Method: Recycler  
Tons: .2085  
Cat Decode: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)  
Method Decode: Recycler  
Facility County: Los Angeles

envid: 1000349392  
Year: 1994  
GEPaid: CAD981985716  
Contact: Not reported  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 12800 CULVER BLVD  
Mailing City,St,Zip: LOS ANGELES, CA 900660000  
Gen County: Not reported  
TSD EPA ID: CAD008252405  
TSD County: Not reported  
Waste Category: Other organic solids  
Disposal Method: Treatment, Incineration  
Tons: .1750  
Cat Decode: Other organic solids  
Method Decode: Treatment, Incineration  
Facility County: Los Angeles

envid: 1000349392  
Year: 1994  
GEPaid: CAD981985716  
Contact: Not reported  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 12800 CULVER BLVD  
Mailing City,St,Zip: LOS ANGELES, CA 900660000  
Gen County: Not reported  
TSD EPA ID: UTD991301748  
TSD County: Not reported  
Waste Category: Empty containers less than 30 gallons  
Disposal Method: Disposal, Land Fill  
Tons: 1.1500  
Cat Decode: Empty containers less than 30 gallons  
Method Decode: Disposal, Land Fill  
Facility County: Los Angeles

envid: 1000349392  
Year: 1994  
GEPaid: CAD981985716  
Contact: Not reported  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 12800 CULVER BLVD  
Mailing City,St,Zip: LOS ANGELES, CA 900660000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KRUPP TAYLOR USA (Continued)**

**1000349392**

Gen County: Not reported  
TSD EPA ID: CAD008252405  
TSD County: Not reported  
Waste Category: Unspecified organic liquid mixture  
Disposal Method: Recycler  
Tons: .2085  
Cat Decode: Unspecified organic liquid mixture  
Method Decode: Recycler  
Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access  
3 additional CA\_HAZNET: record(s) in the EDR Site Report.

ECHO:

Envid: 1000349392  
Registry ID: 110002765428  
DFR URL: [http://echo.epa.gov/detailed\\_facility\\_report?fid=110002765428](http://echo.epa.gov/detailed_facility_report?fid=110002765428)

6

**ENE**  
**< 1/8**  
**0.096 mi.**  
**508 ft.**

**4810 MCCONNELL AVE**  
**LOS ANGELES, CA 90066**

**EDR Hist Auto 1015514642**  
**N/A**

**Relative:**  
**Higher**

EDR Historical Auto Stations:

Name: WM AUTO SERVICE  
Year: 2003  
Address: 4810 MCCONNELL AVE

Name: WM AUTO SERVICE  
Year: 2004  
Address: 4810 MCCONNELL AVE

Name: W M AUTO SVC  
Year: 2010  
Address: 4810 MCCONNELL AVE

Name: W M AUTO SERVICE  
Year: 2011  
Address: 4810 MCCONNELL AVE

Name: W M AUTO SERVICE  
Year: 2012  
Address: 4810 MCCONNELL AVE

**B7**  
**WSW**  
**< 1/8**  
**0.096 mi.**  
**509 ft.**

**TELEDYNE LIGHTING AND DISPLAY**  
**12964 PANAMA STREET**  
**LOS ANGELES, CA 90066**

**PA MANIFEST S111430025**  
**N/A**

**Site 1 of 4 in cluster B**

**Relative:**  
**Higher**

Manifest Details:

Year: 2011  
Manifest Number: 004382398FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350

**Actual:**  
**17 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE LIGHTING AND DISPLAY (Continued)**

**S111430025**

Generator Date: 06/21/2011  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: PAR000521294  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 550 BORDENTOWN RD  
TSD Facility City: FAIRLESS HILLS  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D006  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 25  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2011  
Manifest Number: 004382398FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350  
Generator Date: 06/21/2011  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: PAR000521294  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 550 BORDENTOWN RD  
TSD Facility City: FAIRLESS HILLS  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D008  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 25  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2011  
Manifest Number: 004382398FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350  
Generator Date: 06/21/2011  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE LIGHTING AND DISPLAY (Continued)**

**S111430025**

Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: PAR000521294  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 550 BORDENTOWN RD  
TSD Facility City: FAIRLESS HILLS  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: F003  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 25  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2011  
Manifest Number: 004382398FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350  
Generator Date: 06/21/2011  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: PAR000521294  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 550 BORDENTOWN RD  
TSD Facility City: FAIRLESS HILLS  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D011  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 25  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2010  
Manifest Number: 004580209JJK  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350  
Generator Date: 02/08/2010  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: NULL  
TSD EPA Id: PAD002365849

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE LIGHTING AND DISPLAY (Continued)**

**S111430025**

TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 4924 WELLINGTON STREET  
TSD Facility City: PHILADELPHIA  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D006  
Container Number: 2  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 160  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2010  
Manifest Number: 002788468FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350  
Generator Date: 08/13/2010  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: NULL  
TSD EPA Id: PAD002365849  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 4924 WELLINGTON STREET  
TSD Facility City: PHILADELPHIA  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: F003  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 60  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2010  
Manifest Number: 004580209JJK  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350  
Generator Date: 02/08/2010  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: NULL  
TSD EPA Id: PAD002365849  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 4924 WELLINGTON STREET



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE LIGHTING AND DISPLAY (Continued)**

**S111430025**

TSD Facility City: PHILADELPHIA  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D008  
Container Number: 2  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 160  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2010  
Manifest Number: 002788434FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350  
Generator Date: 05/07/2010  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: NULL  
TSD EPA Id: PAD002365849  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 4924 WELLINGTON STREET  
TSD Facility City: PHILADELPHIA  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D006  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 80  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2010  
Manifest Number: 002788434FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350  
Generator Date: 05/07/2010  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: NULL  
TSD EPA Id: PAD002365849  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 4924 WELLINGTON STREET  
TSD Facility City: PHILADELPHIA  
TSD Facility State: PA  
Facility Telephone: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE LIGHTING AND DISPLAY (Continued)**

**S111430025**

Page Number: 1  
Line Number: 1  
Waste Number: D011  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 80  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2010  
Manifest Number: 002788448FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350  
Generator Date: 06/30/2010  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: NULL  
TSD EPA Id: PAD002365849  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 4924 WELLINGTON STREET  
TSD Facility City: PHILADELPHIA  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D008  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 100  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2010  
Manifest Number: 002788434FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350  
Generator Date: 05/07/2010  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: NULL  
TSD EPA Id: PAD002365849  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 4924 WELLINGTON STREET  
TSD Facility City: PHILADELPHIA  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: F003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE LIGHTING AND DISPLAY (Continued)**

**S111430025**

Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 80  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2010  
Manifest Number: 004580209JJK  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350  
Generator Date: 02/08/2010  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: NULL  
TSD EPA Id: PAD002365849  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 4924 WELLINGTON STREET  
TSD Facility City: PHILADELPHIA  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: F003  
Container Number: 2  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 160  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2010  
Manifest Number: 002788494FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350  
Generator Date: 11/15/2010  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: NULL  
TSD EPA Id: PAD002365849  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 4924 WELLINGTON STREET  
TSD Facility City: PHILADELPHIA  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D008  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 100

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE LIGHTING AND DISPLAY (Continued)**

**S111430025**

Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2010
Manifest Number:	004580209JJK
Manifest Type:	TSD Copy
Generator EPA Id:	CAL000271350
Generator Date:	02/08/2010
Mailing Address:	Not reported
Mailing City, St, Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	NULL
TSD EPA Id:	PAD002365849
TSD Date:	Not reported
TSD Facility Name:	ABINGTON RELDAN METALS LLC
TSD Facility Address:	4924 WELLINGTON STREET
TSD Facility City:	PHILADELPHIA
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D011
Container Number:	2
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	160
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2010
Manifest Number:	002788468FLE
Manifest Type:	TSD Copy
Generator EPA Id:	CAL000271350
Generator Date:	08/13/2010
Mailing Address:	Not reported
Mailing City, St, Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	NULL
TSD EPA Id:	PAD002365849
TSD Date:	Not reported
TSD Facility Name:	ABINGTON RELDAN METALS LLC
TSD Facility Address:	4924 WELLINGTON STREET
TSD Facility City:	PHILADELPHIA
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D006
Container Number:	1
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	60
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE LIGHTING AND DISPLAY (Continued)**

**S111430025**

Date TSP Sig: Not reported  
Year: 2010  
Manifest Number: 002788494FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350  
Generator Date: 11/15/2010  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: NULL  
TSD EPA Id: PAD002365849  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 4924 WELLINGTON STREET  
TSD Facility City: PHILADELPHIA  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: F003  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 100  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2010  
Manifest Number: 002788494FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350  
Generator Date: 11/15/2010  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: NULL  
TSD EPA Id: PAD002365849  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 4924 WELLINGTON STREET  
TSD Facility City: PHILADELPHIA  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D011  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 100  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2010



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE LIGHTING AND DISPLAY (Continued)**

**S111430025**

Manifest Number: 002788434FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350  
Generator Date: 05/07/2010  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: NULL  
TSD EPA Id: PAD002365849  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 4924 WELLINGTON STREET  
TSD Facility City: PHILADELPHIA  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D008  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 80  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2010  
Manifest Number: 002788448FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350  
Generator Date: 06/30/2010  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: NULL  
TSD EPA Id: PAD002365849  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 4924 WELLINGTON STREET  
TSD Facility City: PHILADELPHIA  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D006  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 100  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2010  
Manifest Number: 002788448FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAL000271350

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE LIGHTING AND DISPLAY (Continued)**

**S111430025**

Generator Date: 06/30/2010  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: NULL  
TSD EPA Id: PAD002365849  
TSD Date: Not reported  
TSD Facility Name: ABINGTON RELDAN METALS LLC  
TSD Facility Address: 4924 WELLINGTON STREET  
TSD Facility City: PHILADELPHIA  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D011  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 100  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

[Click this hyperlink](#) while viewing on your computer to access  
8 additional PA\_MANIFEST: record(s) in the EDR Site Report.

**B8**  
**WSW**  
**< 1/8**  
**0.096 mi.**  
**509 ft.**

**TELEDYNE MICROELECTRONICS**  
**12964 PANAMA ST**  
**LOS ANGELES, CA 90066**

**CA UST 1008190629**  
**HIST FTTS N/A**

**Site 2 of 4 in cluster B**

**Relative:**  
**Higher**

UST:  
Facility ID: 23622  
Permitting Agency: LOS ANGELES, CITY OF  
Latitude: 33.9843914  
Longitude: -118.4278604

**Actual:**  
**17 ft.**

HIST FTTS INSP:  
Inspection Number: 19880719CA010 3  
Region: 09  
Inspection Date: Not reported  
Inspector: WILLIAMS  
Violation occurred: No  
Investigation Type: Section 6 PCB State Conducted  
Investigation Reason: Neutral Scheme, State  
Legislation Code: TSCA  
Facility Function: User

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**B9**  
**WSW**  
 < 1/8  
 0.096 mi.  
 509 ft.

**TELEDYNE MICROELECTRONIC TECHNOLOGIES**  
 12964 PANAMA STREET  
 LOS ANGELES, CA 90066

**RCRA-LQG** 1007198770  
**ICIS** CAD009587700  
**CA HAZNET**

**Site 3 of 4 in cluster B**

**Relative:**  
**Higher**

RCRA-LQG:

Date form received by agency: 02/01/2010

Facility name: TELEDYNE MICROELECTRONIC TECHNOLOGIES

Facility address: 12964 PANAMA STREET  
 LOS ANGELES, CA 90066

EPA ID: CAD009587700

Mailing address: PANAMA STREET  
 LOS ANGELES, CA 90066

Contact: MICHAEL R SHEARER

Contact address: PANAMA STREET  
 LOS ANGELES, CA 90066

Contact country: US

Contact telephone: (310) 577-3856

Contact email: MSHEARER@TELEDYNE.COM

EPA Region: 09

Land type: Private

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: TELEDYNE TECHNOLOGIES INC  
 Owner/operator address: 2049 CENTURY PARK E NO 1500  
 LOS ANGELES, CA 90067

Owner/operator country: Not reported  
 Owner/operator telephone: (310) 551-4344

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: Not reported

Owner/Op end date: Not reported

Owner/operator name: TELEDYNE TECHNOLOGIES, INCORPORATED  
 Owner/operator address: CENTURY PARK EAST  
 LOS ANGELES, CA 90066

Owner/operator country: US  
 Owner/operator telephone: (310) 550-1144

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 01/10/1958

Owner/Op end date: Not reported

Owner/operator name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
 Owner/operator address: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 01/01/1961  
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  
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

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D002  
. Waste name: CORROSIVE WASTE

. Waste code: D003  
. Waste name: REACTIVE WASTE

. Waste code: D005  
. Waste name: BARIUM

. Waste code: D006  
. Waste name: CADMIUM

. Waste code: D008  
. Waste name: LEAD

. Waste code: D011  
. Waste name: SILVER

. Waste code: F003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F008
- . Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.
  
- . Waste code: F009
- . Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Historical Generators:

Date form received by agency: 02/02/2008  
Site name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D003
- . Waste name: REACTIVE WASTE
  
- . Waste code: D006
- . Waste name: CADMIUM
  
- . Waste code: D007
- . Waste name: CHROMIUM
  
- . Waste code: D008
- . Waste name: LEAD
  
- . Waste code: D011
- . Waste name: SILVER
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

- . Waste code: F009
- . Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Date form received by agency: 02/07/2006

Site name: TELEDYNE MICROELECTRONIC TECHNOLOGIES

Classification: Large Quantity Generator

- . Waste code: 121
- . Waste name: 121

- . Waste code: 122
- . Waste name: 122

- . Waste code: 132
- . Waste name: 132

- . Waste code: 135
- . Waste name: 135

- . Waste code: 181
- . Waste name: 181

- . Waste code: 214
- . Waste name: 214

- . Waste code: 221
- . Waste name: 221

- . Waste code: 223
- . Waste name: 223

- . Waste code: 331
- . Waste name: 331

- . Waste code: 352
- . Waste name: 352

- . Waste code: 551
- . Waste name: 551

- . Waste code: 711
- . Waste name: 711

- . Waste code: 726
- . Waste name: 726

- . Waste code: 731
- . Waste name: 731

- . Waste code: D001
- . Waste name: IGNITABLE WASTE

- . Waste code: D002
- . Waste name: CORROSIVE WASTE

- . Waste code: D003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

- . Waste name: REACTIVE 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: D011
- . Waste name: SILVER
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
- . Waste code: F009
- . Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Date form received by agency: 02/04/2004

Site name: TELEDYNE MICROELECTRONIC TECHNOLOGIES

Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE WASTE
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
- . Waste code: D003
- . Waste name: REACTIVE 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

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

- . Waste code: D009
- . Waste name: MERCURY
  
- . Waste code: D010
- . Waste name: SELENIUM
  
- . Waste code: D011
- . Waste name: SILVER
  
- . Waste code: F002
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F008
- . Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Date form received by agency: 11/25/2002

Site name: TELEDYNE MICROELECTRONIC TECHNOLOGIES

Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D003
- . Waste name: REACTIVE WASTE
  
- . 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: F002
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)

1007198770

METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F008  
. Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F009  
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Date form received by agency: 02/01/2002

Site name: TELEDYNE ELECTRONIC TECHNOLOGY  
Classification: Large Quantity Generator

. Waste code: 121  
. Waste name: 121

. Waste code: 122  
. Waste name: 122

. Waste code: 132  
. Waste name: 132

. Waste code: 135  
. Waste name: 135

. Waste code: 151  
. Waste name: 151

. Waste code: 181  
. Waste name: 181

. Waste code: 211  
. Waste name: 211

. Waste code: 214  
. Waste name: 214

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

- . Waste code: 223
- . Waste name: 223
  
- . Waste code: 291
- . Waste name: 291
  
- . Waste code: 352
- . Waste name: 352
  
- . Waste code: 491
- . Waste name: 491
  
- . Waste code: 551
- . Waste name: 551
  
- . Waste code: 711
- . Waste name: 711
  
- . Waste code: 726
- . Waste name: 726
  
- . Waste code: 792
- . Waste name: 792
  
- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D003
- . Waste name: REACTIVE WASTE
  
- . 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: F002
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F008  
. Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F009  
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Date form received by agency: 10/12/2000

Site name: TELEDYNE ELECTRONIC TECH  
Classification: Large Quantity Generator

Date form received by agency: 08/21/2000

Site name: TELEDYNE ELECTRONIC TECHNOLOGIES  
Classification: Large Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D002  
. Waste name: CORROSIVE WASTE

. Waste code: D003  
. Waste name: REACTIVE WASTE

. Waste code: D006  
. Waste name: CADMIUM

. Waste code: D008  
. Waste name: LEAD

. Waste code: D010  
. Waste name: SELENIUM

. Waste code: D022  
. Waste name: CHLOROFORM

. Waste code: F002  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F008
- . Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.
  
- . Waste code: F009
- . Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Date form received by agency: 04/15/1999  
Site name: TELEDYNE ELECTRONIC TECH.  
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996  
Site name: TELEDYNE ELECTRONIC TECHNOLOGIES  
Classification: Large Quantity Generator

Date form received by agency: 02/15/1996  
Site name: TELEDYNE ELECTRONIC TECHNOLOGIES  
Classification: Large Quantity Generator

Date form received by agency: 03/16/1994  
Site name: TELEDYNE ELECTRONIC TECHNOLOGIES  
Classification: Large Quantity Generator

Date form received by agency: 03/02/1992  
Site name: TELEDYNE MICROELECTRONICS  
Classification: Large Quantity Generator

Date form received by agency: 04/09/1990  
Site name: TELEDYNE MICROELECTRONICS  
Classification: Large Quantity Generator

Violation Status: No violations found

**Evaluation Action Summary:**

Evaluation date: 10/06/2010  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 01/18/2007  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

**ICIS:**

Enforcement Action ID: 09-2010-3010

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

FRS ID: 110000782270  
Program ID: BR CAD009587700  
Action Name: VD TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534  
Enforcement Action Type: EPCRA 325 Action For Penalty  
Facility County: LOS ANGELES  
EPA Region #: 9

Enforcement Action ID: 09-2010-3010  
FRS ID: 110000782270  
Program ID: EIS 439811  
Action Name: VD TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534  
Enforcement Action Type: EPCRA 325 Action For Penalty  
Facility County: LOS ANGELES  
EPA Region #: 9

Enforcement Action ID: 09-2010-3010  
FRS ID: 110000782270  
Program ID: TRIS 90066TLDYN12964  
Action Name: VD TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534  
Enforcement Action Type: EPCRA 325 Action For Penalty  
Facility County: LOS ANGELES  
EPA Region #: 9

Enforcement Action ID: 09-2010-3010  
FRS ID: 110000782270  
Program ID: RCRAINFO CAD009587700  
Action Name: VD TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534  
Enforcement Action Type: EPCRA 325 Action For Penalty  
Facility County: LOS ANGELES  
EPA Region #: 9

Enforcement Action ID: 09-2010-3010  
FRS ID: 110000782270  
Program ID: NEI NEI21385  
Action Name: VD TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534  
Enforcement Action Type: EPCRA 325 Action For Penalty  
Facility County: LOS ANGELES  
EPA Region #: 9  
  
Enforcement Action ID: 09-2010-3010  
FRS ID: 110000782270  
Program ID: NEI NEI21383  
Action Name: VD TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534  
Enforcement Action Type: EPCRA 325 Action For Penalty  
Facility County: LOS ANGELES  
EPA Region #: 9  
  
Enforcement Action ID: 09-2010-3010  
FRS ID: 110000782270  
Program ID: NCDB I09#19880719CA010 3  
Action Name: VD TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534  
Enforcement Action Type: EPCRA 325 Action For Penalty  
Facility County: LOS ANGELES  
EPA Region #: 9  
  
Enforcement Action ID: 09-2010-3010  
FRS ID: 110000782270  
Program ID: HWTS-DATAMART CAD009587700  
Action Name: VD TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534  
Enforcement Action Type: EPCRA 325 Action For Penalty  
Facility County: LOS ANGELES  
EPA Region #: 9  
  
Enforcement Action ID: 09-2010-3010  
FRS ID: 110000782270  
Program ID: FRS 110000782270  
Action Name: VD TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534  
Enforcement Action Type: EPCRA 325 Action For Penalty  
Facility County: LOS ANGELES

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

EPA Region #: 9

Enforcement Action ID: 09-1990-0025  
FRS ID: 110000782270  
Program ID: BR CAD009587700  
Action Name: TELEDYNE INDUSTRIES, INC.  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534

Enforcement Action Type: Civil Judicial Action  
Facility County: LOS ANGELES  
EPA Region #: 9

Enforcement Action ID: 09-1990-0025  
FRS ID: 110000782270  
Program ID: RCRAINFO CAD009587700  
Action Name: TELEDYNE INDUSTRIES, INC.  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534

Enforcement Action Type: Civil Judicial Action  
Facility County: LOS ANGELES  
EPA Region #: 9

Enforcement Action ID: 09-1990-0025  
FRS ID: 110000782270  
Program ID: NEI NEI21385  
Action Name: TELEDYNE INDUSTRIES, INC.  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534

Enforcement Action Type: Civil Judicial Action  
Facility County: LOS ANGELES  
EPA Region #: 9

Enforcement Action ID: 09-1990-0025  
FRS ID: 110000782270  
Program ID: NEI NEI21383  
Action Name: TELEDYNE INDUSTRIES, INC.  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534

Enforcement Action Type: Civil Judicial Action  
Facility County: LOS ANGELES  
EPA Region #: 9

Enforcement Action ID: 09-1990-0025  
FRS ID: 110000782270  
Program ID: TRIS 90066TLDYN12964



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

Action Name: TELEDYNE INDUSTRIES, INC.  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534  
Enforcement Action Type: Civil Judicial Action  
Facility County: LOS ANGELES  
EPA Region #: 9

Enforcement Action ID: 09-1990-0025  
FRS ID: 110000782270  
Program ID: HWTS-DATAMART CAD009587700  
Action Name: TELEDYNE INDUSTRIES, INC.  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534  
Enforcement Action Type: Civil Judicial Action  
Facility County: LOS ANGELES  
EPA Region #: 9

Enforcement Action ID: 09-1990-0025  
FRS ID: 110000782270  
Program ID: FRS 110000782270  
Action Name: TELEDYNE INDUSTRIES, INC.  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534  
Enforcement Action Type: Civil Judicial Action  
Facility County: LOS ANGELES  
EPA Region #: 9

Enforcement Action ID: 09-1990-0025  
FRS ID: 110000782270  
Program ID: EIS 439811  
Action Name: TELEDYNE INDUSTRIES, INC.  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET  
LOS ANGELES, CA 90066-6534  
Enforcement Action Type: Civil Judicial Action  
Facility County: LOS ANGELES  
EPA Region #: 9

Enforcement Action ID: 09-1990-0025  
FRS ID: 110000782270  
Program ID: NCDB I09#19880719CA010 3  
Action Name: TELEDYNE INDUSTRIES, INC.  
Full Address: 12964 PANAMA STREET LOS ANGELES CA 90066-6534  
State: California  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Facility Address: 12964 PANAMA STREET

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

LOS ANGELES, CA 90066-6534  
Enforcement Action Type: Civil Judicial Action  
Facility County: LOS ANGELES  
EPA Region #: 9

Program ID: BR CAD009587700  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Address: 12964 PANAMA STREET  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: 3674

Program ID: EIS 439811  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Address: 12964 PANAMA STREET  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: 3674

Program ID: FRS 110000782270  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Address: 12964 PANAMA STREET  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: 3674

Program ID: HWTS-DATAMART CAD009587700  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Address: 12964 PANAMA STREET  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: 3674

Program ID: NCDB I09#19880719CA010 3  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Address: 12964 PANAMA STREET  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: 3674

Program ID: NEI NEI21383  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Address: 12964 PANAMA STREET  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: 3674

Program ID: NEI NEI21385  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Address: 12964 PANAMA STREET

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	3674
Program ID:	RCRAINFO CAD009587700
Facility Name:	TELEDYNE MICROELECTRONIC TECHNOLOGIES
Address:	12964 PANAMA STREET
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	3674
Program ID:	TRIS 90066TLDYN12964
Facility Name:	TELEDYNE MICROELECTRONIC TECHNOLOGIES
Address:	12964 PANAMA STREET
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	3674
Program ID:	BR CAD009587700
Facility Name:	TELEDYNE MICROELECTRONIC TECHNOLOGIES
Address:	12964 PANAMA STREET
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	3674
Program ID:	EIS 439811
Facility Name:	TELEDYNE MICROELECTRONIC TECHNOLOGIES
Address:	12964 PANAMA STREET
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	3674
Program ID:	FRS 110000782270
Facility Name:	TELEDYNE MICROELECTRONIC TECHNOLOGIES
Address:	12964 PANAMA STREET
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	3674
Program ID:	HWTS-DATAMART CAD009587700
Facility Name:	TELEDYNE MICROELECTRONIC TECHNOLOGIES
Address:	12964 PANAMA STREET
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	3674
Program ID:	NCDB I09#19880719CA010 3
Facility Name:	TELEDYNE MICROELECTRONIC TECHNOLOGIES
Address:	12964 PANAMA STREET
Tribal Indicator:	N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

Fed Facility: No  
NAIC Code: Not reported  
SIC Code: 3674

Program ID: NEI NEI21383  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Address: 12964 PANAMA STREET  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: 3674

Program ID: NEI NEI21385  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Address: 12964 PANAMA STREET  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: 3674

Program ID: RCRAINFO CAD009587700  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Address: 12964 PANAMA STREET  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: 3674

Program ID: TRIS 90066TLDYN12964  
Facility Name: TELEDYNE MICROELECTRONIC TECHNOLOGIES  
Address: 12964 PANAMA STREET  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: 3674

HAZNET:  
envid: 1007198770  
Year: 2013  
GEPaid: CAD009587700  
Contact: MICHAEL R. SHEARER, DIR - EH&S  
Telephone: 3105773856  
Mailing Name: Not reported  
Mailing Address: 12870 PANAMA STREET  
Mailing City,St,Zip: LOS ANGELES, CA 900660000  
Gen County: Los Angeles  
TSD EPA ID: PAR000521294  
TSD County: Not reported  
Waste Category: Not reported  
Disposal Method: Not reported  
Tons: 1.7361  
Cat Decode: Not reported  
Method Decode: Not reported  
Facility County: Not reported

envid: 1007198770  
Year: 2013

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

GEPaid: CAD009587700  
Contact: MICHAEL R. SHEARER, DIR - EH&S  
Telephone: 3105773856  
Mailing Name: Not reported  
Mailing Address: 12870 PANAMA STREET  
Mailing City,St,Zip: LOS ANGELES, CA 900660000  
Gen County: Los Angeles  
TSD EPA ID: CAD008302903  
TSD County: Los Angeles  
Waste Category: Not reported  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.027  
Cat Decode: Not reported  
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Facility County: Not reported

envid: 1007198770  
Year: 2013  
GEPaid: CAD009587700  
Contact: MICHAEL R. SHEARER, DIR - EH&S  
Telephone: 3105773856  
Mailing Name: Not reported  
Mailing Address: 12870 PANAMA STREET  
Mailing City,St,Zip: LOS ANGELES, CA 900660000  
Gen County: Los Angeles  
TSD EPA ID: CAD982052797  
TSD County: Santa Clara  
Waste Category: Not reported  
Disposal Method: Metals Recovery Including Retoring,Smelting,Chemicals,Ect  
Tons: 0.0168  
Cat Decode: Not reported  
Method Decode: Metals Recovery Including Retoring,Smelting,Chemicals,Ect  
Facility County: Not reported

envid: 1007198770  
Year: 2013  
GEPaid: CAD009587700  
Contact: MICHAEL R. SHEARER, DIR - EH&S  
Telephone: 3105773856  
Mailing Name: Not reported  
Mailing Address: 12870 PANAMA STREET  
Mailing City,St,Zip: LOS ANGELES, CA 900660000  
Gen County: Los Angeles  
TSD EPA ID: CAD982052797  
TSD County: Santa Clara  
Waste Category: Not reported  
Disposal Method: Metals Recovery Including Retoring,Smelting,Chemicals,Ect  
Tons: 0.12093  
Cat Decode: Not reported  
Method Decode: Metals Recovery Including Retoring,Smelting,Chemicals,Ect  
Facility County: Not reported

envid: 1007198770  
Year: 2013  
GEPaid: CAD009587700

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**1007198770**

Contact: MICHAEL R. SHEARER, DIR - EH&S  
Telephone: 3105773856  
Mailing Name: Not reported  
Mailing Address: 12870 PANAMA STREET  
Mailing City,St,Zip: LOS ANGELES, CA 900660000  
Gen County: Los Angeles  
TSD EPA ID: CAD982052797  
TSD County: Santa Clara  
Waste Category: Not reported  
Disposal Method: Metals Recovery Including Retoring,Smelting,Chemicals,Ect  
Tons: 0.3  
Cat Decode: Not reported  
Method Decode: Metals Recovery Including Retoring,Smelting,Chemicals,Ect  
Facility County: Not reported

[Click this hyperlink](#) while viewing on your computer to access 818 additional CA\_HAZNET: record(s) in the EDR Site Report.

**B10  
WSW  
< 1/8  
0.096 mi.  
509 ft.**

**TELEDYNE MICROELECTRONIC TECHNOLOGIES  
12964 PANAMA STREET  
LOS ANGELES, CA 90066**

**PA MANIFEST S111430018  
N/A**

**Site 4 of 4 in cluster B**

**Relative:  
Higher**

Manifest Details:

Year: 2013  
Manifest Number: 006451158FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 04/18/2013  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D006  
Container Number: 8  
Container Type: Fiber or plastic boxes, cartons, cases  
Waste Quantity: 1600  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

**Actual:  
17 ft.**

Year: 2013  
Manifest Number: 006451190FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 07/19/2013  
Mailing Address: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**S111430018**

Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 2  
Waste Number: D005  
Container Number: 2  
Container Type: Fiber or plastic boxes, cartons, cases  
Waste Quantity: 500  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451129FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 01/29/2013  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 2  
Waste Number: D003  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 22  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451190FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 07/19/2013  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**S111430018**

TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D008  
Container Number: 3  
Container Type: Fiber or plastic boxes, cartons, cases  
Waste Quantity: 450  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451158FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 04/18/2013  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 2  
Waste Number: D008  
Container Number: 1  
Container Type: Fiberboard or plastic drums, barrels, kegs  
Waste Quantity: 30  
Unit: Gallons (liquids only)  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451158FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 04/18/2013  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**S111430018**

TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 2  
Waste Number: F009  
Container Number: 1  
Container Type: Fiberboard or plastic drums, barrels, kegs  
Waste Quantity: 30  
Unit: Gallons (liquids only)  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451129FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 01/29/2013  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D006  
Container Number: 4  
Container Type: Fiber or plastic boxes, cartons, cases  
Waste Quantity: 792  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451190FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 07/19/2013  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**S111430018**

Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D006  
Container Number: 3  
Container Type: Fiber or plastic boxes, cartons, cases  
Waste Quantity: 450  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451129FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 01/29/2013  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D008  
Container Number: 4  
Container Type: Fiber or plastic boxes, cartons, cases  
Waste Quantity: 792  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451129FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 01/29/2013  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**S111430018**

Waste Number: D011  
Container Number: 4  
Container Type: Fiber or plastic boxes, cartons, cases  
Waste Quantity: 792  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451129FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 01/29/2013  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported

Page Number: 1  
Line Number: 1  
Waste Number: F003  
Container Number: 4  
Container Type: Fiber or plastic boxes, cartons, cases  
Waste Quantity: 792  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451129FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 01/29/2013  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 2  
Waste Number: F008  
Container Number: 1  
Container Type: Metal drums, barrels, kegs

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**S111430018**

Waste Quantity: 22  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451190FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 07/19/2013  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: F003  
Container Number: 3  
Container Type: Fiber or plastic boxes, cartons, cases  
Waste Quantity: 450  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451190FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 07/19/2013  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 2  
Waste Number: F003  
Container Number: 2  
Container Type: Fiber or plastic boxes, cartons, cases  
Waste Quantity: 500  
Unit: Pounds  
Handling Code: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)

S111430018

TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451158FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 04/18/2013  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D011  
Container Number: 8  
Container Type: Fiber or plastic boxes, cartons, cases  
Waste Quantity: 1600  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451190FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 07/19/2013  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 3  
Waste Number: D005  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 100  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**S111430018**

Year: 2013  
Manifest Number: 006451158FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 04/18/2013  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: F003  
Container Number: 8  
Container Type: Fiber or plastic boxes, cartons, cases  
Waste Quantity: 1600  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451158FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 04/18/2013  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: D008  
Container Number: 8  
Container Type: Fiber or plastic boxes, cartons, cases  
Waste Quantity: 1600  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451190FLE  
Manifest Type: TSD Copy

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE MICROELECTRONIC TECHNOLOGIES (Continued)**

**S111430018**

Generator EPA Id: CAD009587700  
Generator Date: 07/19/2013  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 3  
Waste Number: F003  
Container Number: 1  
Container Type: Metal drums, barrels, kegs  
Waste Quantity: 100  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

Year: 2013  
Manifest Number: 006451158FLE  
Manifest Type: TSD Copy  
Generator EPA Id: CAD009587700  
Generator Date: 04/18/2013  
Mailing Address: Not reported  
Mailing City, St, Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: Not reported  
TSD Date: Not reported  
TSD Facility Name: Abington Reldan Metals LLC  
TSD Facility Address: 550 Old Bordentown Rd  
TSD Facility City: Fairless Hills  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 2  
Waste Number: D003  
Container Number: 1  
Container Type: Fiberboard or plastic drums, barrels, kegs  
Waste Quantity: 30  
Unit: Gallons (liquids only)  
Handling Code: Not reported  
TSP EPA Id: PAR000521294  
Date TSP Sig: Not reported

[Click this hyperlink](#) while viewing on your computer to access 129 additional PA\_MANIFEST: record(s) in the EDR Site Report.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

A11  
NE  
< 1/8  
0.098 mi.  
517 ft.

**MARINA WATER GARDENS**  
12781 CULVER BL  
LOS ANGELES, CA 90066

CA HIST UST U001562491  
N/A

Site 2 of 3 in cluster A

Relative:  
Higher

HIST UST:

Actual:  
19 ft.

File Number: 00027FE3  
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027FE3.pdf>  
Region: STATE  
Facility ID: 00000033891  
Facility Type: Other  
Other Type: WATER GARDENS/WATER  
Contact Name: ROBERT GOSLING  
Telephone: 2138273213  
Owner Name: ROBERT GOSLING  
Owner Address: 12781 CULVER BLVD  
Owner City,St,Zip: LOS ANGELES, CA 90066  
Total Tanks: 0008

Tank Num: 001  
Container Num: 1  
Year Installed: 1983  
Tank Capacity: 00000300  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Container Construction Thickness: 6  
Leak Detection: Visual

Tank Num: 002  
Container Num: 2  
Year Installed: 1983  
Tank Capacity: 00000600  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Container Construction Thickness: 6  
Leak Detection: Visual

Tank Num: 003  
Container Num: 3  
Year Installed: 1983  
Tank Capacity: 00000750  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Container Construction Thickness: 6  
Leak Detection: Visual

Tank Num: 004  
Container Num: 4  
Year Installed: 1983  
Tank Capacity: 00000060  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Container Construction Thickness: 1/2  
Leak Detection: Visual

Tank Num: 005  
Container Num: 5  
Year Installed: 1982

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MARINA WATER GARDENS (Continued)**

**U001562491**

Tank Capacity: 00001200  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Container Construction Thickness: 6  
Leak Detection: Visual

Tank Num: 006  
Container Num: 6  
Year Installed: 1983  
Tank Capacity: 00000800  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 007  
Container Num: 7  
Year Installed: 1983  
Tank Capacity: 00000800  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 008  
Container Num: 8  
Year Installed: 1983  
Tank Capacity: 00000300  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Container Construction Thickness: 6  
Leak Detection: Visual

[Click here for Geo Tracker PDF:](#)

**A12  
NE  
< 1/8  
0.098 mi.  
517 ft.**

**CURRENT OCCUPANT  
12781 CULVER BLVD  
LOS ANGELES, CA 90066**

**CA SWEEPS UST S101587369  
CA FID UST N/A**

**Site 3 of 3 in cluster A**

**Relative:  
Higher**

**SWEEPS UST:**  
Status: Active  
Comp Number: 1878  
Number: 9  
Board Of Equalization: 44-031792  
Referral Date: 12-30-92  
Action Date: 04-07-94  
Created Date: 02-29-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-050-001878-000001  
Tank Status: A  
Capacity: 300  
Active Date: 04-20-88  
Tank Use: CHEMICAL  
STG: P  
Content: UNKNOWN  
Number Of Tanks: 8

**Actual:  
19 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURRENT OCCUPANT (Continued)**

**S101587369**

Status: Active  
Comp Number: 1878  
Number: 9  
Board Of Equalization: 44-031792  
Referral Date: 12-30-92  
Action Date: 04-07-94  
Created Date: 02-29-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-050-001878-000002  
Tank Status: A  
Capacity: 600  
Active Date: 04-20-88  
Tank Use: CHEMICAL  
STG: P  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 1878  
Number: 9  
Board Of Equalization: 44-031792  
Referral Date: 12-30-92  
Action Date: 04-07-94  
Created Date: 02-29-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-050-001878-000003  
Tank Status: A  
Capacity: 750  
Active Date: 04-20-88  
Tank Use: CHEMICAL  
STG: P  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 1878  
Number: 9  
Board Of Equalization: 44-031792  
Referral Date: 12-30-92  
Action Date: 04-07-94  
Created Date: 02-29-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-050-001878-000004  
Tank Status: A  
Capacity: 60  
Active Date: 04-20-88  
Tank Use: CHEMICAL  
STG: P  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 1878  
Number: 9  
Board Of Equalization: 44-031792  
Referral Date: 12-30-92  
Action Date: 04-07-94

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURRENT OCCUPANT (Continued)**

**S101587369**

Created Date: 02-29-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-050-001878-000005  
Tank Status: A  
Capacity: 1200  
Active Date: 04-20-88  
Tank Use: CHEMICAL  
STG: P  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 1878  
Number: 9  
Board Of Equalization: 44-031792  
Referral Date: 12-30-92  
Action Date: 04-07-94  
Created Date: 02-29-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-050-001878-000006  
Tank Status: A  
Capacity: 800  
Active Date: 04-20-88  
Tank Use: CHEMICAL  
STG: P  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 1878  
Number: 9  
Board Of Equalization: 44-031792  
Referral Date: 12-30-92  
Action Date: 04-07-94  
Created Date: 02-29-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-050-001878-000007  
Tank Status: A  
Capacity: 800  
Active Date: 04-20-88  
Tank Use: CHEMICAL  
STG: P  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 1878  
Number: 9  
Board Of Equalization: 44-031792  
Referral Date: 12-30-92  
Action Date: 04-07-94  
Created Date: 02-29-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-050-001878-000008  
Tank Status: A  
Capacity: 300  
Active Date: 04-20-88



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURRENT OCCUPANT (Continued)**

**S101587369**

Tank Use: CHEMICAL  
STG: P  
Content: UNKNOWN  
Number Of Tanks: Not reported

CA FID UST:

Facility ID: 19055433  
Regulated By: UTNKA  
Regulated ID: 00033891  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 2130000000  
Mail To: Not reported  
Mailing Address: 12781 CULVER BLVD  
Mailing Address 2: Not reported  
Mailing City,St,Zip: LOS ANGELES 900660000  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

13  
South  
< 1/8  
0.100 mi.  
529 ft.

12950 CULVER BLVD  
LOS ANGELES, CA 90066

EDR Hist Auto 1015199721  
N/A

Relative:  
Higher

EDR Historical Auto Stations:

Name: COLLISION STUDIOS  
Year: 2010  
Address: 12950 CULVER BLVD

Actual:  
17 ft.

14  
WNW  
< 1/8  
0.119 mi.  
627 ft.

12917 ADMIRAL AVE  
LOS ANGELES, CA 90066

EDR Hist Auto 1015199376  
N/A

Relative:  
Higher

EDR Historical Auto Stations:

Name: DIESEL AIR MOBILE FLEET SRVC  
Year: 2001  
Address: 12917 ADMIRAL AVE

Actual:  
17 ft.

Name: DIESEL AIR MOBILE FLEET SRVC  
Year: 2002  
Address: 12917 ADMIRAL AVE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

15  
WSW  
1/8-1/4  
0.151 mi.  
796 ft.

**MILPITAS FLEMING ASSOCIATES**  
4755 ALLA ST  
MARINA DEL REY, CA 90291

RCRA-SQG 1001115497  
FINDS CAR000014324  
ECHO

Relative:  
Higher

RCRA-SQG:

Actual:  
17 ft.

Date form received by agency: 05/03/2000  
Facility name: MILPITAS FLEMING ASSOCIATES  
Facility address: 4755 ALLA ST  
MARINA DEL REY, CA 90291  
EPA ID: CAR000014324  
Mailing address: 433 N CAMDEN DR STE 1070  
BEVERLY HILLS, CA 90210  
Contact: KATHY STIMSON  
Contact address: 433 N CAMDEN DR STE 1070  
BEVERLY HILLS, CA 90210  
Contact country: US  
Contact telephone: (310) 278-2602  
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: MILPITAS FLEMING ASSOCIATES  
Owner/operator address: 4755 ALLA ST  
MARINA DEL REY, CA 90290  
Owner/operator country: Not reported  
Owner/operator telephone: (310) 278-2602  
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

. Waste code: D001  
. Waste name: IGNITABLE WASTE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILPITAS FLEMING ASSOCIATES (Continued)**

**1001115497**

. Waste code: D003  
. Waste name: REACTIVE WASTE

Violation Status: No violations found

**FINDS:**

Registry ID: 110006485801

**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.

**ECHO:**

Envid: 1001115497  
Registry ID: 110006485801  
DFR URL: [http://echo.epa.gov/detailed\\_facility\\_report?fid=110006485801](http://echo.epa.gov/detailed_facility_report?fid=110006485801)

**16**  
**WNW**  
**1/8-1/4**  
**0.176 mi.**  
**931 ft.**

**APARTMENT HOUSE**  
**12939 BONAPARTE**  
**LOS ANGELES, CA 90066**

**RCRA-SQG 1008194372**  
**CAC002566346**

**Relative:**  
**Higher**

**RCRA-SQG:**

Date form received by agency: 01/28/2004  
Facility name: APARTMENT HOUSE  
Facility address: 12939 BONAPARTE  
LOS ANGELES, CA 90066  
EPA ID: CAC002566346  
Mailing address: P.O. BOX 66488  
LOS ANGELES, CA 90066  
Contact: DENNIS R MOREHEAD  
Contact address: Not reported  
Not reported  
Contact country: US  
Contact telephone: (310) 306-2056  
Telephone ext.: 116  
Contact email: DMOREHEAD@COVAD.NET  
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: HMH ASCIATES, INC.  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APARTMENT HOUSE (Continued)**

**1008194372**

Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 04/21/2000  
Owner/Op end date: Not reported

Owner/operator name: BRF PROPERTIES, LTD.  
Owner/operator address: P. O. BOX 66488  
LOS ANGELES, CA 90066

Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 09/11/1996  
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: 01/28/2004  
Site name: APARTMENT HOUSE  
Classification: Large Quantity Generator

. Waste code: D008  
. Waste name: LEAD

Violation Status: No violations found

**C17** **RANDALL MCANANY COMPANY**  
**ESE** **4935 MCCONNELL**  
**1/8-1/4** **LOS ANGELES, CA 90066**  
**0.200 mi.**  
**1056 ft.** **Site 1 of 5 in cluster C**

**RCRA-SQG** **1000184760**  
**FINDS** **CAD982486391**  
**ECHO**

**Relative:**  
**Higher**

RCRA-SQG:  
Date form received by agency: 09/01/1996  
Facility name: RANDALL MCANANY COMPANY  
Facility address: 4935 MCCONNELL  
LOS ANGELES, CA 90066  
EPA ID: CAD982486391  
Mailing address: 4935 MCCONNELL AVE #20  
LOS ANGELES, CA 90066  
Contact: Not reported

**Actual:**  
**17 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RANDALL MCANANY COMPANY (Continued)**

**1000184760**

Contact address: Not reported  
Not reported  
Contact country: US  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 09  
Land type: Facility is not located on Indian land. Additional information is not known.  
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: TIMOTHY J MCANANY  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
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  
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

Historical Generators:

Date form received by agency: 03/05/1992  
Site name: RANDALL MCANANY COMPANY  
Classification: Large Quantity Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RANDALL MCANANY COMPANY (Continued)**

**1000184760**

Date form received by agency: 12/20/1989  
Site name: RANDALL MCANANY COMPANY  
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 03/22/1994  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State Contractor/Grantee

FINDS:

Registry ID: 110002827683

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.

ECHO:

Envid: 1000184760  
Registry ID: 110002827683  
DFR URL: [http://echo.epa.gov/detailed\\_facility\\_report?fid=110002827683](http://echo.epa.gov/detailed_facility_report?fid=110002827683)

**C18**  
**ESE**  
**1/8-1/4**  
**0.205 mi.**  
**1080 ft.**

**TELEDYNE REYNOLDS INC**  
**5005 MCCONNELL AVE**  
**LOS ANGELES, CA 90066**  
**Site 2 of 5 in cluster C**

**RCRA-SQG** **1000318258**  
**TRIS** **9006WRYNLD55MCC**  
**FINDS**  
**CA NPDES**  
**CA WDS**  
**ECHO**

**Relative:**  
**Higher**

RCRA-SQG:

**Actual:**  
**18 ft.**

Date form received by agency: 01/24/1986  
Facility name: REYNOLDS INDUSTRIES  
Facility address: 5005 MCCONNELL AVE  
LOS ANGELES, CA 90060  
EPA ID: CAD981369705  
Contact: ENVIRONMENTAL MANAGER  
Contact address: 5005 MCCONNELL AVE  
LOS ANGELES, CA 90060  
Contact country: US  
Contact telephone: (213) 823-5491  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE REYNOLDS INC (Continued)**

**1000318258**

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: HARRIET LEAVITT  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
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  
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

TRIS:

[Click this hyperlink](#) while viewing on your computer to access 1 additional US\_TRIS: record(s) in the EDR Site Report.

FINDS:

Registry ID: 110002683329

Environmental Interest/Information System  
US EPA TRIS (Toxics Release Inventory System) contains information



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE REYNOLDS INC (Continued)**

**1000318258**

from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

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.

**NPDES:**

Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	191724
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I018796
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/12/2004
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Teledyne Reynolds Inc
Discharge Address:	5005 Mcconnell Ave
Discharge City:	Los Angeles
Discharge State:	California
Discharge Zip:	90066
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE REYNOLDS INC (Continued)**

**1000318258**

OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	191724
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I018796
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE REYNOLDS INC (Continued)**

**1000318258**

PROCESSED DATE: 5/12/2004  
STATUS CODE NAME: Active  
STATUS DATE: 5/12/2004  
PLACE SIZE: 1.58  
PLACE SIZE UNIT: Acres  
FACILITY CONTACT NAME: Alvaro Herrera  
FACILITY CONTACT TITLE: EH&S - Manager  
FACILITY CONTACT PHONE: 310-823-5491  
FACILITY CONTACT PHONE EXT: 248  
FACILITY CONTACT EMAIL: alvaro.herrera@teledyne.com  
OPERATOR NAME: Teledyne Reynolds Inc  
OPERATOR ADDRESS: 5005 Mcconnell Ave  
OPERATOR CITY: Los Angeles  
OPERATOR STATE: California  
OPERATOR ZIP: 90066  
OPERATOR CONTACT NAME: Alvaro Herrera  
OPERATOR CONTACT TITLE: EH&S - Manager  
OPERATOR CONTACT PHONE: 310-823-5491  
OPERATOR CONTACT PHONE EXT: 248  
OPERATOR CONTACT EMAIL: alvaro.herrera@teledyne.com  
OPERATOR TYPE: Private Business  
DEVELOPER NAME: Not reported  
DEVELOPER ADDRESS: Not reported  
DEVELOPER CITY: Not reported  
DEVELOPER STATE: California  
DEVELOPER ZIP: Not reported  
DEVELOPER CONTACT NAME: Not reported  
DEVELOPER CONTACT TITLE: Not reported  
CONSTYPE LINEAR UTILITY IND: Not reported  
EMERGENCY PHONE NO: 310-261-9541  
EMERGENCY PHONE EXT: Not reported  
CONSTYPE ABOVE GROUND IND: Not reported  
CONSTYPE BELOW GROUND IND: Not reported  
CONSTYPE CABLE LINE IND: Not reported  
CONSTYPE COMM LINE IND: Not reported  
CONSTYPE COMMERTIAL IND: Not reported  
CONSTYPE ELECTRICAL LINE IND: Not reported  
CONSTYPE GAS LINE IND: Not reported  
CONSTYPE INDUSTRIAL IND: Not reported  
CONSTYPE OTHER DESRIPTION: Not reported  
CONSTYPE OTHER IND: Not reported  
CONSTYPE RECONS IND: Not reported  
CONSTYPE RESIDENTIAL IND: Not reported  
CONSTYPE TRANSPORT IND: Not reported  
CONSTYPE UTILITY DESCRIPTION: Not reported  
CONSTYPE UTILITY IND: Not reported  
CONSTYPE WATER SEWER IND: Not reported  
DIR DISCHARGE USWATER IND: N  
RECEIVING WATER NAME: Ballona Creek  
CERTIFIER NAME: Mark Kotilinek  
CERTIFIER TITLE: General Manager  
CERTIFICATION DATE: 18-JUN-15  
PRIMARY SIC: 3678-Electronic Connectors  
SECONDARY SIC: Not reported  
TERTIARY SIC: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE REYNOLDS INC (Continued)**

**1000318258**

WDS:

Facility ID: 4 19I018796  
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.  
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.  
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board  
Subregion: 4  
Facility Telephone: 3108235491  
Facility Contact: Ed Gorlek  
Agency Name: REYNOLDS INDUSTRIES INC  
Agency Address: 5005 Mcconnell Ave  
Agency City,St,Zip: Los Angeles 90066  
Agency Contact: Ed Gorlek  
Agency Telephone: 3108235491  
Agency Type: Private  
SIC Code: 3678  
SIC Code 2: Not reported  
Primary Waste Type: Not reported  
Primary Waste: Not reported  
Waste Type2: Not reported  
Waste2: Not reported  
Primary Waste Type: Not reported  
Secondary Waste: Not reported  
Secondary Waste Type: Not reported  
Design Flow: 0  
Baseline Flow: 0  
Reclamation: Not reported  
POTW: Not reported  
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.  
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

ECHO:

Envid: 1000318258  
Registry ID: 110002683329  
DFR URL: [http://echo.epa.gov/detailed\\_facility\\_report?fid=110002683329](http://echo.epa.gov/detailed_facility_report?fid=110002683329)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

C19  
ESE  
1/8-1/4  
0.229 mi.  
1207 ft.

RANDALL/MCANANY CO  
4943 MCCONNELL AVE, SUITE A  
LOS ANGELES, CA 90066

RCRA NonGen / NLR 1000184755  
CAD981161524

Site 3 of 5 in cluster C

Relative:  
Higher

RCRA NonGen / NLR:

Date form received by agency: 12/16/1985

Facility name: RANDALL/MCANANY CO

Facility address: 4943 MCCONNELL AVE, SUITE A  
LOS ANGELES, CA 90066

EPA ID: CAD981161524

Contact: ENVIRONMENTAL MANAGER

Contact address: 4943 MCCONNELL AVE, SUITE A  
LOS ANGELES, CA 90066

Contact country: US

Contact telephone: (213) 822-3344

Contact email: Not reported

EPA Region: 09

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:  
17 ft.

Owner/Operator Summary:

Owner/operator name: TIMOTHY MCANANY

Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999

Owner/operator country: Not reported

Owner/operator telephone: (415) 555-1212

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

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

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RANDALL/MCANANY CO (Continued)**

**1000184755**

Used oil transporter: No

Violation Status: No violations found

**C20  
ESE  
1/8-1/4  
0.229 mi.  
1207 ft.**

**PAUL V WEELDEN  
4943 MC CONNELL AVE  
LOS ANGELES, CA 90065**

**CA SWEEPS UST  
CA FID UST**

**S101587749  
N/A**

**Site 4 of 5 in cluster C**

**Relative:  
Higher**

**SWEEPS UST:**

**Actual:  
17 ft.**

Status: Active  
Comp Number: 5067  
Number: 9  
Board Of Equalization: Not reported  
Referral Date: 12-10-92  
Action Date: 12-10-92  
Created Date: 02-29-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: Not reported  
Tank Status: Not reported  
Capacity: Not reported  
Active Date: Not reported  
Tank Use: Not reported  
STG: Not reported  
Content: Not reported  
Number Of Tanks: Not reported

**CA FID UST:**

Facility ID: 19055959  
Regulated By: UTNKA  
Regulated ID: Not reported  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 2130000000  
Mail To: Not reported  
Mailing Address: 4943 MC CONNELL AVE  
Mailing Address 2: Not reported  
Mailing City,St,Zip: LOS ANGELES 900650000  
Contact: Not reported  
Contact Phone: Not reported  
DUNS Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**C21**  
**ESE**  
**1/8-1/4**  
**0.229 mi.**  
**1207 ft.**

**BOWERS MACHINING**  
**4943 MCCONNELL UNIT E**  
**LOS ANGELES, CA 90066**

**RCRA-SQG** 1000905025  
**FINDS** CA0000269571  
**ECHO**

**Site 5 of 5 in cluster C**

**Relative:**  
**Higher**

RCRA-SQG:

Date form received by agency: 04/25/1994

Facility name: BOWERS MACHINING

Facility address: 4943 MCCONNELL UNIT E

LOS ANGELES, CA 90066

EPA ID: CA0000269571

Mailing address: MCCONNELL UNIT E

LOS ANGELES, CA 90066

Contact: ROBERT QUIROZ

Contact address: 4943 MCCONNELL UNIT E

LOS ANGELES, CA 90066

Contact country: US

Contact telephone: (310) 821-8021

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 QUIROZ

Owner/operator address: 4943 MCCONNELL UNIT E

LOS ANGELES, CA 90066

Owner/operator country: Not reported

Owner/operator telephone: (310) 821-8021

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



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BOWERS MACHINING (Continued)**

**1000905025**

FINDS:

Registry ID: 110002616278

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.

ECHO:

Envid: 1000905025  
 Registry ID: 110002616278  
 DFR URL: [http://echo.epa.gov/detailed\\_facility\\_report?fid=110002616278](http://echo.epa.gov/detailed_facility_report?fid=110002616278)

22  
 SSE  
 1/4-1/2  
 0.447 mi.  
 2359 ft.

**TRANSACTION TECH INC**  
**12959 & 12975 CORAL TREE PL**  
**LOS ANGELES, CA 90292**

**CA LUST S101296958**  
**CA SLIC N/A**  
**CA EMI**  
**CA HIST CORTESE**

**Relative:**  
**Lower**

LUST REG 4:

**Actual:**  
**12 ft.**

Region: 4  
 Regional Board: 04  
 County: Los Angeles  
 Facility Id: 902920034  
 Status: Pollution Characterization  
 Substance: Solvents  
 Substance Quantity: Not reported  
 Local Case No: Not reported  
 Case Type: Groundwater  
 Abatement Method Used at the Site: Excavate and Dispose  
 Global ID: T0603701345  
 W Global ID: Not reported  
 Staff: SLC  
 Local Agency: 19050  
 Cross Street: BEETHOVEN  
 Enforcement Type: Not reported  
 Date Leak Discovered: Not reported  
 Date Leak First Reported: 3/16/1988  
 Date Leak Record Entered: 4/4/1988  
 Date Confirmation Began: Not reported  
 Date Leak Stopped: Not reported  
 Date Case Last Changed on Database: 10/12/1992  
 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  
 Water System: Not reported  
 Well Name: Not reported  
 Approx. Dist To Production Well (ft): 13764.177463413486031327584678  
 Source of Cleanup Funding: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TRANSACTION TECH INC (Continued)**

**S101296958**

Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: 10/12/1992  
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: Yes  
GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Organization: Not reported  
Owner Contact: Not reported  
Responsible Party: TRANSACTION TECHNOLOGY, INC  
RP Address: 725 SOUTH FIGUEROA ST, LOS ANGELES, CA 90017  
Program: SLIC  
Lat/Long: 33.9789435 / -118.424687  
Local Agency Staff: PEJ  
Beneficial Use: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Suspended: Not reported  
Assigned Name: Not reported  
Summary: LOCATED IN MARINA DEL REY. SOLVENT

**SLIC:**

Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 11/05/1999  
Global Id: SL2046C1644  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 33.97645  
Longitude: -118.424687  
Case Type: Cleanup Program Site  
Case Worker: SH  
Local Agency: Not reported  
RB Case Number: 0857  
File Location: Not reported  
Potential Media Affected: Not reported  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

**SLIC REG 4:**

Region: 4  
Facility Status: No further action required  
SLIC: 0857  
Substance: VOCs  
Staff: SH

**EMI:**

Year: 1987

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**TRANSACTION TECH INC (Continued)**

**S101296958**

County Code: 19  
 Air Basin: SC  
 Facility ID: 25447  
 Air District Name: SC  
 SIC Code: 3679  
 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: 1  
 Reactive Organic Gases Tons/Yr: 1  
 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 Smlr Tons/Yr:0

Year: 1990  
 County Code: 19  
 Air Basin: SC  
 Facility ID: 25447  
 Air District Name: SC  
 SIC Code: 3679  
 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: 1  
 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 Smlr Tons/Yr:0

HIST CORTESE:  
 Region: CORTESE  
 Facility County Code: 19  
 Reg By: LTNKA  
 Reg Id: 902920034

**D23  
 WNW  
 1/2-1  
 0.900 mi.  
 4750 ft.**

**BRADMORE INVESTMENT  
 4150 GLENCOE AVE  
 MARINA DEL REY, CA 90292**

**CA ENVIROSTOR S105520930  
 CA SLIC N/A  
 CA VCP  
 CA DEED**

**Site 1 of 3 in cluster D**

**Relative:  
 Higher**

ENVIROSTOR:  
 Facility ID: 60001574  
 Status: Certified O&M - Land Use Restrictions Only  
 Status Date: 04/14/2015  
 Site Code: 301549  
 Site Type: Voluntary Cleanup  
 Site Type Detailed: Voluntary Cleanup  
 Acres: 0.5  
 NPL: NO  
 Regulatory Agencies: SMBRP, RWQCB 4 - Los Angeles  
 Lead Agency: SMBRP  
 Program Manager: Don Indermill

**Actual:  
 23 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BRADMORE INVESTMENT (Continued)**

**S105520930**

Supervisor: Philip Chandler  
Division Branch: Cleanup Chatsworth  
Assembly: 54  
Senate: 26  
Special Program: Voluntary Cleanup Program  
Restricted Use: YES  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 33.98923  
Longitude: -118.4408  
APN: 4230-006-007  
Past Use: HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MANUFACTURING -  
ELECTRONIC, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE -  
TANKS/CONTAINERS  
Potential COC: Polychlorinated biphenyls (PCBs Tetrachloroethylene (PCE  
1,1,1-Trichloroethane (TCA Trichloroethylene (TCE  
1,2-Dichloroethylene (cis Under Investigation Tetrachloroethylene  
(PCE Trichloroethylene (TCE  
Confirmed COC: Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA  
1,2-Dichloroethylene (cis Trichloroethylene (TCE Polychlorinated  
biphenyls (PCBs Tetrachloroethylene (PCE Trichloroethylene (TCE  
31001-NO  
Potential Description: IA, OTH, SOIL, AQUI, SOIL, SV  
Alias Name: 4230-006-007  
Alias Type: APN  
Alias Name: 301549  
Alias Type: Project Code (Site Code)  
Alias Name: 60001574  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Agreement  
Completed Date: 12/07/2011  
Comments: VCA signed by both parties and becomes effective 12/07/2011.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 06/21/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Report  
Completed Date: 12/18/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 02/22/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BRADMORE INVESTMENT (Continued)**

**S105520930**

Completed Date: 12/18/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Report  
Completed Date: 05/26/1993  
Comments: The report is posted to Envirostor to help complete the record. See the DTSC fileroom for DTSC response to the report.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: 12/18/2012  
Comments: DTSC determined that the removal action is complete and no further action is required as discussed in detail in the letter.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: No Further Action Letter  
Completed Date: 12/18/2012  
Comments: DTSC concurred with the request for NFA.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 01/30/2014  
Comments: Removal Action Certified

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 10/11/2013  
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

**SLIC:**

Region: STATE  
**Facility Status:** **Open - Remediation**  
Status Date: 06/24/2010  
Global Id: SLT43127125  
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL  
Lead Agency Case Number: 19360279  
Latitude: 33.9890963989438  
Longitude: -118.441243171692  
Case Type: Cleanup Program Site  
Case Worker: PB  
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BRADMORE INVESTMENT (Continued)**

**S105520930**

RB Case Number: 0222  
File Location: Not reported  
Potential Media Affected: Not reported  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

**SLIC REG 4:**

Region: 4  
Facility Status: Not reported  
SLIC: 0222  
Substance: VOCs  
Staff: Department of Toxic Substances Control

**VCP:**

Facility ID: 60001574  
Site Type: Voluntary Cleanup  
Site Type Detail: Voluntary Cleanup  
Site Mgmt. Req.: NONE SPECIFIED  
Acres: 0.5  
National Priorities List: NO  
Cleanup Oversight Agencies: SMBRP, RWQCB 4 - Los Angeles  
Lead Agency: SMBRP  
Lead Agency Description: DTSC - Site Cleanup Program  
Project Manager: Don Indermill  
Supervisor: Philip Chandler  
Division Branch: Cleanup Chatsworth  
Site Code: 301549  
Assembly: 54  
Senate: 26  
Special Programs Code: Voluntary Cleanup Program  
Status: Certified O&M - Land Use Restrictions Only  
Status Date: 04/14/2015  
Restricted Use: YES  
Funding: Responsible Party  
Lat/Long: 33.98923 / -118.4408  
APN: 4230-006-007  
Past Use: HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MANUFACTURING - ELECTRONIC, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS  
  
Potential COC: 30018, 30022, 30026, 30027, 30195, 31001, 30022, 30027  
Confirmed COC: 30022,30026,30195,30027,30018,,30022,30027,31001-NO  
Potential Description: IA, OTH, SOIL, AQUI, SOIL, SV  
Alias Name: 4230-006-007  
Alias Type: APN  
Alias Name: 301549  
Alias Type: Project Code (Site Code)  
Alias Name: 60001574  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Agreement  
Completed Date: 12/07/2011  
Comments: VCA signed by both parties and becomes effective 12/07/2011.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BRADMORE INVESTMENT (Continued)**

**S105520930**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 06/21/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Report  
Completed Date: 12/18/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 02/22/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 12/18/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Report  
Completed Date: 05/26/1993  
Comments: The report is posted to Envirostor to help complete the record. See the DTSC fileroom for DTSC response to the report.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: 12/18/2012  
Comments: DTSC determined that the removal action is complete and no further action is required as discussed in detail in the letter.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: No Further Action Letter  
Completed Date: 12/18/2012  
Comments: DTSC concurred with the request for NFA.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 01/30/2014  
Comments: Removal Action Certified

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 10/11/2013  
Comments: Not reported

Future Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BRADMORE INVESTMENT (Continued)**

**S105520930**

Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**DEED:**

Envirostor ID: 60001574  
Area: PROJECT WIDE  
Sub Area: Not reported  
Site Type: VOLUNTARY CLEANUP  
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY  
Agency: Not reported  
Covenant Upload: Not reported  
Deed Date(s): 06/21/2012

**D24  
WNW  
1/2-1  
0.929 mi.  
4907 ft.**

**CORNELL-DUBILIER ELECTRONICS DIV  
4144 GLENCOE  
VENICE, CA 90291  
Site 2 of 3 in cluster D**

**SEMS 1000312751  
CA RESPONSE CAD980815104  
CA ENVIROSTOR  
CA SLIC  
CA HIST Cal-Sites  
CA DEED  
CA Cortese  
CA HIST CORTESE**

**Relative:  
Higher**

**Actual:  
23 ft.**

**SEMS:**  
Site ID: 902049  
EPA ID: CAD980815104  
Federal Facility: N  
NPL: Not on the NPL  
Non NPL Status: Other Cleanup Activity: State-Lead Cleanup

**Following information was gathered from the prior CERCLIS update completed in 10/2013:**

Site ID: 0902049  
EPA ID: CAD980815104  
Facility County: LOS ANGELES  
Short Name: CORNELL-DUBILIER ELECTRON  
Congressional District: 27  
IFMS ID: Not reported  
SMSA Number: 4480  
USGC Hydro Unit: 18070104  
Federal Facility: Not a Federal Facility  
DMNSN Number: 0.00000  
Site Orphan Flag: N  
RCRA ID: Not reported  
USGS Quadrangle: Not reported  
Site Init By Prog: Not reported  
NFRAP Flag: Not reported  
Parent ID: Not reported  
RST Code: Not reported  
EPA Region: 09  
Classification: Not reported  
Site Settings Code: Not reported  
NPL Status: Not on the NPL



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

DMNSN Unit Code: Not reported  
RBRAC Code: Not reported  
RResp Fed Agency Code: Not reported  
Non NPL Status: Other Cleanup Activity: State-Lead Cleanup  
Non NPL Status Date: 07/02/02  
Site Fips Code: 06037  
CC Concurrence Date: / /  
CC Concurrence FY: Not reported  
Alias EPA ID: Not reported  
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):

Contact ID: 13003854.00000  
Contact Name: Leslie Ramirez  
Contact Tel: (415) 972-3978  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

Contact ID: 13003858.00000  
Contact Name: Sharon Murray  
Contact Tel: (415) 972-4250  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

Contact ID: 13004003.00000  
Contact Name: Carl Brickner  
Contact Tel: Not reported  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

CERCLIS Site Alias Name(s):

Alias ID: 101  
Alias Name: INTRADECO (CKA)  
Alias Address: Not reported  
CA  
Alias ID: 101  
Alias Comments: PREVIOUS EPA ID# AZD 981 416 977  
Site Description: 11/99: SST identified site as high priority for follow up. State currently has the lead. 5/06: DTSC Lead per SSA

CERCLIS Assessment History:

Action Code: 001  
Action: DISCOVERY  
Date Started: / /  
Date Completed: 04/01/83  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: State, Fund Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 002  
Action: PRELIMINARY ASSESSMENT  
Date Started: 11/01/85

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Date Completed: 03/01/86  
Priority Level: Low priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: State, Fund Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 001  
Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 01/18/89  
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 001  
Action: SITE INSPECTION  
Date Started: / /  
Date Completed: 10/04/89  
Priority Level: Low priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: State, Fund Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 002  
Action: SITE REASSESSMENT  
Date Started: / /  
Date Completed: 05/23/06  
Priority Level: Higher priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

**AWP:**

AWP Facility ID: 19360279  
Region Code: 3  
Region: GLENDALE  
SMBR Branch Code: SA  
SMBR Branch Unit: SO CAL - GLENDALE  
Site Name.: Not reported  
Current Status Date: 04181996  
Current Status: ANNUAL WORKPLAN - ACTIVE SITE  
Lead Agency Code: DTSC  
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL  
Facility Type: responsible party

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Awp Site Type: RESPONSIBLE PARTY  
NPL: Not Listed  
Tier Of AWP Site: Not reported  
Source Of Funding: Not reported  
Responsible Staff Member: RKINSELL  
Supervisor Responsible: Not reported  
SIC Code: 36  
Facility SIC: MANU - ELECTRONIC & OTHER ELECTRIC EQUIP  
RWQCB Code: LA  
RWQCB Associated With Site: LOS ANGELES  
Site Access Controlled: Controlled  
Site Listed HWS List: Not reported  
Hazard Ranking Score: Not reported  
Date Site Hazard Ranked: Not reported  
Groundwater Contamination: Confirmed  
# Of Contamination Sources: 0  
Lat/Long: Not reported  
Lat/Long (dms): 0 0 0 / 0 0 0  
Lat/long Method: Not reported  
Description Of Entity: BASE & MERID  
State Assembly Distt Code: 53  
State Senate District: 28

**RESPONSE:**

Facility ID: 19360279  
Site Type: State Response  
Site Type Detail: State Response or NPL  
Acres: 1.4  
National Priorities List: NO  
Cleanup Oversight Agencies: SMBRP  
Lead Agency Description: DTSC - Site Cleanup Program  
Project Manager: Don Indermill  
Supervisor: Philip Chandler  
Division Branch: Cleanup Chatsworth  
Site Code: 300040  
Site Mgmt. Req.: NONE SPECIFIED  
Assembly: 54  
Senate: 26  
Special Program Status: \* CERC2  
Status: Active  
Status Date: 04/14/2015  
Restricted Use: YES  
Funding: Responsible Party  
Latitude: 33.98898  
Longitude: -118.4411  
APN: 4230-006-007, 4230-006-008, 4230-006-009, 4230-006-010, 4230-006-011, 4230-006-012, 4230006008  
Past Use: MANUFACTURING - ELECTRONIC  
Potential COC : \* HALOGENATED ORGANIC COMPOUNDS \* HALOGENATED SOLVENTS \* OXYGENATED SOLVENTS \* UNSPECIFIED SOLVENT MIXTURES Benzene Polychlorinated biphenyls (PCBs) Tetrachloroethylene (PCE) Trichloroethylene (TCE) Acetone Chloroform 1,2-Dichlorobenzene 1,4-Dichloro-2-butene 1,1-Dichloroethylene 1,2-Dichloroethylene (cis) Ethylbenzene Polychlorinated biphenyls (PCBs, see IRIS PCBs (unspeciated mixture, high risk, e.g. Aroclor 1254 1,1,1,2-Tetrachloroethane Toluene 1,2,4-Trichlorobenzene 1,1,2-Trichloroethane 1,2,3-Trichloropropane Xylenes

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Confirmed COC: \* UNSPECIFIED SOLVENT MIXTURES 30003-NO \* HALOGENATED ORGANIC COMPOUNDS \* HALOGENATED SOLVENTS \* OXYGENATED SOLVENTS 30564-NO 30571-NO Tetrachloroethylene (PCE 30032-NO Polychlorinated biphenyls (PCBs, see IRIS PCBs (unspeciated mixture, high risk, e.g. Aroclor 1254 30272-NO 30185-NO 30190-NO 30195-NO Toluene Xylenes 30563-NO 30535-NO Polychlorinated biphenyls (PCBs Trichloroethylene (TCE 30136-NO 30194-NO

Potential Description: OTH, SOIL, SV, IA, IA, OTH, SOIL, SV  
Alias Name: INTRADECO  
Alias Type: Alternate Name  
Alias Name: ZENITH PROCESSING CORPORATION  
Alias Type: Alternate Name  
Alias Name: 4230-006-007  
Alias Type: APN  
Alias Name: 4230-006-008  
Alias Type: APN  
Alias Name: 4230-006-009  
Alias Type: APN  
Alias Name: 4230-006-010  
Alias Type: APN  
Alias Name: 4230-006-011  
Alias Type: APN  
Alias Name: 4230-006-012  
Alias Type: APN  
Alias Name: 4230006008  
Alias Type: APN  
Alias Name: CAD980815104  
Alias Type: EPA Identification Number  
Alias Name: CAR000158469  
Alias Type: EPA Identification Number  
Alias Name: 110020489764  
Alias Type: EPA (FRS #)  
Alias Name: 110033613677  
Alias Type: EPA (FRS #)  
Alias Name: SL184641447  
Alias Type: GeoTracker Global ID  
Alias Name: SLT43127125  
Alias Type: GeoTracker Global ID  
Alias Name: P33062  
Alias Type: PCode  
Alias Name: 300040  
Alias Type: Project Code (Site Code)  
Alias Name: 19360279  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Consent Order  
Completed Date: 05/02/2007  
Comments: Consent Decree between DTSC, CDE and Glencoe Properties, LLC, was filed with the federal court in order to proceed with the implementation of the RAP.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 08/22/2007

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Comments: Covenant to provide access for 42XX Glencoe Avenue site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 08/22/2007  
Comments: Covenant and Agreement to provide access to DTSC for the 4150 Glencoe Avenue site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 08/22/2008  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Plan  
Completed Date: 02/21/2006  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation / Feasibility Study  
Completed Date: 10/11/2005  
Comments: Groundwater Remedial Investigation (RI) Report dated April 23, 2004 was approved by DTSC in a letter dated September 21, 2004. The Feasibility Study (FS) report and Supplement to Feasibility Study Report were approved by DTSC in a letter dated October 13, 2005.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \*Site Inspection (SI) Report  
Completed Date: 08/10/1989  
Comments: ENFORCEMENT(OTHER) FACILITY REFERRED TO BOND EXPENDITURE PLAN FOR CLEAN-UP DUE TO EXTENT OF TCE, TCI AND PCB CONTAMINATION; RECOMMENDATION TO EPA IS FOR LISTING SITE INSPECTION SITE INSP DONE A SITE INSPECTION CONDUCTED REVEALED TCE, TCA & PCB WERE DISPOSED OF ON THE PLANT PROPERTY; TCE, TCI & PCB'S WERE FOUND IN THE GROUNDWATER; SAMPLES AT SIGNIFICANTLY GREATER THAN BACKGROUND LEVELS

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 06/18/1997  
Comments: SITE SCREENING DONE UNDERGOING MITIGATION BY DHS (Earlier references were made to this being dated 4/6/1987. This is apparently incorrect, as the screening document is dated 6/18/1997.)

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Mitigation Monitoring Report  
Completed Date: 10/18/2005  
Comments: Completed & approved by DTSC CEQA unit.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Completed Document Type: Fieldwork  
Completed Date: 06/07/2007  
Comments: BBL completed a pre-floor sealant installation indoor air sampling event at 4144 Glencoe.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 11/20/2007  
Comments: Geosyntec completed a groundwater monitoring and sampling event on the 4 shallow monitoring wells at the Site. DTSC provided a down-hole camera to conduct a video survey of these wells to check the overall well integrity.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 07/11/2007  
Comments: Arcadis BBL completed sampling indoor air at 4144 Glencoe July 10-11 following application of floor sealant.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 09/21/2007  
Comments: BBL Arcadis completed a second round of indoor air sampling at 4144 Glencoe due to indoor air samples exceeding the PCE 'No Action' level from the initial post-sealant sampling event.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 04/01/2008  
Comments: This is a routine status report of site and groundwater status. No approval letter is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 04/01/2008  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \*Correspondence - Received  
Completed Date: 12/21/2007  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 10/15/2008  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Completed Date: 09/17/2009  
Comments: Installation of equipment has been completed and start-up routine initiated.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 03/03/2011  
Comments: No DTSC response is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Long Term Monitoring Report  
Completed Date: 04/08/2009  
Comments: Report accepted per DTSC email dated 4/08/2009.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 05/15/2009  
Comments: No revisions to the report are required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 01/15/2009  
Comments: This is a routine status report and requires no DTSC response.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedy Constructed: Operating Properly & Successfully  
Completed Date: 10/30/2009  
Comments: CDE consultant GZA made a presentation on 10/15/2009 demonstrating achievement of the ERH shutdown criteria. DTSC concurred after extensive discussion. DTSC submitted the attached email documenting concurrence, and requested a report formally documenting the data presented by GZA in a report to be submitted by 10/27/2009, to be tracked as a separate task. The ERH system was shut down on 10/15/2009. The SVE will continue to operate until it achieves the SVE shutdown criteria.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 09/17/2009  
Comments: System start-up occurred on 9/10/2009. DTSC verified system operation during site visits on 9/11/2009 and 9/14/2009.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 09/17/2009  
Comments: The ERH system achieved the minimum target temperature of 85 degrees C on about 9/17/2009.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Completed Document Type: Fieldwork  
Completed Date: 06/24/2010  
Comments: Consultant to CDE letter demonstrating achievement of SVE system shut down criteria reviewed and approved by DTSC. Comments from property owner were also considered.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 01/23/2012  
Comments: The fieldwork is completed: Final asphalt restoration at the 4144 Glencoe Property was completed on October 19, 2011. The Los Angeles Department of Building and Safety (LADBS) grading permit was closed out on November 14, 2011 upon LADBSs acceptance of the Final Compaction Report submitted on October 21, 2011. Further details regarding the site restoration activities will be included in the Removal Action Completion Report (RACR). Completion of Site survey on December 29, 2011.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 03/03/2011  
Comments: The responses are adequate, no final document or DTSC response is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 02/23/2010  
Comments: No changes are required. DTSC questions and comments were adequately addressed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/13/2010  
Comments: DTSC requires no revisions to the subject report.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 02/16/2011  
Comments: The original report and responses to DTSC questions are adequate. No revised document required or approval is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 05/05/2011  
Comments: No DTSC response or revised document is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Risk Assessment Report  
Completed Date: 04/23/2004  
Comments: This entry is solely to update Envirostor to include the Risk



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Assessment Report, which was not posted prior to 2/18/2011. Prior drafts and the DTSC comments and approval documents may be available in the facility file.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation Report  
Completed Date: 09/21/2004  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 08/03/2011  
Comments: No final document or DTSC response is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 08/04/2010  
Comments: No revisions or approval are required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 07/27/2009  
Comments: No changes were required to the original Monitoring Report, however, a series of questions were asked by DTSC about the brief shut down of the SSDS system and were answered by CDE's consultant GZA. The report is approved subject to those responses and assurances that DTSC and the property owner will be advised promptly of similar occurrences in the future.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 02/12/2010  
Comments: No revisions or approval is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 01/29/2010  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation Report  
Completed Date: 09/14/2011  
Comments: This is a historical report being uploaded here to increase the depth of the Envirostor database.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/17/2012  
Comments: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/17/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/17/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/12/2013  
Comments: report reviewed no comment

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/17/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 12/21/2007  
Comments: DTSC concurred that indoor air monitoring results demonstrated commercial/industrial health risk was less than significant, and occupancy of the building for commercial purposes was allowable.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 03/28/2012  
Comments: Indoor air monitoring issues were reported in the 9/21/2007 indoor air monitoring report, approved 12/21/2007.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Plan  
Completed Date: 06/01/2007  
Comments: The workplan was approved as submitted and implemented beginning June 6, 2007.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 12/21/2007  
Comments: Results were reported in a combined report together with the post slab sealant air monitoring activity. See that report for more info.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 08/09/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Comments: Field work was conducted 8/8/2006 by Geosyntec, with DTSC oversight by Todd Walbom, project manager.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/01/2007  
Comments: The report was approved as submitted.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 10/22/2007  
Comments: Approved as submitted.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 12/12/2007  
Comments: Task completed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 12/17/2007  
Comments: No revisions required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 07/15/2008  
Comments: No changes required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 04/15/2008  
Comments: No changes required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Implementation Workplan  
Completed Date: 07/12/2013  
Comments: completed

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/12/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 03/25/2013  
Comments: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/12/2013  
Comments: accepted without comment

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 11/22/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Workplan  
Completed Date: 08/16/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Report  
Completed Date: 05/18/1988  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 02/09/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation Report  
Completed Date: 04/14/2015  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 10/30/2015  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 09/18/2007  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Inspections/Visit (Non LUR)  
Completed Date: 10/24/2009  
Comments: The document is a routine DTSC field oversight report. No approval is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Completed Document Type: Letter - Demand  
Completed Date: 04/05/2012  
Comments: Letter was drafted, peer reviewed by supervisor and DTSC OLC, and was signed and mailed on 4/5/2012.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 10/11/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 09/25/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Initial Study/ Neg. Declaration  
Completed Date: 02/16/2006  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)  
Completed Date: 04/08/1997  
Comments: Completion and issuance of an Imminent and Substantial Endangerment Determination and Remedial Action Order. The Order is for investigation and cleanup of the site and payment of DTSC's past cost.  
Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Discovery  
Completed Date: 01/06/1983  
Comments: FACILITY IDENTIFIED LA CHAM OF COMM BUS DIR 1971

Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Operations and Maintenance Plan  
Future Due Date: 2016  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Remedial Action Completion Report  
Future Due Date: 2017  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Certification  
Future Due Date: 2016  
Schedule Area Name: PROJECT WIDE  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Land Use Restriction - Amendment  
Schedule Due Date: 09/04/2012  
Schedule Revised Date: 07/15/2018

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

CORNELL-DUBILIER ELECTRONICS DIV (Continued)

1000312751

ENVIROSTOR:

Facility ID: 19360279  
Status: Active  
Status Date: 04/14/2015  
Site Code: 300040  
Site Type: State Response  
Site Type Detailed: State Response or NPL  
Acres: 1.4  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Don Indermill  
Supervisor: Philip Chandler  
Division Branch: Cleanup Chatsworth  
Assembly: 54  
Senate: 26  
Special Program: \* CERC2  
Restricted Use: YES  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 33.98898  
Longitude: -118.4411  
APN: 4230-006-007, 4230-006-008, 4230-006-009, 4230-006-010, 4230-006-011, 4230-006-012, 4230006008  
Past Use: MANUFACTURING - ELECTRONIC  
Potential COC: \* HALOGENATED ORGANIC COMPOUNDS \* HALOGENATED SOLVENTS \* OXYGENATED SOLVENTS \* UNSPECIFIED SOLVENT MIXTURES Benzene Polychlorinated biphenyls (PCBs Tetrachloroethylene (PCE Trichloroethylene (TCE Acetone Chloroform 1,2-Dichlorobenzene 1,4-Dichloro-2-butene 1,1-Dichloroethylene 1,2-Dichloroethylene (cis Ethylbenzene Polychlorinated biphenyls (PCBs, see IRIS PCBs (unspeciated mixture, high risk, e.g. Aroclor 1254 1,1,1,2-Tetrachloroethane Toluene 1,2,4-Trichlorobenzene 1,1,2-Trichloroethane 1,2,3-Trichloropropane Xylenes Polychlorinated biphenyls (PCBs Tetrachloroethylene (PCE Trichloroethylene (TCE  
Confirmed COC: \* UNSPECIFIED SOLVENT MIXTURES 30003-NO \* HALOGENATED ORGANIC COMPOUNDS \* HALOGENATED SOLVENTS \* OXYGENATED SOLVENTS 30564-NO 30571-NO Tetrachloroethylene (PCE 30032-NO Polychlorinated biphenyls (PCBs, see IRIS PCBs (unspeciated mixture, high risk, e.g. Aroclor 1254 30272-NO 30185-NO 30190-NO 30195-NO Toluene Xylenes 30563-NO 30535-NO Polychlorinated biphenyls (PCBs Trichloroethylene (TCE 30136-NO 30194-NO Tetrachloroethylene (PCE Polychlorinated biphenyls (PCBs Trichloroethylene (TCE  
Potential Description: OTH, SOIL, SV, IA, IA, OTH, SOIL, SV  
Alias Name: INTRADECO  
Alias Type: Alternate Name  
Alias Name: ZENITH PROCESSING CORPORATION  
Alias Type: Alternate Name  
Alias Name: 4230-006-007  
Alias Type: APN  
Alias Name: 4230-006-008  
Alias Type: APN  
Alias Name: 4230-006-009  
Alias Type: APN  
Alias Name: 4230-006-010  
Alias Type: APN  
Alias Name: 4230-006-011

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Alias Type: APN  
Alias Name: 4230-006-012  
Alias Type: APN  
Alias Name: 4230006008  
Alias Type: APN  
Alias Name: CAD980815104  
Alias Type: EPA Identification Number  
Alias Name: CAR000158469  
Alias Type: EPA Identification Number  
Alias Name: 110020489764  
Alias Type: EPA (FRS #)  
Alias Name: 110033613677  
Alias Type: EPA (FRS #)  
Alias Name: SL184641447  
Alias Type: GeoTracker Global ID  
Alias Name: SLT43127125  
Alias Type: GeoTracker Global ID  
Alias Name: P33062  
Alias Type: PCode  
Alias Name: 300040  
Alias Type: Project Code (Site Code)  
Alias Name: 19360279  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Consent Order  
Completed Date: 05/02/2007  
Comments: Consent Decree between DTSC, CDE and Glencoe Properties, LLC, was filed with the federal court in order to proceed with the implementation of the RAP.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 08/22/2007  
Comments: Covenant to provide access for 42XX Glencoe Avenue site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 08/22/2007  
Comments: Covenant and Agreement to provide access to DTSC for the 4150 Glencoe Avenue site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 08/22/2008  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Plan  
Completed Date: 02/21/2006  
Comments: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation / Feasibility Study  
Completed Date: 10/11/2005  
Comments: Groundwater Remedial Investigation (RI) Report dated April 23, 2004 was approved by DTSC in a letter dated September 21, 2004. The Feasibility Study (FS) report and Supplement to Feasibility Study Report were approved by DTSC in a letter dated October 13, 2005.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \*Site Inspection (SI) Report  
Completed Date: 08/10/1989  
Comments: ENFORCEMENT(OTHER) FACILITY REFERRED TO BOND EXPENDITURE PLAN FOR CLEAN-UP DUE TO EXTENT OF TCE, TCI AND PCB CONTAMINATION; RECOMMENDATION TO EPA IS FOR LISTING SITE INSPECTION SITE INSP DONE A SITE INSPECTION CONDUCTED REVEALED TCE, TCA & PCB WERE DISPOSED OF ON THE PLANT PROPERTY; TCE, TCI & PCB'S WERE FOUND IN THE GROUNDWATER; SAMPLES AT SIGNIFICANTLY GREATER THAN BACKGROUND LEVELS

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 06/18/1997  
Comments: SITE SCREENING DONE UNDERGOING MITIGATION BY DHS (Earlier references were made to this being dated 4/6/1987. This is apparently incorrect, as the screening document is dated 6/18/1997.)

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Mitigation Monitoring Report  
Completed Date: 10/18/2005  
Comments: Completed & approved by DTSC CEQA unit.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 06/07/2007  
Comments: BBL completed a pre-floor sealant installation indoor air sampling event at 4144 Glencoe.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 11/20/2007  
Comments: Geosyntec completed a groundwater monitoring and sampling event on the 4 shallow monitoring wells at the Site. DTSC provided a down-hole camera to conduct a video survey of these wells to check the overall well integrity.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 07/11/2007  
Comments: Arcadis BBL completed sampling indoor air at 4144 Glencoe July 10-11 following application of floor sealant.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 09/21/2007  
Comments: BBL Arcadis completed a second round of indoor air sampling at 4144 Glencoe due to indoor air samples exceeding the PCE 'No Action' level from the initial post-sealant sampling event.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 04/01/2008  
Comments: This is a routine status report of site and groundwater status. No approval letter is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 04/01/2008  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \*Correspondence - Received  
Completed Date: 12/21/2007  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 10/15/2008  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 09/17/2009  
Comments: Installation of equipment has been completed and start-up routine initiated.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 03/03/2011  
Comments: No DTSC response is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Long Term Monitoring Report  
Completed Date: 04/08/2009  
Comments: Report accepted per DTSC email dated 4/08/2009.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 05/15/2009  
Comments: No revisions to the report are required.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 01/15/2009  
Comments: This is a routine status report and requires no DTSC response.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedy Constructed: Operating Properly & Successfully  
Completed Date: 10/30/2009  
Comments: CDE consultant GZA made a presentation on 10/15/2009 demonstrating achievement of the ERH shutdown criteria. DTSC concurred after extensive discussion. DTSC submitted the attached email documenting concurrence, and requested a report formally documenting the data presented by GZA in a report to be submitted by 10/27/2009, to be tracked as a separate task. The ERH system was shut down on 10/15/2009. The SVE will continue to operate until it achieves the SVE shutdown criteria.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 09/17/2009  
Comments: System start-up occurred on 9/10/2009. DTSC verified system operation during site visits on 9/11/2009 and 9/14/2009.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 09/17/2009  
Comments: The ERH system achieved the minimum target temperature of 85 degrees C on about 9/17/2009.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 06/24/2010  
Comments: Consultant to CDE letter demonstrating achievement of SVE system shut down criteria reviewed and approved by DTSC. Comments from property owner were also considered.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 01/23/2012  
Comments: The fieldwork is completed: Final asphalt restoration at the 4144 Glencoe Property was completed on October 19, 2011. The Los Angeles Department of Building and Safety (LADBS) grading permit was closed out on November 14, 2011 upon LADBSs acceptance of the Final Compaction Report submitted on October 21, 2011. Further details regarding the site restoration activities will be included in the Removal Action Completion Report (RACR). Completion of Site survey on December 29, 2011.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Completed Date: 03/03/2011  
Comments: The responses are adequate, no final document or DTSC response is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 02/23/2010  
Comments: No changes are required. DTSC questions and comments were adequately addressed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/13/2010  
Comments: DTSC requires no revisions to the subject report.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 02/16/2011  
Comments: The original report and responses to DTSC questions are adequate. No revised document required or approval is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 05/05/2011  
Comments: No DTSC response or revised document is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Risk Assessment Report  
Completed Date: 04/23/2004  
Comments: This entry is solely to update Envirostor to include the Risk Assessment Report, which was not posted prior to 2/18/2011. Prior drafts and the DTSC comments and approval documents may be available in the facility file.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation Report  
Completed Date: 09/21/2004  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 08/03/2011  
Comments: No final document or DTSC response is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 08/04/2010  
Comments: No revisions or approval are required.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 07/27/2009  
Comments: No changes were required to the original Monitoring Report, however, a series of questions were asked by DTSC about the brief shut down of the SSDS system and were answered by CDE's consultant GZA. The report is approved subject to those responses and assurances that DTSC and the property owner will be advised promptly of similar occurrences in the future.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 02/12/2010  
Comments: No revisions or approval is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 01/29/2010  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation Report  
Completed Date: 09/14/2011  
Comments: This is a historical report being uploaded here to increase the depth of the Envirostor database.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/17/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/17/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/17/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/12/2013  
Comments: report reviewed no comment

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Completed Date: 09/17/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 12/21/2007  
Comments: DTSC concurred that indoor air monitoring results demonstrated commercial/industrial health risk was less than significant, and occupancy of the building for commercial purposes was allowable.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 03/28/2012  
Comments: Indoor air monitoring issues were reported in the 9/21/2007 indoor air monitoring report, approved 12/21/2007.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Plan  
Completed Date: 06/01/2007  
Comments: The workplan was approved as submitted and implemented beginning June 6, 2007.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 12/21/2007  
Comments: Results were reported in a combined report together with the post slab sealant air monitoring activity. See that report for more info.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 08/09/2006  
Comments: Field work was conducted 8/8/2006 by Geosyntec, with DTSC oversight by Todd Walbom, project manager.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/01/2007  
Comments: The report was approved as submitted.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 10/22/2007  
Comments: Approved as submitted.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 12/12/2007  
Comments: Task completed.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 12/17/2007  
Comments: No revisions required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 07/15/2008  
Comments: No changes required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 04/15/2008  
Comments: No changes required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Implementation Workplan  
Completed Date: 07/12/2013  
Comments: completed

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/12/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 03/25/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 09/12/2013  
Comments: accepted without comment

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 11/22/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Workplan  
Completed Date: 08/16/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Report

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Completed Date: 05/18/1988  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 02/09/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation Report  
Completed Date: 04/14/2015  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 10/30/2015  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 09/18/2007  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Inspections/Visit (Non LUR)  
Completed Date: 10/24/2009  
Comments: The document is a routine DTSC field oversight report. No approval is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Letter - Demand  
Completed Date: 04/05/2012  
Comments: Letter was drafted, peer reviewed by supervisor and DTSC OLC, and was signed and mailed on 4/5/2012.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 10/11/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 09/25/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Initial Study/ Neg. Declaration  
Completed Date: 02/16/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)  
Completed Date: 04/08/1997  
Comments: Completion and issuance of an Imminent and Substantial Endangerment Determination and Remedial Action Order. The Order is for investigation and cleanup of the site and payment of DTSC's past cost.  
Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Discovery  
Completed Date: 01/06/1983  
Comments: FACILITY IDENTIFIED LA CHAM OF COMM BUS DIR 1971

Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Operations and Maintenance Plan  
Future Due Date: 2016  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Remedial Action Completion Report  
Future Due Date: 2017  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Certification  
Future Due Date: 2016  
Schedule Area Name: PROJECT WIDE  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Land Use Restriction - Amendment  
Schedule Due Date: 09/04/2012  
Schedule Revised Date: 07/15/2018

**SLIC:**

Region: STATE  
**Facility Status:** **Open - Inactive**  
Status Date: 01/30/2015  
Global Id: SL184641447  
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL  
Lead Agency Case Number: 19360279  
Latitude: 33.9925330818182  
Longitude: -118.46165695  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 0600  
File Location: Not reported  
Potential Media Affected: Not reported  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

SLIC REG 4:



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Region: 4  
Facility Status: Not reported  
SLIC: 0600  
Substance: Not reported  
Staff: Department of Toxic Substances Control

Calsite:

Region: GLENDALE  
Facility ID: 19360279  
Facility Type: RP  
Type: RESPONSIBLE PARTY  
Branch: SA  
Branch Name: SO CAL - GLENDALE  
File Name: Not reported  
State Senate District: 04181996  
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE  
Status Name: ANNUAL WORKPLAN - ACTIVE SITE  
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL  
NPL: Not Listed  
SIC Code: 36  
SIC Name: MANU - ELECTRONIC & OTHER ELECTRIC EQUIP  
Access: Controlled  
Cortese: Not reported  
Hazardous Ranking Score: Not reported  
Date Site Hazard Ranked: Not reported  
Groundwater Contamination: Confirmed  
Staff Member Responsible for Site: RKINSELL  
Supervisor Responsible for Site: Not reported  
Region Water Control Board: LA  
Region Water Control Board Name: LOS ANGELES  
Lat/Long Direction: Not reported  
Lat/Long (dms): 0 0 0 / 0 0 0  
Lat/long Method: Not reported  
Lat/Long Description: BASE & MERID  
State Assembly District Code: 53  
State Senate District Code: 28  
Facility ID: 19360279  
Activity: DISC  
Activity Name: DISCOVERY  
AWP Code: Not reported  
Proposed Budget: 0  
AWP Completion Date: Not reported  
Revised Due Date: Not reported  
Comments Date: 01061983  
Est Person-Yrs to complete: 0  
Estimated Size: Not reported  
Request to Delete Activity: Not reported  
Activity Status: AWP  
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE  
Liquids Removed (Gals): 0  
Liquids Treated (Gals): 0  
Action Included Capping: Not reported  
Well Decommissioned: Not reported  
Action Included Fencing: Not reported  
Removal Action Certification: Not reported  
Activity Comments: Not reported  
For Commercial Reuse: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0  
Facility ID: 19360279  
Activity: SS  
Activity Name: SITE SCREENING  
AWP Code: Not reported  
Proposed Budget: 0  
AWP Completion Date: Not reported  
Revised Due Date: Not reported  
Comments Date: 04061987  
Est Person-Yrs to complete: 0  
Estimated Size: Not reported  
Request to Delete Activity: Not reported  
Activity Status: AWP  
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE  
Liquids Removed (Gals): 0  
Liquids Treated (Gals): 0  
Action Included Capping: Not reported  
Well Decommissioned: Not reported  
Action Included Fencing: Not reported  
Removal Action Certification: Not reported  
Activity Comments: Not reported  
For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0  
Facility ID: 19360279  
Activity: SI  
Activity Name: SITE INSPECTION  
AWP Code: Not reported  
Proposed Budget: 0  
AWP Completion Date: Not reported  
Revised Due Date: Not reported  
Comments Date: 08101989  
Est Person-Yrs to complete: 0  
Estimated Size: Not reported  
Request to Delete Activity: Not reported  
Activity Status: AWP  
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE  
Liquids Removed (Gals): 0  
Liquids Treated (Gals): 0  
Action Included Capping: Not reported  
Well Decommissioned: Not reported  
Action Included Fencing: Not reported  
Removal Action Certification: Not reported  
Activity Comments: Not reported  
For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0  
Facility ID: 19360279  
Activity: ORDER  
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA  
AWP Code: I&SE  
Proposed Budget: 0  
AWP Completion Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Revised Due Date:	Not reported
Comments Date:	04081997
Est Person-Yrs to complete:	0
Estimated Size:	M
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19360279
Activity:	RIFS
Activity Name:	REMEDIATION INVESTIGATION / FEASIBILITY STUDY
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	12302004
Revised Due Date:	12302005
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19360279
Activity:	RAP
Activity Name:	REMEDIATION ACTION PLAN / RECORD OF DECISION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	07312005
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19360279
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	06302007
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19360279
Activity:	DES
Activity Name:	DESIGN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	12302005
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Facility ID: 19360279  
Activity: RMDL  
Activity Name: REMEDIAL ACTION (RAP REQUIRED)  
AWP Code: Not reported  
Proposed Budget: 0  
AWP Completion Date: 06302006  
Revised Due Date: Not reported  
Comments Date: Not reported  
Est Person-Yrs to complete: 0  
Estimated Size: Not reported  
Request to Delete Activity: Not reported  
Activity Status: AWP  
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE  
Liquids Removed (Gals): 0  
Liquids Treated (Gals): 0  
Action Included Capping: Not reported  
Well Decommissioned: Not reported  
Action Included Fencing: Not reported  
Removal Action Certification: Not reported  
Activity Comments: Not reported  
For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0  
Alternate Address: 4144 GLENCOE AVENUE  
Alternate City,St,Zip: VENICE, CA 90292  
Alternate Address: 4144 GLENCOE AVENUE  
Alternate City,St,Zip: MARINA DEL REY, CA 90292  
Background Info: The Cornell Dubilier site occupies approximately 1.2 acres in a light industrial/commercial area of Venice. A large building is in the eastern corner of the site which housed the Cornell Dubilier Electronics (CDE) offices and manufacturing area. The site is currently paved, vacant and fenced. During the 1988 expanded site investigation, PCB, TCE and PCE were detected in the site soils up to 2,910 ppm, 130 ppm and 2,100 ppm, respectively. PCBs, TCE and PCE were detected in the groundwater up to 2,100 ug/l, 110,000 ug/l and 1,300 ug/l, respectively.  
Comments Date: 01011988  
Comments: This is the date the site was first listed AWP pursuant to  
Comments Date: 01011988  
Comments: Section 25356.  
Comments Date: 01011988  
Comments: ON CORTESE LIST  
Comments Date: 01061983  
Comments: FACILITY IDENTIFIED LA CHAM OF COMM BUS DIR 1971  
Comments Date: 01261983  
Comments: NEW LOC: 1717 19TH ST, SANTA MONICA -  
Comments Date: 01261983  
Comments: SEE FILE #19-36-0410  
Comments Date: 01292002  
Comments: Additional step-out sampling done on 1/16/2002. Results under  
Comments Date: 01292002  
Comments: review. Consulting Engineer to submit Workplan for further  
Comments Date: 01292002  
Comments: deep investigation of the Site in 2/2002.  
Comments Date: 01301996

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Comments: A meeting was held between DTSC and Cornell-Dubilier to  
Comments Date: 01301996  
Comments: discuss the site strategy. A draft consent order is  
Comments Date: 01301996  
Comments: currently being drafted by DTSC.  
Comments Date: 01311983  
Comments: QUESTIONNAIRE SENT TO NEW LOCATION  
Comments Date: 02021995  
Comments: INFORMATION REQUEST RESPONSES FROM CORNELL DUBILIER ELEC-  
Comments Date: 02021995  
Comments: TRONICS, RELIANCE ELECTRIC CORPORATION, FEDERAL PACIFIC  
Comments Date: 02021995  
Comments: ELECTRIC, THE FORMER PROPERTY OWNER AND LENDER ARE RECEIVED  
Comments Date: 02021995  
Comments: AND REVIEWED BY DTSC.  
Comments Date: 02141983  
Comments: FACILITY DRIVE-BY ZENITH PROCESSING CORP ON SITE NOW.FENCD  
Comments Date: 02141983  
Comments: PAVED AREA. DRUMS NOT ON PALLET, NO OOZG  
Comments Date: 02141983  
Comments: NO SEEPG. SLOPES SLIGHTLY TOWARD GLENCOE  
Comments Date: 02141983  
Comments: INDUSTRIAL AREA. VEG NON-STRESSED.  
Comments Date: 03042002  
Comments: Consulting engineer has submitted workplan for further deep  
Comments Date: 03042002  
Comments: investigation - now under review.  
Comments Date: 03112005  
Comments: Remedial Investigation approved September 2004, Risk Assessment  
Comments Date: 03112005  
Comments: approved May 2004. Feasibility Study scheduled for submittal  
Comments Date: 03112005  
Comments: June 2005.  
Comments Date: 04052002  
Comments: Consulting Engineer is submitting a revised workplan for further  
Comments Date: 04052002  
Comments: deep investigation.  
Comments Date: 04061987  
Comments: SITE SCREENING DONE UNDERGOING MITIGATION BY DHS  
Comments Date: 04081997  
Comments: Completion and issuance of an Imminent and Substantial Endanger-  
Comments Date: 04081997  
Comments: ment Determination and Remedial Action Order. The Order is for  
Comments Date: 04081997  
Comments: investigation and cleanup of the site and payment of DTSC's past  
Comments Date: 04081997  
Comments: cost.  
Comments Date: 04131983  
Comments: QUEST RECEIVED. 100 EMPLOYEES AT LOC.  
Comments Date: 04131983  
Comments: PARENT ORG: FEDERAL PACIFIC ELECTRIC CO  
Comments Date: 04131983  
Comments: DIV MGR: STAN CLEWELL (213)829-6701  
Comments Date: 04131983  
Comments: PROD: PASSIVE ELECTRONIC FILTERS  
Comments Date: 04131983  
Comments: 1960-65 SOME WASTE DUMPED IN MALIBU(ADDR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Comments Date: 04131983  
Comments: 28877 GRAYFOX) RECENTLY C-U.  
Comments Date: 04131983  
Comments: OTHER LOC: BEACH AVE/VENICE 1971-1976  
Comments Date: 04191985  
Comments: FACILITY DRIVE-BY ASAP DRIVE-BY. NOW PARKING LOT.  
Comments Date: 05181988  
Comments: Expanded site investigation performed by Meredith Boli &  
Comments Date: 05181988  
Comments: Associates. Investigation comprised of 16 soil borings, 4  
Comments Date: 05181988  
Comments: of which were converted to GW monitoring wells. Very high  
Comments Date: 05181988  
Comments: levels of PCB, TCE and PCE detected in the site soils and  
Comments Date: 05181988  
Comments: groundwater.  
Comments Date: 05191986  
Comments: INSPECTION(STATE) CHS. SAMPLES TAKEN  
Comments Date: 05191986  
Comments: SAMPLE RESULTS 300MG/KG PCB IN SOIL.  
Comments Date: 06071994  
Comments: U.S. EPA completes Site Inspection Prioritization Report for  
Comments Date: 06071994  
Comments: the Cornell Dubilier Property-No Further Action for U.S EPA.  
Comments Date: 06101986  
Comments: VIOLATION CORRECTED\*UNDERGOING CHAR BY MERIDETH/BOLI & ASSOC  
Comments Date: 06101986  
Comments: WHICH IS HIRED BY CORNELL  
Comments Date: 06161983  
Comments: PHONE F-U. STAN CLEWELL, MGR. CO HLTH  
Comments Date: 06161983  
Comments: INVOLVED IN C-U. IMPREGNATION ROOM IN  
Comments Date: 06161983  
Comments: GLENCOE CLEANED-UP, JAMES & MONTGOMERY  
Comments Date: 06161983  
Comments: CLEAN-UP CONSULTANTS. SONIA F CREW,  
Comments Date: 06161983  
Comments: USEPA NOTIFIED OF DISP. BACK LOT IN  
Comments Date: 06161983  
Comments: GLENCOE NOT YET CLEANED-UP  
Comments Date: 06191989  
Comments: SITE IS ON 1989 BOND EXPENDITURE PLAN  
Comments Date: 08062001  
Comments: Considerable amount of remedial investigation work done in the  
Comments Date: 08062001  
Comments: last year to ascertain horizontal and vertical extent of  
Comments Date: 08062001  
Comments: contamination. RI phase is scheduled for completion by  
Comments Date: 08062001  
Comments: 12/31/2001.  
Comments Date: 08062001  
Comments: Not reported  
Comments Date: 08101989  
Comments: ENFORCEMENT(OTHER) FACILITY REFERRED TO BOND EXPENDITURE  
Comments Date: 08101989  
Comments: PLAN FOR CLEAN-UP DUE TO EXTENT OF TCE,  
Comments Date: 08101989

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Comments: TCI AND PCB CONTAMINATION; RECOMMENDA-  
Comments Date: 08101989  
Comments: TION TO EPA IS FOR LISTING SITE INSPEC-  
Comments Date: 08101989  
Comments: TION  
Comments Date: 08101989  
Comments: SITE INSP DONE A SITE INSPECTION CONDUCTED REVEALED  
Comments Date: 08101989  
Comments: TCE, TCA & PCB WERE DISPOSED OF ON THE  
Comments Date: 08101989  
Comments: PLANT PROPERTY; TCE, TCI & PCB'S WERE  
Comments Date: 08101989  
Comments: FOUND IN THE GROUNDWATER; SAMPLES AT  
Comments Date: 08101989  
Comments: SIGNIFICANTLY GREATER THAN BACKGROUND  
Comments Date: 08101989  
Comments: LEVELS  
Comments Date: 08282002  
Comments: DTSC approved revised workplan for the deep investigation;  
Comments Date: 08282002  
Comments: consulting engineer implemented workplan in July. Results are  
Comments Date: 08282002  
Comments: under review.  
Comments Date: 09011987  
Comments: REPORTED FOR PROP65  
Comments Date: 09151995  
Comments: A meeting was held between DTSC, Cornell-Dubilier, Federal  
Comments Date: 09151995  
Comments: Pacific Electronics and Brian Catalde Developments (owner)  
Comments Date: 09151995  
Comments: to discuss the draft Imminent and/or Substantial Endangerment  
Comments Date: 09151995  
Comments: Order (Order). It was agreed in the meeting that the Order  
Comments Date: 09151995  
Comments: will be put on hold until a site strategy to address the  
Comments Date: 09151995  
Comments: condition at the site could be developed and presented to  
Comments Date: 09151995  
Comments: DTSC.  
Comments Date: 09231996  
Comments: Negotiations continue between DTSC and Cornell relative to  
Comments Date: 09231996  
Comments: terms of a consent order.  
Comments Date: 09231996  
Comments: Not reported  
Comments Date: 10011985  
Comments: DURING OPER WASTE WAS DISP ON-SITE.  
Comments Date: 10011985  
Comments: SOURCE ACT: PROD PASSIVE ELECTRONIC  
Comments Date: 10011985  
Comments: FILTERS(99%) & ELECTROMAGNETIC INTER-  
Comments Date: 10011985  
Comments: FERENCE TESTING (1%).  
Comments Date: 10011985  
Comments: SUBMIT TO EPA  
Comments Date: 10182001  
Comments: Additional step-out sampling to be done once sample locations



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Comments Date: 10182001  
Comments: are approved. Consulting engineer is now developing a general  
Comments Date: 10182001  
Comments: outline and schedule for the Risk Assessment and Feasibility  
Comments Date: 10182001  
Comments: Study.  
Comments Date: 11091994  
Comments: Information Request letters have been sent to Cornell  
Comments Date: 11091994  
Comments: Dubilier Electronics, its parent companies Reliance Electric  
Comments Date: 11091994  
Comments: and Federal Pacific Electric, the former property owner, and  
Comments Date: 11091994  
Comments: the lender who foreclosed on the Cornell property.  
ID Name: CALSTARS CODE  
ID Value: 300040  
ID Name: BEP DATABASE PCODE  
ID Value: P33062  
ID Name: EPA IDENTIFICATION NUMBER  
ID Value: CAD980815104  
Alternate Name: ZENITH PROCESSING CORPORATIONINTRADECOCORNELL-DUBILIER ELECTRONICS  
Special Programs Code: CERC2  
Special Programs Name: CERCLA II

**DEED:**

Envirostor ID: 19360279  
Area: PROJECT WIDE  
Sub Area: Not reported  
Site Type: STATE RESPONSE  
Status: ACTIVE  
Agency: Not reported  
Covenant Uploaded: Not reported  
Deed Date(s): 09/18/2007

Envirostor ID: 19360279  
Area: PROJECT WIDE  
Sub Area: Not reported  
Site Type: STATE RESPONSE  
Status: ACTIVE  
Agency: Not reported  
Covenant Uploaded: Not reported  
Deed Date(s): 08/22/2007

Envirostor ID: 19360279  
Area: PROJECT WIDE  
Sub Area: Not reported  
Site Type: STATE RESPONSE  
Status: ACTIVE  
Agency: Not reported  
Covenant Uploaded: Not reported  
Deed Date(s): 08/22/2007

**CORTESE:**

Region: CORTESE  
Envirostor Id: 19360279  
Site/Facility Type: STATE RESPONSE

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CORNELL-DUBILIER ELECTRONICS DIV (Continued)**

**1000312751**

Cleanup Status: ACTIVE - LAND USE RESTRICTIONS  
 Status Date: 04/14/2015  
 Site Code: 300040  
 Latitude: 33.988980  
 Longitude: -118.44116  
 Owner: Not reported  
 Enf Type: Not reported  
 Swat R: Not reported  
 Flag: enviostor  
 Order No: Not reported  
 Waste Discharge System No: Not reported  
 Effective Date: Not reported  
 Region 2: Not reported  
 WID Id: Not reported  
 Solid Waste Id No: Not reported  
 Waste Management Uit Name: Not reported

**HIST CORTESE:**

Region: CORTESE  
 Facility County Code: 19  
 Reg By: CALSI  
 Reg Id: 19360279

**D25  
 WNW  
 1/2-1  
 0.929 mi.  
 4907 ft.**

**CORNELL-DUBILIER ELECTRONICS  
 4144 GLENCOE AVENUE  
 VENICE, CA 90292  
 Site 3 of 3 in cluster D**

**CA BOND EXP. PLAN S100833295  
 N/A**

**Relative:  
 Higher**

**CA BOND EXP. PLAN:**

Responsible Party: RESPONSIBLE PARTY-LEAD SITE CLEANUP WORKPLAN

Project Revenue Source Company: Not reported

Project Revenue Source Addr: Not reported

Project Revenue Source City,St,Zip: Not reported

Project Revenue Source Desc: The DHS will be issuing a remedial action order or entering into an enforceable agreement with the PRPs. DHS has budgeted \$50,000 for oversight/monitoring of the PRPs' activities. DHS will recover 100 percent of the costs plus staff costs and overhead related to this project. The PRPs will pay all costs associated with remedial investigation and cleanup activities.

**Actual:  
 23 ft.**

Site Description: The 1.4 acre site is the former location for Cornell-Dubilier Electronics which operated from 1955 to 1971. The property has changed ownership several times since Cornell-Dubilier ceased operations at the site.

Hazardous Waste Desc: Solvents including trichloroethylene (TEC) and 1,1,1 trichloroethane (TCA) were used as degreaser agents to clean finished electronic equipment and were disposed of onsite. Polychlorinated biphenyls (PCBs) were also used at the site and have been detected in surface soils in concentrations as high as 1200 parts per million (ppm).

Threat To Public Health & Env: The site is located close to residential areas. There is surface contamination which may result in offsite migration through storm water runoff. There is potential for wind blown dispersal of PCBs.

Site Activity Status: A Preliminary site investigation was initiated by the potentially responsible parties (PRPs) in September, 1987. Soil samples have been obtained and ground water monitoring wells are currently being installed.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

26  
 South  
 1/2-1  
 0.981 mi.  
 5182 ft.

**CENTRAL REGION ELEMENTARY SCHOOL #22 (PLAYA VISTA)**  
**13150 WEST BLUFF CREEK DRIVE**  
**LOS ANGELES, CA 90094**

**CA ENVIROSTOR** S110445638  
**CA SCH** N/A

**Relative:**  
**Lower**

ENVIROSTOR:

**Actual:**  
**11 ft.**

Facility ID: 60000645  
 Status: Certified / Operation & Maintenance  
 Status Date: 01/27/2014  
 Site Code: 304564  
 Site Type: School Cleanup  
 Site Type Detailed: School  
 Acres: 4.08  
 NPL: NO  
 Regulatory Agencies: SMBRP  
 Lead Agency: SMBRP  
 Program Manager: Triss Chesney  
 Supervisor: Yolanda Garza  
 Division Branch: Southern California Schools & Brownfields Outreach  
 Assembly: 62  
 Senate: 26  
 Special Program: Not reported  
 Restricted Use: NO  
 Site Mgmt Req: NONE SPECIFIED  
 Funding: School District  
 Latitude: 33.96831  
 Longitude: -118.4245  
 APN: 4211-013-900  
 Past Use: LDF, OIL FIELD, UNKNOWN, UNKNOWN  
 Potential COC: Benzene Methane TPH-diesel TPH-gas TPH-MOTOR OIL Trichloroethylene  
 (TCE Vinyl chloride 1,2-Dichloroethylene (cis 1,2-Dichloroethylene  
 (trans Hydrogen sulfide Under Investigation  
 Confirmed COC: Benzene Methane TPH-diesel 30025-NO Hydrogen sulfide  
 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans 3002502-NO  
 Trichloroethylene (TCE Vinyl chloride  
 Potential Description: OTH, SOIL, SV, UE  
 Alias Name: CRES #22  
 Alias Type: Alternate Name  
 Alias Name: CRES 22  
 Alias Type: Alternate Name  
 Alias Name: Central Region Elementary School #22  
 Alias Type: Alternate Name  
 Alias Name: Central Regional Elementary School #22  
 Alias Type: Alternate Name  
 Alias Name: Playa Vista Elementary School  
 Alias Type: Alternate Name  
 Alias Name: Tract No. 49104 Lot 6  
 Alias Type: Alternate Name  
 Alias Name: 4211-013-900  
 Alias Type: APN  
 Alias Name: SL2043W1573  
 Alias Type: GeoTracker Global ID  
 Alias Name: 304564  
 Alias Type: Project Code (Site Code)  
 Alias Name: 60000645  
 Alias Type: Envirostor ID Number  
 Alias Name: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=SL203W1573](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SL203W1573)

**CENTRAL REGION ELEMENTARY SCHOOL #22 (PLAYA VISTA) (Continued)**

**S110445638**

Alias Type: External Website Link / URL

Completed Info:

Completed Area Name: PROJECT WIDE

Completed Sub Area Name: Not reported

Completed Document Type: Environmental Oversight Agreement

Completed Date: 02/10/2000

Comments: On February 10, 2000, a Master Environmental Oversight Agreement became effective for DTSC's oversight of numerous proposed and existing schools sites with the Los Angeles Unified School District (LAUSD) for which Preliminary Endangerment Assessments have or will be conducted.

Completed Area Name: Lot 6 - School

Completed Sub Area Name: Not reported

Completed Document Type: School Cleanup Agreement

Completed Date: 09/17/2009

Comments: Not reported

Completed Area Name: PROJECT WIDE

Completed Sub Area Name: Not reported

Completed Document Type: Annual Oversight Cost Estimate

Completed Date: 09/22/2015

Comments: Annual Cost Estimate emailed and mailed to LAUSD.

Completed Area Name: PROJECT WIDE

Completed Sub Area Name: Not reported

Completed Document Type: Correspondence

Completed Date: 12/03/2015

Comments: Not reported

Completed Area Name: Lot 6 - School

Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Initial Study/ Neg. Declaration

Completed Date: 08/06/2009

Comments: Copies of the Initial Study and draft Negative Declaration forwarded to the SCH on 8/6/2009.

Completed Area Name: Lot 6 - School

Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Initial Study/ Neg. Declaration

Completed Date: 03/02/2010

Comments: Final Negative Declaration signed by J. Hinojosa on 2/26/2010.

Completed Area Name: Lot 6 - School

Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Report

Completed Date: 05/16/2008

Comments: Not reported

Completed Area Name: PROJECT WIDE

Completed Sub Area Name: Not reported

Completed Document Type: \*Correspondence - Received

Completed Date: 09/13/2007

Comments: On September 13, 2007, Patricia McPherson with Grassroots Coalition reviewed DTSC's public files for the CRES #22 (Playa Vista) project and was provided an electronic copy the PEA report for Lot 6 and the PEA report for Lot 7. In addition, Ms. McPherson provided DTSC a

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTRAL REGION ELEMENTARY SCHOOL #22 (PLAYA VISTA) (Continued)**

**S110445638**

folder of various documents regarding the Playa Vista project.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \*Correspondence - Received  
Completed Date: 10/11/2007  
Comments: Not reported

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Supplemental Site Investigation Workplan  
Completed Date: 05/16/2008  
Comments: An e-mail concurrence was sent to the District regarding the PEA/SSI Workplan.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Supplemental Site Investigation Report  
Completed Date: 02/17/2009  
Comments: Not reported

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 07/25/2008  
Comments: Fieldwork has been completed.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 08/03/2010  
Comments: DTSC approves RDD as final and LAUSD may start construction of the gas mitigation system, provided applicable local requirements are met. Since the gas mitigation system is integrated into construction of the school, LAUSD may proceed with school construction.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Plan  
Completed Date: 07/03/2012  
Comments: DTSC approves Operation and Maintenance Plan for operation, maintenance, inspection, and monitoring of the implemented remedy. The implemented remedy includes: (1) gas mitigation system, (2) subsurface deep vent wells, (3) soil gas probes, and (4) groundwater monitoring wells.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Plan  
Completed Date: 12/31/2009  
Comments: Final RAP approval for implementation forwarded to RP on 12/31/2009.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Fact Sheets  
Completed Date: 09/10/2009  
Comments: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTRAL REGION ELEMENTARY SCHOOL #22 (PLAYA VISTA) (Continued)**

**S110445638**

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Fact Sheets  
Completed Date: 09/10/2009  
Comments: Not reported

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Completion Report  
Completed Date: 08/18/2010  
Comments: DTSC approves this Revised RACR. Soil contaminated with petroleum hydrocarbons and vinyl chloride was excavated from four areas, BH-1, BH-10, BH-26, and SGP-3. Confirmation soil and soil vapor sampling confirmed remedial action objectives were met. RACR for second phase of remedial activities should include: (1) abandonment of off-site vapor probes, SGP-41, SGP-42, and SGP-43, (2) installation and baseline sampling of soil vapor probes for Area SGP-3, (3) installation and baseline sampling of groundwater monitoring wells, (4) construction and start-up of gas mitigation system, and (5) finalization of Operation and Maintenance Plan and associated agreement.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Completion Report  
Completed Date: 06/29/2012  
Comments: DTSC concurs with conclusions and recommendations and approves the RACR with the following conditions: (1) an Operation and Maintenance Plan is approved by DTSC; (2) an Operation and Maintenance Agreement between LAUSD and DTSC is executed; (3) outstanding modification to the HVAC system will be completed prior to the start of school on August 14, 2012. The following conclusions are provided in the RACR: (1) the gas mitigation system is substantially complete and has been constructed in accordance with the DTSC-approved Remedial Design; (2) gas mitigation measures are intended to reduce potential risks to acceptable levels; and (3) start-up testing demonstrated that methane, hydrogen sulfide, and volatile organic compounds were not detected above site-specific action levels. The RACR recommends that the Site be certified safe for occupancy and that routine inspection and monitoring be conducted in accordance with the Operation and Maintenance Plan being finalized.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 03/21/2012  
Comments: Not reported

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: 4.15 Request  
Completed Date: 10/20/2009  
Comments: Not reported

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: \*Correspondence - Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTRAL REGION ELEMENTARY SCHOOL #22 (PLAYA VISTA) (Continued)**

**S110445638**

Completed Date: 01/12/2010  
Comments: Not reported

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Work Notice  
Completed Date: 09/30/2010  
Comments: Not reported

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 06/29/2012  
Comments: Construction of the school and the integrated gas mitigation system were completed on June 29, 2012.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 04/30/2012  
Comments: Field work associated with Startup Workplan complete. Final DTSC letter not needed. Activities will be documented in the Gas Mitigation System Start-up Testing Report.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Report  
Completed Date: 06/29/2012  
Comments: The final version of the Gas Mitigation System Start-up Testing Report was included as Appendix O in the Final Remedial Action Completion Report approved on June 29, 2012.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 01/31/2013  
Comments: In general, DTSC concurs with the conclusions and recommendations and hereby approves the Operation and Maintenance report.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 01/31/2013  
Comments: In general, DTSC concurs with the conclusions and recommendations and hereby approves the Operation and Maintenance report.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 03/21/2013  
Comments: In general, DTSC concurs with the conclusions and recommendations and hereby approves the Operation and Maintenance Report for First Quarter 2013.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report

MAP FINDINGS

**CENTRAL REGION ELEMENTARY SCHOOL #22 (PLAYA VISTA) (Continued)**

**S110445638**

Completed Date: 10/01/2013  
 Comments: The report indicates that the past four quarters of monitoring have demonstrated that volatile organic compounds in groundwater do not pose a health risk to occupants of the Site. The report also recommends that future groundwater monitoring be assumed by others under oversight of the Los Angeles Regional Water Quality Control Board (LA-RWQCB). DTSC concurs with the conclusions and recommendations and hereby approves the report. Additionally, DTSC is coordinating referral of additional investigation and cleanup of off-site groundwater contamination extending beneath the Site to LA-RWQCB under Cleanup and Abatement Order No. 98-125.

Completed Area Name: Lot 6 - School  
 Completed Sub Area Name: Groundwater  
 Completed Document Type: Technical Report  
 Completed Date: 11/28/2012  
 Comments: DTSC reviewed the "Report Documenting Results of Off-site Investigation Activities, Northern Portion of Lot 6, Track 49104 (School Site), Playa Vista, California, Site Id No. 2403W00," prepared by Cam Dresser & McKee, Inc. (CDM) on behalf of Playa Capital Company, LLC, dated May 2, 2011, under the direction of the Regional Water Quality Control Board (RWQCB), Los Angeles Region. Based on review of the report, DTSC forwarded a letter to update the RWQCB about the activities and findings of quarterly groundwater and soil gas monitoring conducted at Playa Vista Elementary School (formerly Central Region Elementary School No. 22) under DTSC oversight. This information, from the school site, may help RWQCB evaluate any future action for off-site groundwater contamination, located north of the school site. Off-site groundwater contamination is being addressed by Playa Capital Company, LLC, pursuant to RWQCB Cleanup and Abatement Order No. 98-125.

Completed Area Name: Lot 6 - School  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Operations and Maintenance Report  
 Completed Date: 01/31/2013  
 Comments: In general, DTSC concurs with the conclusions and recommendations and hereby approves the Operation and Maintenance report.

Completed Area Name: Lot 6 - School  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Operations and Maintenance Report  
 Completed Date: 01/31/2013  
 Comments: In general, DTSC concurs with the conclusions and recommendations and hereby approves the Operation and Maintenance report.

Completed Area Name: Lot 6 - School  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Operations and Maintenance Report  
 Completed Date: 01/31/2013  
 Comments: In general, DTSC concurs with the conclusions and recommendations and hereby approves the Operation and Maintenance report. Further, in an email dated January 11, 2013, DTSC concurred with the recommendation to discontinue monitoring of SV-6 and SV-7 during the monitoring events scheduled for January and April 2013 based on the following considerations: Collection of soil gas samples from soil gas probes at SV-6 and SV-7 has been difficult due to the presence of high



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTRAL REGION ELEMENTARY SCHOOL #22 (PLAYA VISTA) (Continued)**

**S110445638**

vacuum and water in the probes. The next two monitoring events in January and April 2013 are scheduled during the rainy season, it is very likely that high vacuum and water will continue to prevent the collection of soil gas samples from SV-6 and SV-7. Air samples from vent risers beneath school buildings are monitored quarterly for VOCs to comply with the applicable permit from South Coast Air Quality Management District. However, DTSC recommends that LAUSD continue to inspect and maintain soil gas probes SV-6 and SV-7. DTSC also recommends that LAUSD attempt to collect soil gas samples from SV-6 and SV-7 during a drier season, in July 2013. If samples cannot be collected due to high vacuum and water, LAUSD may consult with DTSC to determine if soil gas sampling of SV-6 and SV-7 may be discontinued.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 01/31/2013  
Comments: In general, DTSC concurs with the conclusions and recommendations and hereby approves the Operation and Maintenance report.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Workplan  
Completed Date: 06/07/2012  
Comments: DTSC has no comments since the proposed alternative enhanced ventilation design will comply with the requirements in the Los Angeles Department of Building and Safety Standard Plan for Methane Hazard Mitigation. Please incorporate this information into the Remedial Action Completion Report.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Soil  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 04/01/2014  
Comments: On December 10, 2013, DTSC concurred by email with the following recommendations provided in the report: Action Item 2: Los Angeles Unified School District recommended reprogramming the gas mitigation system (GMS) detection system so that HVAC enhanced ventilation is only activated in the event of a high level gas alarm. DTSC concurred with this change based on the layers of protection provided by the GMS, consideration of more energy efficient operations, and consistency with other Los Angeles Unified School District schools. Action Item 6: Los Angeles Unified School District requested DTSC approval to discontinue monitoring two soil gas probes, SV-6 and SV-7, for volatile organic compounds. DTSC concurred with this change due to the continuing problem of encountering water in the probes. This is consistent with discussion in previous Operation and Maintenance Reports. With this change, DTSC recommended that Los Angeles Unified School District evaluate the possibility of periodically analyzing samples from the sub-slab sample piping for volatile organic compounds. DTSC concurs with the remaining conclusions and recommendations and hereby approves the report.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Soil  
Completed Document Type: Operations and Maintenance Report

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTRAL REGION ELEMENTARY SCHOOL #22 (PLAYA VISTA) (Continued)**

**S110445638**

Completed Date: 04/01/2014  
Comments: As operation and maintenance activities continue, DTSC recommends incorporating the following items in future reports: 1. Section 4.3.6.2, Building Sub-Slab Monitoring (volatile organic compounds or VOCs): Low levels of acetone, carbon disulfide, dichlorodifluoromethane, and toluene were detected in sub-slab air samples. These compounds were detected just above the method detection limits and do not pose a risk. In the future, it would be helpful to explain these detections in the context of common laboratory contaminants, blank samples, and laboratory control samples. 2. Section 4.3.6.1, Probes SV-1 to SV-5 (Methane and Hydrogen Sulfide), page 23: Methane concentrations detected in soil gas probes SV-3 and SV-5 have increased. DTSC understands that these concentrations are consistent with methane detected on-site during the Supplemental Site Investigation conducted in 2008. In the future, it might also be helpful to explain these results in the context of associated low oxygen levels and concentrations of methane detected in samples collected from associated passive vent risers. DTSC recommends evaluation of associated passive vent risers to verify connectivity and to maximize efficiency of passive venting. On February 24, 2014, DTSC concurred by email with the following recommendations provided in the report to help Los Angeles Unified School District (LAUSD) plan for the next operation and maintenance event: Section 1.6, Approved Modifications to the O&M Program, page 4: LAUSD implemented analysis of samples from sub-slab probes for volatile organic compounds (VOCs). LAUSD proposes continuing this sampling on a quarterly basis for one year or until data confirm that VOCs in groundwater are not migrating upwards and collecting beneath the Administration/Library/Classroom Building. At that point, the data should be assessed, in consultation with DTSC, to determine if changes are needed. Section 6.2, Recommendations, New Action Items, page 35: LAUSD recommends reducing the frequency of gas detection sensor calibration and related functional tests from quarterly to semi-annually, starting with the operation and maintenance event for the first quarter of 2014. This change is consistent with operation and maintenance of gas mitigation systems at other school sites. Additionally, the sub-slab gas detection probes are being used under relatively clean conditions (non-industrial) and sensor transmitters have self-diagnosing electronics that will automatically identify and alert the operator of critical faults. Periodic calibration will still be conducted to correct for sensor drift. DTSC concurs with the remaining conclusions and recommendations and hereby approves the report.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Soil  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 04/23/2014  
Comments: This Operation and Maintenance Report for first quarter 2014 adequately addresses DTSC recommendations forwarded in the April 1, 2014 approval letter for the previous quarterly report, "Operation and Maintenance Report, Fourth Quarter 2013." Further, DTSC concurs with the conclusions and recommendations and hereby approves the report.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTRAL REGION ELEMENTARY SCHOOL #22 (PLAYA VISTA) (Continued)**

**S110445638**

Completed Document Type: Technical Report  
Completed Date: 01/22/2014  
Comments: DTSC has determined that the conditions provided in the DTSC conditional approval letter for the RACR, dated June 29, 2012, have been adequately addressed. Based on this information, the status of the site will be changed to certified with operation and maintenance. LAUSD will continue operation and maintenance of the subsurface gas mitigation system in accordance with the DTSC-approved Operation and Maintenance Plan. Further action for contaminated groundwater that originates from off-site is being coordinated with the Los Angeles Regional Water Quality Control Board. Monitoring at the site indicates that potential off-gassing from contaminated groundwater does not currently pose an exposure risk to school occupants.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Soil  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 06/17/2015  
Comments: Not reported

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Soil  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 06/17/2015  
Comments: Los Angeles Unified School District incorporated DTSC recommendations for Action Items 14 and 15 forwarded by email on November 14, 2014. As a result, DTSC concurs with the conclusion that based on results of inspection and monitoring presented in the document, the Site remains safe for continued use by school occupants. DTSC also concurs with the recommendation that inspection and monitoring of the gas mitigation system should continue in accordance with the DTSC-approved Operation and Maintenance Plan and approved modifications.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Soil  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 06/17/2015  
Comments: Not reported

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Soil  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 06/17/2015  
Comments: The report, Playa Vista Elementary School 1st Quarter 2015 Gas Mitigation System Inspection Report, dated May 14, 2015, summarizes alarm history, incidents, and maintenance activities, for the gas mitigation system during the first quarter of 2015. The contents of this report are concise and useful to track operation and maintenance of the system. DTSC understands that this information will be included in the next Semi-Annual Operation and Maintenance Report. DTSC does not have additional comments on the document.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Soil  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 10/29/2015

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTRAL REGION ELEMENTARY SCHOOL #22 (PLAYA VISTA) (Continued)**

**S110445638**

Comments: Not reported

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Soil  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 11/06/2015  
Comments: Not reported

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Groundwater  
Completed Document Type: Technical Workplan  
Completed Date: 10/15/2014  
Comments: DTSC notified RWQCB that DTSC PM and Geology do not have significant comments on the proposed Remedial Action Plan.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Groundwater  
Completed Document Type: Technical Workplan  
Completed Date: 11/21/2014  
Comments: DTSC forwarded comments on the RAP and RAP Addendum for the Off School Site Area.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Groundwater  
Completed Document Type: Technical Workplan  
Completed Date: 06/08/2015  
Comments: Not reported

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Groundwater  
Completed Document Type: Technical Workplan  
Completed Date: 06/23/2015  
Comments: RWQCB provided conditional approval of the "Performance Monitoring and Contingency Plan" following notification from that DTSC has no additional comments at this time. In the conditional approval letter, RWQCB specified, in Item 4, "The Regional Board concurs with Playa's contingency proposed in the response to DTSC comments dated May 7, 2015. The source of the groundwater contamination at the Site remains unidentified. First quarter 2015 groundwater analytical results for OSS-EW-1 indicate a cis-1,2-dichloroethene (cis-1,2-DCE) concentration of 970 micrograms per liter (ug/l) and a vinyl chloride concentration of 20 ug/L, above their respective California Title 22 Maximum Contaminant Levels (MCLs) of 6 u[g]/L and 0.5 u[g]/L. In addition, the PMCP and Playa's May 7, 2015 response estimate a very low pumping rate of 0.25 gallons per minute (gpm) or less from the one well system. Therefore, if concentrations of COCs do not decline within the OSS monitoring well network, then additional site investigation, additional groundwater monitoring wells, and/or additional extraction wells, may be necessary to address groundwater contamination at the Site."

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Soil  
Completed Document Type: Fieldwork  
Completed Date: 08/13/2015  
Comments: Field activities for Semi-Annual Operation and Maintenance Activities was conducted on 8/6/15 (functional testing of gas mitigation system)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTRAL REGION ELEMENTARY SCHOOL #22 (PLAYA VISTA) (Continued)**

**S110445638**

and soil gas probe monitoring), 8/11/15 (passive vent riser monitoring and sub-slab sampling), and 8/14/15 (active vent riser monitoring). DTSC provided oversight on 8/6/15 and 8/11/15. This is the first monitoring event with LAUSD's new consultant, Clark Seif Clark.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Operation & Maintenance Order/Agreement  
Completed Date: 02/25/2013  
Comments: Fully executed O&M agreement sent (FedEx) to District.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Soil  
Completed Document Type: Certification  
Completed Date: 01/27/2014  
Comments: DTSC has determined that all appropriate remedial actions have been completed; however, the site requires ongoing operation and maintenance for the subsurface gas mitigation system. LAUSD will continue operation and maintenance of the subsurface gas mitigation system in accordance with the DTSC-approved Operation and Maintenance Plan. Further action for groundwater that originates from off-site is being coordinated with the Los Angeles Regional Water Quality Control Board. Monitoring at the site indicates that potential off-gassing from contaminated groundwater does not currently post an exposure risk to school occupants.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 11/30/2012  
Comments: DTSC reviewed LAUSD notification and follow-up. Issued was addressed. DTSC did not have any comments.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 02/08/2013  
Comments: DTSC concurs with recommendation to continue quarterly monitoring, without changes. Please incorporate th information into the next Quarterly Operation and Maintenance Report.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 11/27/2012  
Comments: DTSC reviewed LAUSD notification and follow-up. Issued was addressed. DTSC did not have any comments.

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 12/04/2012  
Comments: DTSC reviewed LAUSD notification and follow-up. Issued was addressed. DTSC did not have any comments.

Completed Area Name: Lot 6 - School

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTRAL REGION ELEMENTARY SCHOOL #22 (PLAYA VISTA) (Continued)**

**S110445638**

Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 09/08/2014  
Comments: Not reported

Completed Area Name: Lot 6 - School  
Completed Sub Area Name: Groundwater  
Completed Document Type: Correspondence  
Completed Date: 04/29/2014  
Comments: Email from Los Angeles Regional Water Quality Control Board (LA-RWQCB) stated that, based on verbal communication and in accordance with the current Cleanup and Abatement Order (CAO-No. 98-125, File No. 98-192), Playa Capital Company plans to submit a groundwater remediation and monitoring work plan to address the school site by end of May 2014. LA-RWQCB will review the work plan for approval and notify DTSC regarding next steps at the site.

Future Area Name: Lot 6 - School  
Future Sub Area Name: Soil  
Future Document Type: 5 Year Review Reports  
Future Due Date: 2018  
Future Area Name: Lot 6 - School  
Future Sub Area Name: Soil  
Future Document Type: Operations and Maintenance Report  
Future Due Date: 2016  
Future Area Name: Lot 6 - School  
Future Sub Area Name: Soil  
Future Document Type: Operations and Maintenance Report  
Future Due Date: 2017  
Future Area Name: Lot 6 - School  
Future Sub Area Name: Soil  
Future Document Type: Operations and Maintenance Report  
Future Due Date: 2017  
Future Area Name: Lot 6 - School  
Future Sub Area Name: Soil  
Future Document Type: Operations and Maintenance Report  
Future Due Date: 2016  
Future Area Name: Lot 6 - School  
Future Sub Area Name: Groundwater  
Future Document Type: Operations and Maintenance Report  
Future Due Date: 2017  
Schedule Area Name: Lot 6 - School  
Schedule Sub Area Name: Soil  
Schedule Document Type: Operations and Maintenance Report  
Schedule Due Date: 06/30/2016  
Schedule Revised Date: Not reported  
Schedule Area Name: Lot 6 - School  
Schedule Sub Area Name: Groundwater  
Schedule Document Type: Operations and Maintenance Plan  
Schedule Due Date: 06/30/2016  
Schedule Revised Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTRAL REGION ELEMENTARY SCHOOL #22 (PLAYA VISTA) (Continued)**

**S110445638**

SCH:

Facility ID: 60000645  
Site Type: School Cleanup  
Site Type Detail: School  
Site Mgmt. Req.: NONE SPECIFIED  
Acres: 4.08  
National Priorities List: NO  
Cleanup Oversight Agencies: SMBRP  
Lead Agency: SMBRP  
Lead Agency Description: DTSC - Site Cleanup Program  
Project Manager: Triss Chesney  
Supervisor: Yolanda Garza  
Division Branch: Southern California Schools & Brownfields Outreach  
Site Code: 304564  
Assembly: 62  
Senate: 26  
Special Program Status: Not reported  
Status: Certified / Operation & Maintenance  
Status Date: 01/27/2014  
Restricted Use: NO  
Funding: School District  
Latitude: 33.96831  
Longitude: -118.4245  
APN: 4211-013-900  
Past Use: LDF, OIL FIELD, UNKNOWN, UNKNOWN  
Potential COC: Benzene, Methane, TPH-diesel, TPH-gas, TPH-MOTOR OIL, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, 1,2-Dichloroethylene (trans, Hydrogen sulfide, Under Investigation

27  
WNW  
1/2-1  
0.984 mi.  
5193 ft.

**WESTERN CIRCUITS INC**  
4136 DEL REY  
VENICE, CA 90291

**SEMS-ARCHIVE 1000402992**  
**CORRACTS CAD062092259**  
**RCRA-SQG**  
**ECHO**

**Relative:  
Higher**

SEMS-ARCHIVE:  
Site ID: 900222  
EPA ID: CAD062092259  
Federal Facility: N  
NPL: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

**Actual:  
19 ft.**

**Following information was gathered from the prior CERCLIS update completed in 10/2013:**

Site ID: 0900222  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID: 13285241.00000  
Person ID: 13003854.00000

Contact Sequence ID: 13290836.00000  
Person ID: 13003858.00000

Contact Sequence ID: 13296694.00000  
Person ID: 13004003.00000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WESTERN CIRCUITS INC (Continued)**

**1000402992**

Program Priority:  
Description: RCRA Deferral Audit  
  
Description: RCRA Deferral - New Decision  
  
Description: RCRA Deferral - Further Superfund Assessment

CERCLIS-NFRAP Assessment History:  
Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 03/17/91  
Priority Level: Deferred to RCRA (Subtitle C)

Action: ARCHIVE SITE  
Date Started: / /  
Date Completed: 01/23/96  
Priority Level: Not reported

Action: DISCOVERY  
Date Started: / /  
Date Completed: 08/24/90  
Priority Level: Not reported

**CORRACTS:**

EPA ID: CAD062092259  
EPA Region: 09  
Area Name: ENTIRE FACILITY  
Actual Date: 19910410  
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority  
NAICS Code(s): 334412 334419  
Bare Printed Circuit Board Manufacturing  
Other Electronic Component Manufacturing  
Original schedule date: Not reported  
Schedule end date: Not reported

**RCRA-SQG:**

Date form received by agency: 09/01/1996  
Facility name: WESTERN CIRCUITS INC  
Facility address: 4136 DEL REY  
VENICE, CA 90291  
EPA ID: CAD062092259  
Mailing address: DEL REY  
VENICE, CA 90291  
Contact: Not reported  
Contact address: Not reported  
Not reported  
Contact country: US  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 09  
Land type: Facility is not located on Indian land. Additional information is not known.  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WESTERN CIRCUITS INC (Continued)**

**1000402992**

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: WESTERN CIRCUITS INC  
Owner/operator address: 4136 DEL REY  
VENICE, CA 90291  
Owner/operator country: Not reported  
Owner/operator telephone: (213) 870-2784  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: WESTERN CIRCUITS INC  
Owner/operator address: 4136 DEL REY  
VENICE, CA 90291  
Owner/operator country: Not reported  
Owner/operator telephone: (213) 870-0795  
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

**Historical Generators:**

Date form received by agency: 04/16/1990  
Site name: WESTERN CIRCUITS INC  
Classification: Large Quantity Generator

**Corrective Action Summary:**

Event date: 04/10/1991  
Event: CA049PA  
  
Event date: 04/10/1991  
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WESTERN CIRCUITS INC (Continued)**

**1000402992**

Event date: 04/10/1991  
Event: CA074LO

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: TSD - Financial Requirements  
Date violation determined: 01/01/2001  
Date achieved compliance: 01/01/2001  
Violation lead agency: EPA  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Financial Requirements  
Date violation determined: 11/13/1991  
Date achieved compliance: 09/03/1992  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Closure/Post-Closure  
Date violation determined: 11/13/1991  
Date achieved compliance: 09/03/1992  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Financial Requirements  
Date violation determined: 01/31/1989  
Date achieved compliance: 09/03/1992  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WESTERN CIRCUITS INC (Continued)**

**1000402992**

Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Financial Requirements  
Date violation determined: 01/31/1989  
Date achieved compliance: 09/03/1992  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 04/13/1988  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Manifest/Records/Reporting  
Date violation determined: 01/10/1989  
Date achieved compliance: 09/03/1992  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 02/24/1989  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 01/10/1989  
Date achieved compliance: 09/03/1992  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 01/10/1989  
Date achieved compliance: 09/03/1992  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 02/24/1989  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WESTERN CIRCUITS INC (Continued)**

**1000402992**

Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Manifest/Records/Reporting  
Date violation determined: 01/10/1989  
Date achieved compliance: 09/03/1992  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 11/21/1991  
Evaluation: FINANCIAL RECORD REVIEW  
Area of violation: TSD - Financial Requirements  
Date achieved compliance: 01/01/2001  
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 05/09/1991  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: TSD - Closure/Post-Closure  
Date achieved compliance: 09/03/1992  
Evaluation lead agency: State

Evaluation date: 05/09/1991  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: TSD - Financial Requirements  
Date achieved compliance: 09/03/1992  
Evaluation lead agency: State

Evaluation date: 01/31/1989  
Evaluation: FINANCIAL RECORD REVIEW  
Area of violation: TSD - Financial Requirements  
Date achieved compliance: 09/03/1992  
Evaluation lead agency: State

Evaluation date: 01/10/1989  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Manifest/Records/Reporting  
Date achieved compliance: 09/03/1992  
Evaluation lead agency: State

Evaluation date: 01/10/1989  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 09/03/1992  
Evaluation lead agency: State

ECHO:

Envid: 1000402992  
Registry ID: 110064126903  
DFR URL: [http://echo.epa.gov/detailed\\_facility\\_report?fid=110064126903](http://echo.epa.gov/detailed_facility_report?fid=110064126903)

Count: 4 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CULVER CITY	S109548326	HUGHES AIRCRAFT COMPANY CULVER CIT	CENTINELA AND TEALE STREETS	90230	CA ENVIROSTOR
LOS ANGELES	S101481035	WESTCHESTER 3 ACRE PROPERTY	ARIZONA CIR, ARIZONA AVE & CEN	90045	CA ENVIROSTOR
MARINA DEL REY	1008879688	PLAYA VISTA	COASTAL PROP NEAR MARINA DEL R	90292	SEMS-ARCHIVE
PLAYA DEL REY	S106387056	SOUTHERN CALIFORNIA GAS COMPANY	CULVER	90293	CA SLIC

# 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: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 04/18/2016
	Data Release Frequency: Quarterly

#### **NPL Site Boundaries**

##### **Sources:**

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 04/18/2016
	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	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***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: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 04/18/2016
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/13/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/06/2016	Telephone: 703-603-8704
Date Made Active in Reports: 05/20/2016	Last EDR Contact: 04/08/2016
Number of Days to Update: 135	Next Scheduled EDR Contact: 07/18/2016
	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: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 08/01/2016
	Data Release Frequency: Quarterly

## ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 08/01/2016
	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: 12/09/2015	Source: EPA
Date Data Arrived at EDR: 03/02/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	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: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	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: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Quarterly



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Quarterly

## RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Varies

## ***Federal institutional controls / engineering controls registries***

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 05/16/2016
Number of Days to Update: 13	Next Scheduled EDR Contact: 08/29/2016
	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: 09/10/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/11/2015	Telephone: 703-603-0695
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 05/25/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 09/12/2016
	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: 09/10/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/11/2015	Telephone: 703-603-0695
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 05/25/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 09/12/2016
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/28/2016  
Date Data Arrived at EDR: 03/30/2016  
Date Made Active in Reports: 05/20/2016  
Number of Days to Update: 51

Source: National Response Center, United States Coast Guard  
Telephone: 202-267-2180  
Last EDR Contact: 03/30/2016  
Next Scheduled EDR Contact: 07/11/2016  
Data Release Frequency: Annually

## ***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: 02/01/2016  
Date Data Arrived at EDR: 02/03/2016  
Date Made Active in Reports: 03/22/2016  
Number of Days to Update: 48

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 05/04/2016  
Next Scheduled EDR Contact: 08/15/2016  
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 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.

Date of Government Version: 02/01/2016  
Date Data Arrived at EDR: 02/03/2016  
Date Made Active in Reports: 03/22/2016  
Number of Days to Update: 48

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 05/04/2016  
Next Scheduled EDR Contact: 08/15/2016  
Data Release Frequency: Quarterly

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

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/15/2016  
Date Data Arrived at EDR: 02/17/2016  
Date Made Active in Reports: 04/01/2016  
Number of Days to Update: 44

Source: Department of Resources Recycling and Recovery  
Telephone: 916-341-6320  
Last EDR Contact: 05/18/2016  
Next Scheduled EDR Contact: 08/29/2016  
Data Release Frequency: Quarterly

## ***State and tribal leaking storage tank lists***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 03/14/2016	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/16/2016	Telephone: see region list
Date Made Active in Reports: 05/16/2016	Last EDR Contact: 03/16/2016
Number of Days to Update: 61	Next Scheduled EDR Contact: 06/27/2016
	Data Release Frequency: Quarterly

## 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	Source: California Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 07/22/2008	Telephone: 916-464-4834
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 07/01/2011
Number of Days to Update: 9	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: No Update Planned

## LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6710
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/06/2011
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: No Update Planned

## LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-542-4786
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 07/18/2011
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: No Update Planned

## LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-622-2433
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Quarterly

## LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-570-3769
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/01/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/26/2011
	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	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-776-8943
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/01/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

## LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 08/15/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Varies

## 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	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 530-542-5572
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/12/2011
Number of Days to Update: 27	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	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001	Telephone: 858-637-5595
Date Made Active in Reports: 05/21/2001	Last EDR Contact: 09/26/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: No Update Planned

## INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-8677
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/26/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Semi-Annually

## 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: 10/27/2015	Source: EPA Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

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: 02/25/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3372
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

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: 02/17/2016	Source: EPA, Region 5
Date Data Arrived at EDR: 04/27/2016	Telephone: 312-886-7439
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 08/08/2016
	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: 10/09/2015	Source: EPA Region 7
Date Data Arrived at EDR: 02/12/2016	Telephone: 913-551-7003
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 112	Next Scheduled EDR Contact: 08/08/2016
	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: 10/13/2015	Source: EPA Region 8
Date Data Arrived at EDR: 10/23/2015	Telephone: 303-312-6271
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 118	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/19/2016	Telephone: 214-665-6597
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 105	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

SLIC: Statewide SLIC Cases

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: 03/14/2016	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/16/2016	Telephone: 866-480-1028
Date Made Active in Reports: 05/16/2016	Last EDR Contact: 03/16/2016
Number of Days to Update: 61	Next Scheduled EDR Contact: 06/27/2016
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003  
Date Data Arrived at EDR: 04/07/2003  
Date Made Active in Reports: 04/25/2003  
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)  
Telephone: 707-576-2220  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004  
Date Data Arrived at EDR: 10/20/2004  
Date Made Active in Reports: 11/19/2004  
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)  
Telephone: 510-286-0457  
Last EDR Contact: 09/19/2011  
Next Scheduled EDR Contact: 01/02/2012  
Data Release Frequency: Quarterly

## SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006  
Date Data Arrived at EDR: 05/18/2006  
Date Made Active in Reports: 06/15/2006  
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)  
Telephone: 805-549-3147  
Last EDR Contact: 07/18/2011  
Next Scheduled EDR Contact: 10/31/2011  
Data Release Frequency: Semi-Annually

## SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004  
Date Data Arrived at EDR: 11/18/2004  
Date Made Active in Reports: 01/04/2005  
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)  
Telephone: 213-576-6600  
Last EDR Contact: 07/01/2011  
Next Scheduled EDR Contact: 10/17/2011  
Data Release Frequency: Varies

## SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005  
Date Data Arrived at EDR: 04/05/2005  
Date Made Active in Reports: 04/21/2005  
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)  
Telephone: 916-464-3291  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: Semi-Annually

## SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005  
Date Data Arrived at EDR: 05/25/2005  
Date Made Active in Reports: 06/16/2005  
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch  
Telephone: 619-241-6583  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004  
Date Data Arrived at EDR: 09/07/2004  
Date Made Active in Reports: 10/12/2004  
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region  
Telephone: 530-542-5574  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004  
Date Data Arrived at EDR: 11/29/2004  
Date Made Active in Reports: 01/04/2005  
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region  
Telephone: 760-346-7491  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008  
Date Data Arrived at EDR: 04/03/2008  
Date Made Active in Reports: 04/14/2008  
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)  
Telephone: 951-782-3298  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: Semi-Annually

## SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007  
Date Data Arrived at EDR: 09/11/2007  
Date Made Active in Reports: 09/28/2007  
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)  
Telephone: 858-467-2980  
Last EDR Contact: 08/08/2011  
Next Scheduled EDR Contact: 11/21/2011  
Data Release Frequency: Annually

## **State and tribal registered storage tank lists**

### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010  
Date Data Arrived at EDR: 02/16/2010  
Date Made Active in Reports: 04/12/2010  
Number of Days to Update: 55

Source: FEMA  
Telephone: 202-646-5797  
Last EDR Contact: 04/11/2016  
Next Scheduled EDR Contact: 07/25/2016  
Data Release Frequency: Varies

### UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/14/2016  
Date Data Arrived at EDR: 03/16/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 49

Source: SWRCB  
Telephone: 916-341-5851  
Last EDR Contact: 03/16/2016  
Next Scheduled EDR Contact: 06/27/2016  
Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 08/01/2009	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2009	Telephone: 916-327-5092
Date Made Active in Reports: 10/01/2009	Last EDR Contact: 03/11/2016
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Quarterly

## 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: 09/23/2014	Source: EPA Region 7
Date Data Arrived at EDR: 11/25/2014	Telephone: 913-551-7003
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 04/29/2016
Number of Days to Update: 65	Next Scheduled EDR Contact: 08/08/2016
	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: 12/03/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/04/2016	Telephone: 214-665-7591
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 120	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Semi-Annually

## 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: 11/05/2015	Source: EPA Region 5
Date Data Arrived at EDR: 11/13/2015	Telephone: 312-886-6136
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/08/2016
	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: 10/20/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 08/08/2016
	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: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-9424
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/26/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Semi-Annually



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

## 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: 02/25/2016	Source: EPA Region 9
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3368
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

## 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: 01/26/2016	Source: EPA Region 8
Date Data Arrived at EDR: 02/05/2016	Telephone: 303-312-6137
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 119	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

## **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: 02/01/2016	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/03/2016	Telephone: 916-323-3400
Date Made Active in Reports: 03/22/2016	Last EDR Contact: 05/04/2016
Number of Days to Update: 48	Next Scheduled EDR Contact: 08/15/2016
	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	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/01/2016
Number of Days to Update: 142	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Varies

### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***State and tribal Brownfields sites***

### **BROWNFIELDS: Considered Brownfields 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: 02/29/2016  
Date Data Arrived at EDR: 03/07/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 58

Source: State Water Resources Control Board  
Telephone: 916-323-7905  
Last EDR Contact: 06/02/2016  
Next Scheduled EDR Contact: 09/19/2016  
Data Release Frequency: Varies

## **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: 12/22/2015  
Date Data Arrived at EDR: 12/23/2015  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 57

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 03/22/2016  
Next Scheduled EDR Contact: 07/04/2016  
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: 05/06/2016  
Next Scheduled EDR Contact: 08/22/2016  
Data Release Frequency: No Update Planned

#### **SWRCY: Recycler Database**

A listing of recycling facilities in California.

Date of Government Version: 03/15/2016  
Date Data Arrived at EDR: 03/16/2016  
Date Made Active in Reports: 05/09/2016  
Number of Days to Update: 54

Source: Department of Conservation  
Telephone: 916-323-3836  
Last EDR Contact: 03/16/2016  
Next Scheduled EDR Contact: 06/27/2016  
Data Release Frequency: Quarterly

#### **HAULERS: Registered Waste Tire Haulers Listing**

A listing of registered waste tire haulers.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/07/2016  
Date Data Arrived at EDR: 04/12/2016  
Date Made Active in Reports: 06/01/2016  
Number of Days to Update: 50

Source: Integrated Waste Management Board  
Telephone: 916-341-6422  
Last EDR Contact: 05/13/2016  
Next Scheduled EDR Contact: 08/22/2016  
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: 04/27/2016  
Next Scheduled EDR Contact: 08/15/2016  
Data Release Frequency: Varies

## DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 04/21/2016  
Next Scheduled EDR Contact: 08/08/2016  
Data Release Frequency: No Update Planned

## ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## **Local Lists of Hazardous waste / Contaminated Sites**

### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/18/2016  
Date Data Arrived at EDR: 03/07/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 88

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 03/01/2016  
Next Scheduled EDR Contact: 06/13/2016  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/01/2016  
Date Data Arrived at EDR: 02/03/2016  
Date Made Active in Reports: 03/22/2016  
Number of Days to Update: 48

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 05/04/2016  
Next Scheduled EDR Contact: 08/15/2016  
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: 09/30/2015  
Date Data Arrived at EDR: 01/19/2016  
Date Made Active in Reports: 03/22/2016  
Number of Days to Update: 63

Source: Department of Toxic Substances Control  
Telephone: 916-255-6504  
Last EDR Contact: 04/21/2016  
Next Scheduled EDR Contact: 07/25/2016  
Data Release Frequency: Varies

## TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995  
Date Data Arrived at EDR: 08/30/1995  
Date Made Active in Reports: 09/26/1995  
Number of Days to Update: 27

Source: State Water Resources Control Board  
Telephone: 916-227-4364  
Last EDR Contact: 01/26/2009  
Next Scheduled EDR Contact: 04/27/2009  
Data Release Frequency: No Update Planned

## US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/18/2016  
Date Data Arrived at EDR: 03/07/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 88

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 05/31/2016  
Next Scheduled EDR Contact: 09/12/2016  
Data Release Frequency: Quarterly

## **Local Lists of Registered Storage Tanks**

### SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994  
Date Data Arrived at EDR: 07/07/2005  
Date Made Active in Reports: 08/11/2005  
Number of Days to Update: 35

Source: State Water Resources Control Board  
Telephone: N/A  
Last EDR Contact: 06/03/2005  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 11/25/2015  
Date Data Arrived at EDR: 12/01/2015  
Date Made Active in Reports: 12/17/2015  
Number of Days to Update: 16

Source: Department of Public Health  
Telephone: 707-463-4466  
Last EDR Contact: 06/01/2016  
Next Scheduled EDR Contact: 09/12/2016  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/25/1991	Telephone: 916-341-5851
Date Made Active in Reports: 02/12/1991	Last EDR Contact: 07/26/2001
Number of Days to Update: 18	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## 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: 03/08/2016	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 03/11/2016	Telephone: 916-323-3400
Date Made Active in Reports: 05/04/2016	Last EDR Contact: 06/02/2016
Number of Days to Update: 54	Next Scheduled EDR Contact: 09/19/2016
	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: 02/18/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/18/2014	Telephone: 202-564-6023
Date Made Active in Reports: 04/24/2014	Last EDR Contact: 04/26/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

### 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: 03/07/2016	Source: DTSC and SWRCB
Date Data Arrived at EDR: 03/08/2016	Telephone: 916-323-3400
Date Made Active in Reports: 05/04/2016	Last EDR Contact: 06/07/2016
Number of Days to Update: 57	Next Scheduled EDR Contact: 09/19/2016
	Data Release Frequency: Semi-Annually

## Records of Emergency Release Reports

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 06/26/2015	Telephone: 202-366-4555
Date Made Active in Reports: 09/02/2015	Last EDR Contact: 03/30/2016
Number of Days to Update: 68	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Annually

## 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: 12/16/2015	Source: Office of Emergency Services
Date Data Arrived at EDR: 01/27/2016	Telephone: 916-845-8400
Date Made Active in Reports: 03/22/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

## LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 03/14/2016	Source: State Water Quality Control Board
Date Data Arrived at EDR: 03/16/2016	Telephone: 866-480-1028
Date Made Active in Reports: 05/16/2016	Last EDR Contact: 03/16/2016
Number of Days to Update: 61	Next Scheduled EDR Contact: 06/27/2016
	Data Release Frequency: Quarterly

## MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 03/14/2016	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/16/2016	Telephone: 866-480-1028
Date Made Active in Reports: 05/16/2016	Last EDR Contact: 03/16/2016
Number of Days to Update: 61	Next Scheduled EDR Contact: 06/27/2016
	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	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/09/2015  
Date Data Arrived at EDR: 03/02/2016  
Date Made Active in Reports: 04/05/2016  
Number of Days to Update: 34

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 03/30/2016  
Next Scheduled EDR Contact: 07/11/2016  
Data Release Frequency: Varies

## FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015  
Date Data Arrived at EDR: 07/08/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 03/11/2016  
Next Scheduled EDR Contact: 06/20/2016  
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: 04/15/2016  
Next Scheduled EDR Contact: 07/25/2016  
Data Release Frequency: Semi-Annually

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 02/06/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 339

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 04/15/2016  
Next Scheduled EDR Contact: 07/25/2016  
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: 03/07/2011  
Date Data Arrived at EDR: 03/09/2011  
Date Made Active in Reports: 05/02/2011  
Number of Days to Update: 54

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 05/20/2016  
Next Scheduled EDR Contact: 08/29/2016  
Data Release Frequency: Varies

## US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/01/2015  
Date Data Arrived at EDR: 09/03/2015  
Date Made Active in Reports: 11/03/2015  
Number of Days to Update: 61

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 05/18/2016  
Next Scheduled EDR Contact: 08/29/2016  
Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 05/09/2016
Number of Days to Update: 88	Next Scheduled EDR Contact: 08/22/2016
	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: 04/22/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2015	Telephone: 703-308-4044
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 05/12/2016
Number of Days to Update: 6	Next Scheduled EDR Contact: 08/22/2016
	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: 12/31/2012	Source: EPA
Date Data Arrived at EDR: 01/15/2015	Telephone: 202-260-5521
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 03/24/2016
Number of Days to Update: 14	Next Scheduled EDR Contact: 07/04/2016
	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: 12/31/2014	Source: EPA
Date Data Arrived at EDR: 11/24/2015	Telephone: 202-566-0250
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 05/24/2016
Number of Days to Update: 133	Next Scheduled EDR Contact: 09/05/2016
	Data Release Frequency: Annually

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 04/25/2016
Number of Days to Update: 77	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Annually



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 11/25/2013	Source: EPA
Date Data Arrived at EDR: 12/12/2013	Telephone: 703-416-0223
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 06/07/2016
Number of Days to Update: 74	Next Scheduled EDR Contact: 09/19/2016
	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: 08/01/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/26/2015	Telephone: 202-564-8600
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 04/25/2016
Number of Days to Update: 69	Next Scheduled EDR Contact: 08/08/2016
	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	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 05/12/2016
Number of Days to Update: 3	Next Scheduled EDR Contact: 08/22/2016
	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: 07/01/2014	Source: EPA
Date Data Arrived at EDR: 10/15/2014	Telephone: 202-566-0500
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 04/12/2016
Number of Days to Update: 33	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 01/23/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/06/2015	Telephone: 202-564-5088
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 04/08/2016
Number of Days to Update: 31	Next Scheduled EDR Contact: 07/25/2016
	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	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/20/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/05/2016
	Data Release Frequency: Quarterly

**FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**  
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/20/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/05/2016
	Data Release Frequency: Quarterly

## MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/07/2016	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/18/2016	Telephone: 301-415-7169
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 05/06/2016
Number of Days to Update: 28	Next Scheduled EDR Contact: 08/22/2016
	Data Release Frequency: Quarterly

## COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 04/15/2016
Number of Days to Update: 76	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Varies

## COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 03/11/2016
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/20/2016
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 04/26/2016
Number of Days to Update: 83	Next Scheduled EDR Contact: 08/08/2016
	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: 07/07/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/09/2015	Telephone: 202-343-9775
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 04/08/2016
Number of Days to Update: 69	Next Scheduled EDR Contact: 07/18/2016
	Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 05/04/2016
Number of Days to Update: 42	Next Scheduled EDR Contact: 08/15/2016
	Data Release Frequency: Varies

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 04/17/2015  
Date Made Active in Reports: 06/02/2015  
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 03/24/2016  
Next Scheduled EDR Contact: 07/11/2016  
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: 12/31/2013  
Date Data Arrived at EDR: 02/24/2015  
Date Made Active in Reports: 09/30/2015  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 05/27/2016  
Next Scheduled EDR Contact: 09/05/2016  
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: 12/31/2005  
Date Data Arrived at EDR: 12/08/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 34

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 04/15/2016  
Next Scheduled EDR Contact: 07/25/2016  
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: 03/11/2016  
Date Data Arrived at EDR: 03/15/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 80

Source: Department of Energy  
Telephone: 202-586-3559  
Last EDR Contact: 05/09/2016  
Next Scheduled EDR Contact: 08/22/2016  
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: 09/14/2010  
Date Data Arrived at EDR: 10/07/2011  
Date Made Active in Reports: 03/01/2012  
Number of Days to Update: 146

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 05/23/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014  
Date Data Arrived at EDR: 11/26/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 64

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 04/07/2016  
Next Scheduled EDR Contact: 07/18/2016  
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 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/20/2015  
Date Data Arrived at EDR: 10/27/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 69

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 03/24/2016  
Next Scheduled EDR Contact: 07/11/2016  
Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/20/2015  
Date Data Arrived at EDR: 10/27/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 69

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 03/24/2016  
Next Scheduled EDR Contact: 07/11/2016  
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: 02/09/2016  
Date Data Arrived at EDR: 03/02/2016  
Date Made Active in Reports: 04/15/2016  
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 06/02/2016  
Next Scheduled EDR Contact: 09/12/2016  
Data Release Frequency: Semi-Annually

## US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 06/03/2016  
Next Scheduled EDR Contact: 09/12/2016  
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: 06/03/2016  
Next Scheduled EDR Contact: 09/12/2016  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 07/20/2015	Source: EPA
Date Data Arrived at EDR: 09/09/2015	Telephone: (415) 947-8000
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 03/08/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 06/20/2016
	Data Release Frequency: Quarterly

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015	Source: Department of Defense
Date Data Arrived at EDR: 01/29/2016	Telephone: 571-373-0407
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 04/18/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 07/04/2016
	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: 03/01/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2016	Telephone: 202-564-0527
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 05/25/2016
Number of Days to Update: 33	Next Scheduled EDR Contact: 09/12/2016
	Data Release Frequency: Varies

## 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	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	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: 03/28/2016	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 03/30/2016	Telephone: 916-323-3400
Date Made Active in Reports: 05/09/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 40	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Quarterly

## 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: 02/08/2016	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 02/24/2016	Telephone: 916-327-4498
Date Made Active in Reports: 04/01/2016	Last EDR Contact: 06/02/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 09/19/2016
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2014	Source: California Air Resources Board
Date Data Arrived at EDR: 03/22/2016	Telephone: 916-322-2990
Date Made Active in Reports: 05/09/2016	Last EDR Contact: 03/22/2016
Number of Days to Update: 48	Next Scheduled EDR Contact: 07/04/2016
	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: 01/26/2016	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/29/2016	Telephone: 916-445-9379
Date Made Active in Reports: 03/22/2016	Last EDR Contact: 05/23/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

## Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/28/2016	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/29/2016	Telephone: 916-255-3628
Date Made Active in Reports: 03/22/2016	Last EDR Contact: 04/21/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 08/08/2016
	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: 02/17/2016	Source: California Integrated Waste Management Board
Date Data Arrived at EDR: 02/23/2016	Telephone: 916-341-6066
Date Made Active in Reports: 04/01/2016	Last EDR Contact: 05/25/2016
Number of Days to Update: 38	Next Scheduled EDR Contact: 08/29/2016
	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: 12/31/2014	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/14/2015	Telephone: 916-255-1136
Date Made Active in Reports: 12/11/2015	Last EDR Contact: 04/15/2016
Number of Days to Update: 58	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Annually

## 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 [CALSTITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 01/22/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/22/2016	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/24/2016	Telephone: 916-323-3400
Date Made Active in Reports: 04/01/2016	Last EDR Contact: 05/25/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 09/05/2016
	Data Release Frequency: Quarterly

## HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/11/2016	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 04/12/2016	Telephone: 916-440-7145
Date Made Active in Reports: 06/01/2016	Last EDR Contact: 04/12/2016
Number of Days to Update: 50	Next Scheduled EDR Contact: 07/25/2016
	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: 03/15/2016	Source: Department of Conservation
Date Data Arrived at EDR: 03/16/2016	Telephone: 916-322-1080
Date Made Active in Reports: 05/09/2016	Last EDR Contact: 03/16/2016
Number of Days to Update: 54	Next Scheduled EDR Contact: 06/27/2016
	Data Release Frequency: Varies

## 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: 02/29/2016	Source: Department of Public Health
Date Data Arrived at EDR: 03/08/2016	Telephone: 916-558-1784
Date Made Active in Reports: 05/04/2016	Last EDR Contact: 06/07/2016
Number of Days to Update: 57	Next Scheduled EDR Contact: 09/19/2016
	Data Release Frequency: Varies

## NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 02/16/2016	Source: State Water Resources Control Board
Date Data Arrived at EDR: 02/17/2016	Telephone: 916-445-9379
Date Made Active in Reports: 04/01/2016	Last EDR Contact: 05/18/2016
Number of Days to Update: 44	Next Scheduled EDR Contact: 08/29/2016
	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: 03/07/2016	Source: Department of Pesticide Regulation
Date Data Arrived at EDR: 03/08/2016	Telephone: 916-445-4038
Date Made Active in Reports: 05/16/2016	Last EDR Contact: 06/07/2016
Number of Days to Update: 69	Next Scheduled EDR Contact: 09/19/2016
	Data Release Frequency: Quarterly



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 03/15/2016  
Date Data Arrived at EDR: 03/16/2016  
Date Made Active in Reports: 05/09/2016  
Number of Days to Update: 54

Source: Department of Conservation  
Telephone: 916-323-3836  
Last EDR Contact: 03/16/2016  
Next Scheduled EDR Contact: 06/27/2016  
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: 09/10/2015  
Date Data Arrived at EDR: 01/05/2016  
Date Made Active in Reports: 02/12/2016  
Number of Days to Update: 38

Source: State Water Resources Control Board  
Telephone: 916-445-3846  
Last EDR Contact: 04/18/2016  
Next Scheduled EDR Contact: 07/04/2016  
Data Release Frequency: No Update Planned

## UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 07/23/2015  
Date Data Arrived at EDR: 09/15/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 28

Source: Department of Conservation  
Telephone: 916-445-2408  
Last EDR Contact: 03/16/2016  
Next Scheduled EDR Contact: 06/27/2016  
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 board's review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 04/15/2015  
Date Data Arrived at EDR: 04/17/2015  
Date Made Active in Reports: 06/23/2015  
Number of Days to Update: 67

Source: RWQCB, Central Valley Region  
Telephone: 559-445-5577  
Last EDR Contact: 01/15/2016  
Next Scheduled EDR Contact: 04/25/2016  
Data Release Frequency: Varies

## WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007  
Date Data Arrived at EDR: 06/20/2007  
Date Made Active in Reports: 06/29/2007  
Number of Days to Update: 9

Source: State Water Resources Control Board  
Telephone: 916-341-5227  
Last EDR Contact: 05/20/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Quarterly

## WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009  
Date Data Arrived at EDR: 07/21/2009  
Date Made Active in Reports: 08/03/2009  
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board  
Telephone: 213-576-6726  
Last EDR Contact: 03/28/2016  
Next Scheduled EDR Contact: 07/11/2016  
Data Release Frequency: Varies

## ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/20/2015  
Date Data Arrived at EDR: 09/23/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 103

Source: Environmental Protection Agency  
Telephone: 202-564-2280  
Last EDR Contact: 03/23/2016  
Next Scheduled EDR Contact: 07/04/2016  
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: 02/22/2016  
Date Data Arrived at EDR: 02/24/2016  
Date Made Active in Reports: 05/20/2016  
Number of Days to Update: 86

Source: EPA  
Telephone: 800-385-6164  
Last EDR Contact: 05/25/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Quarterly

## 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 Historic Gas 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 Historic Dry 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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:

#### Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 04/12/2016  
Date Data Arrived at EDR: 04/14/2016  
Date Made Active in Reports: 06/01/2016  
Number of Days to Update: 48

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 04/11/2016  
Next Scheduled EDR Contact: 07/25/2016  
Data Release Frequency: Semi-Annually

#### Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/06/2016  
Date Data Arrived at EDR: 04/14/2016  
Date Made Active in Reports: 06/01/2016  
Number of Days to Update: 48

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 04/11/2016  
Next Scheduled EDR Contact: 07/25/2016  
Data Release Frequency: Semi-Annually

### AMADOR COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA Facility List

### Cupa Facility List

Date of Government Version: 03/21/2016  
Date Data Arrived at EDR: 03/22/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 43

Source: Amador County Environmental Health  
Telephone: 209-223-6439  
Last EDR Contact: 06/02/2016  
Next Scheduled EDR Contact: 09/19/2016  
Data Release Frequency: Varies

## BUTTE COUNTY:

## CUPA Facility Listing

### Cupa facility list.

Date of Government Version: 02/19/2016  
Date Data Arrived at EDR: 02/23/2016  
Date Made Active in Reports: 04/01/2016  
Number of Days to Update: 38

Source: Public Health Department  
Telephone: 530-538-7149  
Last EDR Contact: 05/23/2016  
Next Scheduled EDR Contact: 07/25/2016  
Data Release Frequency: No Update Planned

## CALVERAS COUNTY:

## CUPA Facility Listing

### Cupa Facility Listing

Date of Government Version: 02/02/2016  
Date Data Arrived at EDR: 02/04/2016  
Date Made Active in Reports: 02/22/2016  
Number of Days to Update: 18

Source: Calveras County Environmental Health  
Telephone: 209-754-6399  
Last EDR Contact: 03/28/2016  
Next Scheduled EDR Contact: 07/11/2016  
Data Release Frequency: Quarterly

## COLUSA COUNTY:

## CUPA Facility List

### Cupa facility list.

Date of Government Version: 02/22/2016  
Date Data Arrived at EDR: 02/24/2016  
Date Made Active in Reports: 04/01/2016  
Number of Days to Update: 37

Source: Health & Human Services  
Telephone: 530-458-0396  
Last EDR Contact: 05/23/2016  
Next Scheduled EDR Contact: 08/22/2016  
Data Release Frequency: Varies

## CONTRA COSTA COUNTY:

## Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/24/2016  
Date Data Arrived at EDR: 02/26/2016  
Date Made Active in Reports: 04/01/2016  
Number of Days to Update: 35

Source: Contra Costa Health Services Department  
Telephone: 925-646-2286  
Last EDR Contact: 05/02/2016  
Next Scheduled EDR Contact: 08/15/2016  
Data Release Frequency: Semi-Annually

## DEL NORTE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA Facility List

Cupa Facility list

Date of Government Version: 01/22/2016  
Date Data Arrived at EDR: 02/05/2016  
Date Made Active in Reports: 03/07/2016  
Number of Days to Update: 31

Source: Del Norte County Environmental Health Division  
Telephone: 707-465-0426  
Last EDR Contact: 04/29/2016  
Next Scheduled EDR Contact: 08/15/2016  
Data Release Frequency: Varies

## EL DORADO COUNTY:

### CUPA Facility List

CUPA facility list.

Date of Government Version: 02/22/2016  
Date Data Arrived at EDR: 02/24/2016  
Date Made Active in Reports: 04/01/2016  
Number of Days to Update: 37

Source: El Dorado County Environmental Management Department  
Telephone: 530-621-6623  
Last EDR Contact: 05/02/2016  
Next Scheduled EDR Contact: 08/15/2016  
Data Release Frequency: Varies

## FRESNO COUNTY:

### CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/04/2016  
Date Data Arrived at EDR: 04/06/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 28

Source: Dept. of Community Health  
Telephone: 559-445-3271  
Last EDR Contact: 04/04/2016  
Next Scheduled EDR Contact: 07/18/2016  
Data Release Frequency: Semi-Annually

## HUMBOLDT COUNTY:

### CUPA Facility List

CUPA facility list.

Date of Government Version: 03/16/2016  
Date Data Arrived at EDR: 03/21/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 44

Source: Humboldt County Environmental Health  
Telephone: N/A  
Last EDR Contact: 05/23/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Varies

## IMPERIAL COUNTY:

### CUPA Facility List

Cupa facility list.

Date of Government Version: 01/25/2016  
Date Data Arrived at EDR: 01/27/2016  
Date Made Active in Reports: 02/22/2016  
Number of Days to Update: 26

Source: San Diego Border Field Office  
Telephone: 760-339-2777  
Last EDR Contact: 04/21/2016  
Next Scheduled EDR Contact: 08/08/2016  
Data Release Frequency: Varies

## INYO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA Facility List

Cupa facility list.

Date of Government Version: 09/10/2013  
Date Data Arrived at EDR: 09/11/2013  
Date Made Active in Reports: 10/14/2013  
Number of Days to Update: 33

Source: Inyo County Environmental Health Services  
Telephone: 760-878-0238  
Last EDR Contact: 05/23/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Varies

## KERN COUNTY:

### Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 03/01/2016  
Date Data Arrived at EDR: 03/03/2016  
Date Made Active in Reports: 05/09/2016  
Number of Days to Update: 67

Source: Kern County Environment Health Services Department  
Telephone: 661-862-8700  
Last EDR Contact: 05/09/2016  
Next Scheduled EDR Contact: 08/22/2016  
Data Release Frequency: Quarterly

## KINGS COUNTY:

### 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: 02/23/2016  
Date Data Arrived at EDR: 02/25/2016  
Date Made Active in Reports: 04/01/2016  
Number of Days to Update: 36

Source: Kings County Department of Public Health  
Telephone: 559-584-1411  
Last EDR Contact: 05/23/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Varies

## LAKE COUNTY:

### CUPA Facility List

Cupa facility list

Date of Government Version: 02/09/2016  
Date Data Arrived at EDR: 02/12/2016  
Date Made Active in Reports: 04/01/2016  
Number of Days to Update: 49

Source: Lake County Environmental Health  
Telephone: 707-263-1164  
Last EDR Contact: 04/18/2016  
Next Scheduled EDR Contact: 08/01/2016  
Data Release Frequency: Varies

## LOS ANGELES COUNTY:

### San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009  
Date Data Arrived at EDR: 03/31/2009  
Date Made Active in Reports: 10/23/2009  
Number of Days to Update: 206

Source: EPA Region 9  
Telephone: 415-972-3178  
Last EDR Contact: 03/21/2016  
Next Scheduled EDR Contact: 07/04/2016  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/30/2016	Source: Department of Public Works
Date Data Arrived at EDR: 04/01/2016	Telephone: 626-458-3517
Date Made Active in Reports: 05/09/2016	Last EDR Contact: 04/01/2016
Number of Days to Update: 38	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Semi-Annually

## List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/18/2016	Source: La County Department of Public Works
Date Data Arrived at EDR: 04/20/2016	Telephone: 818-458-5185
Date Made Active in Reports: 06/01/2016	Last EDR Contact: 04/20/2016
Number of Days to Update: 42	Next Scheduled EDR Contact: 08/01/2016
	Data Release Frequency: Varies

## City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016	Source: Engineering & Construction Division
Date Data Arrived at EDR: 01/26/2016	Telephone: 213-473-7869
Date Made Active in Reports: 03/22/2016	Last EDR Contact: 04/18/2016
Number of Days to Update: 56	Next Scheduled EDR Contact: 08/01/2016
	Data Release Frequency: Varies

## Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/15/2015	Source: Community Health Services
Date Data Arrived at EDR: 01/29/2015	Telephone: 323-890-7806
Date Made Active in Reports: 03/10/2015	Last EDR Contact: 03/28/2016
Number of Days to Update: 40	Next Scheduled EDR Contact: 08/01/2016
	Data Release Frequency: Annually

## City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 04/02/2015	Telephone: 310-524-2236
Date Made Active in Reports: 04/13/2015	Last EDR Contact: 04/18/2016
Number of Days to Update: 11	Next Scheduled EDR Contact: 08/01/2016
	Data Release Frequency: Semi-Annually

## City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 11/04/2015	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 11/13/2015	Telephone: 562-570-2563
Date Made Active in Reports: 12/17/2015	Last EDR Contact: 01/25/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 05/09/2016
	Data Release Frequency: Annually

## City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/05/2016	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 04/26/2016	Telephone: 310-618-2973
Date Made Active in Reports: 06/01/2016	Last EDR Contact: 01/11/2016
Number of Days to Update: 36	Next Scheduled EDR Contact: 04/25/2016
	Data Release Frequency: Semi-Annually

MADERA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 03/02/2016  
Date Data Arrived at EDR: 03/07/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 58

Source: Madera County Environmental Health  
Telephone: 559-675-7823  
Last EDR Contact: 05/23/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Varies

## MARIN COUNTY:

### Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 04/07/2016  
Date Data Arrived at EDR: 04/26/2016  
Date Made Active in Reports: 06/01/2016  
Number of Days to Update: 36

Source: Public Works Department Waste Management  
Telephone: 415-499-6647  
Last EDR Contact: 04/18/2016  
Next Scheduled EDR Contact: 07/18/2016  
Data Release Frequency: Semi-Annually

## MERCED COUNTY:

### CUPA Facility List

CUPA facility list.

Date of Government Version: 02/26/2016  
Date Data Arrived at EDR: 03/01/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 64

Source: Merced County Environmental Health  
Telephone: 209-381-1094  
Last EDR Contact: 06/02/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Varies

## MONO COUNTY:

### CUPA Facility List

CUPA Facility List

Date of Government Version: 03/03/2016  
Date Data Arrived at EDR: 03/07/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 58

Source: Mono County Health Department  
Telephone: 760-932-5580  
Last EDR Contact: 05/25/2016  
Next Scheduled EDR Contact: 09/12/2016  
Data Release Frequency: Varies

## MONTEREY COUNTY:

### CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 03/15/2016  
Date Data Arrived at EDR: 03/18/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 47

Source: Monterey County Health Department  
Telephone: 831-796-1297  
Last EDR Contact: 05/23/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Varies

## NAPA COUNTY:



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011  
Date Data Arrived at EDR: 12/06/2011  
Date Made Active in Reports: 02/07/2012  
Number of Days to Update: 63

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 05/25/2016  
Next Scheduled EDR Contact: 09/12/2016  
Data Release Frequency: No Update Planned

## Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008  
Date Data Arrived at EDR: 01/16/2008  
Date Made Active in Reports: 02/08/2008  
Number of Days to Update: 23

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 05/25/2016  
Next Scheduled EDR Contact: 09/12/2016  
Data Release Frequency: No Update Planned

## NEVADA COUNTY:

### CUPA Facility List

CUPA facility list.

Date of Government Version: 01/27/2016  
Date Data Arrived at EDR: 02/04/2016  
Date Made Active in Reports: 02/22/2016  
Number of Days to Update: 18

Source: Community Development Agency  
Telephone: 530-265-1467  
Last EDR Contact: 04/29/2016  
Next Scheduled EDR Contact: 08/15/2016  
Data Release Frequency: Varies

## ORANGE COUNTY:

### List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2016  
Date Data Arrived at EDR: 02/12/2016  
Date Made Active in Reports: 04/01/2016  
Number of Days to Update: 49

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 05/09/2016  
Next Scheduled EDR Contact: 08/22/2016  
Data Release Frequency: Annually

### List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/01/2016  
Date Data Arrived at EDR: 02/12/2016  
Date Made Active in Reports: 04/01/2016  
Number of Days to Update: 49

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 05/09/2016  
Next Scheduled EDR Contact: 08/22/2016  
Data Release Frequency: Quarterly

### List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/01/2016  
Date Data Arrived at EDR: 05/11/2016  
Date Made Active in Reports: 06/01/2016  
Number of Days to Update: 21

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 05/11/2016  
Next Scheduled EDR Contact: 08/22/2016  
Data Release Frequency: Quarterly

## PLACER COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 03/07/2016  
Date Data Arrived at EDR: 03/09/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 56

Source: Placer County Health and Human Services  
Telephone: 530-745-2363  
Last EDR Contact: 06/02/2016  
Next Scheduled EDR Contact: 09/19/2016  
Data Release Frequency: Semi-Annually

## RIVERSIDE COUNTY:

### Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/13/2016  
Date Data Arrived at EDR: 04/15/2016  
Date Made Active in Reports: 05/09/2016  
Number of Days to Update: 24

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 03/21/2016  
Next Scheduled EDR Contact: 07/04/2016  
Data Release Frequency: Quarterly

### Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 04/13/2016  
Date Data Arrived at EDR: 04/15/2016  
Date Made Active in Reports: 06/01/2016  
Number of Days to Update: 47

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 03/21/2016  
Next Scheduled EDR Contact: 07/04/2016  
Data Release Frequency: Quarterly

## SACRAMENTO COUNTY:

### Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/02/2016  
Date Data Arrived at EDR: 04/06/2016  
Date Made Active in Reports: 06/01/2016  
Number of Days to Update: 56

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 04/06/2016  
Next Scheduled EDR Contact: 07/18/2016  
Data Release Frequency: Quarterly

### Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/02/2016  
Date Data Arrived at EDR: 04/06/2016  
Date Made Active in Reports: 06/01/2016  
Number of Days to Update: 56

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 04/06/2016  
Next Scheduled EDR Contact: 07/18/2016  
Data Release Frequency: Quarterly

## SAN BERNARDINO COUNTY:

### Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/15/2016  
Date Data Arrived at EDR: 03/18/2016  
Date Made Active in Reports: 05/09/2016  
Number of Days to Update: 52

Source: San Bernardino County Fire Department Hazardous Materials Division  
Telephone: 909-387-3041  
Last EDR Contact: 05/09/2016  
Next Scheduled EDR Contact: 08/22/2016  
Data Release Frequency: Quarterly

## SAN DIEGO COUNTY:

### 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: 09/23/2013  
Date Data Arrived at EDR: 09/24/2013  
Date Made Active in Reports: 10/17/2013  
Number of Days to Update: 23

Source: Hazardous Materials Management Division  
Telephone: 619-338-2268  
Last EDR Contact: 06/02/2016  
Next Scheduled EDR Contact: 09/19/2016  
Data Release Frequency: Quarterly

### Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015  
Date Data Arrived at EDR: 11/07/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 58

Source: Department of Health Services  
Telephone: 619-338-2209  
Last EDR Contact: 04/21/2016  
Next Scheduled EDR Contact: 08/08/2016  
Data Release Frequency: Varies

### 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: 06/02/2016  
Next Scheduled EDR Contact: 09/19/2016  
Data Release Frequency: No Update Planned

## SAN FRANCISCO COUNTY:

### Local Oversight 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: 05/06/2016  
Next Scheduled EDR Contact: 08/22/2016  
Data Release Frequency: Quarterly

### Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010  
Date Data Arrived at EDR: 03/10/2011  
Date Made Active in Reports: 03/15/2011  
Number of Days to Update: 5

Source: Department of Public Health  
Telephone: 415-252-3920  
Last EDR Contact: 05/06/2016  
Next Scheduled EDR Contact: 08/22/2016  
Data Release Frequency: Quarterly

## SAN JOAQUIN COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 04/06/2016  
Date Data Arrived at EDR: 04/08/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 26

Source: Environmental Health Department  
Telephone: N/A  
Last EDR Contact: 04/04/2016  
Next Scheduled EDR Contact: 07/04/2016  
Data Release Frequency: Semi-Annually

## SAN LUIS OBISPO COUNTY:

### CUPA Facility List

Cupa Facility List.

Date of Government Version: 02/22/2016  
Date Data Arrived at EDR: 02/24/2016  
Date Made Active in Reports: 04/01/2016  
Number of Days to Update: 37

Source: San Luis Obispo County Public Health Department  
Telephone: 805-781-5596  
Last EDR Contact: 05/23/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Varies

## SAN MATEO COUNTY:

### Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 10/14/2015  
Date Data Arrived at EDR: 10/15/2015  
Date Made Active in Reports: 11/16/2015  
Number of Days to Update: 32

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 05/27/2016  
Next Scheduled EDR Contact: 06/27/2016  
Data Release Frequency: Annually

### Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/14/2016  
Date Data Arrived at EDR: 03/15/2016  
Date Made Active in Reports: 05/09/2016  
Number of Days to Update: 55

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 03/14/2016  
Next Scheduled EDR Contact: 06/27/2016  
Data Release Frequency: Semi-Annually

## SANTA BARBARA COUNTY:

### CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011  
Date Data Arrived at EDR: 09/09/2011  
Date Made Active in Reports: 10/07/2011  
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department  
Telephone: 805-686-8167  
Last EDR Contact: 05/23/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Varies

## SANTA CLARA COUNTY:

### Cupa Facility List

Cupa facility list

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/22/2016  
Date Data Arrived at EDR: 03/04/2016  
Date Made Active in Reports: 05/09/2016  
Number of Days to Update: 66

Source: Department of Environmental Health  
Telephone: 408-918-1973  
Last EDR Contact: 05/23/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Varies

## 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

## LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014  
Date Data Arrived at EDR: 03/05/2014  
Date Made Active in Reports: 03/18/2014  
Number of Days to Update: 13

Source: Department of Environmental Health  
Telephone: 408-918-3417  
Last EDR Contact: 05/25/2016  
Next Scheduled EDR Contact: 09/12/2016  
Data Release Frequency: Annually

## Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 02/05/2016  
Date Data Arrived at EDR: 02/10/2016  
Date Made Active in Reports: 04/01/2016  
Number of Days to Update: 51

Source: City of San Jose Fire Department  
Telephone: 408-535-7694  
Last EDR Contact: 05/23/2016  
Next Scheduled EDR Contact: 08/22/2016  
Data Release Frequency: Annually

## SANTA CRUZ COUNTY:

### CUPA Facility List

CUPA facility listing.

Date of Government Version: 02/26/2016  
Date Data Arrived at EDR: 03/01/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 64

Source: Santa Cruz County Environmental Health  
Telephone: 831-464-2761  
Last EDR Contact: 05/23/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Varies

## SHASTA COUNTY:

### CUPA Facility List

Cupa Facility List.

Date of Government Version: 03/18/2016  
Date Data Arrived at EDR: 03/21/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 44

Source: Shasta County Department of Resource Management  
Telephone: 530-225-5789  
Last EDR Contact: 05/23/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Varies

## SOLANO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/14/2016  
Date Data Arrived at EDR: 03/22/2016  
Date Made Active in Reports: 05/09/2016  
Number of Days to Update: 48

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 03/14/2016  
Next Scheduled EDR Contact: 06/27/2016  
Data Release Frequency: Quarterly

## Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 03/14/2016  
Date Data Arrived at EDR: 03/21/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 44

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 03/14/2016  
Next Scheduled EDR Contact: 06/27/2016  
Data Release Frequency: Quarterly

## SONOMA COUNTY:

### Cupa Facility List

Cupa Facility list

Date of Government Version: 04/05/2016  
Date Data Arrived at EDR: 04/08/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 26

Source: County of Sonoma Fire & Emergency Services Department  
Telephone: 707-565-1174  
Last EDR Contact: 03/28/2016  
Next Scheduled EDR Contact: 07/11/2016  
Data Release Frequency: Varies

## Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/01/2016  
Date Data Arrived at EDR: 04/05/2016  
Date Made Active in Reports: 05/09/2016  
Number of Days to Update: 34

Source: Department of Health Services  
Telephone: 707-565-6565  
Last EDR Contact: 03/28/2016  
Next Scheduled EDR Contact: 07/11/2016  
Data Release Frequency: Quarterly

## SUTTER COUNTY:

### Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 03/14/2016  
Date Data Arrived at EDR: 03/15/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 50

Source: Sutter County Department of Agriculture  
Telephone: 530-822-7500  
Last EDR Contact: 06/02/2016  
Next Scheduled EDR Contact: 09/19/2016  
Data Release Frequency: Semi-Annually

## TUOLUMNE COUNTY:

### CUPA Facility List

Cupa facility list

Date of Government Version: 03/08/2016  
Date Data Arrived at EDR: 03/11/2016  
Date Made Active in Reports: 05/09/2016  
Number of Days to Update: 59

Source: Division of Environmental Health  
Telephone: 209-533-5633  
Last EDR Contact: 04/21/2016  
Next Scheduled EDR Contact: 08/08/2016  
Data Release Frequency: Varies

## VENTURA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 12/28/2015	Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 01/29/2016	Telephone: 805-654-2813
Date Made Active in Reports: 03/22/2016	Last EDR Contact: 04/25/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

## Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011	Source: Environmental Health Division
Date Data Arrived at EDR: 12/01/2011	Telephone: 805-654-2813
Date Made Active in Reports: 01/19/2012	Last EDR Contact: 04/04/2016
Number of Days to Update: 49	Next Scheduled EDR Contact: 07/18/2016
	Data Release Frequency: Annually

## Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008	Source: Environmental Health Division
Date Data Arrived at EDR: 06/24/2008	Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 05/13/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 08/22/2016
	Data Release Frequency: Quarterly

## 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: 12/28/2015	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 01/29/2016	Telephone: 805-654-2813
Date Made Active in Reports: 03/22/2016	Last EDR Contact: 04/25/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

## Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/26/2016	Source: Environmental Health Division
Date Data Arrived at EDR: 03/17/2016	Telephone: 805-654-2813
Date Made Active in Reports: 05/04/2016	Last EDR Contact: 03/17/2016
Number of Days to Update: 48	Next Scheduled EDR Contact: 06/27/2016
	Data Release Frequency: Quarterly

## YOLO COUNTY:

### Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 04/12/2016	Source: Yolo County Department of Health
Date Data Arrived at EDR: 04/19/2016	Telephone: 530-666-8646
Date Made Active in Reports: 06/01/2016	Last EDR Contact: 04/04/2016
Number of Days to Update: 43	Next Scheduled EDR Contact: 07/18/2016
	Data Release Frequency: Annually

## YUBA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 02/01/2016  
Date Data Arrived at EDR: 02/05/2016  
Date Made Active in Reports: 02/22/2016  
Number of Days to Update: 17

Source: Yuba County Environmental Health Department  
Telephone: 530-749-7523  
Last EDR Contact: 04/29/2016  
Next Scheduled EDR Contact: 08/15/2016  
Data Release Frequency: Varies

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013  
Date Data Arrived at EDR: 08/19/2013  
Date Made Active in Reports: 10/03/2013  
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 05/13/2016  
Next Scheduled EDR Contact: 08/29/2016  
Data Release Frequency: No Update Planned

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 07/17/2015  
Date Made Active in Reports: 08/12/2015  
Number of Days to Update: 26

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 04/12/2016  
Next Scheduled EDR Contact: 07/25/2016  
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: 02/01/2016  
Date Data Arrived at EDR: 02/03/2016  
Date Made Active in Reports: 03/22/2016  
Number of Days to Update: 48

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 05/06/2016  
Next Scheduled EDR Contact: 08/15/2016  
Data Release Frequency: Annually

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 07/24/2015  
Date Made Active in Reports: 08/18/2015  
Number of Days to Update: 25

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 04/18/2016  
Next Scheduled EDR Contact: 08/01/2016  
Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 06/19/2015  
Date Made Active in Reports: 07/15/2015  
Number of Days to Update: 26

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 06/06/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Annually



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 04/14/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 50

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 03/14/2016  
Next Scheduled EDR Contact: 06/27/2016  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

## Electric Power Transmission Line Data

Source: PennWell Corporation

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**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## AHA Hospitals:

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

## Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## Nursing Homes

Source: National Institutes of Health  
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

## Public Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

## Private Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

## Daycare Centers: Licensed Facilities

Source: Department of Social Services  
Telephone: 916-657-4041

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**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 & Game  
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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# Appendix C

Regulatory Agency Records



CYNTHIA A. HARDING, M.P.H.  
Interim Director

JEFFREY D. GUNZENHAUSER, M.D., M.P.H.  
Interim Health Officer

**Public Health Investigation Administration**

LEOLA MERCADEL  
Chief, Public Health Investigation

5555 Ferguson Drive, Suite 120-04  
Commerce, California 90022  
TEL (323) 890-7801 • FAX (323) 728-0217

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June 16, 2015

VALERIE BAUER  
3777 LONG BEACH BLVD  
LONG BEACH, CA 9007

**SUBJECT: CAL ARP REQUEST FOR 12870 PANAMA STREET, LONG BEACH, CA  
90066**

I, the undersigned, being the Custodian of Records, certify that a thorough search of our files, carried out under my direction and control, revealed no records as named in your request for records.

It is to be understood that this does not mean that records do not exist under another spelling, another name, or under another classification, but that with the information furnished our office, and to the best of our knowledge, no such records exist in our files.

Sincerely,

Christian Sten, Deputy Health Officer  
Public Health Investigation

COR ID No. 153883

Request - NO Records  
Revised 3/15/13



# Division of Oil, Gas & Geothermal Resources Well Finder

**Find By Location**

Find My Current Location

or

Street:

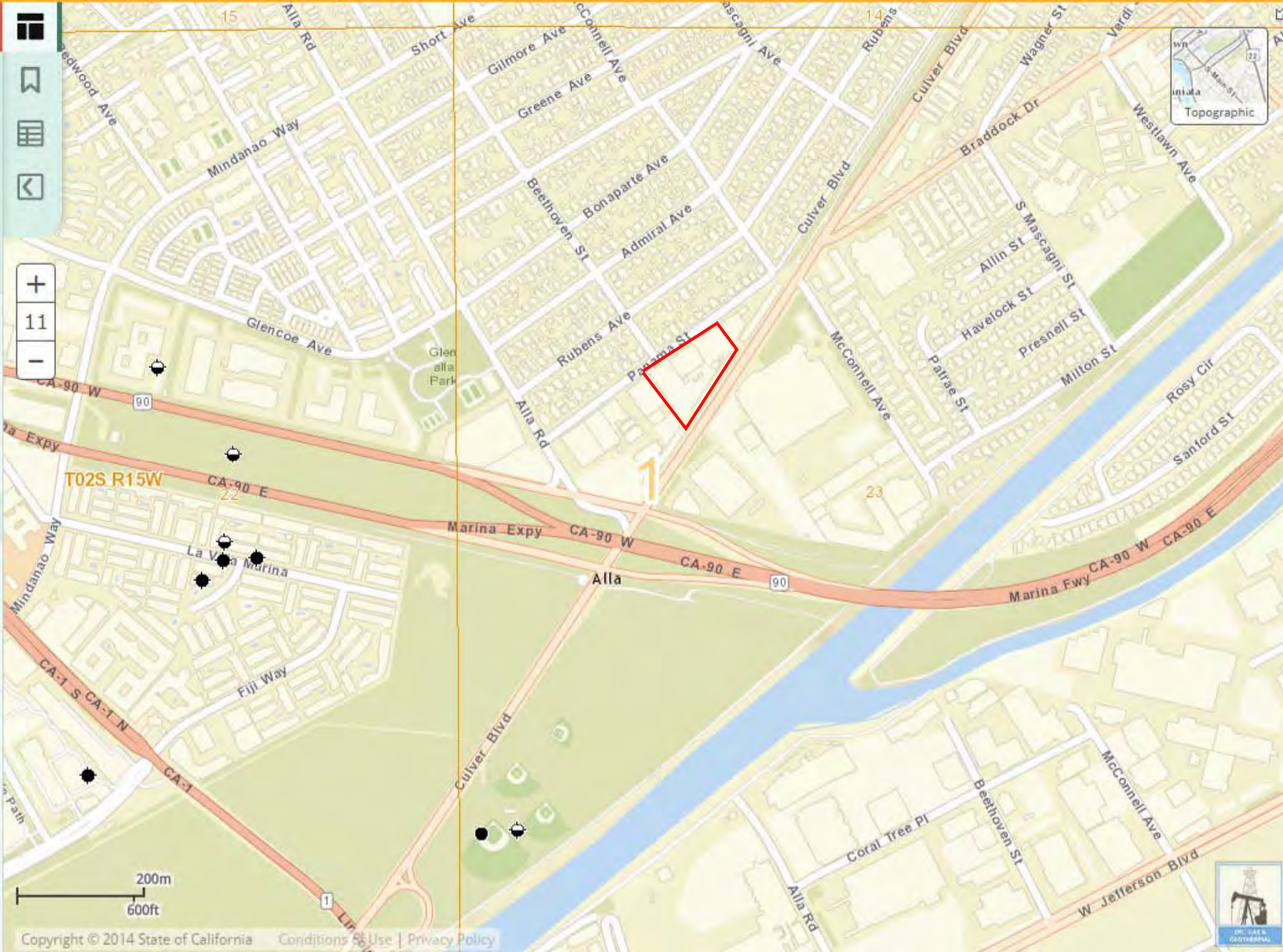
City:

Zip:

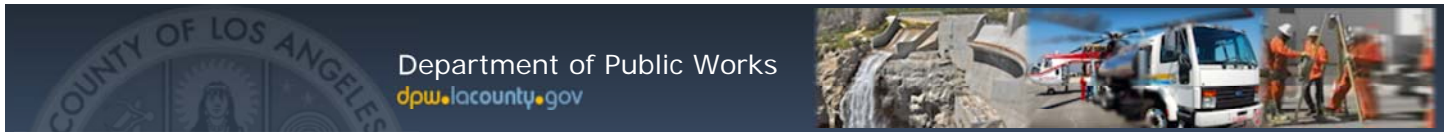
Display a 1500ft buffer

- Find By API
- Find By Lat, Long
- Find By PLSS
- Find By Oil/Gas Field

- Data (Layers):**
- Notices & Permits
  - DOGGR Wells
    - Label:  API#  Well#  Detailed
  - EPA Wells for Aquifer Exemption Review
    - Enhanced Oil Recovery Wells
    - Disposal Wells
  - State Assembly Districts
  - State Senate Districts
  - Congressional Districts
  - Oil/Gas Fields
  - Public Land Survey System
  - DOGGR Districts
  - Cities







- Clean LA for Residents
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- Clean LA for Government
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Los Angeles County

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- [Trash Collection / Illegal Dumping](#)
- [Household Hazardous Waste / Electronic Waste](#)
- [Used Motor Oil Recycling](#)
- [Industrial Waste](#)
- [Underground Storage Tanks](#)
- [Solid Waste](#)
- [Stormwater](#)
- [Water Conservation](#)
- [Youth Education](#)

## Online File Review

Industrial Waste / Underground Storage Tanks / Stormwater

[Back](#)

You searched the following address:

**Street Number:** 12870 **Street Name:** Panama

**Our office does not have any records (related to industrial waste/underground storage tanks/stormwater) for the requested site address.**

Please double check the spelling of the street name or search a different address. Both street number and street name must be exact and spelled correctly as they appear for the facility on file. Do not include street direction prefix (i.e. N, S, E, W, etc...) or suffix (i.e. ST, AVE, RD, BLVD, etc...) unless they appear in the street name (i.e. AVENUE K, AVENIDA CESAR CHAVEZ, 10TH ST EAST, CROSSROADS PKWY N, etc...). Do not include any extra spaces after the street number or after the street name.

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# Solid Waste Information Management System

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 Need  
 Methane

## Mitigation?


Find out if your property is within 1,000 feet of a methane producing site or 300 feet of an oil or gas well.

Search by:

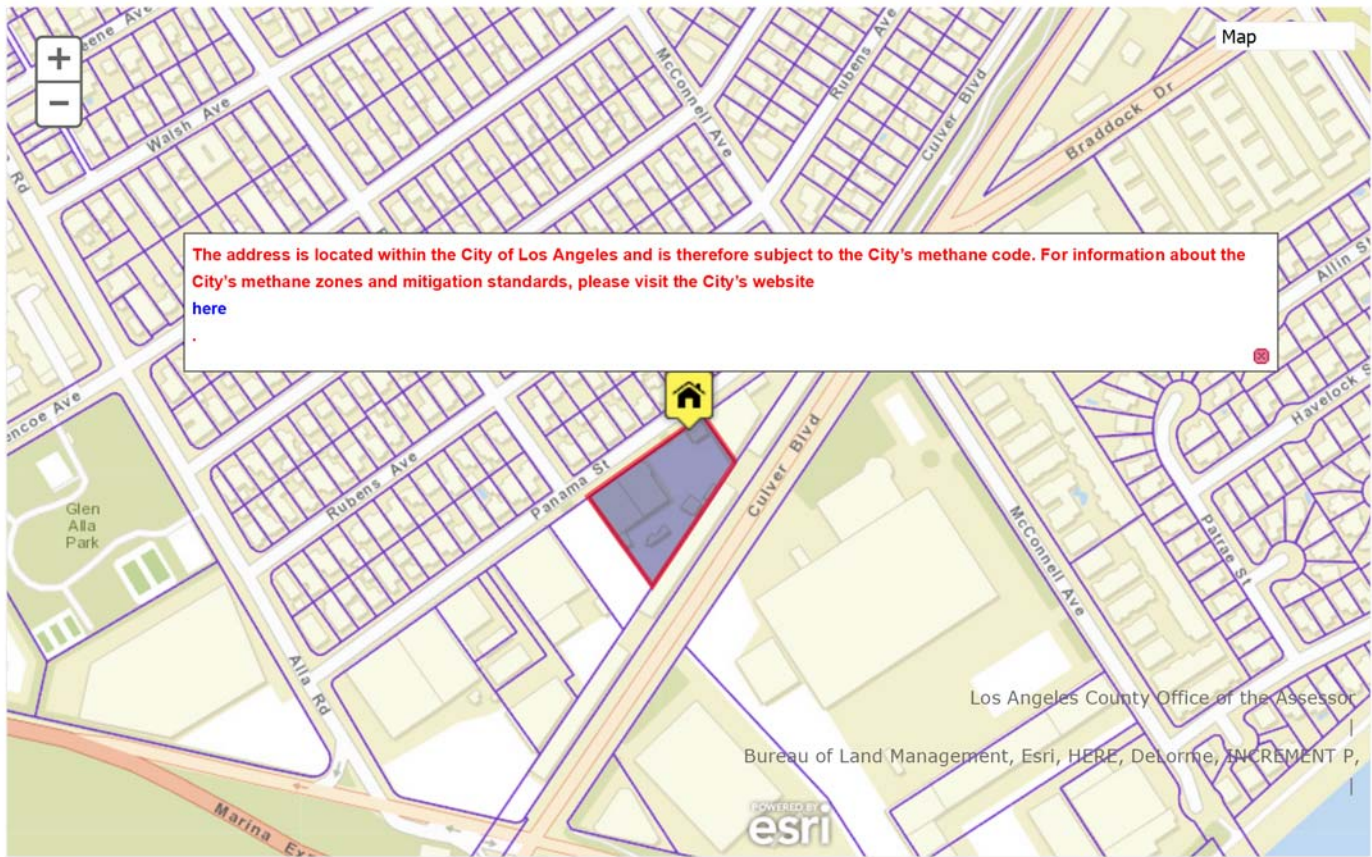
Address or Intersection

12870 panama street

Search

 Measure Tool

 Report a Problem



# Los Angeles Department of Building and Safety

Parcel Profile - Report Date: 6/30/2016 4:39:55 PM

**JOB ADDRESS(ES)**

12871 W CULVER BLVD, LOS ANGELES, CA 90066
12870 W PANAMA ST, LOS ANGELES, CA 90066

**1. PARCEL LEGAL DESCRIPTION INFORMATION:**

Tract:	TR 1100
Block:	
Lot:	3
Arb:	1
Modifier:	FR
Map Reference Number for Tract Recordation:	M B 18-66/67
Parcel Identification Number:	105B157 464 (/OnlineServices/PermitReport /PermitResultsbyPin?pin=105B157%20%20%20464)

**2. BASIC ZONING INFORMATION FOR PARCEL:**

Alquist-Priolo Fault Zone:	NO
Area Planning Commission:	West Los Angeles
Baseline Hillside Ordinance:	NO
Baseline Mansionization Ordinance:	NO
Certified Neighborhood Council:	Del Rey
Community Redevelopment Area:	NO
Council District:	11
District Map:	105B157
Flood Hazard Zone:	NO
Hillside Grading Area:	NO
Hillside Ordinance Area:	NO
LA Preliminary Fault Study Area: (/OnlineServices/PermitReport /DisplayPDF?path=LAPFRSA.pdf)	NO
Planning Area / Community Name:	Palms - Mar Vista - Del Rey
Zone(s):	M1-1
	M2-1

**3. GEOGRAPHICALLY ORIENTED PARCEL INFORMATION:**

--



Airport Hazard Area:	350' Height Limit Above Elevation 126
Alley:	NO
Building and Safety Branch Office:	WLA
Building Line Setback:	NO
Census Tract:	2753.02
City Street R/W:	NO
City Walk R/W:	NO
Coastal Zone Conservation Act:	NO
Community Design Overlay District:	NO
Community Noise Equiv. Level:	NO
Compacted Filled Ground:	NO
Division of Land:	NO
Division of Land Exemption:	NO
Earthquake-Induced Landslide Area:	NO
Earthquake-Induced Liquefaction Area:	YES
Easement:	NO
Energy Zone:	6
Environmentally Sensitive Area:	YES
Fire District:	2
Front Yard Setback:	NO
Future Street:	NO
GPI Plan Route Office:	NO
High Wind Area:	NO
Highway Dedication:	NO
Hillside Street:	NO
Lot Cut Date:	06/09/1954 PRIOR-07/29/1962
Lot Size:	NO
Lot Type:	NO
Methane Hazard Site:	Methane Zone
Nat. Water Course:	NO
Near Source Zone Distance:	5.7
Oil Well Area:	NO

Parcel Map Exemption:	NO
Parking District:	NO
Parking Layout:	NO
Private Street:	NO
Read Yard Setback:	NO
Side Yard Setback:	NO
Thomas Brothers Map Grid:	672-D6
Vacated Street/Alley:	NO
Vehicular Access Waived:	NO

**4. CITY DOCUMENTS ASSOCIATED WITH PARCEL:**

City Planning Case(s):	CPC-1984-226-SP
	CPC-2005-8252-CA
	CPC-4464
Ordinance:	ORD-168999
	ORD-103287
Specific Plan Area:	Los Angeles Coastal Transportation Corridor
Zoning Information File(s):	ZI-2427 FWY Adj Advisory Notice for Sensitive Uses

**5. OTHER PARCEL RELATED INFORMATION:**

## Los Angeles Department of Building and Safety

The information below was found on the following address:

**12870 W PANAMA ST**

Parcel Profile Report:

1



Permit Information found:

3

**- 12870 W PANAMA ST 12870 90066**

Application/Permit #	PC/Job #	Type	Status	Work Description
13045 - 90000 - 00228	--	Pressure Vessel	Permit Finaled 11/15/2013	Replacing existing compressor/tank with new set



**- 12870 W PANAMA ST 90066**

Application/Permit #	PC/Job #	Type	Status	Work Description
11016 - 10000 - 24314	B11LA13422	Bldg-Alter/Repair	Permit Finaled 12/23/2013	TENANT IMPROVEMENT OF (E) OFFICE BUILDING; DEMOLITION OF (3) INTERIOR PARTITIONS, CONSTRUCTION OF (3) PRIVATE OFFICES; REPLACE EXISTING CEILING TILES AT EXISTING CEILING; NO ALTERATION OF BUILDING ENVELOPE. ti at first floor south west portion of office building
11016 - 20001 - 24314	B12VN04394	Bldg-Alter/Repair	Permit Expired 4/8/2014	Supplemental permit to 11016-20000-24314 to revise the plans to show new partition walls and rooms.
11043 - 10000 - 03313	M11LA04703	Fire Sprinkler	Permit Finaled 1/18/2012	T.I. OFFICE SPACE, BUILDING 8. "TELEDYNE MICROELETRONIC TECH." ADD 8 HEADS.
15044 - 90000 - 03765	--	HVAC	Issued 4/22/2015	Furnish and install 5-ton Carrier package heat pump.
10042 - 90000 - 02467	--	Plumbing	Permit Expired 8/8/2012	REPLACE 3 URINALS
12048 - 30000 - 00129	B12WL00138	Sign	Permit Finaled 3/29/2012	3'4.5" WIDEX4'8" HIGH INFORMATION SIGN.

**- 12870 W PANAMA ST BLDG 8 90066**

Application/Permit #	PC/Job #	Type	Status	Work Description
11041 - 30000 - 27526	X11WL05667	Electrical	Permit Expired 1/21/2014	MOVING 2x4 TBAR LIGHTS AND MOVING EXIST PLUGS

 Code Enforcement Information:	0
 Soft-story Retrofit Program Information:	1

# Appendix D

EDR Lien and AUL Report

**Teledyne Panama Street Property**

12870 Panama Street  
Los Angeles, CA 90066

Inquiry Number: 4246078.7  
March 30, 2015

## EDR Environmental Lien and AUL Search

## EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

***Thank you for your business.***

Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EDR Environmental Lien and AUL Search

### TARGET PROPERTY INFORMATION

#### ADDRESS

12870 Panama Street  
Teledyne Panama Street Property  
Los Angeles, CA 90066

#### RESEARCH SOURCE

##### Source 1:

LA Recorder  
Los Angeles, CA

#### PROPERTY INFORMATION

##### Deed 1:

Type of Deed: deed  
Title is vested in: Teledyne Technologies Inc  
Title received from: Teledyne Industries Inc  
Deed Dated: 11/29/1999  
Deed Recorded: 1/21/2000  
Book: NA  
Page: na  
Volume: na  
Instrument: na  
Docket: NA  
Land Record Comments:  
Miscellaneous Comments:

**Legal Description:** See Exhibit

**Legal Current Owner:** Teledyne Technologies Inc

**Parcel # / Property Identifier:** 4223-008-003, 4223-008-004

**Comments:** See Exhibit

#### ENVIRONMENTAL LIEN

Environmental Lien: Found  Not Found

#### OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found  Not Found



## **Deed Exhibit 1**



LEAD SHEET

00 0092826

RECORDED IN OFFICIAL RECORDS  
RECORDER'S OFFICE  
LOS ANGELES COUNTY  
CALIFORNIA  
1:21 PM JAN 21 2000

SPACE ABOVE THIS LINE FOR RECORDERS USE

TITLE(S)

DEED

FEE

D.T.T.

FEE \$13 W  
3

CODE  
20

CODE  
19

CODE  
9\_\_

NOTIFICATION SENT-\$4 ©

Assessor's Identification Number (AIN)  
To Be Completed By Examiner OR Title Company In Black Ink

Number of Parcels Shown

4 2 2 3

0 0 8

0 0 3

0 0 2

THIS FORM IS NOT TO BE DUPLICATED

**RECORDING REQUESTED BY  
AND WHEN RECORDED MAIL TO**

**00 0092826**

Name **Pierce Richardson, Esq.**  
Address **Kirkpatrick & Lockhart LLP**  
**1500 Oliver Building**  
City & State **Pittsburgh, PA 15222**

**MAIL TAX STATEMENTS TO**

Name **Teledyne Technologies Incorporated**  
Address **2049 Century Park East**  
City & State **Los Angeles, CA 90067**

SPACE ABOVE THIS LINE FOR RECORDER'S USE

**GRANT DEED**

The undersigned Grantor declares

DOCUMENTARY TRANSFER TAX is \$ 0 00 - The grantor and grantee in this conveyance are comprised of the same parties who continue to hold the same proportionate interest in the property (CAL Revenue and Taxation Code § 11923(d))

Assessor's Parcel Nos 4223-008-003 and 4223-008-004

- incorporated area \_\_\_\_\_ City of \_\_\_\_\_
- computed on full value of property conveyed, OR
- computed on the full value less value of liens or encumbrances remaining at time of sale, and

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

**TELEDYNE INDUSTRIES, INC.**, a California corporation,

hereby GRANTS to

**TELEDYNE TECHNOLOGIES INCORPORATED**, a Delaware corporation,

the following described real property in the City of Los Angeles,  
County of Los Angeles, State of California

See Exhibit A attached hereto and made a part hereof (the "Property")

This conveyance is made subject to all reservations, exceptions, right-of-ways, easements and other matters of public record affecting the Property

MAIL TAX STATEMENTS AS DIRECTED ABOVE

In Witness Whereof, TELEDYNE INDUSTRIES, INC has caused this instrument to be executed by its Executive Vice President-Finance and Administration and Chief Financial Officer and Assistant Secretary thereunto duly authorized

TELEDYNE INDUSTRIES, INC

By [Signature]  
Name James L Murdy  
Title Executive Vice President-Finance and Administration and Chief Financial Officer

By [Signature]  
Name Mary W Snyder  
Title Assistant Secretary

COMMONWEALTH OF PENNSYLVANIA ) SS  
COUNTY OF ALLEGHENY )

On November 29, 1999, before me,  
Eva V Beres  
[name of Notary]

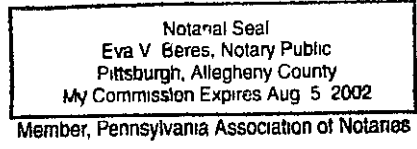
a Notary Public, personally appeared **James L Murdy and Mary W Snyder**

\_\_\_\_\_ personally known to me OR

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

WITNESS my hand and official seal

Eva V Beres  
Signature of Notary



OPTIONAL

- Individual(s)
- Corporate \_\_\_\_\_
- Officer(s) \_\_\_\_\_
- \_\_\_\_\_ Title(s)
- Partner(s)
- Attorney-in Fact
- Trustee(s)
- Subscribing Witness
- Guardian/Conservator
- Other \_\_\_\_\_

Signer is Representing  
Name of Person(s) or Entity(ies)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

THIS CERTIFICATE MUST BE ATTACHED TO THE DOCUMENT DESCRIBED ON THE RIGHT

Title or Type of Document \_\_\_\_\_  
Number of Pages \_\_\_\_\_ Date of Document \_\_\_\_\_  
Signer(s) Other Than Named Above \_\_\_\_\_

The land referred to herein is situated in the City of Los Angeles, County of Los Angeles, and State of California, and is described as follows

Parcel 1

That portion of Lot 3 of Tract No 1100, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 18 Pages 66 and 67, Maps, in the Office of the County Recorder of said County, described as follows

Beginning at the intersection of the Northwesterly line of said Lot with Southeasterly prolongation of the Northeasterly line of Beethoven Street (formerly Bethoven Street) 60 feet wide as shown on the map of the Venice Del Rey Tract No 2, as per map recorded in Book 5 Page 33, Maps, Records of said County, thence South  $35^{\circ}31'00''$  East at right angles to said Northwesterly line 255 90 feet, more or less, to the Southeasterly line of said Lot 3, thence North  $33^{\circ}52'25''$  East along said Southeasterly line 346 69 feet, thence North  $35^{\circ}31'00''$  West 133 87 feet, more or less, to the Northwesterly line of said Lot 3, thence South  $54^{\circ}29'00''$  West along said Northwesterly line 324 50 feet to the point of beginning

Excepting therefrom all oil, gas, minerals, petroleum and other hydrocarbon substances in and under said land, without the right to enter upon the surface of said land for the purpose of extracting or removing the same, but with the right to extract or remove the same from the subsurface of said land by surface operations from other lands as reserved by Sprague Electric Company and in deed recorded January 17, 1972 as Instrument No 466

Parcel 2

That portion of Lot 3 in Tract 1100, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 18, Pages 66 and 67 of Maps, in the Office of the County Recorder of said County

Beginning at the most Westerly corner of the land described in the deed recorded in Book 44755, Page 333 of Official Records of said County, thence South  $54^{\circ}29'00''$  West along the Northwesterly line of said Lot 3, a distance of 112 36 feet, thence South  $35^{\circ}31'00''$  East at right angles to said Northwesterly line 298 16 feet, more or less, to the Southeasterly line of said Lot, thence North  $33^{\circ}52'25''$  East along said Southeasterly line to the most Southerly corner of said land described in said deed recorded in Book 44755, Page 333 of Official Records of said County, thence North  $35^{\circ}31'00''$  West along the Southwesterly line of the land described in said last mentioned deed 255 90 feet, more or less, to the point of beginning.

EXCEPTING THEREFROM all oil, gas, minerals, petroleum and other hydrocarbon substances in and under said land, without the right to enter upon the surface of said land for the purpose of extracting or removing the same, but with the right to extract or remove the same from the subsurface of said land by surface operations from other lands

BEING the same property which PANAMA STREET LIMITED PARTNERSHIP, by its deed dated June 22, 1981 and recorded in the Official Records of Los Angeles County as document number 81-654586, granted and conveyed to TELEDYNE INDUSTRIES, INC , the Grantor herein

# Appendix E

Historical Title Records

**Teledyne Panama Street Property  
12870 Panama Street  
Los Angeles, CA 90066**

**Inquiry Number: 4246078.14S  
April 10, 2015**

## The EDR 1940 Chain of Title



**6 Armstrong Road  
Shelton, CT 06484  
800.353.0050  
[www.edrnet.com](http://www.edrnet.com)**

## EDR Chain of Title

The EDR Chain of Title Report tracks a line of successive owners from the present back to 1940 of a particular parcel of property, linked together by recorded transactions which pass title. Available nationwide, this report provides a summary of a property's ownership history and is a valuable source for determining the prior uses of a property

A network of professional abstractors following established procedures, uses client supplied address information to locate:

- Historical Chain of Title research
- Leases and Miscellaneous

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

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# EDR Chain of Title

## TARGET PROPERTY INFORMATION

### ADDRESS

Teledyne Panama Street Property  
12870 Panama Street  
Los Angeles, CA 90066

### Research Source

Source 1: [Los Angeles County Recorder of Deeds](#)  
Source 2: [Los Angeles County Assessor](#)  
Examiner's Note: [Public records of Los Angeles County, California were searched from January 1, 1940 to April 10, 2015, and no other deeds vesting title in the subject property were found of record during the period searched.](#)

## PROPERTY DESCRIPTION

Current Owner: Teledyne Technologies Incorporated, a Delaware corporation  
Legal Description: All that certain piece or parcel of land containing 1.41 acres, more or less, being that portion of Lot 3 of Tract No. 1100, as per map recorded in Book 18, Pages 66 and 67 of Maps, situate and lying in the County of Los Angeles, State of California.  
Property Identifiers: 4223-008-003  
Current Owner: Teledyne Technologies Incorporated, a Delaware corporation  
Legal Description: All that certain piece or parcel of land containing 0.69 acres, more or less, being that portion of Lot 3 of Tract No. 1100, as per map recorded in Book 18, Pages 66 and 67 of Maps, situate and lying in the County of Los Angeles, State of California.  
Property Identifiers: 4223-008-004

## HISTORICAL CHAIN OF TITLE

See Exhibit "A"

## LEASES AND MISCELLANEOUS

See Exhibit "B"

**EDR Chain of Title**

**Chain of Title**

**Exhibit "A"**

## EDR Chain of Title

### HISTORICAL CHAIN OF TITLE

#### PARCEL NO. 4223-008-003

##### **Chain 1**

Type of Deed: Deed  
Title is vested in: Robert Hindle  
Title received from: Clarence J. and Marie R. Lee  
Date Recorded: 08/11/1950  
Instrument #: 76501

##### **Chain 2**

Type of Deed: Deed  
Title is vested in: Sprague Electric Company  
Title received from: Robert Hindle  
Date Recorded: 05/09/1954  
Instrument #: 420005

##### **Chain 3**

Type of Deed: Deed  
Title is vested in: Isadore and Goldie Chernick  
Title received from: Sprague Electric Company  
Date Recorded: 01/17/1972  
Instrument #: 466

##### **Chain 4**

Type of Deed: Deed  
Title is vested in: Panama Street Partnership  
Title received from: Isadore and Goldie Chernick  
Date Recorded: 02/24/1981  
Instrument #: 198380

##### **Chain 5**

Type of Deed: Deed  
Title is vested in: Teledyne Industries, Inc.  
Title received from: Panama Street Partnership  
Date Recorded: 06/30/1981  
Instrument #: 654586

##### **Chain 6**

Type of Deed: Grant Deed  
Title is vested in: Teledyne Technologies Incorporated, a Delaware corporation  
Title received from: Teledyne Industries, Inc., a California corporation  
Date Recorded: 01/21/2000  
Instrument #: 92826

**PARCEL NO. 4223-008-004**

**Chain 1**

Type of Deed: Deed  
Title is vested in: Gregory E. and Virginia H. Mc Masters  
Title received from: Frank W. and Marjorie Barnaby  
Date Recorded: 06/17/1947  
Instrument #: 12143

**Chain 2**

Type of Deed: Deed  
Title is vested in: Sprague Electric Company  
Title received from: Gregory E. and Virginia H. Mc Masters  
Date Recorded: 04/10/1954  
Instrument #: 301848

**Chain 3**

Type of Deed: Deed  
Title is vested in: Isadore and Goldie Chernick  
Title received from: Sprague Electric Company  
Date Recorded: 01/17/1972  
Instrument #: 38278

**Chain 4**

Type of Deed: Deed  
Title is vested in: Panama Street Partnership  
Title received from: Isadore and Goldie Chernick  
Date Recorded: 02/24/1981  
Instrument #: 198380

**Chain 5**

Type of Deed: Deed  
Title is vested in: Teledyne Industries, Inc.  
Title received from: Panama Street Partnership  
Date Recorded: 06/30/1981  
Instrument #: 654586

**Chain 6**

Type of Deed: Grant Deed  
Title is vested in: Teledyne Technologies Incorporated, a Delaware corporation  
Title received from: Teledyne Industries, Inc., a California corporation  
Date Recorded: 01/21/2000  
Instrument #: 92826

**EDR Chain of Title**

**LEASES and MISCELLANEOUS**

**Exhibit "B"**

## EDR Chain of Title

### LEASES and MISCELLANEOUS

1. Type of Instrument:

First Party:

Second Party:

Recorded:

Book:

Page:

Document No.:

Comments:

2. Type of Instrument:

First Party:

Second Party:

Recorded:

Book:

Page:

Document No.:

Comments:



LEAD SHEET

00 0092826

RECORDED IN OFFICIAL RECORDS  
RECORDER'S OFFICE  
LOS ANGELES COUNTY  
CALIFORNIA  
1:21 PM JAN 21 2000

SPACE ABOVE THIS LINE FOR RECORDERS USE

TITLE(S)

DEED

FEE

D.T.T.

FEE \$13 W  
3

CODE  
20

CODE  
19

CODE  
9\_\_

NOTIFICATION SENT-\$4 ©

Assessor's Identification Number (AIN)  
To Be Completed By Examiner OR Title Company In Black Ink

Number of Parcels Shown

4 2 2 3

0 0 8

0 0 3

0 0 2

THIS FORM IS NOT TO BE DUPLICATED

**RECORDING REQUESTED BY  
AND WHEN RECORDED MAIL TO**

**00 0092826**

Name **Pierce Richardson, Esq.**  
Address **Kirkpatrick & Lockhart LLP**  
**1500 Olver Building**  
City & State **Pittsburgh, PA 15222**

**MAIL TAX STATEMENTS TO**

Name **Teledyne Technologies Incorporated**  
Address **2049 Century Park East**  
City & State **Los Angeles, CA 90067**

SPACE ABOVE THIS LINE FOR RECORDER'S USE

**GRANT DEED**

The undersigned Grantor declares

DOCUMENTARY TRANSFER TAX is \$ 0 00 - The grantor and grantee in this conveyance are comprised of the same parties who continue to hold the same proportionate interest in the property (CAL Revenue and Taxation Code § 11923(d))

Assessor's Parcel Nos 4223-008-003 and 4223-008-004

- incorporated area \_\_\_\_\_ City of \_\_\_\_\_  
 computed on full value of property conveyed, OR  
 computed on the full value less value of liens or encumbrances remaining at time of sale, and

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

**TELEDYNE INDUSTRIES, INC.**, a California corporation,

hereby GRANTS to

**TELEDYNE TECHNOLOGIES INCORPORATED**, a Delaware corporation,

the following described real property in the City of Los Angeles,  
County of Los Angeles, State of California

See Exhibit A attached hereto and made a part hereof (the "Property")

This conveyance is made subject to all reservations, exceptions, right-of-ways, easements and other matters of public record affecting the Property

MAIL TAX STATEMENTS AS DIRECTED ABOVE



In Witness Whereof, TELEDYNE INDUSTRIES, INC has caused this instrument to be executed by its Executive Vice President-Finance and Administration and Chief Financial Officer and Assistant Secretary thereunto duly authorized

TELEDYNE INDUSTRIES, INC

By James L Murdy  
Name James L Murdy  
Title Executive Vice President-Finance and Administration and Chief Financial Officer

By Mary W Snyder  
Name Mary W Snyder  
Title Assistant Secretary

COMMONWEALTH OF PENNSYLVANIA ) SS  
COUNTY OF ALLEGHENY )

On November 29, 1999, before me,  
Eva V Beres  
[name of Notary]

a Notary Public, personally appeared **James L Murdy and Mary W Snyder**

\_\_\_\_\_ personally known to me OR

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

WITNESS my hand and official seal

Eva V Beres  
Signature of Notary

Notarial Seal  
Eva V Beres, Notary Public  
Pittsburgh, Allegheny County  
My Commission Expires Aug 5 2002  
Member, Pennsylvania Association of Notaries

OPTIONAL

- \_\_\_ Individual(s)
- \_\_\_ Corporate \_\_\_\_\_
- Officer(s) \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_ Title(s)
- \_\_\_ Partner(s)
- \_\_\_ Attorney-in Fact
- \_\_\_ Trustee(s)
- \_\_\_ Subscribing Witness
- \_\_\_ Guardian/Conservator
- \_\_\_ Other \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Signer is Representing  
Name of Person(s) or Entity(ies)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

THIS CERTIFICATE MUST BE ATTACHED TO THE DOCUMENT DESCRIBED ON THE RIGHT

Title or Type of Document \_\_\_\_\_  
Number of Pages \_\_\_\_\_ Date of Document \_\_\_\_\_  
Signer(s) Other Than Named Above \_\_\_\_\_

The land referred to herein is situated in the City of Los Angeles, County of Los Angeles, and State of California, and is described as follows

Parcel 1

That portion of Lot 3 of Tract No 1100, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 18 Pages 66 and 67, Maps, in the Office of the County Recorder of said County, described as follows

Beginning at the intersection of the Northwesterly line of said Lot with Southeasterly prolongation of the Northeasterly line of Beethoven Street (formerly Bethoven Street) 60 feet wide as shown on the map of the Venice Del Rey Tract No 2, as per map recorded in Book 5 Page 33, Maps, Records of said County, thence South  $35^{\circ}31'00''$  East at right angles to said Northwesterly line 255 90 feet, more or less, to the Southeasterly line of said Lot 3, thence North  $33^{\circ}52'25''$  East along said Southeasterly line 346 69 feet, thence North  $35^{\circ}31'00''$  West 133 87 feet, more or less, to the Northwesterly line of said Lot 3, thence South  $54^{\circ}29'00''$  West along said Northwesterly line 324 50 feet to the point of beginning

Excepting therefrom all oil, gas, minerals, petroleum and other hydrocarbon substances in and under said land, without the right to enter upon the surface of said land for the purpose of extracting or removing the same, but with the right to extract or remove the same from the subsurface of said land by surface operations from other lands as reserved by Sprague Electric Company and in deed recorded January 17, 1972 as Instrument No 466

Parcel 2

That portion of Lot 3 in Tract 1100, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 18, Pages 66 and 67 of Maps, in the Office of the County Recorder of said County

Beginning at the most Westerly corner of the land described in the deed recorded in Book 44755, Page 333 of Official Records of said County, thence South  $54^{\circ}29'00''$  West along the Northwesterly line of said Lot 3, a distance of 112 36 feet, thence South  $35^{\circ}31'00''$  East at right angles to said Northwesterly line 298 16 feet, more or less, to the Southeasterly line of said Lot, thence North  $33^{\circ}52'25''$  East along said Southeasterly line to the most Southerly corner of said land described in said deed recorded in Book 44755, Page 333 of Official Records of said County, thence North  $35^{\circ}31'00''$  West along the Southwesterly line of the land described in said last mentioned deed 255 90 feet, more or less, to the point of beginning.

EXCEPTING THEREFROM all oil, gas, minerals, petroleum and other hydrocarbon substances in and under said land, without the right to enter upon the surface of said land for the purpose of extracting or removing the same, but with the right to extract or remove the same from the subsurface of said land by surface operations from other lands

BEING the same property which PANAMA STREET LIMITED PARTNERSHIP, by its deed dated June 22, 1981 and recorded in the Official Records of Los Angeles County as document number 81-654586, granted and conveyed to TELEDYNE INDUSTRIES, INC , the Grantor herein

# Appendix F

Select Previous Environmental Investigation Assessment Reports and Records




## **PHASE II ENVIRONMENTAL SITE ASSESSMENT**


12870 Panama Street  
Los Angeles, California 90066

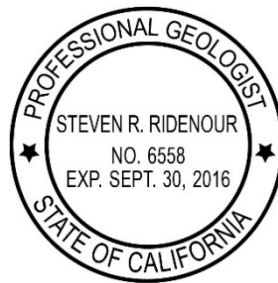
MCGU-15-5422  
September 9, 2015

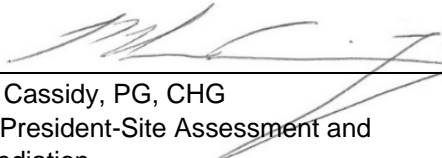
**Alta Environmental**  
3777 Long Beach Boulevard, Annex Building  
Long Beach, CA 90807 [www.altaenviron.com](http://www.altaenviron.com)  
P (562) 495-5777 F (562) 495-5877

# PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

  
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## TABLE OF CONTENTS

1. INTRODUCTION .....	1
2. SITE DESCRIPTION .....	1
3. REGIONAL GEOLOGY AND HYDROGEOLOGY .....	2
3.1 Regional Geology .....	2
3.2 Regional Hydrogeology .....	2
4. SITE ASSESSMENT .....	2
4.1 Pre-field Activities .....	2
4.1.1 Health and Safety Plan.....	2
4.1.2 Utility Clearance .....	2
4.2 Subsurface Sample Collection and Analysis .....	3
4.2.1 Soil-Matrix Sample Collection and Analysis .....	3
4.2.2 Soil Vapor Sample Collection and Analysis .....	3
4.2.3 Groundwater Grab-Sample Collection and Analysis .....	4
4.3 Equipment Decontamination .....	4
4.4 Investigation-derived Waste Disposal .....	4
5. FINDINGS AND CONCLUSIONS .....	5
5.1 Lithology .....	5
5.2 Analytical Results .....	5
5.2.1 Soil Matrix Samples.....	5
5.2.1.1 Volatile Organic Compounds .....	5
5.2.1.2 Metals .....	5
5.2.1.3 Total Petroleum Hydrocarbons .....	5
5.2.1.4 Polychlorinated Biphenyls and Polycyclic Aromatic Hydrocarbons	6
5.2.2 Soil Vapor Samples .....	6
5.2.3 Groundwater Samples.....	6
5.2.3.1 Volatile Organic Compounds .....	6
5.2.3.2 Total Petroleum Hydrocarbons .....	6
6. RECOMMENDATIONS.....	7
7. REFERENCES .....	8

### Tables

Table 1	Soil Matrix Sample Results for VOCs
Table 2	Soil Matrix Sample Results for Title 22 Metals
Table 3	Soil Matrix Results for TPH
Table 4	Soil Matrix Results for PCBs and PAHs
Table 5	Soil Vapor Sample Results for VOCs
Table 6	Groundwater Sample Results for VOC
Table 7	Groundwater Sample Results for TPH

## **TABLE OF CONTENTS**

### **Figures**

- Figure 1 Site Vicinity Map
- Figure 2 Site Layout and Boring Location Map
- Figure 3 Detail View – Facilities Maintenance Building

### **Appendices**

- Appendix A Boring Logs
- Appendix B Laboratory Analytical Reports

## 1. INTRODUCTION

Alta Environmental LP (Alta) has prepared this Phase II Environmental Site Assessment (ESA) report for the property located at 12870 Panama Street in the City of Los Angeles, California (hereafter referred to as the "Site"). The objective of this investigation was to assess the Recognized Environmental Conditions (RECs) identified in our Phase I ESA report of the subject property (Alta, 2015). The scope of work was developed to investigate potential subsurface impacts related to the RECs, which included a 250-gallon waste oil underground storage tank (UST), two former subsurface hydraulic lifts, an abandoned wastewater clarifier, and the neighboring former electronics and aerospace manufacturing site (12922 Panama Street) to the west. Although not identified as a REC, due to the reported historical usage of solvents and tin/lead electroplating activities at the adjacent property to the east (12820 Panama Street), the scope of work included an assessment along the eastern side of the Site.

## 2. SITE DESCRIPTION

The subject property is approximately 2.15 acres and located within a mixed commercial and residential area of Los Angeles, California. The subject property is bound to the north by Panama Street and residential buildings, to the east by Teledyne Reynolds, to the south by E-Z Storage, and to the west by vacant buildings most recently occupied by Teledyne Microelectronic Technologies.

At the time of our investigation, the subject property was developed with an approximately 17,178 square foot mixed concrete tilt up and brick construction administration building with an attached 930 square foot wooden construction maintenance shed, two concrete-block out-buildings (one approximately 1,424 square foot facilities maintenance building, and one 600 square foot storage building with two attached storage sheds), and one 600 square foot wooden construction out-building (used for storage). In addition, there were two approximately 200 square foot, fenced storage areas, and three sea/land metal shipping containers (approximately 8 x 8 x 20 feet each) on site. The remaining areas of the property were covered with asphalt and concrete paving. Within the southern and western portions of the property, a drainage swale crossed the property and channeled surface runoff to Panama Street.

Two subsurface hydraulic lifts and one 250-gallon waste oil UST were formerly located within the 1,424 square foot facilities maintenance building located along the southeastern property boundary. According to a 1996 UST Closure Report prepared by All Environmental, Inc. (AEI, 1996), the UST and the two hydraulic lifts were removed and properly disposed under City of Los Angeles Fire Department (LAFD) oversight. During the removal process, the waste-oil UST and two hydraulic lifts appeared to be in good condition and had no signs of corrosion or rupture. Initial soil sampling conducted beneath the UST excavation indicated soil concentrations of total petroleum hydrocarbons (TPH) ranging from 1,100 to 1,700 milligrams per kilogram (mg/kg). Soil samples were also analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX). Concentrations of BTEX were not detected above laboratory detection limits. Due to elevated concentrations of TPH, AEI excavated to 10 feet below ground surface (bgs) and resampled. The reported concentrations of the second round of confirmation sampling were below cleanup levels. A no further action finding dated April 1, 1996 was issued by the LAFD.

In addition, an abandoned wastewater clarifier is located along the northwestern property boundary between the two driveways along Panama Street at the western corner of the Site. The clarifier was reportedly utilized by a previous site user to process wastewater from a vehicle wash rack. During abandonment activities, the clarifier was filled with sand, capped with concrete, and the connections to the sanitary sewer were disconnected and capped.

A Site Vicinity Map is presented as Figure 1 and a Site Layout and Boring Location Map is included as Figure 2. A detailed map of the former UST/hydraulic lift area is provided as Figure 3.



### **3. REGIONAL GEOLOGY AND HYDROGEOLOGY**

#### **3.1 Regional Geology**

The Site is situated within the Ballona Gap of the Santa Monica Basin. Holocene age alluvium forms much of the surficial deposits in this area, including clay-rich Bellflower aquiclude and underlying gravels of the Ballona aquifer (Department of Water Resources [DWR], 1961). Soils encountered during Alta's assessment of the Site were predominantly clay with localized lenses of silt and sand to 10 feet bgs, underlain by alternating sequences of clay and sand to total depths explored.

#### **3.2 Regional Hydrogeology**

The Site is situated within the Coastal sub-basin of the Santa Monica Basin, near the southern boundary. The basin is bound by the Santa Monica Mountains to the northwest, the Pacific Ocean to the west, the Newport-Inglewood fault to the northeast, and the Ballona escarpment and Baldwin Hills to the south and southeast. The primary groundwater producing zones within the Santa Monica basin include the aquifers within the recent alluvium and the underlying San Pedro Formation (Silverado Aquifer) (DWR, 1961). The nearest surface water body to the Site is Ballona Creek, located approximately ¼ mile southeast of the Site (Figure 1).

As determined during this investigation, depth to the uppermost groundwater zone at the subject Site ranges from approximately 10.5 to 13 feet bgs. Based on our recently reported groundwater monitoring events conducted at the adjacent 12922 Panama Street site to the west (first and second quarter 2015 groundwater monitoring events), the groundwater flow direction of the uppermost groundwater zone is to the southwest at a gradient of 0.0034 to 0.0036-feet per foot (Alta, 2015).

### **4. SITE ASSESSMENT**

#### **4.1 Pre-field Activities**

##### **4.1.1 Health and Safety Plan**

Prior to conducting field work for the project, Alta prepared a site-specific Health and Safety Plan (HASP) that was implemented per California Occupational Safety and Health Administration California Code of Regulations (CCR) Title 8, Section 5192 requirements. The scope of work and potential contaminants that could be encountered during the investigation was addressed in the HASP. The on-site health and safety officer was responsible for implementation of the HASP. Daily tailgate meetings were held with Alta personnel and subcontractors at the beginning of each day of fieldwork. The scope of work, safety hazards, and safety procedures were discussed during the tailgate meetings. All field personnel, including subcontractors, were required to review and sign the HASP before beginning any fieldwork. All Alta and subcontractor personnel conducting field work onsite have received the OSHA Hazardous Waste Operation training in accordance with 29 CFR 1910.120 and CCR Title 8, Section 5192. The Site assessment work was completed with no reportable injuries or illnesses.

##### **4.1.2 Utility Clearance**

Alta conducted a site reconnaissance to locate and mark all proposed boring locations within the work areas. These locations were inspected for site accessibility, underground utilities, overhead power lines, and any additional potential issues that may be encountered during fieldwork. All locations were marked with white spray paint, as required by Underground Service Alert (USA). USA was notified at least 48 hours before any drilling activities commenced at the Site.

A geophysical survey was also conducted prior to drilling activities by Spectrum Geophysics of Burbank, California, for the purpose of locating identifiable buried utilities and other subsurface anomalies in the vicinity of each proposed boring location. The equipment used in the geophysical survey consisted of a

Radio Detection 4000 transmitter with matched receiver, Dynatel 500A transmitter with matched receiver, shallow focus metal detector (M-scope), and MALA E-Z Locator ground penetrating radar unit coupled to a 500-MHz antenna. A subsurface electrical line was located along the line of the proposed boring locations, requiring each boring to be slightly offset laterally to avoid contact with the line.

## 4.2 Subsurface Sample Collection and Analysis

A total of 12 borings (B1 through B12) were advanced at the Site to various depths ranging from approximately 10.5-feet to 14-feet bgs utilizing both hand augering equipment and direct-push Geoprobe drilling methods. Various combinations of soil, soil-vapor, and ground water were collected from each of the borings, as discussed in the following sections. All reusable drilling and sampling equipment was cleaned before each use utilizing a three-bucket wash consisting of a non-phosphate detergent wash, tap water, and deionized/distilled water. Following completion of the investigation, all borings were abandoned by removing any installed vapor-well tubing to the extent possible, backfilling with hydrated bentonite, and sealing the penetration with similar surfacing materials. Borings B1 through B12 are presented on the attached Figure 2. Borings B1 through B5 are also depicted on Figure 3.

### 4.2.1 Soil-Matrix Sample Collection and Analysis

Soil samples were collected at depths of 2.5, 5, and 10 feet bgs from each of the 12 borings. For the soil borings drilled using direct-push methods, soil samples were collected using a core sampler lined with acetate sleeves. For the soil borings drilled using hand-auger equipment, soil samples were collected using a slide-hammer lined with stainless steel rings. Following collection, each sample was properly preserved, capped, sealed, labeled, and stored in a chilled ice chest for transport under chain-of-custody documentation to a California certified environmental testing laboratory.

The soils encountered during the investigation were logged at each sample depth using the Unified Soils Classification System under the supervision of a California Professional Geologist and monitored with a photo-ionization detector (PID) calibrated to hexane. The lithology, PID readings, field observations, and sampling depths were documented on boring logs for each location (Appendix A).

Soil samples were analyzed for TPH as gasoline (TPH-g), diesel (TPH-d), and motor oil (TPH-o) by EPA Method 8015M, volatile organic compounds (VOCs) by EPA Method 8260B, and Title 22 Metals by EPA Method 6010B/7471A. Selected samples from borings B4 (5 feet bgs) and B5 (10 feet bgs), located within the former 250-gallon waste oil UST area, were also analyzed for polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8310, and polychlorinated biphenyls (PCBs) by EPA Method 8082. All soil samples collected for VOC analysis were preserved using in-field preservation kits in accordance with EPA Method 5035. Laboratory analytical reports and chain-of-custody documentation for the soil samples are presented in Appendix B. A summary of the soil-matrix analytical results for VOCs, Title 22 metals, TPH, and PAHs/PCBs are included in Tables 1, 2, 3, and 4, respectively.

### 4.2.2 Soil Vapor Sample Collection and Analysis

Soil vapor sampling was conducted utilizing vapor probes installed in nine of the 12 bore holes (B4 through B12) advanced during soil matrix sampling. All soil vapor samples were analyzed for VOCs by EPA Method 8260B using an onsite mobile laboratory and were collected in general accordance with the Department of Toxic Substances Control (DTSC) and California Regional Water Quality Control Board – Los Angeles Region (LARWQCB) *Advisory – Active Soil Gas Investigations (2015)* protocol (Advisory).

**Probe Installation:** Dual-nested soil vapor probes were installed at 5- and 10-feet bgs in borings B4 through B12. Each soil vapor probe was placed within a one-foot sand pack. One foot of dry granular bentonite was placed on top of each sand pack to preclude the infiltration of hydrated bentonite grout. The boreholes were then grouted between probes and to the surface with hydrated bentonite. Teflon® tubing (¼ inch) was connected from the vapor point to the surface. The end of the tubing was labeled with

the vapor well number, depth, and date and time of construction, and a three-way valve was installed to eliminate ambient air diffusion into the well. Soil vapor wells, once set, were allowed to equilibrate for a minimum of two hours for all direct-push borings and a minimum of 48 hours for all hand-auger borings prior to sample collection.

**Purge Volume Test:** A three-volume purge test (one, three, and ten purge volumes) was conducted at sampling location B5-5' to establish the optimal purge volume to be used for the probes in accordance with the Advisory. The purge flow rate was approximately 200 milliliters per minute (mL/min). Based on the purge volume test, the optimal purge was determined to be three volumes.

**Sample Collection:** Soil vapor samples were collected from each probe in either 250-milliliter (mL) or 150-mL glass sample blubs following the removal of the appropriate purge volume. The samples were collected through a valve connected to the tubing attached at the top of each probe, withdrawing each sample at a rate of 200 mL/min or less. The samples were immediately transferred to the onsite mobile laboratory for direct injection into a gas chromatograph for VOC analysis, in accordance with the Advisory. All soil vapor samples collected were documented on a chain-of-custody form.

**Leak Test:** A leak test was conducted at each soil vapor probe location to determine if leakage was present at the boring surface. Isopropanol was used as the source of the tracer compound. The tracer gas compounds were not detected in any of the soil vapor samples.

**Mobile Laboratory Analysis:** The soil vapor samples collected for this investigation were analyzed for VOCs by EPA Method 8260B by an onsite mobile laboratory. The laboratory analytical reports and chain-of-custody documentation for the soil vapor samples are presented in Appendix B. The mobile laboratory soil-vapor sample results are tabulated in Table 5.

#### **4.2.3 Groundwater Grab-Sample Collection and Analysis**

Groundwater grab samples were collected from borings B5, B8, and B11 using temporary groundwater sampling wells. Samples were collected from single-use/disposable polyethylene tubing and transferred to 40-mL vials containing preservative and pre-cleaned sample containers, then sealed, labeled, and stored in a chilled ice chest for transport under chain-of-custody documentation to a State of California-certified laboratory for analysis. The groundwater samples were analyzed for TPH-g, TPH-d, and TPH-o by EPA Method 8015M and VOCs by EPA Method 8260B. The laboratory analytical reports and chain-of-custody documentation for these samples are presented in Appendix B, and the results are tabulated in Tables 6 and 7.

### **4.3 Equipment Decontamination**

All reusable soil and groundwater sampling/measuring equipment (sampling rods, electronic interface probe, water meters, etc.) were decontaminated prior to use utilizing a three-bucket wash consisting of a non-phosphate detergent wash, tap water, and distilled water. The augers used to drill with the hollow stem auger rig were steam-cleaned over an auger rack that permits collection of decontamination water.

### **4.4 Investigation-derived Waste Disposal**

Investigation-derived wastes (soil cuttings, decontamination water, and well purge water) generated during the field operations were placed in 55-gallon Department of Transportation (DOT) drums and temporarily stored on-site, pending disposal. One partial drum of soil waste and one partial drum of decontamination water waste were generated during the investigation and are currently pending disposal.

## 5. FINDINGS AND CONCLUSIONS

### 5.1 Lithology

Soils encountered during this investigation predominately consisted of layers of clays and silty sands or sandy silts. Concrete debris was found in borings B1, B3, and B5. These borings were located in the vicinity of the former hoists and UST. Groundwater was observed in borings B5, B7, B8, B9 and B11 at depths ranging from approximately 9.5 feet to 10.5 feet bgs. No staining or odors were noted in any of the borings. No significant PID readings were detected.

### 5.2 Analytical Results

A discussion of the laboratory analytical results is presented in the following sections. The results are presented in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), milligrams per kilogram ( $\text{mg}/\text{kg}$ ), and micrograms per liter ( $\mu\text{g}/\text{L}$ ). Some data have been qualified by the laboratory with a "J-flag," indicating that the analyte was detected; however, the result is an estimated value between the method detection limit (MDL) and the reporting limit (RL).

#### 5.2.1 Soil Matrix Samples

A tabulated summary of the laboratory analytical results for VOCs, Title 22 metals, TPH, and PCBs/PAHs in soil-matrix are provided in Tables 1, 2, 3, and 4, respectively.

##### 5.2.1.1 Volatile Organic Compounds

VOCs concentrations were not reported above MDLs, with the exception of acetone (ND to  $64 \mu\text{g}/\text{kg}$ ), benzene (ND to  $0.65\text{J} \mu\text{g}/\text{kg}$ ), 2-butanone (ND to  $5.7\text{J} \mu\text{g}/\text{kg}$ ), carbon disulfide (ND to  $0.26\text{J} \mu\text{g}/\text{kg}$ ), chloromethane (ND to  $0.24\text{J} \mu\text{g}/\text{kg}$ ), tetrachloroethene (PCE) (ND to  $1.2 \mu\text{g}/\text{kg}$ ), trichloroethene (TCE) (ND to  $2.4 \mu\text{g}/\text{kg}$ ), and tert-butyl alcohol (ND –  $5.8\text{J} \mu\text{g}/\text{kg}$ ). These results are considered trace concentrations and are all below the U.S. Environmental Protection Agency Regional Screening Levels (RSLs) for an industrial/commercial land use scenario. These concentrations are also below the LARWQCB maximum soil screening levels (MSSLs) for protection of groundwater (LARWQCB, 1996).

##### 5.2.1.2 Metals

Concentrations of Title 22 Metals were reported below the corresponding commercial/industrial land use scenario Office of Environmental Health Hazard Assessment California Human Health Screening Levels (CHHSLs), with the exception of arsenic (Cal-EPA, 2010). Concentrations of arsenic were reported above the commercial/industrial CHHSL ( $0.24 \text{mg}/\text{kg}$ ) for all analyzed samples, except for sample B7-10. The elevated arsenic concentrations in shallow soils may be related to the presence of fill in this area. Arsenic is a naturally occurring metal in southern California soils and elevated concentrations of arsenic are frequently encountered in soil sample laboratory analyses.

##### 5.2.1.3 Total Petroleum Hydrocarbons

TPH-g concentrations were not reported above the laboratory MDLs. Several soil samples exhibited low concentrations of TPH-d ranging from ND to  $19 \text{mg}/\text{kg}$ , with the highest concentration from sample B4-5. TPH-o concentrations were not reported above the laboratory MDLs with the exception of B4-5 ( $120 \text{mg}/\text{kg}$ ). These concentrations are below the LARWQCB maximum soil screening levels (MSSLs) for protection of groundwater (LARWQCB, 1996).

#### 5.2.1.4 Polychlorinated Biphenyls and Polycyclic Aromatic Hydrocarbons

PCB concentrations were not reported above MDLs by the laboratory in either of the soil samples analyzed (B4-5 and B5-10).

PAH concentrations were not reported above MDLs by the laboratory with the exception of benzo(k)fluoranthene (38 µg/kg) from boring B4 at 5 feet bgs (Table 4). As indicated in the DTSC document: *Use of the Northern and Southern California Polynuclear Aromatic Hydrocarbon (PAH) Studies in the Manufactured Gas Plant Site Cleanup Process* (dated July 1, 2009), benzo(k)fluoranthene is one of the seven PAH compounds that are part of the Total Benzo(a)pyrene Equivalent (B[a]P) concentrations for toxicity evaluation in the soil-matrix. In accordance with the DTSC guidance document, the concentration of the only B(a)P compound that was detected (benzo(k)fluoranthene at 0.038 mg/kg) was multiplied by its Toxic Equivalency Factor (0.01). The resultant calculation was 0.00038 mg/kg. As indicated in the study, a B(a)P concentration of greater than 0.9 mg/kg is considered above background levels, and this was used as the screening level for PAH concentrations during this investigation. The concentration of 0.00038 mg/kg is significantly below the DTSC screening level of 0.9 mg/kg. Therefore, the concentration of benzo(k)fluoranthene (0.038 mg/kg) is not considered an environmental concern for the subject site.

### 5.2.2 Soil Vapor Samples

As indicated on Table 5, VOC concentrations in soil vapor were not detected above MDLs with the exception of benzene, ethylbenzene, PCE, toluene, TCE, and xylenes. Low concentrations of PCE were detected at B12-5, B12-10, and B12-10 (duplicate), ranging from 0.40 µg/l to 0.47 µg/l. Low concentrations of TCE were detected at B10-5, B10-10, B12-5, B12-10, and B12-10, ranging from 0.076J µg/l to 0.29 µg/l. All VOC concentrations in soil vapor are below the corresponding commercial/industrial CHHSLs for soils below buildings constructed without engineered fill.

Note that as indicated in the *Report of Foundation Investigation* by LeRoy Crandall and Associates for this site dated August 6, 1981, fill soils were observed in their borings drilled at that time. The report states “the fill was found to be firm at the boring locations; however, to our knowledge, the fill was not observed and tested during placement and the uniformity of the fill is questionable.” Therefore, the fill may not have been engineered and compacted to current standards. The CHHSLs for “soils below buildings constructed without engineered fill” may thus apply to the subject Site.

### 5.2.3 Groundwater Samples

#### 5.2.3.1 Volatile Organic Compounds

As indicated on Table 6, VOCs in groundwater samples were not reported above MDLs, with the exception of a trace detection of 2-butanone from boring B5 (4.8J µg/l). No exceedances of the California Department of Public Health Maximum Contaminant Levels (MCLs) for VOCs in drinking water were identified in any of the groundwater samples.

#### 5.2.3.2 Total Petroleum Hydrocarbons

As indicated on Table 7, TPH-g concentrations were not detected in any of the analyzed groundwater samples (B5, B8, and B11). Concentrations of TPH-d were detected in groundwater samples from borings B5 (1,500 µg/l), B8 (65 µg/l), and B11 (37J µg/l). Concentrations of TPH-o were detected only in the sample from boring B5 (190J µg/l). The highest TPH-d concentration was detected in the groundwater sample collected at B5, located in the immediate area of the former waste oil UST (Figure 3).

Note there are no specific screening levels for TPH-d in groundwater. However, based on the TPH-d concentration at B5 (1,500 µg/l), dissolved-phase TPH-d may have migrated in groundwater away from the UST area.

## **6. RECOMMENDATIONS**

The detected concentrations of TPH-d in groundwater at boring B5 may indicate a historical release from the former UST. Alta recommends further assessment to investigate the extent of groundwater impact.

## 7. REFERENCES

1. Alta Environmental, *Second Quarter 2015 Groundwater Monitoring Report, Panama Street Site*, July 15, 2015.
2. Alta Environmental, *Phase I Environmental Site Assessment Report, 12870 Panama Street*, July 29, 2015.
3. California Department of Water Resources (DWR), *Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County*, Bulletin Number 104, 1961.
4. California Environmental Protection Agency (CalEPA), *Revised California Human Health Screening Levels for Lead*, September, 2009.
5. CalEPA, *Use of California Human Health Screening Levels in Evaluation of Contaminated Properties*, January, 2005.
6. California Regional Water Quality Control Board, Los Angeles Region (LARWQCB), *Interim Site Assessment and Cleanup Guidebook*, May, 1996.
7. Department of Toxic Substances Control/California Regional Water Quality Control Board – Los Angeles and San Francisco Region (DTSC/LARWQCB), *Advisory – Active Soil Gas Investigations*; July 2015.
8. DTSC, *Use of the Northern and Southern California Polynuclear Aromatic Hydrocarbon (PAH) Studies in the Manufactured Gas Plant Site Cleanup Process*, July 1, 2009,
9. LeRoy Crandall and Associates, *Report of Foundation Investigation*, August 6, 1981.
10. United States Environmental Protection Agency, *Low Stress Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells*, July 30, 1996, revised January 19, 2010.

## **TABLES**

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**TABLE 1**  
Soil Matrix Sample Results for VOCs  
Phase II Panama Street  
12870 Panama Street  
Los Angeles, California

VOCs in Soil by EPA Method 8260B	Sample ID: B1-10 B2-10 B3-5 B3-10 B4-5 B5-10								
	Date: 8/6/2015 8/6/2015 8/6/2015 8/6/2015 8/6/2015 8/6/2015								
	MDL (µg/kg)	RL (µg/kg)	RSL (µg/kg)	VOC Concentration (µg/kg)					
Acetone	0.15-6.7	33-60	6.70E+08	11J	9.9J	5.1J	13J	26J	11J
Benzene	0.087-0.25	0.67-1.2	5.10E+03	ND	ND	ND	0.13J	ND	0.18J
Bromobenzene	0.14-0.82	0.67-1.2		ND	ND	ND	ND	ND	ND
Bromochloromethane	0.28-0.75	1.3-2.4		ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.16-0.95	0.67-1.2		ND	ND	ND	ND	ND	ND
Bromoform	0.53-11	3.3-6		ND	ND	ND	ND	ND	ND
Bromomethane	4.5-10	13-24		ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.19-4.1	13-24	1.90E+08	ND	ND	ND	ND	ND	ND
n-Butylbenzene	0.1-0.69	0.67-1.2		ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.18-0.62	0.67-1.2		ND	ND	ND	ND	ND	ND
tert-Butylbenzene	0.1-0.36	0.67-1.2		ND	ND	ND	ND	ND	ND
Carbon Disulfide	0.2-0.34	6.7-12	3.50E+06	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.19-0.31	0.67-1.2		ND	ND	ND	ND	ND	ND
Chlorobenzene	0.15-1.8	0.67-1.2		ND	ND	ND	ND	ND	ND
Chloroethane	0.28-1.6	1.3-2.4		ND	ND	ND	ND	ND	ND
Chloroform	0.16-0.36	0.67-1.2		ND	ND	ND	ND	ND	ND
Chloromethane	0.2-0.33	13-24	4.60E+05	ND	0.22J	ND	ND	ND	ND
2-Chlorotoluene	0.15-0.25	0.67-1.2		ND	ND	ND	ND	ND	ND
4-Chlorotoluene	0.14-0.68	0.67-1.2		ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.38-2.1	1.3-2.4		ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.3-1.9	3.3-6		ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.17-0.92	0.67-1.2		ND	ND	ND	ND	ND	ND
Dibromomethane	0.27-0.84	0.67-1.2		ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.15-0.25	0.67-1.2		ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.12-0.26	0.67-1.2		ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.15-0.53	0.67-1.2		ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.25-0.48	1.3-2.4		ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.14-0.37	0.67-1.2		ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.21-0.41	0.67-1.2		ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.23-0.37	0.67-1.2		ND	ND	ND	ND	ND	ND
c-1,2-Dichloroethene	0.19-0.6	0.67-1.2		ND	ND	ND	ND	ND	ND
t-1,2-Dichloroethene	0.34-0.55	0.67-1.2		ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.29-0.47	0.67-1.2		ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.17-0.39	0.67-1.2		ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.22-0.39	3.3-6		ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.22-0.35	1.3-2.4		ND	ND	ND	ND	ND	ND
c-1,3-Dichloropropene	0.17-0.72	0.67-1.2		ND	ND	ND	ND	ND	ND
t-1,3-Dichloropropene	0.18-0.65	1.3-2.4		ND	ND	ND	ND	ND	ND
Ethylbenzene	0.1-2.1	0.67-1.2		ND	ND	ND	ND	ND	ND
2-Hexanone	0.65-1.9	13-24		ND	ND	ND	ND	ND	ND
Isopropylbenzene	0.37-0.75	0.67-1.2		ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	0.42-1.6	0.67-1.2		ND	ND	ND	ND	ND	ND
Methylene Chloride	0.9-5.1	6.7-12		ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	0.97-4.7	13-24		ND	ND	ND	ND	ND	ND
Naphthalene	0.54-0.88	0.67-1.2		ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.34-0.72	1.3-2.4		ND	ND	ND	ND	ND	ND
Styrene	0.29-0.65	0.67-1.2		ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.16-0.41	0.67-1.2		ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.23-0.37	1.3-2.4		ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.14-0.61	0.67-1.2	1.00E+05	ND	ND	ND	ND	ND	ND
Toluene	0.34-1.1	0.67-1.2		ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.37-0.99	1.3-2.4		ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.21-0.34	1.3-2.4		ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.15-0.42	0.67-1.2		ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.24-0.42	0.67-1.2		ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.24-0.38	6.7-12		ND	ND	ND	ND	ND	ND
Trichloroethene	0.2-0.45	1.3-2.4	6.00E+03	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.25-0.99	6.7-12		ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.56-0.9	1.3-2.4		ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.39-0.65	1.3-2.4		ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.37-5.7	1.3-2.4		ND	ND	ND	ND	ND	ND
Vinyl Acetate	0.6-5.1	6.7-12		ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.32-0.54	0.67-1.2		ND	ND	ND	ND	ND	ND
p/m-Xylene	0.18-0.66	1.3-2.4		ND	ND	ND	ND	ND	ND
o-Xylene	0.35-0.6	0.67-1.2		ND	ND	ND	ND	ND	ND
Methyl-t-Butyl Ether (MTBE)	0.2-6.2	1.3-2.4		ND	ND	ND	ND	ND	ND
Tert-Butyl Alcohol (TBA)	0.57-5.6	13-21		ND	ND	ND	5.4J	4.7J	ND
Diisopropyl Ether (DIPE)	0.32-0.6	0.67-1.2		ND	ND	ND	ND	ND	ND
Ethyl-t-Butyl Ether (ETBE)	0.34-0.55	0.67-1.2		ND	ND	ND	ND	ND	ND
Tert-Amyl-Methyl Ether (TAME)	0.24-100	0.67-1.2		ND	ND	ND	ND	ND	ND
Ethanol	56-90	330-600		ND	ND	ND	ND	ND	ND
<b>Dilution Factor:</b>				<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

**NOTES:**

VOC = Volatile Organic Compound  
 RL = Reporting Limit  
 MDL = Method Detection Limit  
 ND = Indicated constituents not detected above the MDL  
 µg/L = micrograms per liter  
 J = Analyte detected; However result is an estimated value between the MDL and the RL

**TABLE 1**  
Soil Matrix Sample Results for VOCs  
Phase II Panama Street  
12870 Panama Street  
Los Angeles, California

VOCs in Soil by EPA Method 8260B	Sample ID:								
	Date:		B6-5	B6-10	B7-5	B7-10	B8-2.5	B8-5	
			8/5/2015	8/5/2015	8/5/2015	8/5/2015	8/5/2015	8/5/2015	
	MDL (µg/kg):	RL (µg/kg):	RSL (µg/kg):	VOC Concentration (µg/kg)					
Acetone	0.15-6.7	33-60	6.70E+08	7.9J	6.3J	5.5J	5.4J	19J	11.0J
Benzene	0.087-0.25	0.67-1.2	5.10E+03	ND	0.17J	ND	0.12J	0.54J	ND
Bromobenzene	0.14-0.82	0.67-1.2		ND	ND	ND	ND	ND	ND
Bromochloromethane	0.28-0.75	1.3-2.4		ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.16-0.95	0.67-1.2		ND	ND	ND	ND	ND	ND
Bromoform	0.53-11	3.3-6		ND	ND	ND	ND	ND	ND
Bromomethane	4.5-10	13-24		ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.19-4.1	13-24	1.90E+08	ND	ND	ND	ND	ND	ND
n-Butylbenzene	0.1-0.69	0.67-1.2		ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.18-0.62	0.67-1.2		ND	ND	ND	ND	ND	ND
tert-Butylbenzene	0.1-0.36	0.67-1.2		ND	ND	ND	ND	ND	ND
Carbon Disulfide	0.2-0.34	6.7-12	3.50E+06	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.19-0.31	0.67-1.2		ND	ND	ND	ND	ND	ND
Chlorobenzene	0.15-1.8	0.67-1.2		ND	ND	ND	ND	ND	ND
Chloroethane	0.28-1.6	1.3-2.4		ND	ND	ND	ND	ND	ND
Chloroform	0.16-0.36	0.67-1.2		ND	ND	ND	ND	ND	ND
Chloromethane	0.2-0.33	13-24	4.60E+05	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	0.15-0.25	0.67-1.2		ND	ND	ND	ND	ND	ND
4-Chlorotoluene	0.14-0.68	0.67-1.2		ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.38-2.1	1.3-2.4		ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.3-1.9	3.3-6		ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.17-0.92	0.67-1.2		ND	ND	ND	ND	ND	ND
Dibromomethane	0.27-0.84	0.67-1.2		ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.15-0.25	0.67-1.2		ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.12-0.26	0.67-1.2		ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.15-0.53	0.67-1.2		ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.25-0.48	1.3-2.4		ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.14-0.37	0.67-1.2		ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.21-0.41	0.67-1.2		ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.23-0.37	0.67-1.2		ND	ND	ND	ND	ND	ND
c-1,2-Dichloroethene	0.19-0.6	0.67-1.2		ND	ND	ND	ND	ND	ND
t-1,2-Dichloroethene	0.34-0.55	0.67-1.2		ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.29-0.47	0.67-1.2		ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.17-0.39	0.67-1.2		ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.22-0.39	3.3-6		ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.22-0.35	1.3-2.4		ND	ND	ND	ND	ND	ND
c-1,3-Dichloropropene	0.17-0.72	0.67-1.2		ND	ND	ND	ND	ND	ND
t-1,3-Dichloropropene	0.18-0.65	1.3-2.4		ND	ND	ND	ND	ND	ND
Ethylbenzene	0.1-2.1	0.67-1.2		ND	ND	ND	ND	ND	ND
2-Hexanone	0.65-1.9	13-24		ND	ND	ND	ND	ND	ND
Isopropylbenzene	0.37-0.75	0.67-1.2		ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	0.42-1.6	0.67-1.2		ND	ND	ND	ND	ND	ND
Methylene Chloride	0.9-5.1	6.7-12		ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	0.97-4.7	13-24		ND	ND	ND	ND	ND	ND
Naphthalene	0.54-0.88	0.67-1.2		ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.34-0.72	1.3-2.4		ND	ND	ND	ND	ND	ND
Styrene	0.29-0.65	0.67-1.2		ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.16-0.41	0.67-1.2		ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.23-0.37	1.3-2.4		ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.14-0.61	0.67-1.2	1.00E+05	ND	ND	ND	ND	ND	ND
Toluene	0.34-1.1	0.67-1.2		ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.37-0.99	1.3-2.4		ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.21-0.34	1.3-2.4		ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.15-0.42	0.67-1.2		ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.24-0.42	0.67-1.2		ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.24-0.38	6.7-12		ND	ND	ND	ND	ND	ND
Trichloroethene	0.2-0.45	1.3-2.4	6.00E+03	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.25-0.99	6.7-12		ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.56-0.9	1.3-2.4		ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.39-0.65	1.3-2.4		ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.37-5.7	1.3-2.4		ND	ND	ND	ND	ND	ND
Vinyl Acetate	0.6-5.1	6.7-12		ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.32-0.54	0.67-1.2		ND	ND	ND	ND	ND	ND
p/m-Xylene	0.18-0.66	1.3-2.4		ND	ND	ND	ND	ND	ND
o-Xylene	0.35-0.6	0.67-1.2		ND	ND	ND	ND	ND	ND
Methyl-t-Butyl Ether (MTBE)	0.2-6.2	1.3-2.4		ND	ND	ND	ND	ND	ND
Tert-Butyl Alcohol (TBA)	0.57-5.6	13-21		ND	4.5J	ND	ND	ND	ND
Diisopropyl Ether (DIPE)	0.32-0.6	0.67-1.2		ND	ND	ND	ND	ND	ND
Ethyl-t-Butyl Ether (ETBE)	0.34-0.55	0.67-1.2		ND	ND	ND	ND	ND	ND
Tert-Amyl-Methyl Ether (TAME)	0.24-100	0.67-1.2		ND	ND	ND	ND	ND	ND
Ethanol	56-90	330-600		ND	ND	ND	ND	ND	ND
<b>Dilution Factor:</b>				<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

**NOTES:**

VOC = Volatile Organic Compound  
 RL = Reporting Limit  
 MDL = Method Detection Limit  
 ND = Indicated constituents not detected above the MDL  
 µg/L = micrograms per liter  
 J = Analyte detected; However result is an estimated value between the MDL and the RL

**TABLE 1**  
Soil Matrix Sample Results for VOCs  
Phase II Panama Street  
12870 Panama Street  
Los Angeles, California

VOCs in Soil by EPA Method 8260B	Sample ID:								
	Date:		B8-10	B9-2.5	B9-5	B9-10	B10-2.5	B10-5	
			8/5/2015	8/5/2015	8/5/2015	8/5/2015	8/6/2015	8/6/2015	
	MDL (µg/kg):	RL (µg/kg):	RSL (µg/kg):	VOC Concentration (µg/kg)					
Acetone	0.15-6.7	33-60	6.70E+08	ND	20J	6.8J	5.8J	64	15J
Benzene	0.087-0.25	0.67-1.2	5.10E+03	0.15J	0.65J	ND	0.15J	0.40J	ND
Bromobenzene	0.14-0.82	0.67-1.2		ND	ND	ND	ND	ND	ND
Bromochloromethane	0.28-0.75	1.3-2.4		ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.16-0.95	0.67-1.2		ND	ND	ND	ND	ND	ND
Bromoform	0.53-11	3.3-6		ND	ND	ND	ND	ND	ND
Bromomethane	4.5-10	13-24		ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.19-4.1	13-24	1.90E+08	ND	ND	ND	ND	3.3J	ND
n-Butylbenzene	0.1-0.69	0.67-1.2		ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.18-0.62	0.67-1.2		ND	ND	ND	ND	ND	ND
tert-Butylbenzene	0.1-0.36	0.67-1.2		ND	ND	ND	ND	ND	ND
Carbon Disulfide	0.2-0.34	6.7-12	3.50E+06	ND	ND	ND	ND	0.26J	ND
Carbon Tetrachloride	0.19-0.31	0.67-1.2		ND	ND	ND	ND	ND	ND
Chlorobenzene	0.15-1.8	0.67-1.2		ND	ND	ND	ND	ND	ND
Chloroethane	0.28-1.6	1.3-2.4		ND	ND	ND	ND	ND	ND
Chloroform	0.16-0.36	0.67-1.2		ND	ND	ND	ND	ND	ND
Chloromethane	0.2-0.33	13-24	4.60E+05	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	0.15-0.25	0.67-1.2		ND	ND	ND	ND	ND	ND
4-Chlorotoluene	0.14-0.68	0.67-1.2		ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.38-2.1	1.3-2.4		ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.3-1.9	3.3-6		ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.17-0.92	0.67-1.2		ND	ND	ND	ND	ND	ND
Dibromomethane	0.27-0.84	0.67-1.2		ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.15-0.25	0.67-1.2		ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.12-0.26	0.67-1.2		ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.15-0.53	0.67-1.2		ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.25-0.48	1.3-2.4		ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.14-0.37	0.67-1.2		ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.21-0.41	0.67-1.2		ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.23-0.37	0.67-1.2		ND	ND	ND	ND	ND	ND
c-1,2-Dichloroethene	0.19-0.6	0.67-1.2		ND	ND	ND	ND	ND	ND
t-1,2-Dichloroethene	0.34-0.55	0.67-1.2		ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.29-0.47	0.67-1.2		ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.17-0.39	0.67-1.2		ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.22-0.39	3.3-6		ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.22-0.35	1.3-2.4		ND	ND	ND	ND	ND	ND
c-1,3-Dichloropropene	0.17-0.72	0.67-1.2		ND	ND	ND	ND	ND	ND
t-1,3-Dichloropropene	0.18-0.65	1.3-2.4		ND	ND	ND	ND	ND	ND
Ethylbenzene	0.1-2.1	0.67-1.2		ND	ND	ND	ND	ND	ND
2-Hexanone	0.65-1.9	13-24		ND	ND	ND	ND	ND	ND
Isopropylbenzene	0.37-0.75	0.67-1.2		ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	0.42-1.6	0.67-1.2		ND	ND	ND	ND	ND	ND
Methylene Chloride	0.9-5.1	6.7-12		ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	0.97-4.7	13-24		ND	ND	ND	ND	ND	ND
Naphthalene	0.54-0.88	0.67-1.2		ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.34-0.72	1.3-2.4		ND	ND	ND	ND	ND	ND
Styrene	0.29-0.65	0.67-1.2		ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.16-0.41	0.67-1.2		ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.23-0.37	1.3-2.4		ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.14-0.61	0.67-1.2	1.00E+05	ND	ND	ND	ND	ND	ND
Toluene	0.34-1.1	0.67-1.2		ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.37-0.99	1.3-2.4		ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.21-0.34	1.3-2.4		ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.15-0.42	0.67-1.2		ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.24-0.42	0.67-1.2		ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.24-0.38	6.7-12		ND	ND	ND	ND	ND	ND
Trichloroethene	0.2-0.45	1.3-2.4	6.00E+03	ND	ND	ND	ND	2.4	ND
Trichlorofluoromethane	0.25-0.99	6.7-12		ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.56-0.9	1.3-2.4		ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.39-0.65	1.3-2.4		ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.37-5.7	1.3-2.4		ND	ND	ND	ND	ND	ND
Vinyl Acetate	0.6-5.1	6.7-12		ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.32-0.54	0.67-1.2		ND	ND	ND	ND	ND	ND
p/m-Xylene	0.18-0.66	1.3-2.4		ND	ND	ND	ND	ND	ND
o-Xylene	0.35-0.6	0.67-1.2		ND	ND	ND	ND	ND	ND
Methyl-t-Butyl Ether (MTBE)	0.2-6.2	1.3-2.4		ND	ND	ND	ND	ND	ND
Tert-Butyl Alcohol (TBA)	0.57-5.6	13-21		ND	ND	ND	ND	ND	ND
Diisopropyl Ether (DIPE)	0.32-0.6	0.67-1.2		ND	ND	ND	ND	ND	ND
Ethyl-t-Butyl Ether (ETBE)	0.34-0.55	0.67-1.2		ND	ND	ND	ND	ND	ND
Tert-Amyl-Methyl Ether (TAME)	0.24-100	0.67-1.2		ND	ND	ND	ND	ND	ND
Ethanol	56-90	330-600		ND	ND	ND	ND	ND	ND
<b>Dilution Factor:</b>				<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

**NOTES:**  
VOC = Volatile Organic Compound  
RL = Reporting Limit  
MDL = Method Detection Limit  
ND = Indicated constituents not detected above the MDL  
µg/L = micrograms per liter  
J = Analyte detected; However result is an estimated value between the MDL and the RL

**TABLE 1**  
Soil Matrix Sample Results for VOCs  
Phase II Panama Street  
12870 Panama Street  
Los Angeles, California

VOCs in Soil by EPA Method 8260B	Sample ID: B10-10 B11-2.5 B11-5 B11-10 B12-2.5 B12-5 B12-10									
	Date: 8/6/2015 8/5/2015 8/5/2015 8/5/2015 8/5/2015 8/5/2015 8/5/2015									
	MDL (µg/kg):	RL (µg/kg):	RSL (µg/kg):	VOC Concentration (µg/kg)						
Acetone	0.15-6.7	33-60	6.70E+08	24J	24J	35J	11J	55	7.5J	6.1J
Benzene	0.087-0.25	0.67-1.2	5.10E+03	0.14J	ND	0.19J	ND	0.29J	ND	0.14J
Bromobenzene	0.14-0.82	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	0.28-0.75	1.3-2.4		ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.16-0.95	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
Bromoform	0.53-11	3.3-6		ND	ND	ND	ND	ND	ND	ND
Bromomethane	4.5-10	13-24		ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.19-4.1	13-24	1.90E+08	ND	ND	5.7J	ND	ND	ND	ND
n-Butylbenzene	0.1-0.69	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.18-0.62	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	0.1-0.36	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	0.2-0.34	6.7-12	3.50E+06	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.19-0.31	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.15-1.8	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.28-1.6	1.3-2.4		ND	ND	ND	ND	ND	ND	ND
Chloroform	0.16-0.36	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
Chloromethane	0.2-0.33	13-24	4.60E+05	ND	ND	ND	ND	ND	0.24J	ND
2-Chlorotoluene	0.15-0.25	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	0.14-0.68	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.38-2.1	1.3-2.4		ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.3-1.9	3.3-6		ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.17-0.92	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
Dibromomethane	0.27-0.84	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.15-0.25	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.12-0.26	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.15-0.53	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.25-0.48	1.3-2.4		ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.14-0.37	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.21-0.41	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.23-0.37	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
c-1,2-Dichloroethene	0.19-0.6	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
t-1,2-Dichloroethene	0.34-0.55	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.29-0.47	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.17-0.39	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.22-0.39	3.3-6		ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.22-0.35	1.3-2.4		ND	ND	ND	ND	ND	ND	ND
c-1,3-Dichloropropene	0.17-0.72	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
t-1,3-Dichloropropene	0.18-0.65	1.3-2.4		ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.1-2.1	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
2-Hexanone	0.65-1.9	13-24		ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	0.37-0.75	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	0.42-1.6	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	0.9-5.1	6.7-12		ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	0.97-4.7	13-24		ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.54-0.88	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.34-0.72	1.3-2.4		ND	ND	ND	ND	ND	ND	ND
Styrene	0.29-0.65	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.16-0.41	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.23-0.37	1.3-2.4		ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.14-0.61	0.67-1.2	1.00E+05	ND	ND	ND	ND	1.2	ND	ND
Toluene	0.34-1.1	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.37-0.99	1.3-2.4		ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.21-0.34	1.3-2.4		ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.15-0.42	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.24-0.42	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.24-0.38	6.7-12		ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.2-0.45	1.3-2.4	6.00E+03	0.57J	ND	ND	ND	0.56J	ND	ND
Trichlorofluoromethane	0.25-0.99	6.7-12		ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.56-0.9	1.3-2.4		ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.39-0.65	1.3-2.4		ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.37-5.7	1.3-2.4		ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	0.6-5.1	6.7-12		ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.32-0.54	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
p/m-Xylene	0.18-0.66	1.3-2.4		ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.35-0.6	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
Methyl-t-Butyl Ether (MTBE)	0.2-6.2	1.3-2.4		ND	ND	ND	ND	ND	ND	ND
Tert-Butyl Alcohol (TBA)	0.57-5.6	13-21		ND	4.8J	ND	ND	5.8J	ND	ND
Diisopropyl Ether (DIPE)	0.32-0.6	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
Ethyl-t-Butyl Ether (ETBE)	0.34-0.55	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
Tert-Amyl-Methyl Ether (TAME)	0.24-100	0.67-1.2		ND	ND	ND	ND	ND	ND	ND
Ethanol	56-90	330-600		ND	ND	ND	ND	ND	ND	ND
<b>Dilution Factor:</b>				<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

**NOTES:**

VOC = Volatile Organic Compound  
 RL = Reporting Limit  
 MDL = Method Detection Limit  
 ND = Indicated constituents not detected above the MDL  
 µg/L = micrograms per liter  
 J = Analyte detected; However result is an estimated value between the MDL and the RL

**TABLE 2**  
Soil Matrix Sample Results for Title 22 Metals  
Phase II Panama Street  
12870 Panama Street  
Los Angeles, California

Sample ID	Title 22 Metals by EPA Method 6010B/7471A (mg/kg) and Mercury by EPA Method 7471 (mg/kg) in Soil																	
	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury (By EPA 7471)
<b>MDL (mg/kg):</b>	<b>0.143-0.154</b>	<b>0.249-0.269</b>	<b>0.148-0.16</b>	<b>0.132-0.142</b>	<b>0.13-0.14</b>	<b>0.137-0.147</b>	<b>0.142-0.153</b>	<b>0.13-0.14</b>	<b>0.127-0.136</b>	<b>0.127-0.137</b>	<b>0.139-0.15</b>	<b>0.288-0.31</b>	<b>0.0824-0.0888</b>	<b>0.146-0.157</b>	<b>0.136-0.146</b>	<b>0.171-0.184</b>	<b>0.00559-0.00618</b>	
<b>RL (mg/kg):</b>	<b>0.721-0.777</b>	<b>0.721-0.777</b>	<b>0.481-0.518</b>	<b>0.24-0.259</b>	<b>0.481-0.518</b>	<b>0.24-0.259</b>	<b>0.24-0.259</b>	<b>0.481-0.518</b>	<b>0.481-0.518</b>	<b>0.24-0.259</b>	<b>0.24-0.259</b>	<b>0.721-0.777</b>	<b>0.24-0.259</b>	<b>0.721-0.777</b>	<b>0.24-0.259</b>	<b>0.962-1.04</b>	<b>0.0794-0.0877</b>	
<b>CHHSLs Ind (mg/kg):</b>	<b>380</b>	<b>0.24</b>	<b>63,000</b>	<b>190.0</b>	<b>7.5</b>	<b>100,000</b>	<b>3,200</b>	<b>38,000</b>	<b>320</b>	<b>4,800</b>	<b>16,000</b>	<b>4,800</b>	<b>4,800</b>	<b>63</b>	<b>6,700</b>	<b>100,000</b>	<b>180</b>	
B4-5	8/6/2015	ND	10.2	172	0.803	1.35	51.6	16.2	47.2	10.7	ND	42.3	ND	ND	0.391J	62.1	96.6	0.0235J
B5-10	8/6/2015	ND	5.48	93.4	0.385	0.963	28.3	7.66	28.8	8.28	0.707	22.4	ND	ND	0.281J	40.5	62.1	0.0168J
B6-5	8/5/2015	ND	8.31	168	0.771	1.56	42.6	10.8	34.2	19.8	ND	32	ND	ND	ND	51.2	76.7	0.0313J
B6-10	8/5/2015	ND	4.07	51.4	0.326	1.03	20.3	5.38	13	10.4	ND	17.3	ND	ND	0.295J	33.4	34.5	0.00749J
B7-5	8/5/2015	ND	17.1	167	0.73	1.85	38	11.4	28.1	20.1	ND	31	ND	ND	ND	58.1	69	0.0277J
B7-10	8/5/2015	ND	ND	66.5	0.374	1.01	23.1	6.72	14.6	11.2	ND	20.3	ND	ND	ND	34.5	39.9	0.0171J
B8-2.5	8/5/2015	ND	2.95	92.8	0.356	1.2	26.4	8.68	21.8	3.75	ND	18.1	ND	ND	0.638J	36.6	46.1	ND
B9-2.5	8/5/2015	ND	7.39	96.1	0.463	1.41	31.8	7.29	125	17.4	ND	16.1	ND	ND	0.486J	39.2	65.9	0.0511J
B10-2.5	8/6/2015	ND	4.04	111	0.444	1.62	38.6	9.38	172	24.4	ND	22.4	ND	ND	0.722J	44.3	91.9	0.0375J
B11-2.5	8/5/2015	ND	4.76	114	0.694	1.52	39.3	13	23.8	18.2	ND	32.7	ND	ND	ND	62.3	58.9	0.00825J
B11-10	8/5/2015	ND	3.12	71.7	0.392	1.35	29.9	7.1	15.2	12.7	ND	26.2	ND	ND	ND	43.7	44	0.0235J
B12-2.5	8/5/2015	ND	5.86	95.9	0.526	1.43	33.3	9.32	61.4	16.4	ND	18.7	ND	ND	ND	43.6	61.7	0.0227J

**NOTES:**  
mg/kg = milligrams per kilogram  
ND = Indicates constituent not detected at or above the MDL  
MDL = Method Detection Limit  
RL = Reporting Limit  
J = Analyte detected; however result is an estimated value between the MDL and the RL  
CHHSLs = California Health Hazard Screening Level, industrial/commercial land use scenario

**TABLE 3**  
 Soil Matrix Sample Results for TPH  
 Phase II Panama Street  
 12870 Panama Street  
 Los Angeles, California

Sample ID	Sample Date	TPHcc by EPA Method 8015M in Soil		
		TPH-GRO (C4-C12) (mg/kg)	TPH-DRO (C10-C28) (mg/kg)	TPH-ORO (C28-C36+) (mg/kg)
<b>MDL (mg/kg):</b>		<b>0.4-0.44</b>	<b>1.2-1.3</b>	<b>5.9-6</b>
<b>RL (mg/kg):</b>		<b>0.48-0.53</b>	<b>4.9-5.0</b>	<b>25.0</b>
B1-10	8/6/2015	ND	ND	ND
B2-10	8/6/2015	ND	ND	ND
B3-5	8/6/2015	ND	<b>3.3J</b>	ND
B3-10	8/6/2015	ND	ND	ND
B4-5	8/6/2015	ND	<b>19</b>	<b>120</b>
B5-10	8/6/2015	ND	<b>17</b>	ND
B6-5	8/5/2015	ND	<b>1.3J</b>	ND
B6-10	8/5/2015	ND	<b>1.7J</b>	ND
B7-5	8/5/2015	ND	<b>2.6J</b>	ND
B7-10	8/5/2015	ND	ND	ND
B8-2.5	8/5/2015	ND	<b>2.0J</b>	ND
B8-5	8/5/2015	ND	<b>5.7</b>	ND
B8-10	8/5/2015	ND	<b>4.9J</b>	ND
B9-2.5	8/5/2015	ND	<b>2.7J</b>	ND
B9-5	8/5/2015	ND	<b>4.0J</b>	ND
B9-10	8/5/2015	ND	<b>2.7J</b>	ND
B10-2.5	8/6/2015	ND	ND	ND
B10-5	8/6/2015	ND	ND	ND
B10-10	8/6/2015	ND	ND	ND
B11-2.5	8/5/2015	ND	<b>1.9J</b>	ND
B11-5	8/5/2015	ND	<b>6.9</b>	ND
B11-10	8/5/2015	ND	ND	ND
B12-2.5	8/5/2015	ND	<b>2.3J</b>	ND
B12-5	8/5/2015	ND	ND	ND
B12-10	8/5/2015	ND	ND	ND

**NOTES:**

ND = Indicates constituents not detected above the PQL

PQL = Practical Quantitation Limit

TPH-GRO = total petroleum hydrocarbons as gasoline range organics

TPH-DRO = total petroleum hydrocarbons as diesel range organics

TPH-ORO = total petroleum hydrocarbons as oil range organics

mg/kg = milligrams per kilogram

bgs = Below ground surface

**TABLE 4**  
 Soil Matrix Sample Results for PCBs and PAHs  
 Phase II Panama Street  
 12870 Panama Street  
 Los Angeles, California

Sample ID	Sample Date	EPA 8082	EPA8310		B(a)P Equivalent
		PCBs	Benzo(k)Fluoranthene	All Other PAHs	
<b>MDL (µg/kg):</b>		<b>21-43</b>	<b>1.7</b>	<b>NA</b>	<b>NA</b>
<b>RL (µg/kg):</b>		<b>50.0</b>	<b>10</b>	<b>NA</b>	<b>NA</b>
<b>Screening Level (µg/kg):</b>		<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>900.0</b>
B4-5	8/6/2015	ND	<b>38</b>	ND	<b>0.38</b>
B5-10	8/6/2015	ND	ND	ND	NA

**NOTES:**

ND = Indicates constituent not detected at or above the MDL

MDL = Method Detection Limit

RL = Practical Quantitation Limit

µg/kg = micrograms per kilogram

NA = Not Applicable

**TABLE 5**  
Soil Vapor Sample Results for VOCs  
Phase II Panama Street  
12870 Panama Street  
Los Angeles, California

VOCs in Soil Vapor by EPA Method 8260B	Sample ID:										
	Date:			B4-5	B4-10	B5-5-1PV	B5-5-3PV	B5-5-10PV	B5-10	B6-5	B6-10
	MDL (µg/L):	RL (µg/L):	CHHSLs Ind (µg/L):	8/10/2015	8/10/2015	8/10/2015	8/10/2015	8/10/2015	8/10/2015	8/10/2015	8/10/2015
VOC Concentration (µg/L)											
Acetone	5	10	--	ND	ND	ND	ND	ND	ND	ND	ND
t-Amyl Methyl Ether (TAME)	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.04	0.05	<b>0.122</b>	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.1	0.2	--	ND	ND	ND	ND	ND	ND	ND	ND
t-Butanol (TBA)	0.5	1	--	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.5	1	--	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	0.5	1	--	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.03	0.05	<b>0.085</b>	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	0.1	0.2	--	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.02	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.02	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.05	0.1	<b>0.167</b>	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.05	0.1	<b>44.4</b>	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.05	0.1	<b>88.7</b>	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl Ether (DiPE)	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.05	0.1	<b>1.4</b>	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl-t-Butyl Ether (EtBE)	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	0.5	1	--	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	0.5	1	--	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-t-butyl Ether (MtBE)	0.05	0.1	<b>13</b>	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.03	0.05	<b>0.11</b>	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.05	0.1	<b>0.6</b>	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.05	0.1	<b>380</b>	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.05	0.1	<b>2,800</b>	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.05	0.1	<b>1.8</b>	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.02	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane	0.1	0.2	--	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.01	0.05	<b>0.045</b>	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	0.1	0.2	<b>890</b>	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.05	0.1	<b>880</b>	ND	ND	ND	ND	ND	ND	ND	ND
<b>Dilution Factor:</b>				<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

**NOTES:**

VOC = Volatile Organic Compound  
 RL = Reporting Limit  
 MDL = Method Detection Limit  
 ND = Indicated constituents not detected above the MDL  
 µg/L = micrograms per liter  
 J = Analyte detected; However result is an estimated value between the MDL and the RL  
 CHHSLs = California Human Health Screening Levels, Industrial



**TABLE 5**  
Soil Vapor Sample Results for VOCs  
Phase II Panama Street  
12870 Panama Street  
Los Angeles, California

VOCs in Soil Vapor by EPA Method 8260B	Sample ID:										
	Date:		B7-5	B7-10	B7-10-DUP	B8-5	B8-10	B9-5	B9-10	B10-5	
	8/10/2015	8/10/2015	8/10/2015	8/10/2015	8/10/2015	8/10/2015	8/10/2015	8/10/2015	8/10/2015	8/10/2015	
MDL (µg/L):	RL (µg/L):	CHHSLs Ind (µg/L):	VOC Concentration (µg/L)								
Acetone	5	10	--	ND	ND	ND	ND	ND	ND	ND	ND
t-Amyl Methyl Ether (TAME)	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.04	0.05	<b>0.122</b>	<b>0.055</b>	ND	ND	<b>0.093</b>	ND	<b>0.061</b>	ND	ND
Bromobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.1	0.2	--	ND	ND	ND	ND	ND	ND	ND	ND
t-Butanol (TBA)	0.5	1	--	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.5	1	--	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	0.5	1	--	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.03	0.05	<b>0.085</b>	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	0.1	0.2	--	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.02	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.02	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.05	0.1	<b>0.167</b>	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.05	0.1	<b>44.4</b>	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.05	0.1	<b>88.7</b>	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl Ether (DiPE)	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.05	0.1	<b>1.4</b>	ND	ND	ND	<b>0.094J</b>	ND	ND	ND	ND
Ethyl-t-Butyl Ether (EtBE)	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	0.5	1	--	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	0.5	1	--	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-t-butyl Ether (MtBE)	0.05	0.1	<b>13</b>	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.03	0.05	<b>0.11</b>	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.05	0.1	<b>0.6</b>	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.05	0.1	<b>380</b>	<b>0.14</b>	<b>0.060J</b>	<b>0.063J</b>	<b>0.37</b>	ND	<b>0.15</b>	ND	<b>0.11</b>
1,2,3-Trichlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.05	0.1	<b>2,800</b>	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.05	0.1	<b>1.8</b>	ND	ND	ND	ND	ND	ND	ND	<b>0.29</b>
1,2,3-Trichloropropane	0.02	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane	0.1	0.2	--	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.01	0.05	<b>0.045</b>	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	0.1	0.2	<b>890</b>	<b>0.11J</b>	ND	ND	<b>0.27</b>	ND	<b>0.13J</b>	ND	<b>0.12J</b>
o-Xylene	0.05	0.1	<b>880</b>	ND	ND	ND	<b>0.080J</b>	ND	ND	ND	ND
<b>Dilution Factor:</b>				<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

**NOTES:**

- VOC = Volatile Organic Compound
- RL = Reporting Limit
- MDL = Method Detection Limit
- ND = Indicated constituents not detected above the MDL
- µg/L = micrograms per liter
- J = Analyte detected; However result is an estimated value between the MDL and the RL
- CHHSLs = California Human Health Screening Levels, Industrial



**TABLE 5**  
Soil Vapor Sample Results for VOCs  
Phase II Panama Street  
12870 Panama Street  
Los Angeles, California

VOCs in Soil Vapor by EPA Method 8260B	Sample ID: B10-10 B11-6 B11-9.5 B12-5 B12-10 B12-10-DUP								
	Date: 8/10/2015 8/10/2015 8/10/2015 8/10/2015 8/10/2015 8/10/2015								
	MDL (µg/L):	RL (µg/L):	CHHSLs Ind (µg/L):	VOC Concentration (µg/L)					
Acetone	5	10	--	ND	ND	ND	ND	ND	ND
t-Amyl Methyl Ether (TAME)	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Benzene	0.04	0.05	<b>0.122</b>	ND	<b>0.060</b>	<b>0.081</b>	<b>0.044J</b>	<b>0.041J</b>	<b>0.045J</b>
Bromobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Bromochloromethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Bromoform	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Bromomethane	0.1	0.2	--	ND	ND	ND	ND	ND	ND
t-Butanol (TBA)	0.5	1	--	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.5	1	--	ND	ND	ND	ND	ND	ND
n-Butylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Carbon Disulfide	0.5	1	--	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.03	0.05	<b>0.085</b>	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Chloroethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Chloroform	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Chloromethane	0.1	0.2	--	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.02	0.1	--	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.02	0.1	--	ND	ND	ND	ND	ND	ND
Dibromomethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.05	0.1	<b>0.167</b>	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.05	0.1	<b>44.4</b>	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.05	0.1	<b>88.7</b>	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.05	0.1	--	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.05	0.1	--	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.05	0.1	--	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Diisopropyl Ether (DiPE)	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.05	0.1	<b>1.4</b>	ND	ND	ND	ND	ND	ND
Ethyl-t-Butyl Ether (EtBE)	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
2-Hexanone	0.5	1	--	ND	ND	ND	ND	ND	ND
Isopropylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Methylene Chloride	0.05	0.1	--	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	0.5	1	--	ND	ND	ND	ND	ND	ND
Methyl-t-butyl Ether (MtBE)	0.05	0.1	<b>13</b>	ND	ND	ND	ND	ND	ND
Naphthalene	0.03	0.05	<b>0.11</b>	ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Styrene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.05	0.1	<b>0.6</b>	ND	ND	ND	<b>0.47</b>	<b>0.40</b>	<b>0.40</b>
Toluene	0.05	0.1	<b>380</b>	<b>ND</b>	<b>0.22</b>	<b>0.10</b>	<b>0.13</b>	ND	ND
1,2,3-Trichlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.05	0.1	<b>2,800</b>	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Trichloroethene	0.05	0.1	<b>1.8</b>	<b>0.16</b>	ND	ND	<b>0.076J</b>	<b>0.099J</b>	<b>0.096J</b>
1,2,3-Trichloropropane	0.02	0.1	--	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane	0.1	0.2	--	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.05	0.1	--	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.01	0.05	<b>0.045</b>	ND	ND	ND	ND	ND	ND
m,p-Xylenes	0.1	0.2	<b>890</b>	ND	<b>0.16J</b>	ND	<b>0.17J</b>	ND	ND
o-Xylene	0.05	0.1	<b>880</b>	ND	<b>0.10</b>	ND	<b>0.058J</b>	ND	ND
<b>Dilution Factor:</b>				<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

**NOTES:**

VOC = Volatile Organic Compound  
 RL = Reporting Limit  
 MDL = Method Detection Limit  
 ND = Indicated constituents not detected above the MDL  
 µg/L = micrograms per liter  
 J = Analyte detected; However result is an estimated value between the MDL and the RL  
 CHHSLs = California Human Health Screening Levels, Industrial

**TABLE 6**  
 Water Sample Results for VOCs  
 Phase II Panama Street  
 12870 Panama Street  
 Los Angeles, California

VOCs by EPA Method 8260B in Water	Sample ID:			B8	B11	B5
	Date:			8/5/2015	8/5/2015	8/6/2015
	MDL (µg/L):	RL (µg/L):	MCLs (µg/L):	VOC Concentration (µg/L)		
Acetone	10	20		ND	ND	ND
Benzene	0.14	0.50	1	ND	ND	ND
Bromobenzene	0.30	1.0		ND	ND	ND
Bromochloromethane	0.48	1.0		ND	ND	ND
Bromodichloromethane	0.21	1.0		ND	ND	ND
Bromoform	0.50	1.0		ND	ND	ND
Bromomethane	3.9	10		ND	ND	ND
2-Butanone	2.2	10		ND	ND	4.8J
n-Butylbenzene	0.23	1.0		ND	ND	ND
sec-Butylbenzene	0.25	1.0		ND	ND	ND
tert-Butylbenzene	0.28	1.0		ND	ND	ND
Carbon Disulfide	0.41	10		ND	ND	ND
Carbon Tetrachloride	0.23	0.50	0.5	ND	ND	ND
Chlorobenzene	0.17	1.0		ND	ND	ND
Chloroethane	2.3	5.0		ND	ND	ND
Chloroform	0.46	1.0		ND	ND	ND
Chloromethane	1.8	10		ND	ND	ND
2-Chlorotoluene	0.24	1.0		ND	ND	ND
4-Chlorotoluene	0.13	1.0		ND	ND	ND
Dibromochloromethane	0.25	1.0		ND	ND	ND
1,2-Dibromo-3-Chloropropane	1.2	5.0		ND	ND	ND
1,2-Dibromoethane	0.36	1.0		ND	ND	ND
Dibromomethane	0.46	1.0		ND	ND	ND
1,2-Dichlorobenzene	0.46	1.0	600	ND	ND	ND
1,3-Dichlorobenzene	0.40	1.0		ND	ND	ND
1,4-Dichlorobenzene	0.43	1.0	5.0	ND	ND	ND
Dichlorodifluoromethane	0.46	1.0		ND	ND	ND
1,1-Dichloroethane	0.28	1.0	5.0	ND	ND	ND
1,2-Dichloroethane	0.24	0.50	0.5	ND	ND	ND
1,1-Dichloroethene	0.43	1.0	6.0	ND	ND	ND
c-1,2-Dichloroethene	0.48	1.0	6.0	ND	ND	ND
t-1,2-Dichloroethene	0.37	1.0	10	ND	ND	ND
1,2-Dichloropropane	0.42	1.0	5.0	ND	ND	ND
1,3-Dichloropropane	0.30	1.0		ND	ND	ND
2,2-Dichloropropane	0.36	1.0		ND	ND	ND
1,1-Dichloropropene	0.46	1.0		ND	ND	ND
c-1,3-Dichloropropene	0.25	0.50		ND	ND	ND
t-1,3-Dichloropropene	0.25	0.50		ND	ND	ND
Ethylbenzene	0.14	1.0	300	ND	ND	ND
2-Hexanone	2.1	10		ND	ND	ND
Isopropylbenzene	0.58	1.0		ND	ND	ND
p-Isopropyltoluene	0.16	1.0		ND	ND	ND
Methylene Chloride	0.64	10		ND	ND	ND
4-Methyl-2-Pentanone	4.4	10		ND	ND	ND
Naphthalene	2.5	10		ND	ND	ND
n-Propylbenzene	0.17	1.0		ND	ND	ND
Styrene	0.17	1.0	100	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.40	1.0		ND	ND	ND
1,1,2,2-Tetrachloroethane	0.41	1.0	1	ND	ND	ND
Tetrachloroethene	0.39	1.0	5	ND	ND	ND
Toluene	0.24	1.0	150	ND	ND	ND
1,2,3-Trichlorobenzene	0.51	1.0		ND	ND	ND
1,2,4-Trichlorobenzene	0.50	1.0	5	ND	ND	ND
1,1,1-Trichloroethane	0.30	1.0	200	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.78	10	1,200	ND	ND	ND
1,1,2-Trichloroethane	0.38	1.0	5	ND	ND	ND
Trichloroethene	0.37	1.0	5	ND	ND	ND
Trichlorofluoromethane	1.7	10	150	ND	ND	ND
1,2,3-Trichloropropane	0.64	5.0		ND	ND	ND
1,2,4-Trimethylbenzene	0.36	1.0		ND	ND	ND
1,3,5-Trimethylbenzene	0.28	1.0		ND	ND	ND
Vinyl Acetate	2.8	10		ND	ND	ND
Vinyl Chloride	0.30	0.50	0.5	ND	ND	ND
p/m-Xylene	0.30	1.0		ND	ND	ND
o-Xylene	0.23	1.0		ND	ND	ND
Methyl-t-Butyl Ether (MTBE)	0.31	1.0	13	ND	ND	ND
Tert-Butyl Alcohol (TBA)	4.6	10		ND	ND	ND
Diisopropyl Ether (DIPE)	0.33	2.0		ND	ND	ND
Ethyl-t-Butyl Ether (ETBE)	0.44	2.0		ND	ND	ND
Tert-Amyl-Methyl Ether (TAME)	0.22	2.0		ND	ND	ND
Ethanol	50	100		ND	ND	ND
<b>Dilution Factor:</b>				1	1	1

**NOTES:**

VOC = Volatile Organic Compound  
 MDL = Method Detection Limit  
 RL = Reporting Limit  
 MCLs = California Department of Public Health Maximum Contaminant Levels, Updated July 2014  
 ND = Indicated constituents not detected at or above the MDL  
 J = Analyte detected; however, result is an estimated value between the MDL and RL.  
 µg/L = micrograms per liter

TABLE 7  
 Water Sample Results for TPH  
 Phase II Panama Street  
 12870 Panama Street  
 Los Angeles, California

TPHcc by EPA Method 8015M in Water				
Sample ID	Sample Date	TPH-GRO (C6-C10) (ug/L)	TPH-DRO (C10-C22) (ug/L)	TPH-ORO (C23+) (ug/L)
<b>MDL (ug/L):</b>		<b>48</b>	<b>8.0</b>	<b>53</b>
<b>RL (µg/L)</b>		<b>50</b>	<b>50.0</b>	<b>250</b>
B8	8/5/2015	ND	<b>65</b>	ND
B11	8/5/2015	ND	<b>37J</b>	ND
B5	8/6/2015	ND	<b>1,500</b>	<b>190J</b>

**NOTES:**

ND = Indicates constituents not detected above the PQL

MDL = Method Detection Limit

TPH-GRO = total petroleum hydrocarbons as gasoline range organics

TPH-DRO = total petroleum hydrocarbons as diesel range organics

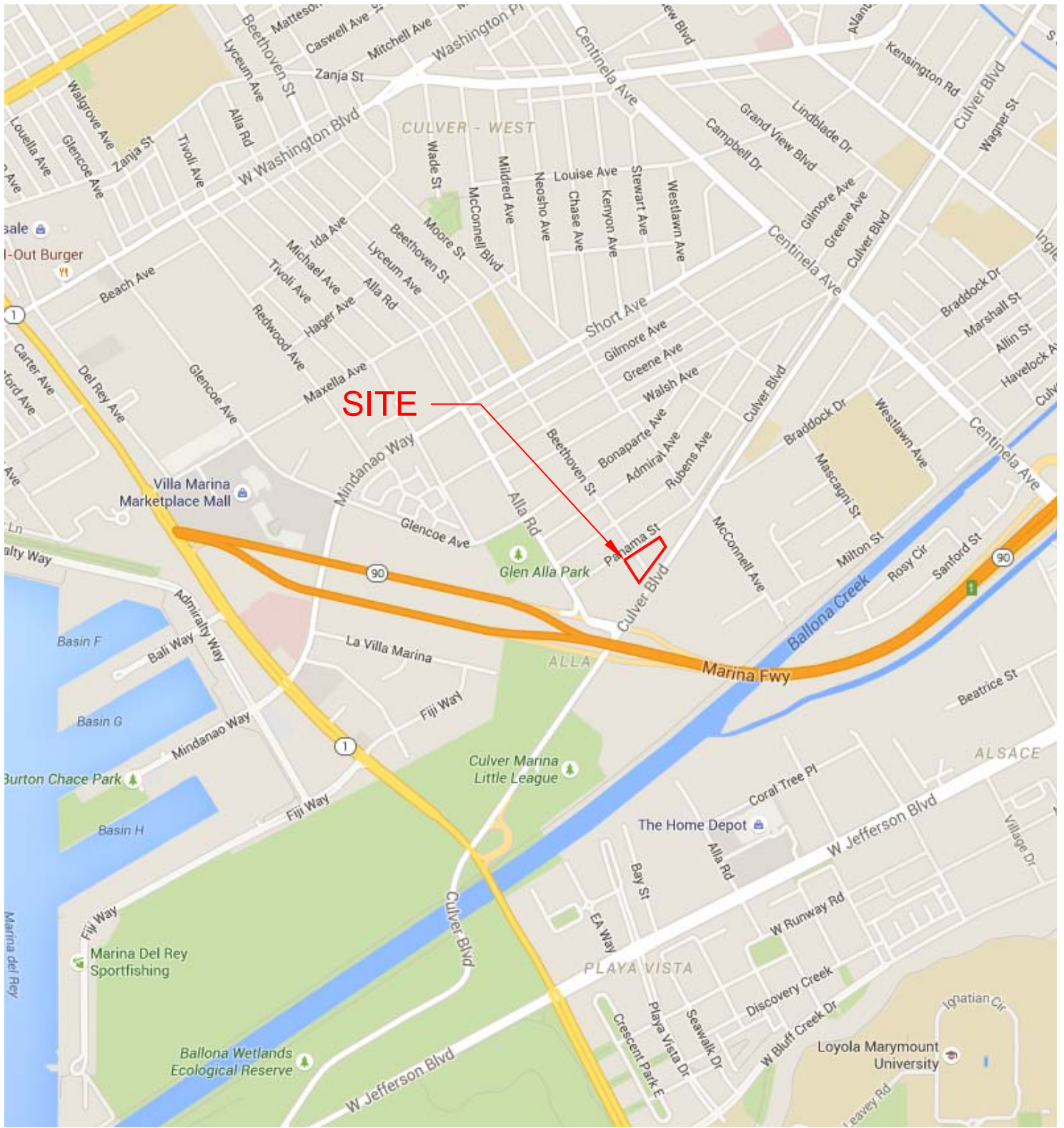
TPH-ORO = total petroleum hydrocarbons as oil range organics

ug/L = micrograms per liter

J = Analyte detected; result is an estimated value between the MDL and the reporting limit.

## FIGURES

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— Approximate Outline of Site

## FIGURE 1: Site Vicinity Map

CLIENT:  
McGuireWoods, LLP

PROJECT #: MCGU-15-5422

SITE LOCATION: 12870 Panama Street  
Los Angeles, California 90066



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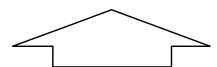
3777 Long Beach Blvd., Annex Bldg.  
Long Beach, CA 90807  
(562) 495-5777 www.altanviron.com

DRAWN: KD

APPROVED: SR

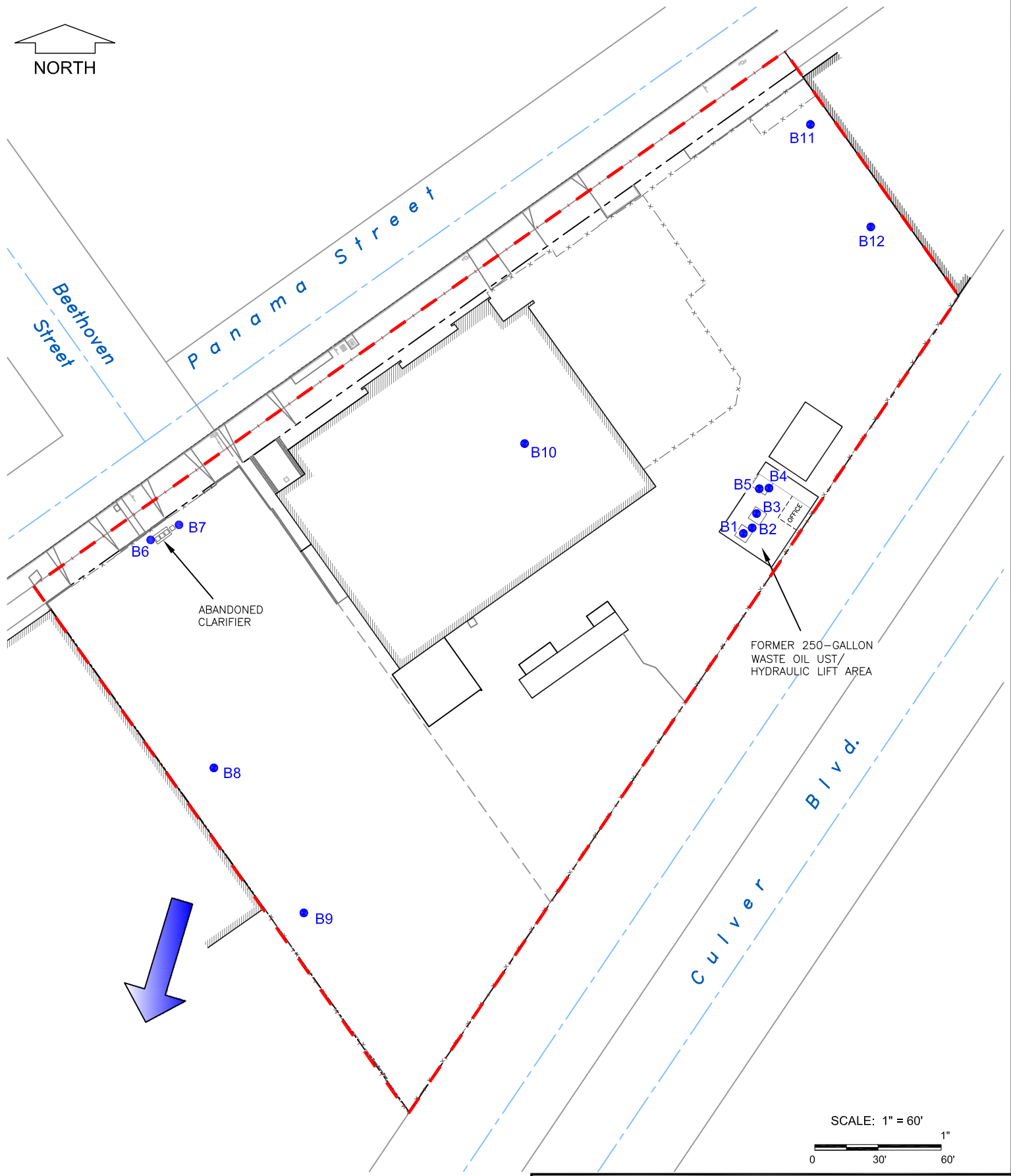
SCALE:  
None

DATE: 8/18/2015



NORTH





\\lf1file01\Docto2\Clients H-M\McGuire Woods (MCGU)\MCGU-15-5422 Phase II\_12870 Panama St\Photos - Drawings\12870\_Panama.dwg

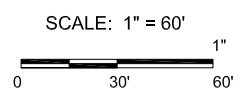
**LEGEND:**

- - - Site Boundary
- - - Center Line
- - - Property Line
- x - x - Fence Line
- Approximate Building Outline
- Approximate Boring Location



Estimated Groundwater Flow Direction

NOTE: Base map adapted from Site ALTA Survey conducted July, 2015, by Aalbers and Associates.

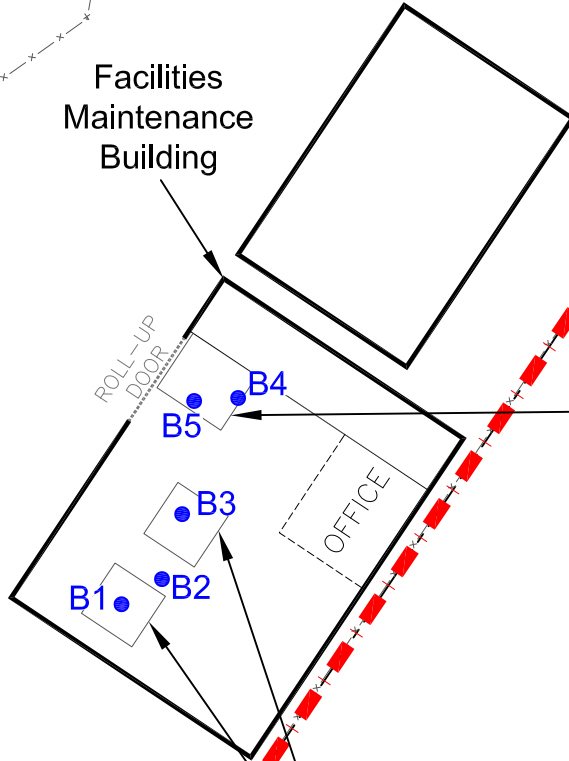
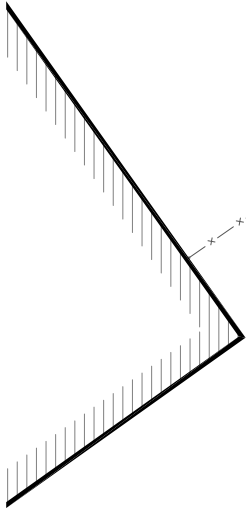


<b>FIGURE 2: Site Layout and Boring Location Map</b>	
CLIENT: McGuireWoods, LLP	
SITE: 12870 Panama Street Los Angeles, CA 90066	
DRAWN: KD	APPRV.: SR
SCALE: 1" = 60'	DATE: 8/26/2015
PROJ. NO.: MCGU-15-5422	

ALTA

ENVIRONMENTAL

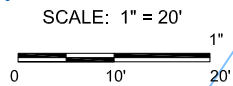
3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807  
P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ www.altanviron.com



FORMER  
250-GALLON  
UST AREA

FORMER  
HYDRAULIC  
LIFT AREAS

Culiver Blvd.



**LEGEND:**

- Site Boundary
- Center Line
- Property Line
- Fence Line
- Approximate Building Outline
- Approximate Boring Location

Estimated Groundwater Flow Direction

NOTE: Base map adapted from Site ALTA Survey conducted July, 2015, by Aalbers and Associates.

**FIGURE 3: Detail View - Facilities Maintenance Building**

CLIENT: McGuireWoods, LLP	
SITE: 12870 Panama Street Los Angeles, CA 90066	
DRAWN: KD	APPRV.: SR
SCALE: 1" = 20'	DATE: 9/1/2015
PROJ. NO.: MCGU-15-5422	



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ENVIRONMENTAL

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## **APPENDIX A**

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### **Boring Logs**

# ALTA ENVIRONMENTAL Boring Log

PROJECT NUMBER <u>MCGU-15-5422</u>	BORING/WELL NUMBER <u>B1</u>
PROJECT NAME <u>Phase II Site Assessment</u>	DATE DRILLED <u>8/6/2015</u>
LOCATION <u>12870 Panama Street, Los Angeles, CA</u>	CASING DIAMETER/TYPE <u>N/A</u>
DRILLING METHOD <u>Limited Access Geoprobe</u>	SLOT SIZE <u>N/A</u> SCREEN INTERVAL <u>N/A</u>
SAMPLING METHOD <u>Direct-push</u>	GRAVEL PACK TYPE <u>N/A</u>
BORING DIAMETER <u>2.25"</u>	DRILLING CONTRACTOR <u>Strongarm Environmental Services</u>
BORING DEPTH (FT BGS) <u>10.5</u> WELL DEPTH (FT BGS) <u>N/A</u>	DEPTH TO WATER DURING DRILLING (FT BGS) <u>N/A</u>
LOGGED BY <u>R. Shigeno</u> CHECKED BY <u>S. Ridenour</u>	DEPTH TO WATER AFTER INSTALLATION (FT BGS) <u>N/A</u>
REMARKS <u>PID calibrated to 50 ppmv hexane, hand auger upper 4' bgs</u>	

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
735		B1-2.5	▲▼		AC				<b>5" Concrete</b>
815		B1-5	▲▼	5	CL				<b>Lean Clay</b> , dark brown, stiff to very stiff, medium plasticity, damp, no odor, no staining (fill)
820		B1-10	▲▼	10	ML				<b>Sandy Clay</b> , medium to dark brown, stiff, low plasticity, damp, no odor, no staining (fill)
									<b>Sandy Silt with Gravel</b> , medium stiff, backfill debris, no odor, no staining (fill)
									Boring terminated at 10.5' bgs No groundwater encountered

WELL-MODIFIED MCGU-15-5422.GPJ WELL.GDT 9/3/15

# ALTA ENVIRONMENTAL Boring Log

PROJECT NUMBER <u>MCGU-15-5422</u>	BORING/WELL NUMBER <u>B2</u>
PROJECT NAME <u>Phase II Site Assessment</u>	DATE DRILLED <u>8/6/2015</u>
LOCATION <u>12870 Panama Street, Los Angeles, CA</u>	CASING DIAMETER/TYPE <u>N/A</u>
DRILLING METHOD <u>Limited Access Geoprobe</u>	SLOT SIZE <u>N/A</u> SCREEN INTERVAL <u>N/A</u>
SAMPLING METHOD <u>Direct-push</u>	GRAVEL PACK TYPE <u>N/A</u>
BORING DIAMETER <u>2.25"</u>	DRILLING CONTRACTOR <u>Strongarm Environmental Services</u>
BORING DEPTH (FT BGS) <u>10.5</u> WELL DEPTH (FT BGS) <u>N/A</u>	DEPTH TO WATER DURING DRILLING (FT BGS) <u>N/A</u>
LOGGED BY <u>R. Shigeno</u> CHECKED BY <u>S. Ridenour</u>	DEPTH TO WATER AFTER INSTALLATION (FT BGS) <u>N/A</u>
REMARKS <u>PID calibrated to 50 ppmv hexane, hand auger upper 4' bgs</u>	

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
					AC	[Solid black bar]			<b>4" Concrete</b>
720		B2-2.5	▲▼		CL	[Diagonal hatching]			Lean Clay , dark brown, stiff, damp, no odor, no staining
830		B2-5	▲▼	5					As above, medium grayish brown
					ML	[Vertical hatching]			<b>Sandy Silt</b> , medium grayish brown, damp, no odor, no staining
					SM	[Dotted pattern]			As above, with cobbles
840		B2-10	▲▼	10					<b>Silty Sand with Gravel</b> , medium brown, fine to coarse grained, scattered cobbles, loose, damp, no odor, no staining
									Boring terminated at 10.5' bgs No groundwater encountered

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# ALTA ENVIRONMENTAL Boring Log

PROJECT NUMBER <u>MCGU-15-5422</u>	BORING/WELL NUMBER <u>B3</u>
PROJECT NAME <u>Phase II Site Assessment</u>	DATE DRILLED <u>8/6/2015</u>
LOCATION <u>12870 Panama Street, Los Angeles, CA</u>	CASING DIAMETER/TYPE <u>N/A</u>
DRILLING METHOD <u>Limited Access Geoprobe</u>	SLOT SIZE <u>N/A</u> SCREEN INTERVAL <u>N/A</u>
SAMPLING METHOD <u>Direct-push</u>	GRAVEL PACK TYPE <u>N/A</u>
BORING DIAMETER <u>2.25"</u>	DRILLING CONTRACTOR <u>Strongarm Environmental Services</u>
BORING DEPTH (FT BGS) <u>10.5</u> WELL DEPTH (FT BGS) <u>N/A</u>	DEPTH TO WATER DURING DRILLING (FT BGS) <u>N/A</u>
LOGGED BY <u>R. Shigeno</u> CHECKED BY <u>S. Ridenour</u>	DEPTH TO WATER AFTER INSTALLATION (FT BGS) <u>N/A</u>
REMARKS <u>PID calibrated to 50 ppmv hexane, hand auger upper 4' bgs</u>	

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
842		B3-2.5	▲▼	2.5	AC				5" Concrete
					CL				Lean Clay , medium to dark brown, stiff, damp, no odor, no staining (fill)
845		B3-5	▲▼	5	SM				Concrete debris @ 2.5' bgs
					CL				Silty Sand with Gravel , medium brown, damp, no odor, no staining
850		B3-10	▲▼	10	SM				Lean Clay , medium brown, very stiff, damp, no odor, no staining
					SM				Silty Sand with Gravel , medium brown, fine to coarse grained, loose to medium dense, no odor, no staining
									Boring terminated at 10.5' bgs No groundwater encountered

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# ALTA ENVIRONMENTAL Boring Log

**PROJECT NUMBER** MCGU-15-5422  
**PROJECT NAME** Phase II Site Assessment  
**LOCATION** 12870 Panama Street, Los Angeles, CA  
**DRILLING METHOD** Limited Access Geoprobe  
**SAMPLING METHOD** Direct-push  
**BORING DIAMETER** 2.25"  
**BORING DEPTH (FT BGS)** 10.5    **WELL DEPTH (FT BGS)** 5, 10  
**LOGGED BY** R. Shigeno    **CHECKED BY** S. Ridenour  
**REMARKS** PID calibrated to 50 ppmv hexane, hand auger upper 4' bgs

**BORING/WELL NUMBER** B4  
**DATE DRILLED** 8/6/2015  
**CASING DIAMETER/TYPE** N/A  
**SLOT SIZE** N/A    **SCREEN INTERVAL** N/A  
**GRAVEL PACK TYPE** #3 Sand  
**DRILLING CONTRACTOR** Strongarm Environmental Services  
**DEPTH TO WATER DURING DRILLING (FT BGS)** N/A  
**DEPTH TO WATER AFTER INSTALLATION (FT BGS)** N/A

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
					AC				<b>8" Concrete</b>
705		B4-2.5	▲▼		ML		1/4" Teflon Tubing (typical)		<b>Sandy Silt</b> , medium to dark brown, very stiff, low plasticity, damp, no odor, no staining
855		B4-5	▲▼	5			Dry granular bentonite (typical) Sand pack (#3 Sand - typical)		<b>Sandy Lean Clay with Gravel</b> , medium brown, cobbles, medium dense, low plasticity, damp, no odor, no staining
					CL		Seal (hydrated bentonite chips - typical)		As above, Lean Clay
900		B4-10	▲▼	10			1/4" Stainless steel soil gas implant (typical)		
									Boring terminated at 10.5' bgs No groundwater encountered

WELL-MODIFIED MCGU-15-5422.GPJ WELL.GDT 9/3/15

# ALTA ENVIRONMENTAL

## Boring Log

PROJECT NUMBER MCGU-15-5422  
 PROJECT NAME Phase II Site Assessment  
 LOCATION 12870 Panama Street, Los Angeles, CA  
 DRILLING METHOD Limited Access Geoprobe  
 SAMPLING METHOD Direct-push  
 BORING DIAMETER 2.25"  
 BORING DEPTH (FT BGS) 14 WELL DEPTH (FT BGS) 5, 10  
 LOGGED BY R. Shigeno CHECKED BY S. Ridenour  
 REMARKS PID calibrated to 50 ppmv hexane, hand auger upper 4' bgs

BORING/WELL NUMBER B5  
 DATE DRILLED 8/6/2015  
 CASING DIAMETER/TYPE N/A  
 SLOT SIZE N/A SCREEN INTERVAL N/A  
 GRAVEL PACK TYPE #3 Sand  
 DRILLING CONTRACTOR Strongarm Environmental Services  
 DEPTH TO WATER DURING DRILLING (FT BGS) 13  
 DEPTH TO WATER AFTER INSTALLATION (FT BGS) N/A

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
					AC				<b>6" Concrete</b>
					CL				<b>Lean Clay</b> , dark brown, medium stiff, medium plasticity, damp, dry, no odor, no staining (fill)
905		B5-2.5	▲▼		CL				Concrete debris @ 2.5' bgs <b>Lean Clay</b> , dark brown, medium stiff, medium plasticity, damp, dry, no odor, no staining
910		B5-5	▲▼	5	CL				<b>Sandy Clay with Gravel</b> , medium brown, cobbles, stiff to very stiff, damp, no odor, no staining
					CL				
915		B5-10	▲▼	10	SC				<b>Clayey Sand with Gravel</b> , medium brown , cobbles, medium dense, damp, no odor, no staining
									Boring terminated at 14' bgs Groundwater encountered @ approx 13' bgs Temporary well set @ approx 10'-14' bgs
				15					

WELL-MODIFIED MCGU-15-5422.GPJ WELL.GDT 9/3/15

# ALTA ENVIRONMENTAL Boring Log

**PROJECT NUMBER** MCGU-15-5422  
**PROJECT NAME** Phase II Site Assessment  
**LOCATION** 12870 Panama Street, Los Angeles, CA  
**DRILLING METHOD** Geoprobe 6600  
**SAMPLING METHOD** Direct-push  
**BORING DIAMETER** 2.25"  
**BORING DEPTH (FT BGS)** 10.5     **WELL DEPTH (FT BGS)** 5, 10  
**LOGGED BY** R. Shigeno     **CHECKED BY** S. Ridenour

**BORING/WELL NUMBER** B6  
**DATE DRILLED** 8/5/2015  
**CASING DIAMETER/TYPE** N/A  
**SLOT SIZE** N/A     **SCREEN INTERVAL** N/A  
**GRAVEL PACK TYPE** #3 Sand  
**DRILLING CONTRACTOR** Strongarm Environmental Services  
**DEPTH TO WATER DURING DRILLING (FT BGS)** N/A  
**DEPTH TO WATER AFTER INSTALLATION (FT BGS)** N/A

**REMARKS** PID calibrated to 50 ppmv hexane, hand auger upper 4' bgs

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
									<b>5" Concrete</b>
					CL				<b>Lean Clay</b> , dark brown, stiff, medium plasticity, stiff, no odor, no staining
1010		B6-2.5			CH		1/4" Teflon Tubing (typical)		<b>Fat Clay</b> , dark brown, stiff, medium plasticity, stiff, no odor, no staining
1020		B6-5		5	CL		Dry granular bentonite (typical)		<b>Lean Clay</b> , dark brown, stiff, medium plasticity, stiff, no odor, no staining
					CL		Sand pack (#3 Sand - typical)		
					SM		Seal (hydrated bentonite chips - typical)		<b>Silty Clayey Sand</b> , medium brown, medium dense, damp, no odor, no staining
					CL				<b>Lean Clay</b> , dark brown, stiff, medium plasticity, stiff, no odor, no staining
1025		B6-10		10	SM		1/4" Stainless steel soil gas implant (typical)		<b>Silty Sand</b> , medium brown, medium dense, fine to coarse grained, damp, no odor, no staining
									Boring terminated at 10.5' bgs
									No groundwater encountered

WELL-MODIFIED MCGU-15-5422.GPJ WELL.GDT 9/3/15

# ALTA ENVIRONMENTAL Boring Log

**PROJECT NUMBER** MCGU-15-5422  
**PROJECT NAME** Phase II Site Assessment  
**LOCATION** 12870 Panama Street, Los Angeles, CA  
**DRILLING METHOD** Geoprobe 6600  
**SAMPLING METHOD** Direct-push  
**BORING DIAMETER** 2.25"  
**BORING DEPTH (FT BGS)** 10.5    **WELL DEPTH (FT BGS)** 5, 10  
**LOGGED BY** R. Shigeno    **CHECKED BY** S. Ridenour  
**REMARKS** PID calibrated to 50 ppmv hexane, hand auger upper 4' bgs

**BORING/WELL NUMBER** B7  
**DATE DRILLED** 8/5/2015  
**CASING DIAMETER/TYPE** N/A  
**SLOT SIZE** N/A    **SCREEN INTERVAL** N/A  
**GRAVEL PACK TYPE** #3 Sand  
**DRILLING CONTRACTOR** Strongarm Environmental Services  
**DEPTH TO WATER DURING DRILLING (FT BGS)** 10.5  
**DEPTH TO WATER AFTER INSTALLATION (FT BGS)** N/A

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
					AC				<b>5" Concrete</b>
915		B7-2.5			CL				<b>Lean Clay</b> , dark brown, stiff, medium to high plasticity, moist, no odor, no staining
925		B7-5		5					
									As above, Sandy Clay
930		B7-10		10	CH				<b>Fat Clay</b> , dark brown, stiff, low to medium plasticity, moist, no odor, no staining Layer of Silty Sand @ 8.5' bgs to 9' bgs
									Boring terminated at 10.5' bgs Groundwater encountered @ 10.5' bgs

WELL-MODIFIED MCGU-15-5422.GPJ WELL.GDT 9/3/15



# ALTA ENVIRONMENTAL Boring Log

**PROJECT NUMBER** MCGU-15-5422  
**PROJECT NAME** Phase II Site Assessment  
**LOCATION** 12870 Panama Street, Los Angeles, CA  
**DRILLING METHOD** Geoprobe 6600  
**SAMPLING METHOD** Direct-push  
**BORING DIAMETER** 2.25"  
**BORING DEPTH (FT BGS)** 14      **WELL DEPTH (FT BGS)** 5, 10  
**LOGGED BY** R. Shigeno      **CHECKED BY** S. Ridenour  
**REMARKS** PID calibrated to 50 ppmv hexane, hand auger upper 4' bgs

**BORING/WELL NUMBER** B8  
**DATE DRILLED** 8/5/2015  
**CASING DIAMETER/TYPE** N/A  
**SLOT SIZE** N/A      **SCREEN INTERVAL** N/A  
**GRAVEL PACK TYPE** #3 Sand  
**DRILLING CONTRACTOR** Strongarm Environmental Services  
**DEPTH TO WATER DURING DRILLING (FT BGS)** 10.5  
**DEPTH TO WATER AFTER INSTALLATION (FT BGS)** N/A

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
					AC				<b>3" Concrete</b>
1100		B8-2.5	▲▼		CH		1/4" Teflon Tubing (typical)		<b>Fat Clay</b> , dark gray, soft to medium stiff, high plasticity, moist, no odor, no staining  As above, lean clay @ 2' bgs
1110		B8-5	▲▼	5			Dry granular bentonite (typical)  Sand pack (#3 Sand - typical)		Seal (hydrated bentonite chips - typical)
1115		B8-10	▲▼	10	SM		1/4" Stainless steel soil gas implant (typical)		<b>Silty Sand</b> , medium brown, fine to coarse grained, dense, moist, no odor, no staining <b>Lean Clay</b> , dark brown, stiff to very stiff, medium plasticity, moist, no odor, no staining
1130		B8-13	▲▼		SM				<b>Silty Sand</b> , medium brown, medium dense, wet, no odor, no staining
				15					Boring terminated at 14' bgs  Groundwater encountered @ approximately 10.5' bgs  Temporary well set @ approximately 10'-14' bgs

WELL-MODIFIED MCGU-15-5422.GPJ - WELL.GDT 9/3/15

# ALTA ENVIRONMENTAL Boring Log

PROJECT NUMBER <u>MCGU-15-5422</u>	BORING/WELL NUMBER <u>B9</u>
PROJECT NAME <u>Phase II Site Assessment</u>	DATE DRILLED <u>8/5/2015</u>
LOCATION <u>12870 Panama Street, Los Angeles, CA</u>	CASING DIAMETER/TYPE <u>N/A</u>
DRILLING METHOD <u>Geoprobe 6600</u>	SLOT SIZE <u>N/A</u> SCREEN INTERVAL <u>N/A</u>
SAMPLING METHOD <u>Direct-push</u>	GRAVEL PACK TYPE <u>#3 Sand</u>
BORING DIAMETER <u>2.25"</u>	DRILLING CONTRACTOR <u>Strongarm Environmental Services</u>
BORING DEPTH (FT BGS) <u>10.5</u> WELL DEPTH (FT BGS) <u>5, 10</u>	DEPTH TO WATER DURING DRILLING (FT BGS) <u>N/A</u>
LOGGED BY <u>R. Shigeno</u> CHECKED BY <u>S. Ridenour</u>	DEPTH TO WATER AFTER INSTALLATION (FT BGS) <u>N/A</u>
REMARKS <u>PID calibrated to 50 ppmv hexane, hand auger upper 4' bgs</u>	

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1400		B9-2.5			AC		<p style="font-size: small;">1/4" Teflon Tubing (typical)</p> <p style="font-size: small;">Dry granular bentonite (typical)</p> <p style="font-size: small;">Sand pack (#3 Sand - typical)</p> <p style="font-size: small;">Seal (hydrated bentonite chips - typical)</p> <p style="font-size: small;">1/4" Stainless steel soil gas implant (typical)</p>		<p><b>3" Asphalt</b></p> <p><b>Lean Clay</b>, dark gray, stiff to very stiff, medium plasticity, damp, no odor, no staining</p>
1410		B9-5		5	CL				As above, medium grayish brown
1415		B9-10		10					As above, very moist
									<p>Boring terminated at 10.5' bgs</p> <p>No groundwater encountered</p>

WELL-MODIFIED MCGU-15-5422.GPJ WELL.GDT 9/3/15

# ALTA ENVIRONMENTAL Boring Log

**PROJECT NUMBER** MCGU-15-5422      **BORING/WELL NUMBER** B10  
**PROJECT NAME** Phase II Site Assessment      **DATE DRILLED** 8/6/2015  
**LOCATION** 12870 Panama Street, Los Angeles, CA      **CASING DIAMETER/TYPE** N/A  
**DRILLING METHOD** Hand-auger      **SLOT SIZE** N/A      **SCREEN INTERVAL** N/A  
**SAMPLING METHOD** Hand-auger      **GRAVEL PACK TYPE** #3 Sand  
**BORING DIAMETER** 2.25"      **DRILLING CONTRACTOR** Strongarm Environmental Services  
**BORING DEPTH (FT BGS)** 10.5      **WELL DEPTH (FT BGS)** 5, 10      **DEPTH TO WATER DURING DRILLING (FT BGS)** N/A  
**LOGGED BY** R. Shigeno      **CHECKED BY** S. Ridenour      **DEPTH TO WATER AFTER INSTALLATION (FT BGS)** N/A  
**REMARKS** PID calibrated to 50 ppmv hexane

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
					AC				<b>4" Concrete</b>
					SM				<b>Silty Sand with Gravel</b> , medium brown, base material, fine to coarse grained, damp, no odor, no staining (fill)
1115		B10-2.5			CL		 1/4" Teflon Tubing (typical)		<b>Lean Clay</b> , dark brown, low to medium plasticity, very stiff, damp, no odor, no staining
1120		B10-5		5	ML		 Dry granular bentonite (typical) Sand pack (#3 Sand - typical)		<b>Sandy Silt</b> , dark brown, stiff, damp, no odor, no staining
1145		B10-10		10	SP		 Seal (hydrated bentonite chips - typical) 1/4" Stainless steel soil gas implant (typical)		<b>Poorly Graded Sand</b> , medium brown, fine to coarse grained, loose, damp, no odor, no staining
				15					Boring terminated at 10.5' bgs No groundwater encountered

WELL-MODIFIED MCGU-15-5422.GPJ WELL.GDT 9/3/15

# ALTA ENVIRONMENTAL Boring Log

**PROJECT NUMBER** MCGU-15-5422  
**PROJECT NAME** Phase II Site Assessment  
**LOCATION** 12870 Panama Street, Los Angeles, CA  
**DRILLING METHOD** Geoprobe 6600  
**SAMPLING METHOD** Direct-push  
**BORING DIAMETER** 2.25"  
**BORING DEPTH (FT BGS)** 14      **WELL DEPTH (FT BGS)** 5, 10  
**LOGGED BY** R. Shigeno      **CHECKED BY** S. Ridenour  
**REMARKS** PID calibrated to 50 ppmv hexane, hand auger upper 4' bgs

**BORING/WELL NUMBER** B11  
**DATE DRILLED** 8/5/2015  
**CASING DIAMETER/TYPE** N/A  
**SLOT SIZE** N/A      **SCREEN INTERVAL** N/A  
**GRAVEL PACK TYPE** #3 Sand  
**DRILLING CONTRACTOR** Strongarm Environmental Services  
**DEPTH TO WATER DURING DRILLING (FT BGS)** 10.5  
**DEPTH TO WATER AFTER INSTALLATION (FT BGS)** N/A

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
					AC				<b>3" Asphalt</b>
					FILL				<b>Road Base</b>
830		B11-2.5	▲▼		ML		← 1/4" Teflon Tubing (typical)		<b>Sandy Silt</b> , dark brown, medium stiff, moist, no odor, no staining
840		B11-5	▲▼	5	CL		← Dry granular bentonite (typical)		<b>Sandy Clay</b> , medium brown, stiff, moist, medium plasticity, no odor, no staining
					ML		← Sand pack (#3 Sand - typical)		<b>Sandy Silt</b> , medium brown, medium stiff, moist, no odor, no staining
					CL		← Seal (hydrated bentonite chips - typical)		<b>Lean Clay</b> , medium brown, medium plasticity, moist, no odor, no staining
					ML				<b>Sandy Silt</b> , medium brown, medium stiff, moist, no odor, no staining
845		B11-10	▲▼	10	CL		← 1/4" Stainless steel soil gas implant (typical)		<b>Lean Clay</b> , medium brown, medium plasticity, moist, no odor, no staining
									Boring terminated at 14' bgs  Groundwater encountered @ approximately 10.5' bgs  Temporary well set @ approximately 10'-14' bgs in co-located borehole
				15					

WELL-MODIFIED MCGU-15-5422.GPJ WELL.GDT 9/3/15

# ALTA ENVIRONMENTAL Boring Log

**PROJECT NUMBER** MCGU-15-5422  
**PROJECT NAME** Phase II Site Assessment  
**LOCATION** 12870 Panama Street, Los Angeles, CA  
**DRILLING METHOD** Geoprobe 6600  
**SAMPLING METHOD** Direct-push  
**BORING DIAMETER** 2.25"  
**BORING DEPTH (FT BGS)** 10.5     **WELL DEPTH (FT BGS)** 5, 10  
**LOGGED BY** R. Shigeno     **CHECKED BY** S. Ridenour

**BORING/WELL NUMBER** B12  
**DATE DRILLED** 8/5/2015  
**CASING DIAMETER/TYPE** N/A  
**SLOT SIZE** N/A     **SCREEN INTERVAL** N/A  
**GRAVEL PACK TYPE** #3 Sand  
**DRILLING CONTRACTOR** Strongarm Environmental Services  
**DEPTH TO WATER DURING DRILLING (FT BGS)** N/A  
**DEPTH TO WATER AFTER INSTALLATION (FT BGS)** N/A

**REMARKS** PID calibrated to 50 ppmv hexane, hand auger upper 4' bgs

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
730		B12-2.5	[Symbol]		AC	[Symbol]			<b>3" Asphalt</b>
					FILL	[Symbol]			<b>Road Base</b>
740		B12-5	[Symbol]	5	ML	[Symbol]			<b>Sandy Silt</b> , dark brown, medium stiff, moist, no odor, no staining
					CL	[Symbol]			<b>Sandy Clay</b> , medium brown, stiff, moist, medium plasticity, no odor, no staining
745		B12-10	[Symbol]	10	ML	[Symbol]			<b>Sandy Silt</b> , medium brown, medium stiff, moist, no odor, no staining
					CL	[Symbol]			<b>Lean Clay</b> , medium brown, medium plasticity, moist, no odor, no staining
					ML	[Symbol]			<b>Sandy Silt</b> , medium brown, medium stiff, moist, no odor, no staining
					CL	[Symbol]			<b>Lean Clay</b> , medium brown, medium plasticity, moist, no odor, no staining
				15					Boring terminated at 10.5' bgs No groundwater encountered

WELL-MODIFIED MCGU-15-5422.GPJ WELL.GDT 9/3/15

## **APPENDIX B**

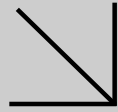
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### **Laboratory Analytical Reports**





Calscience



**WORK ORDER NUMBER: 15-08-0382**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For**

**Client:** Alta Environmental

**Client Project Name:** Panama Street Site / MCGU-15-5422

**Attention:** Steve Ridenour  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

*Vikas Patel*

Approved for release on 08/14/2015 by:  
Vikas Patel  
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

# Contents

Client Project Name: Panama Street Site / MCGU-15-5422

Work Order Number: 15-08-0382

1	Work Order Narrative. . . . .	3
2	Detections Summary. . . . .	4
3	Client Sample Data. . . . .	7
	3.1 EPA 8015B (M) TPH Motor Oil (Solid). . . . .	7
	3.2 EPA 8015B (M) TPH Diesel (Solid). . . . .	10
	3.3 EPA 8015B (M) TPH Gasoline (Solid). . . . .	13
	3.4 EPA 6010B/7471A CAC Title 22 Metals (Solid). . . . .	16
	3.5 EPA 7471A Mercury (Solid). . . . .	20
	3.6 EPA 8082 PCB Aroclors (Solid). . . . .	21
	3.7 EPA 8310 Polynuclear Aromatic Hydrocarbons (Solid). . . . .	23
	3.8 EPA 8260B Volatile Organics + Oxygenates Prep 5035 (Solid). . . . .	26
4	Quality Control Sample Data. . . . .	56
	4.1 MS/MSD. . . . .	56
	4.2 LCS/LCSD. . . . .	63
5	Sample Analysis Summary. . . . .	71
6	Glossary of Terms and Qualifiers. . . . .	72
7	Chain-of-Custody/Sample Receipt Form. . . . .	73



**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 08/06/15. They were assigned to Work Order 15-08-0382.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



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## Detections Summary

Client: Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Work Order: 15-08-0382  
Project Name: Panama Street Site / MCGU-15-5422  
Received: 08/06/15

Attn: Steve Ridenour

Page 1 of 3

### Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B1-10 (15-08-0382-3)						
Acetone	11	J	4.5*	ug/kg	EPA 8260B	EPA 5035
B2-10 (15-08-0382-6)						
Acetone	9.9	J	4.4*	ug/kg	EPA 8260B	EPA 5035
Chloromethane	0.22	J	0.21*	ug/kg	EPA 8260B	EPA 5035
B3-5 (15-08-0382-8)						
TPH as Diesel	3.3	HD,J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
Acetone	5.1	J	4.5*	ug/kg	EPA 8260B	EPA 5035
B3-10 (15-08-0382-9)						
Acetone	13	J	4.6*	ug/kg	EPA 8260B	EPA 5035
Benzene	0.13	J	0.096*	ug/kg	EPA 8260B	EPA 5035
Tert-Butyl Alcohol (TBA)	5.4	J	3.8*	ug/kg	EPA 8260B	EPA 5035
B4-5 (15-08-0382-11)						
Arsenic	10.2		0.725	mg/kg	EPA 6010B	EPA 3050B
Barium	172		0.483	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.803		0.242	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.35		0.483	mg/kg	EPA 6010B	EPA 3050B
Chromium	51.6		0.242	mg/kg	EPA 6010B	EPA 3050B
Cobalt	16.2		0.242	mg/kg	EPA 6010B	EPA 3050B
Copper	47.2		0.483	mg/kg	EPA 6010B	EPA 3050B
Lead	10.7		0.483	mg/kg	EPA 6010B	EPA 3050B
Nickel	42.3		0.242	mg/kg	EPA 6010B	EPA 3050B
Thallium	0.391	J	0.147*	mg/kg	EPA 6010B	EPA 3050B
Vanadium	62.1		0.242	mg/kg	EPA 6010B	EPA 3050B
Zinc	96.6	B	0.966	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0235	J	0.00607*	mg/kg	EPA 7471A	EPA 7471A Total
TPH as Motor Oil	120		25	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	19	HD	5.0	mg/kg	EPA 8015B (M)	EPA 3550B
Acetone	26	J	4.4*	ug/kg	EPA 8260B	EPA 5035
Tert-Butyl Alcohol (TBA)	4.7	J	3.7*	ug/kg	EPA 8260B	EPA 5035
Benzo (k) Fluoranthene	38		10	ug/kg	EPA 8310	EPA 3545

\* MDL is shown



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## Detections Summary

Client: Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Work Order: 15-08-0382  
Project Name: Panama Street Site / MCGU-15-5422  
Received: 08/06/15

Attn: Steve Ridenour

Page 2 of 3

### Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B5-10 (15-08-0382-15)						
Arsenic	5.48		0.743	mg/kg	EPA 6010B	EPA 3050B
Barium	93.4		0.495	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.385		0.248	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.963		0.495	mg/kg	EPA 6010B	EPA 3050B
Chromium	28.3		0.248	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.66		0.248	mg/kg	EPA 6010B	EPA 3050B
Copper	28.8		0.495	mg/kg	EPA 6010B	EPA 3050B
Lead	8.28		0.495	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.707		0.248	mg/kg	EPA 6010B	EPA 3050B
Nickel	22.4		0.248	mg/kg	EPA 6010B	EPA 3050B
Thallium	0.281	J	0.150*	mg/kg	EPA 6010B	EPA 3050B
Vanadium	40.5		0.248	mg/kg	EPA 6010B	EPA 3050B
Zinc	62.1	B	0.990	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0168	J	0.00618*	mg/kg	EPA 7471A	EPA 7471A Total
TPH as Diesel	17	HD	5.0	mg/kg	EPA 8015B (M)	EPA 3550B
Acetone	11	J	6.2*	ug/kg	EPA 8260B	EPA 5035
Benzene	0.18	J	0.13*	ug/kg	EPA 8260B	EPA 5035
B10-2.5 (15-08-0382-16)						
Arsenic	4.04		0.758	mg/kg	EPA 6010B	EPA 3050B
Barium	111		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.444		0.253	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.62		0.505	mg/kg	EPA 6010B	EPA 3050B
Chromium	38.6		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.38		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	172		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	24.4		0.505	mg/kg	EPA 6010B	EPA 3050B
Nickel	22.4		0.253	mg/kg	EPA 6010B	EPA 3050B
Thallium	0.722	J	0.153*	mg/kg	EPA 6010B	EPA 3050B
Vanadium	44.3		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	91.9	B	1.01	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0375	J	0.00559*	mg/kg	EPA 7471A	EPA 7471A Total
Acetone	64		39	ug/kg	EPA 8260B	EPA 5035
Benzene	0.40	J	0.10*	ug/kg	EPA 8260B	EPA 5035
2-Butanone	3.3	J	2.9*	ug/kg	EPA 8260B	EPA 5035
Carbon Disulfide	0.26	J	0.24*	ug/kg	EPA 8260B	EPA 5035
Trichloroethene	2.4		1.5	ug/kg	EPA 8260B	EPA 5035
B10-5 (15-08-0382-17)						
Acetone	15	J	5.1*	ug/kg	EPA 8260B	EPA 5035

\* MDL is shown



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## Detections Summary

Client: Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Work Order: 15-08-0382  
Project Name: Panama Street Site / MCGU-15-5422  
Received: 08/06/15

Attn: Steve Ridenour

Page 3 of 3

### Client SampleID

<u>Analyte</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	<u>Method</u>	<u>Extraction</u>
B10-10 (15-08-0382-18)						
Acetone	24	J	6.3*	ug/kg	EPA 8260B	EPA 5035
Benzene	0.14	J	0.13*	ug/kg	EPA 8260B	EPA 5035
Trichloroethene	0.57	J	0.30*	ug/kg	EPA 8260B	EPA 5035

Subcontracted analyses, if any, are not included in this summary.

Return to Contents

\* MDL is shown



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-10	15-08-0382-3-A	08/06/15 08:20	Solid	GC 46	08/10/15	08/11/15 11:55	150810B24A

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	6.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-10	15-08-0382-6-A	08/06/15 08:40	Solid	GC 46	08/10/15	08/11/15 12:13	150810B24A

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	5.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-5	15-08-0382-8-A	08/06/15 08:45	Solid	GC 46	08/10/15	08/11/15 12:31	150810B24A

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	6.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	102	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-10	15-08-0382-9-A	08/06/15 08:50	Solid	GC 46	08/10/15	08/11/15 12:47	150810B24A

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	6.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	102	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-5	15-08-0382-11-A	08/06/15 08:55	Solid	GC 46	08/10/15	08/11/15 17:43	150810B24A

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	120	25	5.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	96	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-10	15-08-0382-15-A	08/06/15 09:15	Solid	GC 46	08/10/15	08/11/15 16:31	150810B24A

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	6.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	100	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B10-2.5	15-08-0382-16-A	08/06/15 11:15	Solid	GC 46	08/10/15	08/11/15 16:48	150810B24A

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	5.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	97	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B10-5	15-08-0382-17-A	08/06/15 11:20	Solid	GC 46	08/10/15	08/11/15 17:06	150810B24A

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	6.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	102	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B10-10</b>	<b>15-08-0382-18-A</b>	<b>08/06/15 11:45</b>	<b>Solid</b>	<b>GC 46</b>	<b>08/10/15</b>	<b>08/11/15 17:25</b>	<b>150810B24A</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil	ND	25	6.0	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	96	61-145	

Method Blank	099-15-420-1463	N/A	Solid	GC 46	08/10/15	08/11/15 05:27	150810B24A
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil	ND	25	6.0	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	106	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-10	15-08-0382-3-A	08/06/15 08:20	Solid	GC 45	08/07/15	08/09/15 14:52	150807B05

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	97	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-10	15-08-0382-6-A	08/06/15 08:40	Solid	GC 45	08/07/15	08/09/15 15:11	150807B05

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	99	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-5	15-08-0382-8-A	08/06/15 08:45	Solid	GC 45	08/07/15	08/09/15 15:29	150807B05

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	3.3	5.0	1.2	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	96	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-10	15-08-0382-9-A	08/06/15 08:50	Solid	GC 45	08/07/15	08/09/15 15:48	150807B05

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	97	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-5	15-08-0382-11-A	08/06/15 08:55	Solid	GC 45	08/07/15	08/09/15 16:06	150807B05

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	19	5.0	1.3	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	96	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-10	15-08-0382-15-A	08/06/15 09:15	Solid	GC 45	08/07/15	08/09/15 16:24	150807B05

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	17	5.0	1.3	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	96	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B10-2.5	15-08-0382-16-A	08/06/15 11:15	Solid	GC 45	08/07/15	08/09/15 16:43	150807B05

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B10-5	15-08-0382-17-A	08/06/15 11:20	Solid	GC 45	08/07/15	08/09/15 17:20	150807B05

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.2	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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### Analytical Report

Alta Environmental  
 3777 Long Beach Blvd., Annex Building  
 Long Beach, CA 90802-3335

Date Received: 08/06/15  
 Work Order: 15-08-0382  
 Preparation: EPA 3550B  
 Method: EPA 8015B (M)  
 Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B10-10</b>	<b>15-08-0382-18-A</b>	<b>08/06/15 11:45</b>	<b>Solid</b>	<b>GC 45</b>	<b>08/07/15</b>	<b>08/09/15 17:38</b>	<b>150807B05</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel	ND	5.0	1.3	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	95	61-145	

Method Blank	099-15-422-1970	N/A	Solid	GC 45	08/07/15	08/09/15 11:47	150807B05
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Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel	ND	5.0	1.3	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	97	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5030C  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-10	15-08-0382-3-A	08/06/15 08:20	Solid	GC 1	08/12/15	08/12/15 23:38	150811L056

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.52	0.44	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	64	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-10	15-08-0382-6-A	08/06/15 08:40	Solid	GC 1	08/12/15	08/13/15 00:14	150811L056

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.53	0.44	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	68	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-5	15-08-0382-8-A	08/06/15 08:45	Solid	GC 1	08/12/15	08/13/15 00:50	150811L056

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.53	0.44	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	72	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-10	15-08-0382-9-A	08/06/15 08:50	Solid	GC 1	08/12/15	08/13/15 01:25	150811L056

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.48	0.40	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	66	42-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5030C  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-5	15-08-0382-11-A	08/06/15 08:55	Solid	GC 1	08/12/15	08/13/15 02:01	150811L056

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.52	0.43	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	67	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-10	15-08-0382-15-A	08/06/15 09:15	Solid	GC 1	08/12/15	08/13/15 02:37	150811L056

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.51	0.43	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	67	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B10-2.5	15-08-0382-16-A	08/06/15 11:15	Solid	GC 1	08/12/15	08/13/15 03:13	150811L056

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.51	0.43	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	67	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B10-5	15-08-0382-17-A	08/06/15 11:20	Solid	GC 1	08/12/15	08/13/15 03:48	150811L056

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.48	0.40	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	69	42-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5030C  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B10-10</b>	<b>15-08-0382-18-A</b>	<b>08/06/15 11:45</b>	<b>Solid</b>	<b>GC 1</b>	<b>08/12/15</b>	<b>08/13/15 04:24</b>	<b>150811L056</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline	ND	0.48	0.40	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene - FID	65	42-126	

Method Blank	099-14-571-2517	N/A	Solid	GC 1	08/11/15	08/12/15 13:17	150811L056
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline	ND	0.50	0.42	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene - FID	65	42-126	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-5	15-08-0382-11-A	08/06/15 08:55	Solid	ICP 7300	08/07/15	08/07/15 18:43	150807L05

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.725	0.144	0.966	
Arsenic	10.2	0.725	0.250	0.966	
Barium	172	0.483	0.149	0.966	
Beryllium	0.803	0.242	0.132	0.966	
Cadmium	1.35	0.483	0.131	0.966	
Chromium	51.6	0.242	0.137	0.966	
Cobalt	16.2	0.242	0.143	0.966	
Copper	47.2	0.483	0.130	0.966	
Lead	10.7	0.483	0.127	0.966	
Molybdenum	ND	0.242	0.128	0.966	
Nickel	42.3	0.242	0.140	0.966	
Selenium	ND	0.725	0.289	0.966	
Silver	ND	0.242	0.0828	0.966	
Thallium	0.391	0.725	0.147	0.966	J
Vanadium	62.1	0.242	0.136	0.966	
Zinc	96.6	0.966	0.172	0.966	B

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-10	15-08-0382-15-A	08/06/15 09:15	Solid	ICP 7300	08/07/15	08/07/15 18:45	150807L05

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.743	0.147	0.990	
Arsenic	5.48	0.743	0.257	0.990	
Barium	93.4	0.495	0.153	0.990	
Beryllium	0.385	0.248	0.136	0.990	
Cadmium	0.963	0.495	0.134	0.990	
Chromium	28.3	0.248	0.141	0.990	
Cobalt	7.66	0.248	0.147	0.990	
Copper	28.8	0.495	0.133	0.990	
Lead	8.28	0.495	0.130	0.990	
Molybdenum	0.707	0.248	0.131	0.990	
Nickel	22.4	0.248	0.143	0.990	
Selenium	ND	0.743	0.297	0.990	
Silver	ND	0.248	0.0849	0.990	
Thallium	0.281	0.743	0.150	0.990	J
Vanadium	40.5	0.248	0.140	0.990	
Zinc	62.1	0.990	0.176	0.990	B


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B10-2.5	15-08-0382-16-A	08/06/15 11:15	Solid	ICP 7300	08/07/15	08/07/15 18:46	150807L05

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.758	0.150	1.01	
Arsenic	4.04	0.758	0.262	1.01	
Barium	111	0.505	0.156	1.01	
Beryllium	0.444	0.253	0.138	1.01	
Cadmium	1.62	0.505	0.137	1.01	
Chromium	38.6	0.253	0.144	1.01	
Cobalt	9.38	0.253	0.150	1.01	
Copper	172	0.505	0.136	1.01	
Lead	24.4	0.505	0.133	1.01	
Molybdenum	ND	0.253	0.133	1.01	
Nickel	22.4	0.253	0.146	1.01	
Selenium	ND	0.758	0.303	1.01	
Silver	ND	0.253	0.0866	1.01	
Thallium	0.722	0.758	0.153	1.01	J
Vanadium	44.3	0.253	0.143	1.01	
Zinc	91.9	1.01	0.179	1.01	B


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-21579	N/A	Solid	ICP 7300	08/07/15	08/07/15 17:54	150807L05

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.750	0.149	1.00	
Arsenic	ND	0.750	0.259	1.00	
Barium	ND	0.500	0.154	1.00	
Beryllium	ND	0.250	0.137	1.00	
Cadmium	ND	0.500	0.135	1.00	
Chromium	ND	0.250	0.142	1.00	
Cobalt	ND	0.250	0.148	1.00	
Copper	ND	0.500	0.135	1.00	
Lead	ND	0.500	0.132	1.00	
Molybdenum	ND	0.250	0.132	1.00	
Nickel	ND	0.250	0.145	1.00	
Selenium	ND	0.750	0.300	1.00	
Silver	ND	0.250	0.0857	1.00	
Thallium	ND	0.750	0.152	1.00	
Vanadium	ND	0.250	0.141	1.00	
Zinc	0.596	1.00	0.178	1.00	J

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental	Date Received:	08/06/15
3777 Long Beach Blvd., Annex Building	Work Order:	15-08-0382
Long Beach, CA 90802-3335	Preparation:	EPA 7471A Total
	Method:	EPA 7471A
	Units:	mg/kg

Project: Panama Street Site / MCGU-15-5422 Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-5	15-08-0382-11-A	08/06/15 08:55	Solid	Mercury 05	08/07/15	08/07/15 20:16	150807L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0235	0.0862	0.00607	1.00	J

B5-10	15-08-0382-15-A	08/06/15 09:15	Solid	Mercury 05	08/07/15	08/07/15 20:18	150807L03
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0168	0.0877	0.00618	1.00	J

B10-2.5	15-08-0382-16-A	08/06/15 11:15	Solid	Mercury 05	08/07/15	08/07/15 20:20	150807L03
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0375	0.0794	0.00559	1.00	J

Method Blank	099-16-272-1524	N/A	Solid	Mercury 05	08/07/15	08/07/15 19:26	150807L03
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.0833	0.00587	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3545  
Method: EPA 8082  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-5	15-08-0382-11-A	08/06/15 08:55	Solid	GC 31	08/07/15	08/08/15 15:21	150807L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	43	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	31	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	34	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	78	25-145	

B5-10	15-08-0382-15-A	08/06/15 09:15	Solid	GC 31	08/07/15	08/08/15 15:40	150807L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	24-168	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental	Date Received:	08/06/15
3777 Long Beach Blvd., Annex Building	Work Order:	15-08-0382
Long Beach, CA 90802-3335	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-12-535-3365</b>	<b>N/A</b>	<b>Solid</b>	<b>GC 31</b>	<b>08/07/15</b>	<b>08/07/15 23:42</b>	<b>150807L12</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	73	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental	Date Received:	08/06/15
3777 Long Beach Blvd., Annex Building	Work Order:	15-08-0382
Long Beach, CA 90802-3335	Preparation:	EPA 3545
	Method:	EPA 8310
	Units:	ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-5	15-08-0382-11-A	08/06/15 08:55	Solid	HPLC 5	08/11/15	08/12/15 21:43	150811L04

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Naphthalene	ND	15	4.0	1.00	
Acenaphthylene	ND	30	4.2	1.00	
Acenaphthene	ND	15	4.0	1.00	
Fluorene	ND	10	1.7	1.00	
Phenanthrene	ND	10	2.1	1.00	
Anthracene	ND	10	2.0	1.00	
Fluoranthene	ND	10	2.1	1.00	
Pyrene	ND	10	2.9	1.00	
Benzo (a) Anthracene	ND	10	2.5	1.00	
Chrysene	ND	10	2.1	1.00	
Benzo (b) Fluoranthene	ND	10	2.1	1.00	
Benzo (k) Fluoranthene	38	10	1.7	1.00	
Benzo (a) Pyrene	ND	10	2.0	1.00	
Dibenz (a,h) Anthracene	ND	10	3.0	1.00	
Benzo (g,h,i) Perylene	ND	10	1.8	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.2	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	91	8-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3545  
Method: EPA 8310  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-10	15-08-0382-15-A	08/06/15 09:15	Solid	HPLC 5	08/11/15	08/12/15 22:16	150811L04

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Naphthalene	ND	15	4.1	1.00	
Acenaphthylene	ND	30	4.2	1.00	
Acenaphthene	ND	15	4.1	1.00	
Fluorene	ND	10	1.7	1.00	
Phenanthrene	ND	10	2.1	1.00	
Anthracene	ND	10	2.0	1.00	
Fluoranthene	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Benzo (a) Anthracene	ND	10	2.5	1.00	
Chrysene	ND	10	2.1	1.00	
Benzo (b) Fluoranthene	ND	10	2.1	1.00	
Benzo (k) Fluoranthene	ND	10	1.8	1.00	
Benzo (a) Pyrene	ND	10	2.1	1.00	
Dibenz (a,h) Anthracene	ND	10	3.0	1.00	
Benzo (g,h,i) Perylene	ND	10	1.8	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.2	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	48	8-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3545  
Method: EPA 8310  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-07-002-1798</b>	<b>N/A</b>	<b>Solid</b>	<b>HPLC 5</b>	<b>08/11/15</b>	<b>08/12/15 21:11</b>	<b>150811L04</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Naphthalene	ND	15	4.0	1.00	
Acenaphthylene	ND	30	4.2	1.00	
Acenaphthene	ND	15	4.0	1.00	
Fluorene	ND	10	1.7	1.00	
Phenanthrene	ND	10	2.1	1.00	
Anthracene	ND	10	2.0	1.00	
Fluoranthene	ND	10	2.1	1.00	
Pyrene	ND	10	2.9	1.00	
Benzo (a) Anthracene	ND	10	2.5	1.00	
Chrysene	ND	10	2.1	1.00	
Benzo (b) Fluoranthene	ND	10	2.1	1.00	
Benzo (k) Fluoranthene	ND	10	1.7	1.00	
Benzo (a) Pyrene	ND	10	2.0	1.00	
Dibenz (a,h) Anthracene	ND	10	3.0	1.00	
Benzo (g,h,i) Perylene	ND	10	1.8	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.2	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decafluorobiphenyl	25	8-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 1 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-10	15-08-0382-3-C	08/06/15 08:20	Solid	GC/MS Q	08/06/15	08/10/15 15:34	150810L003

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	11	36	4.5	1.00	J
Benzene	ND	0.72	0.093	1.00	
Bromobenzene	ND	0.72	0.15	1.00	
Bromochloromethane	ND	1.4	0.50	1.00	
Bromodichloromethane	ND	0.72	0.17	1.00	
Bromoform	ND	3.6	0.57	1.00	
Bromomethane	ND	14	6.8	1.00	
2-Butanone	ND	14	2.7	1.00	
n-Butylbenzene	ND	0.72	0.11	1.00	
sec-Butylbenzene	ND	0.72	0.42	1.00	
tert-Butylbenzene	ND	0.72	0.11	1.00	
Carbon Disulfide	ND	7.2	0.22	1.00	
Carbon Tetrachloride	ND	0.72	0.20	1.00	
Chlorobenzene	ND	0.72	0.16	1.00	
Chloroethane	ND	1.4	1.1	1.00	
Chloroform	ND	0.72	0.17	1.00	
Chloromethane	ND	14	0.22	1.00	
2-Chlorotoluene	ND	0.72	0.17	1.00	
4-Chlorotoluene	ND	0.72	0.15	1.00	
Dibromochloromethane	ND	1.4	0.41	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.6	1.2	1.00	
1,2-Dibromoethane	ND	0.72	0.18	1.00	
Dibromomethane	ND	0.72	0.56	1.00	
1,2-Dichlorobenzene	ND	0.72	0.16	1.00	
1,3-Dichlorobenzene	ND	0.72	0.13	1.00	
1,4-Dichlorobenzene	ND	0.72	0.16	1.00	
Dichlorodifluoromethane	ND	1.4	0.32	1.00	
1,1-Dichloroethane	ND	0.72	0.15	1.00	
1,2-Dichloroethane	ND	0.72	0.23	1.00	
1,1-Dichloroethene	ND	0.72	0.25	1.00	
c-1,2-Dichloroethene	ND	0.72	0.20	1.00	
t-1,2-Dichloroethene	ND	0.72	0.36	1.00	
1,2-Dichloropropane	ND	0.72	0.31	1.00	
1,3-Dichloropropane	ND	0.72	0.18	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 2 of 30

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	3.6	0.24	1.00	
1,1-Dichloropropene	ND	1.4	0.24	1.00	
c-1,3-Dichloropropene	ND	0.72	0.18	1.00	
t-1,3-Dichloropropene	ND	1.4	0.44	1.00	
Ethylbenzene	ND	0.72	0.11	1.00	
2-Hexanone	ND	14	1.3	1.00	
Isopropylbenzene	ND	0.72	0.39	1.00	
p-Isopropyltoluene	ND	0.72	0.45	1.00	
Methylene Chloride	ND	7.2	0.96	1.00	
4-Methyl-2-Pentanone	ND	14	3.1	1.00	
Naphthalene	ND	7.2	0.58	1.00	
n-Propylbenzene	ND	1.4	0.36	1.00	
Styrene	ND	0.72	0.43	1.00	
1,1,1,2-Tetrachloroethane	ND	0.72	0.17	1.00	
1,1,2,2-Tetrachloroethane	ND	1.4	0.25	1.00	
Tetrachloroethene	ND	0.72	0.15	1.00	
Toluene	ND	0.72	0.37	1.00	
1,2,3-Trichlorobenzene	ND	1.4	0.66	1.00	
1,2,4-Trichlorobenzene	ND	1.4	0.22	1.00	
1,1,1-Trichloroethane	ND	0.72	0.16	1.00	
1,1,2-Trichloroethane	ND	0.72	0.25	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.2	0.25	1.00	
Trichloroethene	ND	1.4	0.22	1.00	
Trichlorofluoromethane	ND	7.2	0.27	1.00	
1,2,3-Trichloropropane	ND	1.4	0.60	1.00	
1,2,4-Trimethylbenzene	ND	1.4	0.42	1.00	
1,3,5-Trimethylbenzene	ND	1.4	0.39	1.00	
Vinyl Acetate	ND	7.2	3.4	1.00	
Vinyl Chloride	ND	0.72	0.36	1.00	
p/m-Xylene	ND	1.4	0.19	1.00	
o-Xylene	ND	0.72	0.40	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.4	0.21	1.00	
Tert-Butyl Alcohol (TBA)	ND	14	3.7	1.00	
Diisopropyl Ether (DIPE)	ND	0.72	0.35	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.72	0.36	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.72	0.25	1.00	
Ethanol	ND	360	60	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 3 of 30

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	113	79-133	
1,2-Dichloroethane-d4	133	71-155	
Toluene-d8	97	80-120	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 4 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-10	15-08-0382-6-C	08/06/15 08:40	Solid	GC/MS Q	08/06/15	08/10/15 16:01	150810L003

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	9.9	35	4.4	1.00	J
Benzene	ND	0.70	0.091	1.00	
Bromobenzene	ND	0.70	0.15	1.00	
Bromochloromethane	ND	1.4	0.49	1.00	
Bromodichloromethane	ND	0.70	0.16	1.00	
Bromoform	ND	3.5	0.56	1.00	
Bromomethane	ND	14	6.6	1.00	
2-Butanone	ND	14	2.7	1.00	
n-Butylbenzene	ND	0.70	0.11	1.00	
sec-Butylbenzene	ND	0.70	0.41	1.00	
tert-Butylbenzene	ND	0.70	0.11	1.00	
Carbon Disulfide	ND	7.0	0.22	1.00	
Carbon Tetrachloride	ND	0.70	0.20	1.00	
Chlorobenzene	ND	0.70	0.16	1.00	
Chloroethane	ND	1.4	1.0	1.00	
Chloroform	ND	0.70	0.17	1.00	
Chloromethane	0.22	14	0.21	1.00	J
2-Chlorotoluene	ND	0.70	0.16	1.00	
4-Chlorotoluene	ND	0.70	0.15	1.00	
Dibromochloromethane	ND	1.4	0.40	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.5	1.2	1.00	
1,2-Dibromoethane	ND	0.70	0.18	1.00	
Dibromomethane	ND	0.70	0.54	1.00	
1,2-Dichlorobenzene	ND	0.70	0.16	1.00	
1,3-Dichlorobenzene	ND	0.70	0.12	1.00	
1,4-Dichlorobenzene	ND	0.70	0.16	1.00	
Dichlorodifluoromethane	ND	1.4	0.31	1.00	
1,1-Dichloroethane	ND	0.70	0.15	1.00	
1,2-Dichloroethane	ND	0.70	0.22	1.00	
1,1-Dichloroethene	ND	0.70	0.24	1.00	
c-1,2-Dichloroethene	ND	0.70	0.20	1.00	
t-1,2-Dichloroethene	ND	0.70	0.36	1.00	
1,2-Dichloropropane	ND	0.70	0.31	1.00	
1,3-Dichloropropane	ND	0.70	0.18	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 5 of 30

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	3.5	0.23	1.00	
1,1-Dichloropropene	ND	1.4	0.23	1.00	
c-1,3-Dichloropropene	ND	0.70	0.18	1.00	
t-1,3-Dichloropropene	ND	1.4	0.43	1.00	
Ethylbenzene	ND	0.70	0.11	1.00	
2-Hexanone	ND	14	1.2	1.00	
Isopropylbenzene	ND	0.70	0.38	1.00	
p-Isopropyltoluene	ND	0.70	0.44	1.00	
Methylene Chloride	ND	7.0	0.94	1.00	
4-Methyl-2-Pentanone	ND	14	3.0	1.00	
Naphthalene	ND	7.0	0.57	1.00	
n-Propylbenzene	ND	1.4	0.35	1.00	
Styrene	ND	0.70	0.43	1.00	
1,1,1,2-Tetrachloroethane	ND	0.70	0.17	1.00	
1,1,2,2-Tetrachloroethane	ND	1.4	0.24	1.00	
Tetrachloroethene	ND	0.70	0.15	1.00	
Toluene	ND	0.70	0.36	1.00	
1,2,3-Trichlorobenzene	ND	1.4	0.64	1.00	
1,2,4-Trichlorobenzene	ND	1.4	0.22	1.00	
1,1,1-Trichloroethane	ND	0.70	0.16	1.00	
1,1,2-Trichloroethane	ND	0.70	0.25	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.0	0.25	1.00	
Trichloroethene	ND	1.4	0.21	1.00	
Trichlorofluoromethane	ND	7.0	0.26	1.00	
1,2,3-Trichloropropane	ND	1.4	0.58	1.00	
1,2,4-Trimethylbenzene	ND	1.4	0.41	1.00	
1,3,5-Trimethylbenzene	ND	1.4	0.39	1.00	
Vinyl Acetate	ND	7.0	3.3	1.00	
Vinyl Chloride	ND	0.70	0.35	1.00	
p/m-Xylene	ND	1.4	0.19	1.00	
o-Xylene	ND	0.70	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.4	0.21	1.00	
Tert-Butyl Alcohol (TBA)	ND	14	3.6	1.00	
Diisopropyl Ether (DIPE)	ND	0.70	0.34	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.70	0.36	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.70	0.25	1.00	
Ethanol	ND	350	59	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 6 of 30

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	117	79-133	
1,2-Dichloroethane-d4	135	71-155	
Toluene-d8	97	80-120	



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## Analytical Report

Alta Environmental	Date Received:	08/06/15
3777 Long Beach Blvd., Annex Building	Work Order:	15-08-0382
Long Beach, CA 90802-3335	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 7 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-5	15-08-0382-8-C	08/06/15 08:45	Solid	GC/MS Q	08/06/15	08/10/15 16:28	150810L003

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	5.1	36	4.5	1.00	J
Benzene	ND	0.73	0.094	1.00	
Bromobenzene	ND	0.73	0.15	1.00	
Bromochloromethane	ND	1.5	0.50	1.00	
Bromodichloromethane	ND	0.73	0.17	1.00	
Bromoform	ND	3.6	0.58	1.00	
Bromomethane	ND	15	6.8	1.00	
2-Butanone	ND	15	2.7	1.00	
n-Butylbenzene	ND	0.73	0.11	1.00	
sec-Butylbenzene	ND	0.73	0.42	1.00	
tert-Butylbenzene	ND	0.73	0.11	1.00	
Carbon Disulfide	ND	7.3	0.22	1.00	
Carbon Tetrachloride	ND	0.73	0.21	1.00	
Chlorobenzene	ND	0.73	0.16	1.00	
Chloroethane	ND	1.5	1.1	1.00	
Chloroform	ND	0.73	0.17	1.00	
Chloromethane	ND	15	0.22	1.00	
2-Chlorotoluene	ND	0.73	0.17	1.00	
4-Chlorotoluene	ND	0.73	0.15	1.00	
Dibromochloromethane	ND	1.5	0.41	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.6	1.3	1.00	
1,2-Dibromoethane	ND	0.73	0.19	1.00	
Dibromomethane	ND	0.73	0.56	1.00	
1,2-Dichlorobenzene	ND	0.73	0.17	1.00	
1,3-Dichlorobenzene	ND	0.73	0.13	1.00	
1,4-Dichlorobenzene	ND	0.73	0.16	1.00	
Dichlorodifluoromethane	ND	1.5	0.32	1.00	
1,1-Dichloroethane	ND	0.73	0.15	1.00	
1,2-Dichloroethane	ND	0.73	0.23	1.00	
1,1-Dichloroethene	ND	0.73	0.25	1.00	
c-1,2-Dichloroethene	ND	0.73	0.20	1.00	
t-1,2-Dichloroethene	ND	0.73	0.37	1.00	
1,2-Dichloropropane	ND	0.73	0.32	1.00	
1,3-Dichloropropane	ND	0.73	0.18	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 8 of 30

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	3.6	0.24	1.00	
1,1-Dichloropropene	ND	1.5	0.24	1.00	
c-1,3-Dichloropropene	ND	0.73	0.18	1.00	
t-1,3-Dichloropropene	ND	1.5	0.44	1.00	
Ethylbenzene	ND	0.73	0.11	1.00	
2-Hexanone	ND	15	1.3	1.00	
Isopropylbenzene	ND	0.73	0.40	1.00	
p-Isopropyltoluene	ND	0.73	0.46	1.00	
Methylene Chloride	ND	7.3	0.97	1.00	
4-Methyl-2-Pentanone	ND	15	3.1	1.00	
Naphthalene	ND	7.3	0.59	1.00	
n-Propylbenzene	ND	1.5	0.36	1.00	
Styrene	ND	0.73	0.44	1.00	
1,1,1,2-Tetrachloroethane	ND	0.73	0.17	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	0.25	1.00	
Tetrachloroethene	ND	0.73	0.15	1.00	
Toluene	ND	0.73	0.37	1.00	
1,2,3-Trichlorobenzene	ND	1.5	0.66	1.00	
1,2,4-Trichlorobenzene	ND	1.5	0.23	1.00	
1,1,1-Trichloroethane	ND	0.73	0.16	1.00	
1,1,2-Trichloroethane	ND	0.73	0.26	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.3	0.26	1.00	
Trichloroethene	ND	1.5	0.22	1.00	
Trichlorofluoromethane	ND	7.3	0.27	1.00	
1,2,3-Trichloropropane	ND	1.5	0.60	1.00	
1,2,4-Trimethylbenzene	ND	1.5	0.43	1.00	
1,3,5-Trimethylbenzene	ND	1.5	0.40	1.00	
Vinyl Acetate	ND	7.3	3.4	1.00	
Vinyl Chloride	ND	0.73	0.37	1.00	
p/m-Xylene	ND	1.5	0.19	1.00	
o-Xylene	ND	0.73	0.40	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	0.21	1.00	
Tert-Butyl Alcohol (TBA)	ND	15	3.8	1.00	
Diisopropyl Ether (DIPE)	ND	0.73	0.35	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.73	0.37	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.73	0.26	1.00	
Ethanol	ND	360	61	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 9 of 30

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	116	79-133	
1,2-Dichloroethane-d4	136	71-155	
Toluene-d8	97	80-120	





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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 10 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-10	15-08-0382-9-C	08/06/15 08:50	Solid	GC/MS Q	08/06/15	08/10/15 16:55	150810L003

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	13	37	4.6	1.00	J
Benzene	0.13	0.74	0.096	1.00	J
Bromobenzene	ND	0.74	0.16	1.00	
Bromochloromethane	ND	1.5	0.51	1.00	
Bromodichloromethane	ND	0.74	0.17	1.00	
Bromoform	ND	3.7	0.59	1.00	
Bromomethane	ND	15	7.0	1.00	
2-Butanone	ND	15	2.8	1.00	
n-Butylbenzene	ND	0.74	0.12	1.00	
sec-Butylbenzene	ND	0.74	0.43	1.00	
tert-Butylbenzene	ND	0.74	0.11	1.00	
Carbon Disulfide	ND	7.4	0.23	1.00	
Carbon Tetrachloride	ND	0.74	0.21	1.00	
Chlorobenzene	ND	0.74	0.17	1.00	
Chloroethane	ND	1.5	1.1	1.00	
Chloroform	ND	0.74	0.18	1.00	
Chloromethane	ND	15	0.22	1.00	
2-Chlorotoluene	ND	0.74	0.17	1.00	
4-Chlorotoluene	ND	0.74	0.16	1.00	
Dibromochloromethane	ND	1.5	0.42	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.7	1.3	1.00	
1,2-Dibromoethane	ND	0.74	0.19	1.00	
Dibromomethane	ND	0.74	0.57	1.00	
1,2-Dichlorobenzene	ND	0.74	0.17	1.00	
1,3-Dichlorobenzene	ND	0.74	0.13	1.00	
1,4-Dichlorobenzene	ND	0.74	0.16	1.00	
Dichlorodifluoromethane	ND	1.5	0.33	1.00	
1,1-Dichloroethane	ND	0.74	0.16	1.00	
1,2-Dichloroethane	ND	0.74	0.23	1.00	
1,1-Dichloroethene	ND	0.74	0.26	1.00	
c-1,2-Dichloroethene	ND	0.74	0.21	1.00	
t-1,2-Dichloroethene	ND	0.74	0.37	1.00	
1,2-Dichloropropane	ND	0.74	0.32	1.00	
1,3-Dichloropropane	ND	0.74	0.19	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 11 of 30

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	3.7	0.24	1.00	
1,1-Dichloropropene	ND	1.5	0.24	1.00	
c-1,3-Dichloropropene	ND	0.74	0.19	1.00	
t-1,3-Dichloropropene	ND	1.5	0.45	1.00	
Ethylbenzene	ND	0.74	0.11	1.00	
2-Hexanone	ND	15	1.3	1.00	
Isopropylbenzene	ND	0.74	0.40	1.00	
p-Isopropyltoluene	ND	0.74	0.47	1.00	
Methylene Chloride	ND	7.4	0.99	1.00	
4-Methyl-2-Pentanone	ND	15	3.2	1.00	
Naphthalene	ND	7.4	0.60	1.00	
n-Propylbenzene	ND	1.5	0.37	1.00	
Styrene	ND	0.74	0.45	1.00	
1,1,1,2-Tetrachloroethane	ND	0.74	0.18	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	0.26	1.00	
Tetrachloroethene	ND	0.74	0.16	1.00	
Toluene	ND	0.74	0.38	1.00	
1,2,3-Trichlorobenzene	ND	1.5	0.68	1.00	
1,2,4-Trichlorobenzene	ND	1.5	0.23	1.00	
1,1,1-Trichloroethane	ND	0.74	0.17	1.00	
1,1,2-Trichloroethane	ND	0.74	0.26	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.4	0.26	1.00	
Trichloroethene	ND	1.5	0.22	1.00	
Trichlorofluoromethane	ND	7.4	0.28	1.00	
1,2,3-Trichloropropane	ND	1.5	0.61	1.00	
1,2,4-Trimethylbenzene	ND	1.5	0.43	1.00	
1,3,5-Trimethylbenzene	ND	1.5	0.41	1.00	
Vinyl Acetate	ND	7.4	3.5	1.00	
Vinyl Chloride	ND	0.74	0.37	1.00	
p/m-Xylene	ND	1.5	0.20	1.00	
o-Xylene	ND	0.74	0.41	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	0.22	1.00	
Tert-Butyl Alcohol (TBA)	5.4	15	3.8	1.00	J
Diisopropyl Ether (DIPE)	ND	0.74	0.36	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.74	0.37	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.74	0.26	1.00	
Ethanol	ND	370	62	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 12 of 30

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	114	79-133	
1,2-Dichloroethane-d4	134	71-155	
Toluene-d8	99	80-120	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 13 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-5	15-08-0382-11-C	08/06/15 08:55	Solid	GC/MS Q	08/06/15	08/10/15 17:22	150810L003

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	26	36	4.4	1.00	J
Benzene	ND	0.71	0.092	1.00	
Bromobenzene	ND	0.71	0.15	1.00	
Bromochloromethane	ND	1.4	0.49	1.00	
Bromodichloromethane	ND	0.71	0.17	1.00	
Bromoform	ND	3.6	0.57	1.00	
Bromomethane	ND	14	6.7	1.00	
2-Butanone	ND	14	2.7	1.00	
n-Butylbenzene	ND	0.71	0.11	1.00	
sec-Butylbenzene	ND	0.71	0.41	1.00	
tert-Butylbenzene	ND	0.71	0.11	1.00	
Carbon Disulfide	ND	7.1	0.22	1.00	
Carbon Tetrachloride	ND	0.71	0.20	1.00	
Chlorobenzene	ND	0.71	0.16	1.00	
Chloroethane	ND	1.4	1.1	1.00	
Chloroform	ND	0.71	0.17	1.00	
Chloromethane	ND	14	0.22	1.00	
2-Chlorotoluene	ND	0.71	0.16	1.00	
4-Chlorotoluene	ND	0.71	0.15	1.00	
Dibromochloromethane	ND	1.4	0.41	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.6	1.2	1.00	
1,2-Dibromoethane	ND	0.71	0.18	1.00	
Dibromomethane	ND	0.71	0.55	1.00	
1,2-Dichlorobenzene	ND	0.71	0.16	1.00	
1,3-Dichlorobenzene	ND	0.71	0.13	1.00	
1,4-Dichlorobenzene	ND	0.71	0.16	1.00	
Dichlorodifluoromethane	ND	1.4	0.32	1.00	
1,1-Dichloroethane	ND	0.71	0.15	1.00	
1,2-Dichloroethane	ND	0.71	0.22	1.00	
1,1-Dichloroethene	ND	0.71	0.25	1.00	
c-1,2-Dichloroethene	ND	0.71	0.20	1.00	
t-1,2-Dichloroethene	ND	0.71	0.36	1.00	
1,2-Dichloropropane	ND	0.71	0.31	1.00	
1,3-Dichloropropane	ND	0.71	0.18	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 14 of 30

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	3.6	0.24	1.00	
1,1-Dichloropropene	ND	1.4	0.23	1.00	
c-1,3-Dichloropropene	ND	0.71	0.18	1.00	
t-1,3-Dichloropropene	ND	1.4	0.43	1.00	
Ethylbenzene	ND	0.71	0.11	1.00	
2-Hexanone	ND	14	1.3	1.00	
Isopropylbenzene	ND	0.71	0.39	1.00	
p-Isopropyltoluene	ND	0.71	0.45	1.00	
Methylene Chloride	ND	7.1	0.95	1.00	
4-Methyl-2-Pentanone	ND	14	3.1	1.00	
Naphthalene	ND	7.1	0.58	1.00	
n-Propylbenzene	ND	1.4	0.36	1.00	
Styrene	ND	0.71	0.43	1.00	
1,1,1,2-Tetrachloroethane	ND	0.71	0.17	1.00	
1,1,2,2-Tetrachloroethane	ND	1.4	0.25	1.00	
Tetrachloroethene	ND	0.71	0.15	1.00	
Toluene	ND	0.71	0.37	1.00	
1,2,3-Trichlorobenzene	ND	1.4	0.65	1.00	
1,2,4-Trichlorobenzene	ND	1.4	0.22	1.00	
1,1,1-Trichloroethane	ND	0.71	0.16	1.00	
1,1,2-Trichloroethane	ND	0.71	0.25	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.1	0.25	1.00	
Trichloroethene	ND	1.4	0.21	1.00	
Trichlorofluoromethane	ND	7.1	0.27	1.00	
1,2,3-Trichloropropane	ND	1.4	0.59	1.00	
1,2,4-Trimethylbenzene	ND	1.4	0.42	1.00	
1,3,5-Trimethylbenzene	ND	1.4	0.39	1.00	
Vinyl Acetate	ND	7.1	3.4	1.00	
Vinyl Chloride	ND	0.71	0.36	1.00	
p/m-Xylene	ND	1.4	0.19	1.00	
o-Xylene	ND	0.71	0.40	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.4	0.21	1.00	
Tert-Butyl Alcohol (TBA)	4.7	14	3.7	1.00	J
Diisopropyl Ether (DIPE)	ND	0.71	0.34	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.71	0.36	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.71	0.25	1.00	
Ethanol	ND	360	60	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 15 of 30

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	114	79-133	
1,2-Dichloroethane-d4	139	71-155	
Toluene-d8	99	80-120	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 16 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-10	15-08-0382-15-C	08/06/15 09:15	Solid	GC/MS Q	08/06/15	08/10/15 17:48	150810L003

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	11	50	6.2	1.00	J
Benzene	0.18	0.99	0.13	1.00	J
Bromobenzene	ND	0.99	0.21	1.00	
Bromochloromethane	ND	2.0	0.68	1.00	
Bromodichloromethane	ND	0.99	0.23	1.00	
Bromoform	ND	5.0	0.79	1.00	
Bromomethane	ND	20	9.3	1.00	
2-Butanone	ND	20	3.7	1.00	
n-Butylbenzene	ND	0.99	0.16	1.00	
sec-Butylbenzene	ND	0.99	0.57	1.00	
tert-Butylbenzene	ND	0.99	0.15	1.00	
Carbon Disulfide	ND	9.9	0.30	1.00	
Carbon Tetrachloride	ND	0.99	0.28	1.00	
Chlorobenzene	ND	0.99	0.22	1.00	
Chloroethane	ND	2.0	1.5	1.00	
Chloroform	ND	0.99	0.24	1.00	
Chloromethane	ND	20	0.30	1.00	
2-Chlorotoluene	ND	0.99	0.23	1.00	
4-Chlorotoluene	ND	0.99	0.21	1.00	
Dibromochloromethane	ND	2.0	0.57	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.7	1.00	
1,2-Dibromoethane	ND	0.99	0.25	1.00	
Dibromomethane	ND	0.99	0.77	1.00	
1,2-Dichlorobenzene	ND	0.99	0.23	1.00	
1,3-Dichlorobenzene	ND	0.99	0.17	1.00	
1,4-Dichlorobenzene	ND	0.99	0.22	1.00	
Dichlorodifluoromethane	ND	2.0	0.44	1.00	
1,1-Dichloroethane	ND	0.99	0.21	1.00	
1,2-Dichloroethane	ND	0.99	0.31	1.00	
1,1-Dichloroethene	ND	0.99	0.34	1.00	
c-1,2-Dichloroethene	ND	0.99	0.28	1.00	
t-1,2-Dichloroethene	ND	0.99	0.50	1.00	
1,2-Dichloropropane	ND	0.99	0.43	1.00	
1,3-Dichloropropane	ND	0.99	0.25	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 17 of 30

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	5.0	0.33	1.00	
1,1-Dichloropropene	ND	2.0	0.33	1.00	
c-1,3-Dichloropropene	ND	0.99	0.25	1.00	
t-1,3-Dichloropropene	ND	2.0	0.60	1.00	
Ethylbenzene	ND	0.99	0.15	1.00	
2-Hexanone	ND	20	1.7	1.00	
Isopropylbenzene	ND	0.99	0.54	1.00	
p-Isopropyltoluene	ND	0.99	0.62	1.00	
Methylene Chloride	ND	9.9	1.3	1.00	
4-Methyl-2-Pentanone	ND	20	4.3	1.00	
Naphthalene	ND	9.9	0.81	1.00	
n-Propylbenzene	ND	2.0	0.50	1.00	
Styrene	ND	0.99	0.60	1.00	
1,1,1,2-Tetrachloroethane	ND	0.99	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	0.34	1.00	
Tetrachloroethene	ND	0.99	0.21	1.00	
Toluene	ND	0.99	0.51	1.00	
1,2,3-Trichlorobenzene	ND	2.0	0.91	1.00	
1,2,4-Trichlorobenzene	ND	2.0	0.31	1.00	
1,1,1-Trichloroethane	ND	0.99	0.22	1.00	
1,1,2-Trichloroethane	ND	0.99	0.35	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.9	0.35	1.00	
Trichloroethene	ND	2.0	0.30	1.00	
Trichlorofluoromethane	ND	9.9	0.37	1.00	
1,2,3-Trichloropropane	ND	2.0	0.82	1.00	
1,2,4-Trimethylbenzene	ND	2.0	0.58	1.00	
1,3,5-Trimethylbenzene	ND	2.0	0.54	1.00	
Vinyl Acetate	ND	9.9	4.7	1.00	
Vinyl Chloride	ND	0.99	0.50	1.00	
p/m-Xylene	ND	2.0	0.27	1.00	
o-Xylene	ND	0.99	0.55	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	5.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.99	0.48	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.99	0.50	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.99	0.35	1.00	
Ethanol	ND	500	83	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 18 of 30

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	112	79-133	
1,2-Dichloroethane-d4	138	71-155	
Toluene-d8	96	80-120	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 19 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B10-2.5	15-08-0382-16-C	08/06/15 11:15	Solid	GC/MS Q	08/06/15	08/10/15 18:15	150810L003

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	64	39	4.8	1.00	
Benzene	0.40	0.77	0.10	1.00	J
Bromobenzene	ND	0.77	0.16	1.00	
Bromochloromethane	ND	1.5	0.53	1.00	
Bromodichloromethane	ND	0.77	0.18	1.00	
Bromoform	ND	3.9	0.61	1.00	
Bromomethane	ND	15	7.3	1.00	
2-Butanone	3.3	15	2.9	1.00	J
n-Butylbenzene	ND	0.77	0.12	1.00	
sec-Butylbenzene	ND	0.77	0.45	1.00	
tert-Butylbenzene	ND	0.77	0.12	1.00	
Carbon Disulfide	0.26	7.7	0.24	1.00	J
Carbon Tetrachloride	ND	0.77	0.22	1.00	
Chlorobenzene	ND	0.77	0.17	1.00	
Chloroethane	ND	1.5	1.2	1.00	
Chloroform	ND	0.77	0.18	1.00	
Chloromethane	ND	15	0.23	1.00	
2-Chlorotoluene	ND	0.77	0.18	1.00	
4-Chlorotoluene	ND	0.77	0.16	1.00	
Dibromochloromethane	ND	1.5	0.44	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.9	1.3	1.00	
1,2-Dibromoethane	ND	0.77	0.20	1.00	
Dibromomethane	ND	0.77	0.60	1.00	
1,2-Dichlorobenzene	ND	0.77	0.18	1.00	
1,3-Dichlorobenzene	ND	0.77	0.14	1.00	
1,4-Dichlorobenzene	ND	0.77	0.17	1.00	
Dichlorodifluoromethane	ND	1.5	0.34	1.00	
1,1-Dichloroethane	ND	0.77	0.16	1.00	
1,2-Dichloroethane	ND	0.77	0.24	1.00	
1,1-Dichloroethene	ND	0.77	0.27	1.00	
c-1,2-Dichloroethene	ND	0.77	0.22	1.00	
t-1,2-Dichloroethene	ND	0.77	0.39	1.00	
1,2-Dichloropropane	ND	0.77	0.34	1.00	
1,3-Dichloropropane	ND	0.77	0.20	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 20 of 30

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	3.9	0.26	1.00	
1,1-Dichloropropene	ND	1.5	0.25	1.00	
c-1,3-Dichloropropene	ND	0.77	0.20	1.00	
t-1,3-Dichloropropene	ND	1.5	0.47	1.00	
Ethylbenzene	ND	0.77	0.12	1.00	
2-Hexanone	ND	15	1.4	1.00	
Isopropylbenzene	ND	0.77	0.42	1.00	
p-Isopropyltoluene	ND	0.77	0.49	1.00	
Methylene Chloride	ND	7.7	1.0	1.00	
4-Methyl-2-Pentanone	ND	15	3.3	1.00	
Naphthalene	ND	7.7	0.63	1.00	
n-Propylbenzene	ND	1.5	0.39	1.00	
Styrene	ND	0.77	0.47	1.00	
1,1,1,2-Tetrachloroethane	ND	0.77	0.19	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	0.27	1.00	
Tetrachloroethene	ND	0.77	0.16	1.00	
Toluene	ND	0.77	0.40	1.00	
1,2,3-Trichlorobenzene	ND	1.5	0.70	1.00	
1,2,4-Trichlorobenzene	ND	1.5	0.24	1.00	
1,1,1-Trichloroethane	ND	0.77	0.17	1.00	
1,1,2-Trichloroethane	ND	0.77	0.27	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.7	0.27	1.00	
Trichloroethene	2.4	1.5	0.23	1.00	
Trichlorofluoromethane	ND	7.7	0.29	1.00	
1,2,3-Trichloropropane	ND	1.5	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.5	0.45	1.00	
1,3,5-Trimethylbenzene	ND	1.5	0.42	1.00	
Vinyl Acetate	ND	7.7	3.7	1.00	
Vinyl Chloride	ND	0.77	0.39	1.00	
p/m-Xylene	ND	1.5	0.21	1.00	
o-Xylene	ND	0.77	0.43	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	0.23	1.00	
Tert-Butyl Alcohol (TBA)	ND	15	4.0	1.00	
Diisopropyl Ether (DIPE)	ND	0.77	0.37	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.77	0.39	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.77	0.27	1.00	
Ethanol	ND	390	64	1.00	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 21 of 30

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	91	80-120	
Dibromofluoromethane	118	79-133	
1,2-Dichloroethane-d4	141	71-155	
Toluene-d8	97	80-120	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 22 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B10-5	15-08-0382-17-C	08/06/15 11:20	Solid	GC/MS Q	08/06/15	08/10/15 18:42	150810L003

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	15	41	5.1	1.00	J
Benzene	ND	0.82	0.11	1.00	
Bromobenzene	ND	0.82	0.17	1.00	
Bromochloromethane	ND	1.6	0.57	1.00	
Bromodichloromethane	ND	0.82	0.19	1.00	
Bromoform	ND	4.1	0.65	1.00	
Bromomethane	ND	16	7.8	1.00	
2-Butanone	ND	16	3.1	1.00	
n-Butylbenzene	ND	0.82	0.13	1.00	
sec-Butylbenzene	ND	0.82	0.48	1.00	
tert-Butylbenzene	ND	0.82	0.12	1.00	
Carbon Disulfide	ND	8.2	0.25	1.00	
Carbon Tetrachloride	ND	0.82	0.23	1.00	
Chlorobenzene	ND	0.82	0.18	1.00	
Chloroethane	ND	1.6	1.2	1.00	
Chloroform	ND	0.82	0.20	1.00	
Chloromethane	ND	16	0.25	1.00	
2-Chlorotoluene	ND	0.82	0.19	1.00	
4-Chlorotoluene	ND	0.82	0.18	1.00	
Dibromochloromethane	ND	1.6	0.47	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.1	1.4	1.00	
1,2-Dibromoethane	ND	0.82	0.21	1.00	
Dibromomethane	ND	0.82	0.64	1.00	
1,2-Dichlorobenzene	ND	0.82	0.19	1.00	
1,3-Dichlorobenzene	ND	0.82	0.14	1.00	
1,4-Dichlorobenzene	ND	0.82	0.18	1.00	
Dichlorodifluoromethane	ND	1.6	0.36	1.00	
1,1-Dichloroethane	ND	0.82	0.17	1.00	
1,2-Dichloroethane	ND	0.82	0.26	1.00	
1,1-Dichloroethene	ND	0.82	0.28	1.00	
c-1,2-Dichloroethene	ND	0.82	0.23	1.00	
t-1,2-Dichloroethene	ND	0.82	0.42	1.00	
1,2-Dichloropropane	ND	0.82	0.36	1.00	
1,3-Dichloropropane	ND	0.82	0.21	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 23 of 30

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	4.1	0.27	1.00	
1,1-Dichloropropene	ND	1.6	0.27	1.00	
c-1,3-Dichloropropene	ND	0.82	0.21	1.00	
t-1,3-Dichloropropene	ND	1.6	0.50	1.00	
Ethylbenzene	ND	0.82	0.12	1.00	
2-Hexanone	ND	16	1.4	1.00	
Isopropylbenzene	ND	0.82	0.45	1.00	
p-Isopropyltoluene	ND	0.82	0.52	1.00	
Methylene Chloride	ND	8.2	1.1	1.00	
4-Methyl-2-Pentanone	ND	16	3.6	1.00	
Naphthalene	ND	8.2	0.67	1.00	
n-Propylbenzene	ND	1.6	0.41	1.00	
Styrene	ND	0.82	0.50	1.00	
1,1,1,2-Tetrachloroethane	ND	0.82	0.20	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	0.28	1.00	
Tetrachloroethene	ND	0.82	0.17	1.00	
Toluene	ND	0.82	0.42	1.00	
1,2,3-Trichlorobenzene	ND	1.6	0.75	1.00	
1,2,4-Trichlorobenzene	ND	1.6	0.26	1.00	
1,1,1-Trichloroethane	ND	0.82	0.19	1.00	
1,1,2-Trichloroethane	ND	0.82	0.29	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	0.29	1.00	
Trichloroethene	ND	1.6	0.25	1.00	
Trichlorofluoromethane	ND	8.2	0.31	1.00	
1,2,3-Trichloropropane	ND	1.6	0.68	1.00	
1,2,4-Trimethylbenzene	ND	1.6	0.48	1.00	
1,3,5-Trimethylbenzene	ND	1.6	0.45	1.00	
Vinyl Acetate	ND	8.2	3.9	1.00	
Vinyl Chloride	ND	0.82	0.41	1.00	
p/m-Xylene	ND	1.6	0.22	1.00	
o-Xylene	ND	0.82	0.46	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.24	1.00	
Tert-Butyl Alcohol (TBA)	ND	16	4.3	1.00	
Diisopropyl Ether (DIPE)	ND	0.82	0.40	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.82	0.42	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.82	0.29	1.00	
Ethanol	ND	410	69	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 24 of 30

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	114	79-133	
1,2-Dichloroethane-d4	141	71-155	
Toluene-d8	97	80-120	

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 25 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B10-10</b>	<b>15-08-0382-18-C</b>	<b>08/06/15 11:45</b>	<b>Solid</b>	<b>GC/MS Q</b>	<b>08/06/15</b>	<b>08/10/15 19:09</b>	<b>150810L003</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	24	50	6.3	1.00	J
Benzene	0.14	1.0	0.13	1.00	J
Bromobenzene	ND	1.0	0.21	1.00	
Bromochloromethane	ND	2.0	0.69	1.00	
Bromodichloromethane	ND	1.0	0.23	1.00	
Bromoform	ND	5.0	0.80	1.00	
Bromomethane	ND	20	9.5	1.00	
2-Butanone	ND	20	3.8	1.00	
n-Butylbenzene	ND	1.0	0.16	1.00	
sec-Butylbenzene	ND	1.0	0.58	1.00	
tert-Butylbenzene	ND	1.0	0.15	1.00	
Carbon Disulfide	ND	10	0.31	1.00	
Carbon Tetrachloride	ND	1.0	0.28	1.00	
Chlorobenzene	ND	1.0	0.23	1.00	
Chloroethane	ND	2.0	1.5	1.00	
Chloroform	ND	1.0	0.24	1.00	
Chloromethane	ND	20	0.31	1.00	
2-Chlorotoluene	ND	1.0	0.23	1.00	
4-Chlorotoluene	ND	1.0	0.21	1.00	
Dibromochloromethane	ND	2.0	0.57	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.7	1.00	
1,2-Dibromoethane	ND	1.0	0.26	1.00	
Dibromomethane	ND	1.0	0.78	1.00	
1,2-Dichlorobenzene	ND	1.0	0.23	1.00	
1,3-Dichlorobenzene	ND	1.0	0.18	1.00	
1,4-Dichlorobenzene	ND	1.0	0.22	1.00	
Dichlorodifluoromethane	ND	2.0	0.45	1.00	
1,1-Dichloroethane	ND	1.0	0.21	1.00	
1,2-Dichloroethane	ND	1.0	0.32	1.00	
1,1-Dichloroethene	ND	1.0	0.35	1.00	
c-1,2-Dichloroethene	ND	1.0	0.28	1.00	
t-1,2-Dichloroethene	ND	1.0	0.51	1.00	
1,2-Dichloropropane	ND	1.0	0.44	1.00	
1,3-Dichloropropane	ND	1.0	0.25	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 26 of 30

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	5.0	0.33	1.00	
1,1-Dichloropropene	ND	2.0	0.33	1.00	
c-1,3-Dichloropropene	ND	1.0	0.26	1.00	
t-1,3-Dichloropropene	ND	2.0	0.61	1.00	
Ethylbenzene	ND	1.0	0.15	1.00	
2-Hexanone	ND	20	1.8	1.00	
Isopropylbenzene	ND	1.0	0.55	1.00	
p-Isopropyltoluene	ND	1.0	0.63	1.00	
Methylene Chloride	ND	10	1.3	1.00	
4-Methyl-2-Pentanone	ND	20	4.3	1.00	
Naphthalene	ND	10	0.82	1.00	
n-Propylbenzene	ND	2.0	0.50	1.00	
Styrene	ND	1.0	0.61	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	0.35	1.00	
Tetrachloroethene	ND	1.0	0.21	1.00	
Toluene	ND	1.0	0.52	1.00	
1,2,3-Trichlorobenzene	ND	2.0	0.92	1.00	
1,2,4-Trichlorobenzene	ND	2.0	0.31	1.00	
1,1,1-Trichloroethane	ND	1.0	0.23	1.00	
1,1,2-Trichloroethane	ND	1.0	0.36	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.35	1.00	
Trichloroethene	0.57	2.0	0.30	1.00	J
Trichlorofluoromethane	ND	10	0.38	1.00	
1,2,3-Trichloropropane	ND	2.0	0.84	1.00	
1,2,4-Trimethylbenzene	ND	2.0	0.59	1.00	
1,3,5-Trimethylbenzene	ND	2.0	0.55	1.00	
Vinyl Acetate	ND	10	4.8	1.00	
Vinyl Chloride	ND	1.0	0.51	1.00	
p/m-Xylene	ND	2.0	0.27	1.00	
o-Xylene	ND	1.0	0.56	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.30	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	5.2	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	0.49	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	0.51	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	0.35	1.00	
Ethanol	ND	500	84	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 27 of 30

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	113	79-133	
1,2-Dichloroethane-d4	139	71-155	
Toluene-d8	97	80-120	

## Analytical Report

Alta Environmental	Date Received:	08/06/15
3777 Long Beach Blvd., Annex Building	Work Order:	15-08-0382
Long Beach, CA 90802-3335	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 28 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>095-01-025-26509</b>	<b>N/A</b>	<b>Solid</b>	<b>GC/MS Q</b>	<b>08/10/15</b>	<b>08/10/15 11:08</b>	<b>150810L003</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Acetone	ND	50	6.2	1.00	
Benzene	ND	1.0	0.13	1.00	
Bromobenzene	ND	1.0	0.21	1.00	
Bromochloromethane	ND	2.0	0.69	1.00	
Bromodichloromethane	ND	1.0	0.23	1.00	
Bromoform	ND	5.0	0.79	1.00	
Bromomethane	ND	20	9.4	1.00	
2-Butanone	ND	20	3.8	1.00	
n-Butylbenzene	ND	1.0	0.16	1.00	
sec-Butylbenzene	ND	1.0	0.58	1.00	
tert-Butylbenzene	ND	1.0	0.15	1.00	
Carbon Disulfide	ND	10	0.31	1.00	
Carbon Tetrachloride	ND	1.0	0.28	1.00	
Chlorobenzene	ND	1.0	0.22	1.00	
Chloroethane	ND	2.0	1.5	1.00	
Chloroform	ND	1.0	0.24	1.00	
Chloromethane	ND	20	0.30	1.00	
2-Chlorotoluene	ND	1.0	0.23	1.00	
4-Chlorotoluene	ND	1.0	0.21	1.00	
Dibromochloromethane	ND	2.0	0.57	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.7	1.00	
1,2-Dibromoethane	ND	1.0	0.26	1.00	
Dibromomethane	ND	1.0	0.77	1.00	
1,2-Dichlorobenzene	ND	1.0	0.23	1.00	
1,3-Dichlorobenzene	ND	1.0	0.18	1.00	
1,4-Dichlorobenzene	ND	1.0	0.22	1.00	
Dichlorodifluoromethane	ND	2.0	0.44	1.00	
1,1-Dichloroethane	ND	1.0	0.21	1.00	
1,2-Dichloroethane	ND	1.0	0.31	1.00	
1,1-Dichloroethene	ND	1.0	0.35	1.00	
c-1,2-Dichloroethene	ND	1.0	0.28	1.00	
t-1,2-Dichloroethene	ND	1.0	0.51	1.00	
1,2-Dichloropropane	ND	1.0	0.44	1.00	
1,3-Dichloropropane	ND	1.0	0.25	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 29 of 30

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	5.0	0.33	1.00	
1,1-Dichloropropene	ND	2.0	0.33	1.00	
c-1,3-Dichloropropene	ND	1.0	0.25	1.00	
t-1,3-Dichloropropene	ND	2.0	0.61	1.00	
Ethylbenzene	ND	1.0	0.15	1.00	
2-Hexanone	ND	20	1.8	1.00	
Isopropylbenzene	ND	1.0	0.55	1.00	
p-Isopropyltoluene	ND	1.0	0.63	1.00	
Methylene Chloride	ND	10	1.3	1.00	
4-Methyl-2-Pentanone	ND	20	4.3	1.00	
Naphthalene	ND	10	0.81	1.00	
n-Propylbenzene	ND	2.0	0.50	1.00	
Styrene	ND	1.0	0.60	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	0.35	1.00	
Tetrachloroethene	ND	1.0	0.21	1.00	
Toluene	ND	1.0	0.52	1.00	
1,2,3-Trichlorobenzene	ND	2.0	0.91	1.00	
1,2,4-Trichlorobenzene	ND	2.0	0.31	1.00	
1,1,1-Trichloroethane	ND	1.0	0.23	1.00	
1,1,2-Trichloroethane	ND	1.0	0.35	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.35	1.00	
Trichloroethene	ND	2.0	0.30	1.00	
Trichlorofluoromethane	ND	10	0.38	1.00	
1,2,3-Trichloropropane	ND	2.0	0.83	1.00	
1,2,4-Trimethylbenzene	ND	2.0	0.59	1.00	
1,3,5-Trimethylbenzene	ND	2.0	0.55	1.00	
Vinyl Acetate	ND	10	4.7	1.00	
Vinyl Chloride	ND	1.0	0.50	1.00	
p/m-Xylene	ND	2.0	0.27	1.00	
o-Xylene	ND	1.0	0.56	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.30	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	5.2	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	0.48	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	0.51	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	0.35	1.00	
Ethanol	ND	500	84	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 30 of 30

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	111	79-133	
1,2-Dichloroethane-d4	126	71-155	
Toluene-d8	97	80-120	



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Quality Control - Spike/Spike Duplicate

Alta Environmental  
 3777 Long Beach Blvd., Annex Building  
 Long Beach, CA 90802-3335

Date Received: 08/06/15  
 Work Order: 15-08-0382  
 Preparation: EPA 3550B  
 Method: EPA 8015B (M)

Project: Panama Street Site / MCGU-15-5422

Page 1 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-08-0484-3	Sample	Solid	GC 46	08/10/15	08/11/15 09:16	150810S24
15-08-0484-3	Matrix Spike	Solid	GC 46	08/10/15	08/11/15 06:55	150810S24
15-08-0484-3	Matrix Spike Duplicate	Solid	GC 46	08/10/15	08/11/15 07:13	150810S24

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	ND	400.0	364.4	91	393.1	98	64-130	8	0-15	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: Panama Street Site / MCGU-15-5422

Page 2 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
<b>B10-5</b>	<b>Sample</b>	<b>Solid</b>	<b>GC 45</b>	<b>08/07/15</b>	<b>08/09/15 17:20</b>	<b>150807S05</b>
<b>B10-5</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>GC 45</b>	<b>08/07/15</b>	<b>08/09/15 12:23</b>	<b>150807S05</b>
<b>B10-5</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>GC 45</b>	<b>08/07/15</b>	<b>08/09/15 12:43</b>	<b>150807S05</b>

<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	ND	400.0	441.8	110	438.3	110	64-130	1	0-15	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: Panama Street Site / MCGU-15-5422

Page 3 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-08-0224-2	Sample	Solid	GC 1	08/05/15	08/12/15 14:28	150811S021
15-08-0224-2	Matrix Spike	Solid	GC 1	08/05/15	08/12/15 15:04	150811S021
15-08-0224-2	Matrix Spike Duplicate	Solid	GC 1	08/05/15	08/12/15 15:40	150811S021

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	10.00	8.796	88	8.507	85	48-114	3	0-23	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





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## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: Panama Street Site / MCGU-15-5422

Page 4 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
15-08-0416-1	Sample	Solid	ICP 7300	08/07/15	08/07/15 18:54	150807S05				
15-08-0416-1	Matrix Spike	Solid	ICP 7300	08/07/15	08/07/15 18:56	150807S05				
15-08-0416-1	Matrix Spike Duplicate	Solid	ICP 7300	08/07/15	08/07/15 18:57	150807S05				
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	0.7705	3	1.370	5	50-115	56	0-20	3,4
Arsenic	ND	25.00	24.00	96	23.49	94	75-125	2	0-20	
Barium	107.6	25.00	144.1	4X	137.6	4X	75-125	4X	0-20	Q
Beryllium	0.3570	25.00	25.38	100	25.17	99	75-125	1	0-20	
Cadmium	0.8306	25.00	24.59	95	24.41	94	75-125	1	0-20	
Chromium	16.29	25.00	40.41	97	41.45	101	75-125	3	0-20	
Cobalt	8.975	25.00	34.51	102	33.66	99	75-125	3	0-20	
Copper	26.35	25.00	58.43	128	82.93	226	75-125	35	0-20	3,4
Lead	13.72	25.00	40.77	108	39.14	102	75-125	4	0-20	
Molybdenum	ND	25.00	20.46	82	20.52	82	75-125	0	0-20	
Nickel	12.85	25.00	36.73	96	35.88	92	75-125	2	0-20	
Selenium	ND	25.00	19.57	78	19.06	76	75-125	3	0-20	
Silver	ND	12.50	4.444	36	5.117	41	75-125	14	0-20	3
Thallium	ND	25.00	16.04	64	17.56	70	75-125	9	0-20	3
Vanadium	29.28	25.00	54.97	103	54.73	102	75-125	0	0-20	
Zinc	66.96	25.00	97.79	123	92.48	102	75-125	6	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: Panama Street Site / MCGU-15-5422

Page 5 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-08-0416-1	Sample	Solid	Mercury 05	08/07/15	08/07/15 19:31	150807S03
15-08-0416-1	Matrix Spike	Solid	Mercury 05	08/07/15	08/07/15 19:33	150807S03
15-08-0416-1	Matrix Spike Duplicate	Solid	Mercury 05	08/07/15	08/07/15 19:35	150807S03

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.7784	93	0.7851	94	71-137	1	0-14	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3545  
Method: EPA 8082

Project: Panama Street Site / MCGU-15-5422

Page 6 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-08-0412-1	Sample	Solid	GC 31	08/07/15	08/08/15 10:56	150807S12
15-08-0412-1	Matrix Spike	Solid	GC 31	08/07/15	08/08/15 10:18	150807S12
15-08-0412-1	Matrix Spike Duplicate	Solid	GC 31	08/07/15	08/08/15 10:37	150807S12

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	800.7	801	793.4	793	50-135	1	0-20	3
Aroclor-1260	ND	100.0	259.6	260	282.2	282	50-135	8	0-20	3

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3545  
Method: EPA 8310

Project: Panama Street Site / MCGU-15-5422

Page 7 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
<b>B4-5</b>	<b>Sample</b>	<b>Solid</b>	<b>HPLC 5</b>	<b>08/11/15</b>	<b>08/12/15 21:43</b>	<b>150811S04</b>				
<b>B4-5</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>HPLC 5</b>	<b>08/11/15</b>	<b>08/12/15 22:48</b>	<b>150811S04</b>				
<b>B4-5</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>HPLC 5</b>	<b>08/11/15</b>	<b>08/12/15 23:21</b>	<b>150811S04</b>				
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Naphthalene	ND	100.0	119.9	120	120.7	121	23-167	1	0-46	
Acenaphthylene	ND	100.0	68.56	69	74.00	74	24-120	8	0-47	
Acenaphthene	ND	100.0	59.58	60	66.16	66	16-120	10	0-46	
Fluorene	ND	100.0	71.00	71	75.77	76	32-120	6	0-44	
Phenanthrene	ND	100.0	69.78	70	72.35	72	34-120	4	0-38	
Anthracene	ND	100.0	61.36	61	63.61	64	27-120	4	0-45	
Fluoranthene	ND	100.0	62.74	63	64.12	64	32-122	2	0-41	
Pyrene	ND	100.0	55.07	55	55.28	55	31-127	0	0-38	
Benzo (a) Anthracene	ND	100.0	61.69	62	60.78	61	32-122	1	0-43	
Chrysene	ND	100.0	62.16	62	63.22	63	30-132	2	0-42	
Benzo (b) Fluoranthene	ND	100.0	69.71	70	68.60	69	33-120	2	0-44	
Benzo (k) Fluoranthene	37.90	100.0	103.2	65	87.14	49	23-149	17	0-44	
Benzo (a) Pyrene	ND	100.0	78.09	78	81.88	82	12-132	5	0-48	
Dibenz (a,h) Anthracene	ND	100.0	71.07	71	63.04	63	29-125	12	0-43	
Benzo (g,h,i) Perylene	ND	100.0	73.30	73	86.29	86	24-132	16	0-42	
Indeno (1,2,3-c,d) Pyrene	ND	100.0	93.40	93	95.71	96	29-143	2	0-42	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: Panama Street Site / MCGU-15-5422

Page 1 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-420-1463</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 46</b>	<b>08/10/15</b>	<b>08/11/15 06:02</b>	<b>150810B24A</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Motor Oil		400.0	364.0	91	75-123	


  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: Panama Street Site / MCGU-15-5422

Page 2 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-422-1970</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 45</b>	<b>08/07/15</b>	<b>08/09/15 12:05</b>	<b>150807B05</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Diesel		400.0	432.6	108	75-123	


  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: Panama Street Site / MCGU-15-5422

Page 3 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-14-571-2517</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 1</b>	<b>08/11/15</b>	<b>08/12/15 12:42</b>	<b>150811L056</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline		10.00	8.969	90	70-124	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: Panama Street Site / MCGU-15-5422

Page 4 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>097-01-002-21579</b>	<b>LCS</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>08/07/15</b>	<b>08/07/15 17:56</b>	<b>150807L05</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Antimony		25.00	24.04	96	80-120	73-127	
Arsenic		25.00	21.95	88	80-120	73-127	
Barium		25.00	25.40	102	80-120	73-127	
Beryllium		25.00	23.15	93	80-120	73-127	
Cadmium		25.00	23.37	93	80-120	73-127	
Chromium		25.00	24.31	97	80-120	73-127	
Cobalt		25.00	25.25	101	80-120	73-127	
Copper		25.00	24.68	99	80-120	73-127	
Lead		25.00	23.79	95	80-120	73-127	
Molybdenum		25.00	23.29	93	80-120	73-127	
Nickel		25.00	24.74	99	80-120	73-127	
Selenium		25.00	21.50	86	80-120	73-127	
Silver		12.50	12.09	97	80-120	73-127	
Thallium		25.00	23.36	93	80-120	73-127	
Vanadium		25.00	23.53	94	80-120	73-127	
Zinc		25.00	23.85	95	80-120	73-127	

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits





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## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: Panama Street Site / MCGU-15-5422

Page 5 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-16-272-1524</b>	<b>LCS</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>08/07/15</b>	<b>08/07/15 19:28</b>	<b>150807L03</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury		0.8350	0.8673	104	85-121	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3545  
Method: EPA 8082

Project: Panama Street Site / MCGU-15-5422

Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-12-535-3365</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 31</b>	<b>08/07/15</b>	<b>08/08/15 00:01</b>	<b>150807L12</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Aroclor-1016		100.0	98.22	98	50-135	
Aroclor-1260		100.0	113.8	114	50-135	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 3545  
Method: EPA 8310

Project: Panama Street Site / MCGU-15-5422

Page 7 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>099-07-002-1798</b>	<b>LCS</b>	<b>Solid</b>	<b>HPLC 5</b>	<b>08/11/15</b>	<b>08/12/15 20:38</b>	<b>150811L04</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Naphthalene		100.0	74.38	74	17-203	0-234	
Acenaphthylene		100.0	60.04	60	50-120	38-132	
Acenaphthene		100.0	71.95	72	41-120	28-133	
Fluorene		100.0	57.72	58	51-120	40-132	
Phenanthrene		100.0	65.96	66	56-120	45-131	
Anthracene		100.0	58.53	59	49-120	37-132	
Fluoranthene		100.0	74.76	75	60-120	50-130	
Pyrene		100.0	73.81	74	61-121	51-131	
Benzo (a) Anthracene		100.0	79.90	80	61-121	51-131	
Chrysene		100.0	81.82	82	61-121	51-131	
Benzo (b) Fluoranthene		100.0	80.50	80	61-121	51-131	
Benzo (k) Fluoranthene		100.0	78.46	78	57-129	45-141	
Benzo (a) Pyrene		100.0	72.81	73	43-120	30-133	
Dibenz (a,h) Anthracene		100.0	81.00	81	59-125	48-136	
Benzo (g,h,i) Perylene		100.0	78.91	79	57-123	46-134	
Indeno (1,2,3-c,d) Pyrene		100.0	79.45	79	64-130	53-141	

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS/LCSD

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0382  
Preparation: EPA 5035  
Method: EPA 8260B

Project: Panama Street Site / MCGU-15-5422

Page 8 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
095-01-025-26509	LCS	Solid	GC/MS Q	08/10/15	08/10/15 09:44	150810L003				
095-01-025-26509	LCSD	Solid	GC/MS Q	08/10/15	08/10/15 10:10	150810L003				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	45.01	90	45.39	91	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	60.49	121	59.45	119	65-137	53-149	2	0-20	
Chlorobenzene	50.00	45.49	91	45.50	91	80-120	73-127	0	0-20	
1,2-Dibromoethane	50.00	46.54	93	47.91	96	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	46.00	92	47.33	95	80-120	73-127	3	0-20	
1,2-Dichloroethane	50.00	52.89	106	53.89	108	80-120	73-127	2	0-20	
1,1-Dichloroethene	50.00	45.00	90	45.67	91	68-128	58-138	1	0-20	
Ethylbenzene	50.00	47.89	96	47.73	95	80-120	73-127	0	0-20	
Toluene	50.00	45.21	90	45.67	91	80-120	73-127	1	0-20	
Trichloroethene	50.00	45.32	91	45.51	91	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	42.41	85	41.93	84	67-127	57-137	1	0-20	
p/m-Xylene	100.0	93.89	94	93.82	94	75-125	67-133	0	0-25	
o-Xylene	50.00	45.30	91	45.92	92	75-125	67-133	1	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	42.00	84	43.10	86	70-124	61-133	3	0-20	
Tert-Butyl Alcohol (TBA)	250.0	251.4	101	219.5	88	73-121	65-129	14	0-20	
Diisopropyl Ether (DIPE)	50.00	48.20	96	48.87	98	69-129	59-139	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	44.36	89	44.68	89	70-124	61-133	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	42.93	86	43.37	87	74-122	66-130	1	0-20	
Ethanol	500.0	591.0	118	479.4	96	51-135	37-149	21	0-27	

Total number of LCS compounds: 19

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

## Sample Analysis Summary Report

Work Order: 15-08-0382

Page 1 of 1

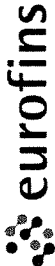
<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 6010B	EPA 3050B	935	ICP 7300	1
EPA 7471A	EPA 7471A Total	915	Mercury 05	1
EPA 8015B (M)	EPA 3550B	682	GC 45	1
EPA 8015B (M)	EPA 3550B	972	GC 46	1
EPA 8015B (M)	EPA 5030C	902	GC 1	2
EPA 8082	EPA 3545	944	GC 31	1
EPA 8260B	EPA 5035	905	GC/MS Q	2
EPA 8310	EPA 3545	960	HPLC 5	1

## Glossary of Terms and Qualifiers

Work Order: 15-08-0382

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



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7440 Lincoln Way, Garden Grove, CA 92641-1427 • (714) 895-5494  
For courier service / sample drop off information, contact us26\_sales@eurofins.com or call us.

LABORATORY CLIENT:

Alta Environmental  
3777 Long Beach Blvd  
Long Beach CA 90807  
TEL: 562-495-5777  
E-MAIL: stove\_ridenour@altaenvironment.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

EDD:  COELT EDF  OTHER  
SPECIAL INSTRUCTIONS:

WFO NO. / LAB USE ONLY  
**15-08-0382**

CHAIN-OF-CUSTODY RECORD

DATE: 8/6/15  
PAGE: 1 OF 2

CLIENT PROJECT NAME / NO.: Penene Street Site  
PROJECT CONTACT: Steve Ridenour  
GLOBAL ID:  
LOG CODE:  
P.O. NO.: MCL00-15-5422  
LAB CONTACT OR QUOTE NO.:  
SAMPLER(S): (PRINT) RS VB

REQUESTED ANALYSES  
Please check box or fill in blank as needed.

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(h) <input type="checkbox"/> DRO	<input checked="" type="checkbox"/> TPH <input type="checkbox"/> C6-C36 <input checked="" type="checkbox"/> C6-C44	<input type="checkbox"/> BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	<input type="checkbox"/> VOCs (8260)	<input type="checkbox"/> Oxygenates (8260)	<input type="checkbox"/> Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	<input type="checkbox"/> SVOCs (8270)	<input type="checkbox"/> Pesticides (8081)	<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	<input type="checkbox"/> T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	<input type="checkbox"/> Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
--	--	--	---	--------------------------------------	--	---	---------------------------------------	--	--------------------------------------	---	---	--

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Field Filtered	Preserved	Unpreserved
		DATE	TIME					
1	B31-2.5	8/6/15	725	Soil	1			
2	1-5		815		1			
3	1-70		820		5			
4	B32-2.5		720		1			
5	1-5		830		1			
6	1-70		840		5			
7	B33-2.5		842		1			
8	1-5		845		5			
9	1-10		850		5			
10	B42.5		705		1			

Relinquished by: (Signature) *[Signature]* Date: 8/6/15 Time: 1325  
 Received by: (Signature/Affiliation) *[Signature]* ECI  
 Relinquished by: (Signature) Date: Time:  
 Relinquished by: (Signature) Date: Time:





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CHAIN-OF-CUSTODY RECORD

DATE: 8/6/15  
PAGE: 2 OF 2

W/O NO. / LAB USE ONLY  
15-08-0382

LABORATORY CLIENT:  
 ALTA Environmental  
 ADDRESS: 3777 Long Beach Blvd  
 CITY: Long Beach  
 STATE: CA  
 ZIP: 90807  
 E-MAIL: steve.ridenour@altaenviro.com  
 TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD  
 EOD:  
 COELT EDF  OTHER

CLIENT PROJECT NAME / NO.: Panama Street Site  
 PROJECT CONTACT: Steve Ridenour  
 GLOBAL ID:  
 LOG CODE:  
 P.O. NO.: MCBU-15-5422  
 LAB CONTACT OR QUOTE NO.:  
 SAMPLER(S): (PRINT) RS VB

**REQUESTED ANALYSES**  
 Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	
		DATE	TIME																		
11	B4-5	8/6/15	855	Soil	5				X			X						X			
12	↓ -10		900		1							X						X			
13	B5-2.5		905		1							X						X			
14	↓ -5		910		1							X						X			
15	↓ -10		915		8				X			X						X			
16	B10-2.5		1115		5				X			X						X			
17	↓ -5		1120		5				X			X						X			
18	↓ -10		1145		5				X			X						X			

Received by: (Signature) [Signature] Date: 8/6/15 Time: 1325  
 Received by: (Signature/Affiliation) ECI  
 Received by: (Signature/Affiliation) [Signature] Date: 8/6/15 Time: 1325  
 Received by: (Signature/Affiliation) [Signature] Date: 8/6/15 Time: 1325





**SAMPLE RECEIPT CHECKLIST**

COOLER 1 OF 1

CLIENT: Alta Environmental

DATE: 08 / 06 / 2015

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 3.4 °C (w/ CF): 3.2 °C;  Blank  Sample

Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature:  Air  Filter

Checked by: 681

**CUSTODY SEAL:**

Cooler  Present and Intact  Present but Not Intact  Not Present  N/A

Checked by: 681

Sample(s)  Present and Intact  Present but Not Intact  Not Present  N/A

Checked by: 965

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers			
<input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time			
Sampler's name indicated on COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses			
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Container(s) for certain analysis free of headspace .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500)			
<input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:**

(Trip Blank Lot Number: \_\_\_\_\_)

**Aqueous:**  VOA  VOA<sub>h</sub>  VOA<sub>na2</sub>  100PJ  100PJ<sub>na2</sub>  125AGB  125AGB<sub>h</sub>  125AGB<sub>p</sub>  125PB  
 125PB<sub>z</sub>  250AGB  250CGB  250CGB<sub>s</sub>  250PB  250PB<sub>n</sub>  500AGB  500AGJ  500AGJ<sub>s</sub>  
 500PB  1AGB  1AGB<sub>na2</sub>  1AGB<sub>s</sub>  1PB  1PB<sub>na</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

**Solid:**  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (P)  EnCores® (\_\_\_\_)  TerraCores® (3)  100PJ(-15)

**Air:**  Tedlar™  Canister  Sorbent Tube  PUF  \_\_\_\_\_ **Other Matrix** (\_\_\_\_):  \_\_\_\_\_  \_\_\_\_\_

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO<sub>3</sub>, **na** = NaOH, **na<sub>2</sub>** = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, **p** = H<sub>3</sub>PO<sub>4</sub>, Labeled/Checked by: 965

**s** = H<sub>2</sub>SO<sub>4</sub>, **u** = ultra-pure, **z**na = Zn(CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> + NaOH Reviewed by: 681

Return to Contents

**SAMPLE ANOMALY REPORT**

DATE: 08 / 06 / 2015

**SAMPLES, CONTAINERS, AND LABELS:**

- Sample(s) NOT RECEIVED but listed on COC
- Sample(s) received but NOT LISTED on COC
- Holding time expired (list client or ECI sample ID and analysis)
- Insufficient sample amount for requested analysis (list analysis)
- Improper container(s) used (list analysis)
- Improper preservative used (list analysis)
- No preservative noted on COC or label (list analysis and notify lab)
- Sample container(s) not labeled
- Client sample label(s) illegible (list container type and analysis)
- Client sample label(s) do not match COC (comment)
  - Project information
  - Client sample ID
  - Sampling date and/or time
  - Number of container(s)
  - Requested analysis
- Sample container(s) compromised (comment)
  - Broken
  - Water present in sample container
- Air sample container(s) compromised (comment)
  - Flat
  - Very low in volume
  - Leaking (not transferred; duplicate bag submitted)
  - Leaking (transferred into ECI Tedlar™ bags\*)
  - Leaking (transferred into client's Tedlar™ bags\*)

\* Transferred at client's request.

**Comments**

(-18) received terracore in plastic bag;  
 terracore not individually labeled

**MISCELLANEOUS: (Describe)**

**Comments**

**HEADSPACE:**

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Comments: \_\_\_\_\_  
 \_\_\_\_\_

Reported by: aws  
 Reviewed by: 681

\*\* Record the total number of containers (i.e., vials or bottles) for the affected sample.





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**WORK ORDER NUMBER: 15-08-0319**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For**

**Client:** Alta Environmental

**Client Project Name:** Panama Street Site / MCGU-15-5422

**Attention:** Steve Ridenour  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

*Vikas Patel*

Approved for release on 08/14/2015 by:  
Vikas Patel  
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

# Contents

Client Project Name: Panama Street Site / MCGU-15-5422

Work Order Number: 15-08-0319

1	Work Order Narrative. . . . .	3
2	Detections Summary. . . . .	4
3	Client Sample Data. . . . .	10
	3.1 EPA 8015B (M) TPH Motor Oil (Solid). . . . .	10
	3.2 EPA 8015B (M) TPH Diesel (Solid). . . . .	15
	3.3 EPA 8015B (M) TPH Gasoline (Solid). . . . .	20
	3.4 EPA 6010B/7471A CAC Title 22 Metals (Solid). . . . .	25
	3.5 EPA 7471A Mercury (Solid). . . . .	36
	3.6 EPA 8260B Volatile Organics + Oxygenates Prep 5035 (Solid). . . . .	38
4	Quality Control Sample Data. . . . .	92
	4.1 MS/MSD. . . . .	92
	4.2 LCS/LCSD. . . . .	100
5	Sample Analysis Summary. . . . .	110
6	Glossary of Terms and Qualifiers. . . . .	111
7	Chain-of-Custody/Sample Receipt Form. . . . .	112

**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 08/05/15. They were assigned to Work Order 15-08-0319.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.





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## Detections Summary

Client: Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Work Order: 15-08-0319  
Project Name: Panama Street Site / MCGU-15-5422  
Received: 08/05/15

Attn: Steve Ridenour

Page 1 of 6

### Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B12-2.5 (15-08-0319-1)						
Arsenic	5.86		0.732	mg/kg	EPA 6010B	EPA 3050B
Barium	95.9		0.488	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.526		0.244	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.43		0.488	mg/kg	EPA 6010B	EPA 3050B
Chromium	33.3		0.244	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.32		0.244	mg/kg	EPA 6010B	EPA 3050B
Copper	61.4		0.488	mg/kg	EPA 6010B	EPA 3050B
Lead	16.4		0.488	mg/kg	EPA 6010B	EPA 3050B
Nickel	18.7		0.244	mg/kg	EPA 6010B	EPA 3050B
Vanadium	43.6		0.244	mg/kg	EPA 6010B	EPA 3050B
Zinc	61.7		0.976	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0227	J	0.00587*	mg/kg	EPA 7471A	EPA 7471A Total
TPH as Diesel	2.3	HD,J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
Acetone	55		39	ug/kg	EPA 8260B	EPA 5035
Benzene	0.29	J	0.10*	ug/kg	EPA 8260B	EPA 5035
Tetrachloroethene	1.2		0.78	ug/kg	EPA 8260B	EPA 5035
Trichloroethene	0.56	J	0.24*	ug/kg	EPA 8260B	EPA 5035
Tert-Butyl Alcohol (TBA)	5.8	J	4.1*	ug/kg	EPA 8260B	EPA 5035
B12-5 (15-08-0319-2)						
Acetone	7.5	J	4.4*	ug/kg	EPA 8260B	EPA 5035
Chloromethane	0.24	J	0.21*	ug/kg	EPA 8260B	EPA 5035
B12-10 (15-08-0319-3)						
Acetone	6.1	J	4.6*	ug/kg	EPA 8260B	EPA 5035
Benzene	0.14	J	0.096*	ug/kg	EPA 8260B	EPA 5035


 Return to Contents

\* MDL is shown



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## Detections Summary

Client: Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Work Order: 15-08-0319  
Project Name: Panama Street Site / MCGU-15-5422  
Received: 08/05/15

Attn: Steve Ridenour

Page 2 of 6

### Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B11-2.5 (15-08-0319-4)						
Arsenic	4.76		0.732	mg/kg	EPA 6010B	EPA 3050B
Barium	114		0.488	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.694		0.244	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.52		0.488	mg/kg	EPA 6010B	EPA 3050B
Chromium	39.3		0.244	mg/kg	EPA 6010B	EPA 3050B
Cobalt	13.0		0.244	mg/kg	EPA 6010B	EPA 3050B
Copper	23.8		0.488	mg/kg	EPA 6010B	EPA 3050B
Lead	18.2		0.488	mg/kg	EPA 6010B	EPA 3050B
Nickel	32.7		0.244	mg/kg	EPA 6010B	EPA 3050B
Vanadium	62.3		0.244	mg/kg	EPA 6010B	EPA 3050B
Zinc	58.9		0.976	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.00825	J	0.00587*	mg/kg	EPA 7471A	EPA 7471A Total
TPH as Diesel	1.9	HD,J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
Acetone	24	J	5.3*	ug/kg	EPA 8260B	EPA 5035
Tert-Butyl Alcohol (TBA)	4.8	J	4.4*	ug/kg	EPA 8260B	EPA 5035
B11-5 (15-08-0319-5)						
TPH as Diesel	6.9	HD	5.0	mg/kg	EPA 8015B (M)	EPA 3550B
Acetone	35	J	7.4*	ug/kg	EPA 8260B	EPA 5035
Benzene	0.19	J	0.15*	ug/kg	EPA 8260B	EPA 5035
2-Butanone	5.7	J	4.5*	ug/kg	EPA 8260B	EPA 5035
B11-10 (15-08-0319-6)						
Arsenic	3.12		0.773	mg/kg	EPA 6010B	EPA 3050B
Barium	71.7		0.515	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.392		0.258	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.35		0.515	mg/kg	EPA 6010B	EPA 3050B
Chromium	29.9		0.258	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.10		0.258	mg/kg	EPA 6010B	EPA 3050B
Copper	15.2		0.515	mg/kg	EPA 6010B	EPA 3050B
Lead	12.7		0.515	mg/kg	EPA 6010B	EPA 3050B
Nickel	26.2		0.258	mg/kg	EPA 6010B	EPA 3050B
Vanadium	43.7		0.258	mg/kg	EPA 6010B	EPA 3050B
Zinc	44.0		1.03	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0235	J	0.00618*	mg/kg	EPA 7471A	EPA 7471A Total
Acetone	11	J	6.7*	ug/kg	EPA 8260B	EPA 5035

\* MDL is shown





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## Detections Summary

Client: Alta Environmental	Work Order: 15-08-0319	
3777 Long Beach Blvd., Annex Building	Project Name: Panama Street Site / MCGU-15-5422	
Long Beach, CA 90802-3335	Received: 08/05/15	

Attn: Steve Ridenour

Page 3 of 6

### Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B7-5 (15-08-0319-8)						
Arsenic	17.1		0.721	mg/kg	EPA 6010B	EPA 3050B
Barium	167		0.481	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.730		0.240	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.85		0.481	mg/kg	EPA 6010B	EPA 3050B
Chromium	38.0		0.240	mg/kg	EPA 6010B	EPA 3050B
Cobalt	11.4		0.240	mg/kg	EPA 6010B	EPA 3050B
Copper	28.1		0.481	mg/kg	EPA 6010B	EPA 3050B
Lead	20.1		0.481	mg/kg	EPA 6010B	EPA 3050B
Nickel	31.0		0.240	mg/kg	EPA 6010B	EPA 3050B
Vanadium	58.1		0.240	mg/kg	EPA 6010B	EPA 3050B
Zinc	69.0		0.962	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0277	J	0.00559*	mg/kg	EPA 7471A	EPA 7471A Total
TPH as Diesel	2.6	HD,J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
Acetone	5.5	J	4.4*	ug/kg	EPA 8260B	EPA 5035
B7-10 (15-08-0319-9)						
Barium	66.5		0.518	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.374		0.259	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.01		0.518	mg/kg	EPA 6010B	EPA 3050B
Chromium	23.1		0.259	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.72		0.259	mg/kg	EPA 6010B	EPA 3050B
Copper	14.6		0.518	mg/kg	EPA 6010B	EPA 3050B
Lead	11.2		0.518	mg/kg	EPA 6010B	EPA 3050B
Nickel	20.3		0.259	mg/kg	EPA 6010B	EPA 3050B
Vanadium	34.5		0.259	mg/kg	EPA 6010B	EPA 3050B
Zinc	39.9		1.04	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0171	J	0.00587*	mg/kg	EPA 7471A	EPA 7471A Total
Acetone	5.4	J	4.9*	ug/kg	EPA 8260B	EPA 5035
Benzene	0.12	J	0.10*	ug/kg	EPA 8260B	EPA 5035

\* MDL is shown



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## Detections Summary

Client: Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Work Order: 15-08-0319  
Project Name: Panama Street Site / MCGU-15-5422  
Received: 08/05/15

Attn: Steve Ridenour

Page 4 of 6

### Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B6-5 (15-08-0319-11)						
Arsenic	8.31		0.750	mg/kg	EPA 6010B	EPA 3050B
Barium	168		0.500	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.771		0.250	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.56		0.500	mg/kg	EPA 6010B	EPA 3050B
Chromium	42.6		0.250	mg/kg	EPA 6010B	EPA 3050B
Cobalt	10.8		0.250	mg/kg	EPA 6010B	EPA 3050B
Copper	34.2		0.500	mg/kg	EPA 6010B	EPA 3050B
Lead	19.8		0.500	mg/kg	EPA 6010B	EPA 3050B
Nickel	32.0		0.250	mg/kg	EPA 6010B	EPA 3050B
Vanadium	51.2		0.250	mg/kg	EPA 6010B	EPA 3050B
Zinc	76.7		1.00	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0313	J	0.00578*	mg/kg	EPA 7471A	EPA 7471A Total
TPH as Diesel	1.3	HD,J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
Acetone	7.9	J	4.6*	ug/kg	EPA 8260B	EPA 5035
B6-10 (15-08-0319-12)						
Arsenic	4.07		0.739	mg/kg	EPA 6010B	EPA 3050B
Barium	51.4		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.326		0.246	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.03		0.493	mg/kg	EPA 6010B	EPA 3050B
Chromium	20.3		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.38		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	13.0		0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	10.4		0.493	mg/kg	EPA 6010B	EPA 3050B
Nickel	17.3		0.246	mg/kg	EPA 6010B	EPA 3050B
Thallium	0.295	B,J	0.149*	mg/kg	EPA 6010B	EPA 3050B
Vanadium	33.4		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	34.5		0.985	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.00749	J	0.00587*	mg/kg	EPA 7471A	EPA 7471A Total
TPH as Diesel	1.7	HD,J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
Acetone	6.3	J	4.6*	ug/kg	EPA 8260B	EPA 5035
Benzene	0.17	J	0.095*	ug/kg	EPA 8260B	EPA 5035
Tert-Butyl Alcohol (TBA)	4.5	J	3.8*	ug/kg	EPA 8260B	EPA 5035

\* MDL is shown



Calscience

## Detections Summary

Client: Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Work Order: 15-08-0319  
Project Name: Panama Street Site / MCGU-15-5422  
Received: 08/05/15

Attn: Steve Ridenour

Page 5 of 6

### Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B8-2.5 (15-08-0319-13)						
Arsenic	2.95		0.746	mg/kg	EPA 6010B	EPA 3050B
Barium	92.8		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.356		0.249	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.20		0.498	mg/kg	EPA 6010B	EPA 3050B
Chromium	26.4		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.68		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	21.8		0.498	mg/kg	EPA 6010B	EPA 3050B
Lead	3.75		0.498	mg/kg	EPA 6010B	EPA 3050B
Nickel	18.1		0.249	mg/kg	EPA 6010B	EPA 3050B
Thallium	0.638	J	0.151*	mg/kg	EPA 6010B	EPA 3050B
Vanadium	36.6		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	46.1	B	0.995	mg/kg	EPA 6010B	EPA 3050B
TPH as Diesel	2.0	HD,J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
Acetone	19	J	5.7*	ug/kg	EPA 8260B	EPA 5035
Benzene	0.54	J	0.12*	ug/kg	EPA 8260B	EPA 5035
B8-5 (15-08-0319-14)						
TPH as Diesel	5.7	HD	5.0	mg/kg	EPA 8015B (M)	EPA 3550B
Acetone	11	J	4.7*	ug/kg	EPA 8260B	EPA 5035
B8-10 (15-08-0319-15)						
TPH as Diesel	4.9	HD,J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
Benzene	0.15	J	0.12*	ug/kg	EPA 8260B	EPA 5035
B9-2.5 (15-08-0319-17)						
Arsenic	7.39		0.728	mg/kg	EPA 6010B	EPA 3050B
Barium	96.1		0.485	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.463		0.243	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.41		0.485	mg/kg	EPA 6010B	EPA 3050B
Chromium	31.8		0.243	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.29		0.243	mg/kg	EPA 6010B	EPA 3050B
Copper	125		0.485	mg/kg	EPA 6010B	EPA 3050B
Lead	17.4		0.485	mg/kg	EPA 6010B	EPA 3050B
Nickel	16.1		0.243	mg/kg	EPA 6010B	EPA 3050B
Thallium	0.486	B,J	0.147*	mg/kg	EPA 6010B	EPA 3050B
Vanadium	39.2		0.243	mg/kg	EPA 6010B	EPA 3050B
Zinc	65.9		0.971	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0511	J	0.00578*	mg/kg	EPA 7471A	EPA 7471A Total
TPH as Diesel	2.7	HD,J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
Acetone	20	J	5.0*	ug/kg	EPA 8260B	EPA 5035
Benzene	0.65	J	0.10*	ug/kg	EPA 8260B	EPA 5035

\* MDL is shown



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## Detections Summary

Client: Alta Environmental	Work Order: 15-08-0319
3777 Long Beach Blvd., Annex Building	Project Name: Panama Street Site / MCGU-15-5422
Long Beach, CA 90802-3335	Received: 08/05/15

Attn: Steve Ridenour

Page 6 of 6

### Client SampleID

<u>Analyte</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	<u>Method</u>	<u>Extraction</u>
B9-5 (15-08-0319-18)						
TPH as Diesel	4.0	HD,J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
Acetone	6.8	J	4.4*	ug/kg	EPA 8260B	EPA 5035
B9-10 (15-08-0319-19)						
TPH as Diesel	2.7	HD,J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
Acetone	5.8	J	4.2*	ug/kg	EPA 8260B	EPA 5035
Benzene	0.15	J	0.087*	ug/kg	EPA 8260B	EPA 5035

Subcontracted analyses, if any, are not included in this summary.

Return to Contents

\* MDL is shown

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 1 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B12-2.5	15-08-0319-1-A	08/05/15 07:30	Solid	GC 50	08/10/15	08/10/15 23:07	150810B22

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	6.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	85	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B12-5	15-08-0319-2-A	08/05/15 07:40	Solid	GC 50	08/10/15	08/10/15 23:27	150810B22

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	6.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	90	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B12-10	15-08-0319-3-A	08/05/15 07:45	Solid	GC 50	08/10/15	08/10/15 23:46	150810B22

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	6.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	91	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-2.5	15-08-0319-4-A	08/05/15 08:30	Solid	GC 50	08/10/15	08/11/15 00:05	150810B22

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	6.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	89	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-5	15-08-0319-5-A	08/05/15 08:40	Solid	GC 50	08/10/15	08/11/15 00:24	150810B22

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	6.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	85	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-10	15-08-0319-6-A	08/05/15 08:45	Solid	GC 50	08/10/15	08/11/15 00:44	150810B22

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	5.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-5	15-08-0319-8-A	08/05/15 09:25	Solid	GC 50	08/10/15	08/11/15 01:02	150810B22

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	5.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	88	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-10	15-08-0319-9-A	08/05/15 09:30	Solid	GC 50	08/10/15	08/12/15 23:37	150810B22

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	5.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	109	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-5	15-08-0319-11-A	08/05/15 10:20	Solid	GC 50	08/10/15	08/12/15 23:57	150810B22

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	6.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	134	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-10	15-08-0319-12-A	08/05/15 10:25	Solid	GC 50	08/10/15	08/13/15 00:16	150810B22

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	5.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-2.5	15-08-0319-13-A	08/05/15 11:00	Solid	GC 50	08/10/15	08/11/15 02:59	150810B22

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	6.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	82	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-5	15-08-0319-14-A	08/05/15 11:10	Solid	GC 50	08/10/15	08/11/15 03:18	150810B22

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	5.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	86	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B8-10</b>	<b>15-08-0319-15-A</b>	<b>08/05/15 11:15</b>	<b>Solid</b>	<b>GC 50</b>	<b>08/10/15</b>	<b>08/11/15 03:37</b>	<b>150810B22</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil	ND	25	6.0	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	87	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B9-2.5</b>	<b>15-08-0319-17-A</b>	<b>08/05/15 14:00</b>	<b>Solid</b>	<b>GC 50</b>	<b>08/10/15</b>	<b>08/11/15 03:56</b>	<b>150810B22</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil	ND	25	5.9	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	82	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B9-5</b>	<b>15-08-0319-18-A</b>	<b>08/05/15 14:10</b>	<b>Solid</b>	<b>GC 50</b>	<b>08/10/15</b>	<b>08/11/15 04:15</b>	<b>150810B22</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil	ND	25	5.9	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	83	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B9-10</b>	<b>15-08-0319-19-A</b>	<b>08/05/15 14:15</b>	<b>Solid</b>	<b>GC 50</b>	<b>08/10/15</b>	<b>08/11/15 04:34</b>	<b>150810B22</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil	ND	25	6.0	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	79	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 5 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-420-1462	N/A	Solid	GC 50	08/10/15	08/10/15 20:55	150810B22

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil	ND	25	6.0	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>		
n-Octacosane	89	61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 1 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B12-2.5	15-08-0319-1-A	08/05/15 07:30	Solid	GC 45	08/06/15	08/07/15 14:30	150806B03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	2.3	5.0	1.3	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	68	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B12-5	15-08-0319-2-A	08/05/15 07:40	Solid	GC 50	08/10/15	08/10/15 23:27	150810B21

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B12-10	15-08-0319-3-A	08/05/15 07:45	Solid	GC 45	08/06/15	08/07/15 15:06	150806B03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	68	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-2.5	15-08-0319-4-A	08/05/15 08:30	Solid	GC 45	08/06/15	08/07/15 15:24	150806B03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	1.9	5.0	1.3	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	67	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-5	15-08-0319-5-A	08/05/15 08:40	Solid	GC 45	08/06/15	08/07/15 15:44	150806B03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	6.9	5.0	1.2	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	68	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-10	15-08-0319-6-A	08/05/15 08:45	Solid	GC 45	08/06/15	08/08/15 19:44	150806B03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	108	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-5	15-08-0319-8-A	08/05/15 09:25	Solid	GC 45	08/06/15	08/08/15 20:02	150806B03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	2.6	4.9	1.2	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	116	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-10	15-08-0319-9-A	08/05/15 09:30	Solid	GC 45	08/06/15	08/08/15 20:21	150806B03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.2	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	105	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-5	15-08-0319-11-A	08/05/15 10:20	Solid	GC 45	08/06/15	08/08/15 20:39	150806B03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	1.3	5.0	1.3	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-10	15-08-0319-12-A	08/05/15 10:25	Solid	GC 45	08/06/15	08/07/15 14:11	150806B03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	1.7	4.9	1.2	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	67	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-2.5	15-08-0319-13-A	08/05/15 11:00	Solid	GC 45	08/06/15	08/08/15 20:58	150806B03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	2.0	5.0	1.2	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	106	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-5	15-08-0319-14-A	08/05/15 11:10	Solid	GC 45	08/06/15	08/08/15 21:17	150806B03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	5.7	5.0	1.3	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	98	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B8-10</b>	<b>15-08-0319-15-A</b>	<b>08/05/15 11:15</b>	<b>Solid</b>	<b>GC 45</b>	<b>08/06/15</b>	<b>08/08/15 21:35</b>	<b>150806B03</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	4.9	5.0	1.3	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B9-2.5</b>	<b>15-08-0319-17-A</b>	<b>08/05/15 14:00</b>	<b>Solid</b>	<b>GC 45</b>	<b>08/06/15</b>	<b>08/08/15 21:54</b>	<b>150806B03</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	2.7	4.9	1.2	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	95	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B9-5</b>	<b>15-08-0319-18-A</b>	<b>08/05/15 14:10</b>	<b>Solid</b>	<b>GC 45</b>	<b>08/06/15</b>	<b>08/08/15 22:13</b>	<b>150806B03</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	4.0	5.0	1.2	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	97	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B9-10</b>	<b>15-08-0319-19-A</b>	<b>08/05/15 14:15</b>	<b>Solid</b>	<b>GC 45</b>	<b>08/06/15</b>	<b>08/08/15 22:31</b>	<b>150806B03</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	2.7	4.9	1.2	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	111	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 5 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-422-1971	N/A	Solid	GC 45	08/06/15	08/07/15 10:47	150806B03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	66	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-422-1972	N/A	Solid	GC 50	08/10/15	08/10/15 20:55	150810B21

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	102	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5030C  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 1 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B12-2.5	15-08-0319-1-A	08/05/15 07:30	Solid	GC 24	08/11/15	08/12/15 21:06	150812L052

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.48	0.40	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	62	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B12-5	15-08-0319-2-A	08/05/15 07:40	Solid	GC 24	08/11/15	08/12/15 22:48	150812L052

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.49	0.41	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	62	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B12-10	15-08-0319-3-A	08/05/15 07:45	Solid	GC 24	08/11/15	08/12/15 23:22	150812L052

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.49	0.41	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	49	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-2.5	15-08-0319-4-A	08/05/15 08:30	Solid	GC 24	08/11/15	08/12/15 23:56	150812L052

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.51	0.43	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	63	42-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5030C  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-5	15-08-0319-5-A	08/05/15 08:40	Solid	GC 24	08/11/15	08/13/15 00:31	150812L052

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.50	0.42	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	66	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-10	15-08-0319-6-A	08/05/15 08:45	Solid	GC 24	08/11/15	08/13/15 01:05	150812L052

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.52	0.43	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	59	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-5	15-08-0319-8-A	08/05/15 09:25	Solid	GC 24	08/11/15	08/13/15 01:39	150812L052

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.52	0.44	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	61	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-10	15-08-0319-9-A	08/05/15 09:30	Solid	GC 24	08/11/15	08/13/15 02:13	150812L052

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.49	0.41	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	42	42-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5030C  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B6-5</b>	<b>15-08-0319-11-A</b>	<b>08/05/15 10:20</b>	<b>Solid</b>	<b>GC 24</b>	<b>08/11/15</b>	<b>08/13/15 02:47</b>	<b>150812L052</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.48	0.40	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	60	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B6-10</b>	<b>15-08-0319-12-A</b>	<b>08/05/15 10:25</b>	<b>Solid</b>	<b>GC 24</b>	<b>08/11/15</b>	<b>08/13/15 03:21</b>	<b>150812L052</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.52	0.43	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	45	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B8-2.5</b>	<b>15-08-0319-13-A</b>	<b>08/05/15 11:00</b>	<b>Solid</b>	<b>GC 24</b>	<b>08/11/15</b>	<b>08/13/15 04:29</b>	<b>150812L052</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.49	0.41	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	61	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B8-5</b>	<b>15-08-0319-14-A</b>	<b>08/05/15 11:10</b>	<b>Solid</b>	<b>GC 24</b>	<b>08/11/15</b>	<b>08/13/15 05:04</b>	<b>150812L052</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.50	0.42	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	64	42-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5030C  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-10	15-08-0319-15-A	08/05/15 11:15	Solid	GC 24	08/11/15	08/13/15 05:38	150812L052

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.48	0.40	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	63	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B9-2.5	15-08-0319-17-A	08/05/15 14:00	Solid	GC 24	08/11/15	08/13/15 06:12	150812L052

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.50	0.42	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	58	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B9-5	15-08-0319-18-A	08/05/15 14:10	Solid	GC 24	08/11/15	08/13/15 06:46	150812L052

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.51	0.43	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	64	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B9-10	15-08-0319-19-A	08/05/15 14:15	Solid	GC 24	08/11/15	08/13/15 07:20	150812L052

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.52	0.43	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	63	42-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5030C  
Method: EPA 8015B (M)  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 5 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-571-2519	N/A	Solid	GC 24	08/12/15	08/12/15 19:58	150812L052

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	0.50	0.42	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	58	42-126	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 1 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B12-2.5	15-08-0319-1-A	08/05/15 07:30	Solid	ICP 8300	08/06/15	08/06/15 20:40	150806L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.732	0.145	0.976	
Arsenic	5.86	0.732	0.253	0.976	
Barium	95.9	0.488	0.151	0.976	
Beryllium	0.526	0.244	0.134	0.976	
Cadmium	1.43	0.488	0.132	0.976	
Chromium	33.3	0.244	0.139	0.976	
Cobalt	9.32	0.244	0.144	0.976	
Copper	61.4	0.488	0.131	0.976	
Lead	16.4	0.488	0.128	0.976	
Molybdenum	ND	0.244	0.129	0.976	
Nickel	18.7	0.244	0.141	0.976	
Selenium	ND	0.732	0.292	0.976	
Silver	ND	0.244	0.0836	0.976	
Thallium	ND	0.732	0.148	0.976	
Vanadium	43.6	0.244	0.138	0.976	
Zinc	61.7	0.976	0.173	0.976	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 2 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-2.5	15-08-0319-4-A	08/05/15 08:30	Solid	ICP 8300	08/06/15	08/06/15 20:41	150806L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.732	0.145	0.976	
Arsenic	4.76	0.732	0.253	0.976	
Barium	114	0.488	0.151	0.976	
Beryllium	0.694	0.244	0.134	0.976	
Cadmium	1.52	0.488	0.132	0.976	
Chromium	39.3	0.244	0.139	0.976	
Cobalt	13.0	0.244	0.144	0.976	
Copper	23.8	0.488	0.131	0.976	
Lead	18.2	0.488	0.128	0.976	
Molybdenum	ND	0.244	0.129	0.976	
Nickel	32.7	0.244	0.141	0.976	
Selenium	ND	0.732	0.292	0.976	
Silver	ND	0.244	0.0836	0.976	
Thallium	ND	0.732	0.148	0.976	
Vanadium	62.3	0.244	0.138	0.976	
Zinc	58.9	0.976	0.173	0.976	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 3 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-10	15-08-0319-6-A	08/05/15 08:45	Solid	ICP 8300	08/06/15	08/06/15 20:43	150806L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.773	0.154	1.03	
Arsenic	3.12	0.773	0.267	1.03	
Barium	71.7	0.515	0.159	1.03	
Beryllium	0.392	0.258	0.141	1.03	
Cadmium	1.35	0.515	0.140	1.03	
Chromium	29.9	0.258	0.147	1.03	
Cobalt	7.10	0.258	0.153	1.03	
Copper	15.2	0.515	0.139	1.03	
Lead	12.7	0.515	0.136	1.03	
Molybdenum	ND	0.258	0.136	1.03	
Nickel	26.2	0.258	0.149	1.03	
Selenium	ND	0.773	0.309	1.03	
Silver	ND	0.258	0.0884	1.03	
Thallium	ND	0.773	0.156	1.03	
Vanadium	43.7	0.258	0.146	1.03	
Zinc	44.0	1.03	0.183	1.03	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 4 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-5	15-08-0319-8-A	08/05/15 09:25	Solid	ICP 8300	08/06/15	08/06/15 20:45	150806L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.721	0.143	0.962	
Arsenic	17.1	0.721	0.249	0.962	
Barium	167	0.481	0.148	0.962	
Beryllium	0.730	0.240	0.132	0.962	
Cadmium	1.85	0.481	0.130	0.962	
Chromium	38.0	0.240	0.137	0.962	
Cobalt	11.4	0.240	0.142	0.962	
Copper	28.1	0.481	0.130	0.962	
Lead	20.1	0.481	0.127	0.962	
Molybdenum	ND	0.240	0.127	0.962	
Nickel	31.0	0.240	0.139	0.962	
Selenium	ND	0.721	0.288	0.962	
Silver	ND	0.240	0.0824	0.962	
Thallium	ND	0.721	0.146	0.962	
Vanadium	58.1	0.240	0.136	0.962	
Zinc	69.0	0.962	0.171	0.962	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 5 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-10	15-08-0319-9-A	08/05/15 09:30	Solid	ICP 8300	08/06/15	08/06/15 20:47	150806L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.777	0.154	1.04	
Arsenic	ND	0.777	0.269	1.04	
Barium	66.5	0.518	0.160	1.04	
Beryllium	0.374	0.259	0.142	1.04	
Cadmium	1.01	0.518	0.140	1.04	
Chromium	23.1	0.259	0.147	1.04	
Cobalt	6.72	0.259	0.153	1.04	
Copper	14.6	0.518	0.140	1.04	
Lead	11.2	0.518	0.136	1.04	
Molybdenum	ND	0.259	0.137	1.04	
Nickel	20.3	0.259	0.150	1.04	
Selenium	ND	0.777	0.310	1.04	
Silver	ND	0.259	0.0888	1.04	
Thallium	ND	0.777	0.157	1.04	
Vanadium	34.5	0.259	0.146	1.04	
Zinc	39.9	1.04	0.184	1.04	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 6 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-5	15-08-0319-11-A	08/05/15 10:20	Solid	ICP 8300	08/06/15	08/06/15 20:53	150806L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.750	0.149	1.00	
Arsenic	8.31	0.750	0.259	1.00	
Barium	168	0.500	0.154	1.00	
Beryllium	0.771	0.250	0.137	1.00	
Cadmium	1.56	0.500	0.135	1.00	
Chromium	42.6	0.250	0.142	1.00	
Cobalt	10.8	0.250	0.148	1.00	
Copper	34.2	0.500	0.135	1.00	
Lead	19.8	0.500	0.132	1.00	
Molybdenum	ND	0.250	0.132	1.00	
Nickel	32.0	0.250	0.145	1.00	
Selenium	ND	0.750	0.300	1.00	
Silver	ND	0.250	0.0857	1.00	
Thallium	ND	0.750	0.152	1.00	
Vanadium	51.2	0.250	0.141	1.00	
Zinc	76.7	1.00	0.178	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 7 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-10	15-08-0319-12-A	08/05/15 10:25	Solid	ICP 8300	08/06/15	08/06/15 20:55	150806L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.739	0.147	0.985	
Arsenic	4.07	0.739	0.255	0.985	
Barium	51.4	0.493	0.152	0.985	
Beryllium	0.326	0.246	0.135	0.985	
Cadmium	1.03	0.493	0.133	0.985	
Chromium	20.3	0.246	0.140	0.985	
Cobalt	5.38	0.246	0.146	0.985	
Copper	13.0	0.493	0.133	0.985	
Lead	10.4	0.493	0.130	0.985	
Molybdenum	ND	0.246	0.130	0.985	
Nickel	17.3	0.246	0.143	0.985	
Selenium	ND	0.739	0.295	0.985	
Silver	ND	0.246	0.0844	0.985	
Thallium	0.295	0.739	0.149	0.985	B,J
Vanadium	33.4	0.246	0.139	0.985	
Zinc	34.5	0.985	0.175	0.985	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 8 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-2.5	15-08-0319-13-A	08/05/15 11:00	Solid	ICP 7300	08/11/15	08/12/15 16:52	150811L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.746	0.148	0.995	
Arsenic	2.95	0.746	0.258	0.995	
Barium	92.8	0.498	0.154	0.995	
Beryllium	0.356	0.249	0.136	0.995	
Cadmium	1.20	0.498	0.135	0.995	
Chromium	26.4	0.249	0.142	0.995	
Cobalt	8.68	0.249	0.147	0.995	
Copper	21.8	0.498	0.134	0.995	
Lead	3.75	0.498	0.131	0.995	
Molybdenum	ND	0.249	0.131	0.995	
Nickel	18.1	0.249	0.144	0.995	
Selenium	ND	0.746	0.298	0.995	
Silver	ND	0.249	0.0853	0.995	
Thallium	0.638	0.746	0.151	0.995	J
Vanadium	36.6	0.249	0.141	0.995	
Zinc	46.1	0.995	0.177	0.995	B

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 9 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B9-2.5	15-08-0319-17-A	08/05/15 14:00	Solid	ICP 8300	08/06/15	08/06/15 20:59	150806L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.728	0.145	0.971	
Arsenic	7.39	0.728	0.252	0.971	
Barium	96.1	0.485	0.150	0.971	
Beryllium	0.463	0.243	0.133	0.971	
Cadmium	1.41	0.485	0.131	0.971	
Chromium	31.8	0.243	0.138	0.971	
Cobalt	7.29	0.243	0.144	0.971	
Copper	125	0.485	0.131	0.971	
Lead	17.4	0.485	0.128	0.971	
Molybdenum	ND	0.243	0.128	0.971	
Nickel	16.1	0.243	0.141	0.971	
Selenium	ND	0.728	0.291	0.971	
Silver	ND	0.243	0.0832	0.971	
Thallium	0.486	0.728	0.147	0.971	B,J
Vanadium	39.2	0.243	0.137	0.971	
Zinc	65.9	0.971	0.172	0.971	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 10 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-21584	N/A	Solid	ICP 8300	08/06/15	08/06/15 20:31	150806L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.761	0.151	1.02	
Arsenic	ND	0.761	0.263	1.02	
Barium	ND	0.508	0.157	1.02	
Beryllium	ND	0.254	0.139	1.02	
Cadmium	ND	0.508	0.137	1.02	
Chromium	ND	0.254	0.144	1.02	
Cobalt	ND	0.254	0.150	1.02	
Copper	ND	0.508	0.137	1.02	
Lead	ND	0.508	0.134	1.02	
Molybdenum	ND	0.254	0.134	1.02	
Nickel	ND	0.254	0.147	1.02	
Selenium	ND	0.761	0.304	1.02	
Silver	ND	0.254	0.0870	1.02	
Thallium	0.626	0.761	0.154	1.02	J
Vanadium	ND	0.254	0.143	1.02	
Zinc	ND	1.02	0.180	1.02	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 11 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-21592	N/A	Solid	ICP 7300	08/11/15	08/12/15 15:50	150811L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.746	0.148	0.995	
Arsenic	ND	0.746	0.258	0.995	
Barium	ND	0.498	0.154	0.995	
Beryllium	ND	0.249	0.136	0.995	
Cadmium	ND	0.498	0.135	0.995	
Chromium	ND	0.249	0.142	0.995	
Cobalt	ND	0.249	0.147	0.995	
Copper	ND	0.498	0.134	0.995	
Lead	ND	0.498	0.131	0.995	
Molybdenum	ND	0.249	0.131	0.995	
Nickel	ND	0.249	0.144	0.995	
Selenium	ND	0.746	0.298	0.995	
Silver	ND	0.249	0.0853	0.995	
Thallium	ND	0.746	0.151	0.995	
Vanadium	ND	0.249	0.141	0.995	
Zinc	0.178	0.995	0.177	0.995	J

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B12-2.5	15-08-0319-1-A	08/05/15 07:30	Solid	Mercury 05	08/07/15	08/07/15 16:30	150807L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0227	0.0833	0.00587	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-2.5	15-08-0319-4-A	08/05/15 08:30	Solid	Mercury 05	08/07/15	08/07/15 16:32	150807L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.00825	0.0833	0.00587	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-10	15-08-0319-6-A	08/05/15 08:45	Solid	Mercury 05	08/07/15	08/07/15 16:34	150807L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0235	0.0877	0.00618	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-5	15-08-0319-8-A	08/05/15 09:25	Solid	Mercury 05	08/07/15	08/07/15 16:36	150807L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0277	0.0794	0.00559	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-10	15-08-0319-9-A	08/05/15 09:30	Solid	Mercury 05	08/07/15	08/07/15 16:39	150807L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0171	0.0833	0.00587	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-5	15-08-0319-11-A	08/05/15 10:20	Solid	Mercury 05	08/07/15	08/07/15 16:45	150807L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0313	0.0820	0.00578	1.00	J

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: Panama Street Site / MCGU-15-5422

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-10	15-08-0319-12-A	08/05/15 10:25	Solid	Mercury 05	08/07/15	08/07/15 16:47	150807L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.00749	0.0833	0.00587	1.00	J

B8-2.5	15-08-0319-13-A	08/05/15 11:00	Solid	Mercury 05	08/11/15	08/11/15 18:56	150811L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.0806	0.00568	1.00	

B9-2.5	15-08-0319-17-A	08/05/15 14:00	Solid	Mercury 05	08/07/15	08/07/15 16:52	150807L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0511	0.0820	0.00578	1.00	J

Method Blank	099-16-272-1522	N/A	Solid	Mercury 05	08/07/15	08/07/15 15:59	150807L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.0833	0.00587	1.00	

Method Blank	099-16-272-1527	N/A	Solid	Mercury 05	08/11/15	08/11/15 17:58	150811L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.0833	0.00587	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 1 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B12-2.5	15-08-0319-1-D	08/05/15 07:30	Solid	GC/MS T	08/05/15	08/08/15 19:08	150808L026

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	55	39	4.9	1.00	
Benzene	0.29	0.78	0.10	1.00	J
Bromobenzene	ND	0.78	0.16	1.00	
Bromochloromethane	ND	1.6	0.54	1.00	
Bromodichloromethane	ND	0.78	0.18	1.00	
Bromoform	ND	3.9	0.62	1.00	
Bromomethane	ND	16	7.4	1.00	
2-Butanone	ND	16	3.0	1.00	
n-Butylbenzene	ND	0.78	0.12	1.00	
sec-Butylbenzene	ND	0.78	0.45	1.00	
tert-Butylbenzene	ND	0.78	0.12	1.00	
Carbon Disulfide	ND	7.8	0.24	1.00	
Carbon Tetrachloride	ND	0.78	0.22	1.00	
Chlorobenzene	ND	0.78	0.18	1.00	
Chloroethane	ND	1.6	1.2	1.00	
Chloroform	ND	0.78	0.19	1.00	
Chloromethane	ND	16	0.24	1.00	
2-Chlorotoluene	ND	0.78	0.18	1.00	
4-Chlorotoluene	ND	0.78	0.17	1.00	
Dibromochloromethane	ND	1.6	0.45	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.9	1.4	1.00	
1,2-Dibromoethane	ND	0.78	0.20	1.00	
Dibromomethane	ND	0.78	0.61	1.00	
1,2-Dichlorobenzene	ND	0.78	0.18	1.00	
1,3-Dichlorobenzene	ND	0.78	0.14	1.00	
1,4-Dichlorobenzene	ND	0.78	0.17	1.00	
Dichlorodifluoromethane	ND	1.6	0.35	1.00	
1,1-Dichloroethane	ND	0.78	0.17	1.00	
1,2-Dichloroethane	ND	0.78	0.25	1.00	
1,1-Dichloroethene	ND	0.78	0.27	1.00	
c-1,2-Dichloroethene	ND	0.78	0.22	1.00	
t-1,2-Dichloroethene	ND	0.78	0.40	1.00	
1,2-Dichloropropane	ND	0.78	0.34	1.00	
1,3-Dichloropropane	ND	0.78	0.20	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 2 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	3.9	0.26	1.00	
1,1-Dichloropropene	ND	1.6	0.26	1.00	
c-1,3-Dichloropropene	ND	0.78	0.20	1.00	
t-1,3-Dichloropropene	ND	1.6	0.48	1.00	
Ethylbenzene	ND	0.78	0.12	1.00	
2-Hexanone	ND	16	1.4	1.00	
Isopropylbenzene	ND	0.78	0.43	1.00	
p-Isopropyltoluene	ND	0.78	0.49	1.00	
Methylene Chloride	ND	7.8	1.1	1.00	
4-Methyl-2-Pentanone	ND	16	3.4	1.00	
Naphthalene	ND	7.8	0.64	1.00	
n-Propylbenzene	ND	1.6	0.39	1.00	
Styrene	ND	0.78	0.47	1.00	
1,1,1,2-Tetrachloroethane	ND	0.78	0.19	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	0.27	1.00	
Tetrachloroethene	1.2	0.78	0.16	1.00	
Toluene	ND	0.78	0.40	1.00	
1,2,3-Trichlorobenzene	ND	1.6	0.72	1.00	
1,2,4-Trichlorobenzene	ND	1.6	0.24	1.00	
1,1,1-Trichloroethane	ND	0.78	0.18	1.00	
1,1,2-Trichloroethane	ND	0.78	0.28	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.8	0.28	1.00	
Trichloroethene	0.56	1.6	0.24	1.00	J
Trichlorofluoromethane	ND	7.8	0.29	1.00	
1,2,3-Trichloropropane	ND	1.6	0.65	1.00	
1,2,4-Trimethylbenzene	ND	1.6	0.46	1.00	
1,3,5-Trimethylbenzene	ND	1.6	0.43	1.00	
Vinyl Acetate	ND	7.8	3.7	1.00	
Vinyl Chloride	ND	0.78	0.39	1.00	
p/m-Xylene	ND	1.6	0.21	1.00	
o-Xylene	ND	0.78	0.44	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.23	1.00	
Tert-Butyl Alcohol (TBA)	5.8	16	4.1	1.00	J
Diisopropyl Ether (DIPE)	ND	0.78	0.38	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.78	0.40	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.78	0.28	1.00	
Ethanol	ND	390	66	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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### Analytical Report

Alta Environmental  
 3777 Long Beach Blvd., Annex Building  
 Long Beach, CA 90802-3335

Date Received: 08/05/15  
 Work Order: 15-08-0319  
 Preparation: EPA 5035  
 Method: EPA 8260B  
 Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 3 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	87	79-133	
1,2-Dichloroethane-d4	93	71-155	
Toluene-d8	98	80-120	

Return to Contents 

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 4 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B12-5	15-08-0319-2-D	08/05/15 07:40	Solid	GC/MS T	08/05/15	08/08/15 19:35	150808L026

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	7.5	35	4.4	1.00	J
Benzene	ND	0.70	0.091	1.00	
Bromobenzene	ND	0.70	0.15	1.00	
Bromochloromethane	ND	1.4	0.48	1.00	
Bromodichloromethane	ND	0.70	0.16	1.00	
Bromoform	ND	3.5	0.55	1.00	
Bromomethane	ND	14	6.6	1.00	
2-Butanone	ND	14	2.6	1.00	
n-Butylbenzene	ND	0.70	0.11	1.00	
sec-Butylbenzene	ND	0.70	0.40	1.00	
tert-Butylbenzene	ND	0.70	0.11	1.00	
Carbon Disulfide	ND	7.0	0.21	1.00	
Carbon Tetrachloride	ND	0.70	0.20	1.00	
Chlorobenzene	ND	0.70	0.16	1.00	
Chloroethane	ND	1.4	1.0	1.00	
Chloroform	ND	0.70	0.17	1.00	
Chloromethane	0.24	14	0.21	1.00	J
2-Chlorotoluene	ND	0.70	0.16	1.00	
4-Chlorotoluene	ND	0.70	0.15	1.00	
Dibromochloromethane	ND	1.4	0.40	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.5	1.2	1.00	
1,2-Dibromoethane	ND	0.70	0.18	1.00	
Dibromomethane	ND	0.70	0.54	1.00	
1,2-Dichlorobenzene	ND	0.70	0.16	1.00	
1,3-Dichlorobenzene	ND	0.70	0.12	1.00	
1,4-Dichlorobenzene	ND	0.70	0.15	1.00	
Dichlorodifluoromethane	ND	1.4	0.31	1.00	
1,1-Dichloroethane	ND	0.70	0.15	1.00	
1,2-Dichloroethane	ND	0.70	0.22	1.00	
1,1-Dichloroethene	ND	0.70	0.24	1.00	
c-1,2-Dichloroethene	ND	0.70	0.20	1.00	
t-1,2-Dichloroethene	ND	0.70	0.35	1.00	
1,2-Dichloropropane	ND	0.70	0.31	1.00	
1,3-Dichloropropane	ND	0.70	0.18	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 5 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	3.5	0.23	1.00	
1,1-Dichloropropene	ND	1.4	0.23	1.00	
c-1,3-Dichloropropene	ND	0.70	0.18	1.00	
t-1,3-Dichloropropene	ND	1.4	0.42	1.00	
Ethylbenzene	ND	0.70	0.11	1.00	
2-Hexanone	ND	14	1.2	1.00	
Isopropylbenzene	ND	0.70	0.38	1.00	
p-Isopropyltoluene	ND	0.70	0.44	1.00	
Methylene Chloride	ND	7.0	0.93	1.00	
4-Methyl-2-Pentanone	ND	14	3.0	1.00	
Naphthalene	ND	7.0	0.57	1.00	
n-Propylbenzene	ND	1.4	0.35	1.00	
Styrene	ND	0.70	0.42	1.00	
1,1,1,2-Tetrachloroethane	ND	0.70	0.17	1.00	
1,1,2,2-Tetrachloroethane	ND	1.4	0.24	1.00	
Tetrachloroethene	ND	0.70	0.15	1.00	
Toluene	ND	0.70	0.36	1.00	
1,2,3-Trichlorobenzene	ND	1.4	0.64	1.00	
1,2,4-Trichlorobenzene	ND	1.4	0.22	1.00	
1,1,1-Trichloroethane	ND	0.70	0.16	1.00	
1,1,2-Trichloroethane	ND	0.70	0.25	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.0	0.25	1.00	
Trichloroethene	ND	1.4	0.21	1.00	
Trichlorofluoromethane	ND	7.0	0.26	1.00	
1,2,3-Trichloropropane	ND	1.4	0.58	1.00	
1,2,4-Trimethylbenzene	ND	1.4	0.41	1.00	
1,3,5-Trimethylbenzene	ND	1.4	0.38	1.00	
Vinyl Acetate	ND	7.0	3.3	1.00	
Vinyl Chloride	ND	0.70	0.35	1.00	
p/m-Xylene	ND	1.4	0.19	1.00	
o-Xylene	ND	0.70	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.4	0.21	1.00	
Tert-Butyl Alcohol (TBA)	ND	14	3.6	1.00	
Diisopropyl Ether (DIPE)	ND	0.70	0.34	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.70	0.35	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.70	0.25	1.00	
Ethanol	ND	350	58	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 6 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	86	79-133	
1,2-Dichloroethane-d4	96	71-155	
Toluene-d8	97	80-120	

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 7 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B12-10</b>	<b>15-08-0319-3-D</b>	<b>08/05/15 07:45</b>	<b>Solid</b>	<b>GC/MS T</b>	<b>08/05/15</b>	<b>08/08/15 20:02</b>	<b>150808L026</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	6.1	37	4.6	1.00	J
Benzene	0.14	0.74	0.096	1.00	J
Bromobenzene	ND	0.74	0.15	1.00	
Bromochloromethane	ND	1.5	0.51	1.00	
Bromodichloromethane	ND	0.74	0.17	1.00	
Bromoform	ND	3.7	0.58	1.00	
Bromomethane	ND	15	6.9	1.00	
2-Butanone	ND	15	2.8	1.00	
n-Butylbenzene	ND	0.74	0.12	1.00	
sec-Butylbenzene	ND	0.74	0.43	1.00	
tert-Butylbenzene	ND	0.74	0.11	1.00	
Carbon Disulfide	ND	7.4	0.23	1.00	
Carbon Tetrachloride	ND	0.74	0.21	1.00	
Chlorobenzene	ND	0.74	0.17	1.00	
Chloroethane	ND	1.5	1.1	1.00	
Chloroform	ND	0.74	0.18	1.00	
Chloromethane	ND	15	0.22	1.00	
2-Chlorotoluene	ND	0.74	0.17	1.00	
4-Chlorotoluene	ND	0.74	0.16	1.00	
Dibromochloromethane	ND	1.5	0.42	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.7	1.3	1.00	
1,2-Dibromoethane	ND	0.74	0.19	1.00	
Dibromomethane	ND	0.74	0.57	1.00	
1,2-Dichlorobenzene	ND	0.74	0.17	1.00	
1,3-Dichlorobenzene	ND	0.74	0.13	1.00	
1,4-Dichlorobenzene	ND	0.74	0.16	1.00	
Dichlorodifluoromethane	ND	1.5	0.33	1.00	
1,1-Dichloroethane	ND	0.74	0.16	1.00	
1,2-Dichloroethane	ND	0.74	0.23	1.00	
1,1-Dichloroethene	ND	0.74	0.25	1.00	
c-1,2-Dichloroethene	ND	0.74	0.21	1.00	
t-1,2-Dichloroethene	ND	0.74	0.37	1.00	
1,2-Dichloropropane	ND	0.74	0.32	1.00	
1,3-Dichloropropane	ND	0.74	0.19	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 8 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	3.7	0.24	1.00	
1,1-Dichloropropene	ND	1.5	0.24	1.00	
c-1,3-Dichloropropene	ND	0.74	0.19	1.00	
t-1,3-Dichloropropene	ND	1.5	0.45	1.00	
Ethylbenzene	ND	0.74	0.11	1.00	
2-Hexanone	ND	15	1.3	1.00	
Isopropylbenzene	ND	0.74	0.40	1.00	
p-Isopropyltoluene	ND	0.74	0.46	1.00	
Methylene Chloride	ND	7.4	0.99	1.00	
4-Methyl-2-Pentanone	ND	15	3.2	1.00	
Naphthalene	ND	7.4	0.60	1.00	
n-Propylbenzene	ND	1.5	0.37	1.00	
Styrene	ND	0.74	0.45	1.00	
1,1,1,2-Tetrachloroethane	ND	0.74	0.18	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	0.25	1.00	
Tetrachloroethene	ND	0.74	0.15	1.00	
Toluene	ND	0.74	0.38	1.00	
1,2,3-Trichlorobenzene	ND	1.5	0.67	1.00	
1,2,4-Trichlorobenzene	ND	1.5	0.23	1.00	
1,1,1-Trichloroethane	ND	0.74	0.17	1.00	
1,1,2-Trichloroethane	ND	0.74	0.26	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.4	0.26	1.00	
Trichloroethene	ND	1.5	0.22	1.00	
Trichlorofluoromethane	ND	7.4	0.28	1.00	
1,2,3-Trichloropropane	ND	1.5	0.61	1.00	
1,2,4-Trimethylbenzene	ND	1.5	0.43	1.00	
1,3,5-Trimethylbenzene	ND	1.5	0.40	1.00	
Vinyl Acetate	ND	7.4	3.5	1.00	
Vinyl Chloride	ND	0.74	0.37	1.00	
p/m-Xylene	ND	1.5	0.20	1.00	
o-Xylene	ND	0.74	0.41	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	0.22	1.00	
Tert-Butyl Alcohol (TBA)	ND	15	3.8	1.00	
Diisopropyl Ether (DIPE)	ND	0.74	0.36	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.74	0.37	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.74	0.26	1.00	
Ethanol	ND	370	62	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 9 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	88	79-133	
1,2-Dichloroethane-d4	94	71-155	
Toluene-d8	99	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 10 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-2.5	15-08-0319-4-D	08/05/15 08:30	Solid	GC/MS T	08/05/15	08/08/15 20:29	150808L026

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	24	43	5.3	1.00	J
Benzene	ND	0.85	0.11	1.00	
Bromobenzene	ND	0.85	0.18	1.00	
Bromochloromethane	ND	1.7	0.59	1.00	
Bromodichloromethane	ND	0.85	0.20	1.00	
Bromoform	ND	4.3	0.68	1.00	
Bromomethane	ND	17	8.1	1.00	
2-Butanone	ND	17	3.2	1.00	
n-Butylbenzene	ND	0.85	0.13	1.00	
sec-Butylbenzene	ND	0.85	0.49	1.00	
tert-Butylbenzene	ND	0.85	0.13	1.00	
Carbon Disulfide	ND	8.5	0.26	1.00	
Carbon Tetrachloride	ND	0.85	0.24	1.00	
Chlorobenzene	ND	0.85	0.19	1.00	
Chloroethane	ND	1.7	1.3	1.00	
Chloroform	ND	0.85	0.20	1.00	
Chloromethane	ND	17	0.26	1.00	
2-Chlorotoluene	ND	0.85	0.20	1.00	
4-Chlorotoluene	ND	0.85	0.18	1.00	
Dibromochloromethane	ND	1.7	0.49	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.3	1.5	1.00	
1,2-Dibromoethane	ND	0.85	0.22	1.00	
Dibromomethane	ND	0.85	0.66	1.00	
1,2-Dichlorobenzene	ND	0.85	0.20	1.00	
1,3-Dichlorobenzene	ND	0.85	0.15	1.00	
1,4-Dichlorobenzene	ND	0.85	0.19	1.00	
Dichlorodifluoromethane	ND	1.7	0.38	1.00	
1,1-Dichloroethane	ND	0.85	0.18	1.00	
1,2-Dichloroethane	ND	0.85	0.27	1.00	
1,1-Dichloroethene	ND	0.85	0.30	1.00	
c-1,2-Dichloroethene	ND	0.85	0.24	1.00	
t-1,2-Dichloroethene	ND	0.85	0.43	1.00	
1,2-Dichloropropane	ND	0.85	0.37	1.00	
1,3-Dichloropropane	ND	0.85	0.22	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 11 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	4.3	0.28	1.00	
1,1-Dichloropropene	ND	1.7	0.28	1.00	
c-1,3-Dichloropropene	ND	0.85	0.22	1.00	
t-1,3-Dichloropropene	ND	1.7	0.52	1.00	
Ethylbenzene	ND	0.85	0.13	1.00	
2-Hexanone	ND	17	1.5	1.00	
Isopropylbenzene	ND	0.85	0.47	1.00	
p-Isopropyltoluene	ND	0.85	0.54	1.00	
Methylene Chloride	ND	8.5	1.1	1.00	
4-Methyl-2-Pentanone	ND	17	3.7	1.00	
Naphthalene	ND	8.5	0.70	1.00	
n-Propylbenzene	ND	1.7	0.43	1.00	
Styrene	ND	0.85	0.52	1.00	
1,1,1,2-Tetrachloroethane	ND	0.85	0.21	1.00	
1,1,2,2-Tetrachloroethane	ND	1.7	0.30	1.00	
Tetrachloroethene	ND	0.85	0.18	1.00	
Toluene	ND	0.85	0.44	1.00	
1,2,3-Trichlorobenzene	ND	1.7	0.78	1.00	
1,2,4-Trichlorobenzene	ND	1.7	0.27	1.00	
1,1,1-Trichloroethane	ND	0.85	0.19	1.00	
1,1,2-Trichloroethane	ND	0.85	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.5	0.30	1.00	
Trichloroethene	ND	1.7	0.26	1.00	
Trichlorofluoromethane	ND	8.5	0.32	1.00	
1,2,3-Trichloropropane	ND	1.7	0.71	1.00	
1,2,4-Trimethylbenzene	ND	1.7	0.50	1.00	
1,3,5-Trimethylbenzene	ND	1.7	0.47	1.00	
Vinyl Acetate	ND	8.5	4.1	1.00	
Vinyl Chloride	ND	0.85	0.43	1.00	
p/m-Xylene	ND	1.7	0.23	1.00	
o-Xylene	ND	0.85	0.48	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.25	1.00	
Tert-Butyl Alcohol (TBA)	4.8	17	4.4	1.00	J
Diisopropyl Ether (DIPE)	ND	0.85	0.41	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.85	0.43	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.85	0.30	1.00	
Ethanol	ND	430	71	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 12 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	85	79-133	
1,2-Dichloroethane-d4	95	71-155	
Toluene-d8	97	80-120	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 13 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-5	15-08-0319-5-D	08/05/15 08:40	Solid	GC/MS T	08/05/15	08/08/15 20:55	150808L026

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	35	60	7.4	1.00	J
Benzene	0.19	1.2	0.15	1.00	J
Bromobenzene	ND	1.2	0.25	1.00	
Bromochloromethane	ND	2.4	0.82	1.00	
Bromodichloromethane	ND	1.2	0.28	1.00	
Bromoform	ND	6.0	0.95	1.00	
Bromomethane	ND	24	11	1.00	
2-Butanone	5.7	24	4.5	1.00	J
n-Butylbenzene	ND	1.2	0.19	1.00	
sec-Butylbenzene	ND	1.2	0.69	1.00	
tert-Butylbenzene	ND	1.2	0.18	1.00	
Carbon Disulfide	ND	12	0.36	1.00	
Carbon Tetrachloride	ND	1.2	0.34	1.00	
Chlorobenzene	ND	1.2	0.27	1.00	
Chloroethane	ND	2.4	1.8	1.00	
Chloroform	ND	1.2	0.28	1.00	
Chloromethane	ND	24	0.36	1.00	
2-Chlorotoluene	ND	1.2	0.28	1.00	
4-Chlorotoluene	ND	1.2	0.25	1.00	
Dibromochloromethane	ND	2.4	0.68	1.00	
1,2-Dibromo-3-Chloropropane	ND	6.0	2.1	1.00	
1,2-Dibromoethane	ND	1.2	0.30	1.00	
Dibromomethane	ND	1.2	0.92	1.00	
1,2-Dichlorobenzene	ND	1.2	0.27	1.00	
1,3-Dichlorobenzene	ND	1.2	0.21	1.00	
1,4-Dichlorobenzene	ND	1.2	0.26	1.00	
Dichlorodifluoromethane	ND	2.4	0.53	1.00	
1,1-Dichloroethane	ND	1.2	0.25	1.00	
1,2-Dichloroethane	ND	1.2	0.37	1.00	
1,1-Dichloroethene	ND	1.2	0.41	1.00	
c-1,2-Dichloroethene	ND	1.2	0.33	1.00	
t-1,2-Dichloroethene	ND	1.2	0.60	1.00	
1,2-Dichloropropane	ND	1.2	0.52	1.00	
1,3-Dichloropropane	ND	1.2	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 14 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	6.0	0.39	1.00	
1,1-Dichloropropene	ND	2.4	0.39	1.00	
c-1,3-Dichloropropene	ND	1.2	0.30	1.00	
t-1,3-Dichloropropene	ND	2.4	0.72	1.00	
Ethylbenzene	ND	1.2	0.18	1.00	
2-Hexanone	ND	24	2.1	1.00	
Isopropylbenzene	ND	1.2	0.65	1.00	
p-Isopropyltoluene	ND	1.2	0.75	1.00	
Methylene Chloride	ND	12	1.6	1.00	
4-Methyl-2-Pentanone	ND	24	5.1	1.00	
Naphthalene	ND	12	0.97	1.00	
n-Propylbenzene	ND	2.4	0.60	1.00	
Styrene	ND	1.2	0.72	1.00	
1,1,1,2-Tetrachloroethane	ND	1.2	0.29	1.00	
1,1,2,2-Tetrachloroethane	ND	2.4	0.41	1.00	
Tetrachloroethene	ND	1.2	0.25	1.00	
Toluene	ND	1.2	0.61	1.00	
1,2,3-Trichlorobenzene	ND	2.4	1.1	1.00	
1,2,4-Trichlorobenzene	ND	2.4	0.37	1.00	
1,1,1-Trichloroethane	ND	1.2	0.27	1.00	
1,1,2-Trichloroethane	ND	1.2	0.42	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	12	0.42	1.00	
Trichloroethene	ND	2.4	0.36	1.00	
Trichlorofluoromethane	ND	12	0.45	1.00	
1,2,3-Trichloropropane	ND	2.4	0.99	1.00	
1,2,4-Trimethylbenzene	ND	2.4	0.70	1.00	
1,3,5-Trimethylbenzene	ND	2.4	0.65	1.00	
Vinyl Acetate	ND	12	5.7	1.00	
Vinyl Chloride	ND	1.2	0.60	1.00	
p/m-Xylene	ND	2.4	0.32	1.00	
o-Xylene	ND	1.2	0.66	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.4	0.35	1.00	
Tert-Butyl Alcohol (TBA)	ND	24	6.2	1.00	
Diisopropyl Ether (DIPE)	ND	1.2	0.57	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.2	0.60	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.2	0.42	1.00	
Ethanol	ND	600	100	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 15 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	88	79-133	
1,2-Dichloroethane-d4	97	71-155	
Toluene-d8	99	80-120	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 16 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-10	15-08-0319-6-D	08/05/15 08:45	Solid	GC/MS T	08/05/15	08/08/15 21:22	150808L026

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	11	54	6.7	1.00	J
Benzene	ND	1.1	0.14	1.00	
Bromobenzene	ND	1.1	0.23	1.00	
Bromochloromethane	ND	2.2	0.75	1.00	
Bromodichloromethane	ND	1.1	0.25	1.00	
Bromoform	ND	5.4	0.86	1.00	
Bromomethane	ND	22	10	1.00	
2-Butanone	ND	22	4.1	1.00	
n-Butylbenzene	ND	1.1	0.17	1.00	
sec-Butylbenzene	ND	1.1	0.62	1.00	
tert-Butylbenzene	ND	1.1	0.16	1.00	
Carbon Disulfide	ND	11	0.33	1.00	
Carbon Tetrachloride	ND	1.1	0.31	1.00	
Chlorobenzene	ND	1.1	0.24	1.00	
Chloroethane	ND	2.2	1.6	1.00	
Chloroform	ND	1.1	0.26	1.00	
Chloromethane	ND	22	0.33	1.00	
2-Chlorotoluene	ND	1.1	0.25	1.00	
4-Chlorotoluene	ND	1.1	0.23	1.00	
Dibromochloromethane	ND	2.2	0.62	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.4	1.9	1.00	
1,2-Dibromoethane	ND	1.1	0.28	1.00	
Dibromomethane	ND	1.1	0.84	1.00	
1,2-Dichlorobenzene	ND	1.1	0.25	1.00	
1,3-Dichlorobenzene	ND	1.1	0.19	1.00	
1,4-Dichlorobenzene	ND	1.1	0.24	1.00	
Dichlorodifluoromethane	ND	2.2	0.48	1.00	
1,1-Dichloroethane	ND	1.1	0.23	1.00	
1,2-Dichloroethane	ND	1.1	0.34	1.00	
1,1-Dichloroethene	ND	1.1	0.37	1.00	
c-1,2-Dichloroethene	ND	1.1	0.30	1.00	
t-1,2-Dichloroethene	ND	1.1	0.55	1.00	
1,2-Dichloropropane	ND	1.1	0.47	1.00	
1,3-Dichloropropane	ND	1.1	0.27	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 17 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	5.4	0.36	1.00	
1,1-Dichloropropene	ND	2.2	0.35	1.00	
c-1,3-Dichloropropene	ND	1.1	0.27	1.00	
t-1,3-Dichloropropene	ND	2.2	0.65	1.00	
Ethylbenzene	ND	1.1	0.16	1.00	
2-Hexanone	ND	22	1.9	1.00	
Isopropylbenzene	ND	1.1	0.59	1.00	
p-Isopropyltoluene	ND	1.1	0.68	1.00	
Methylene Chloride	ND	11	1.4	1.00	
4-Methyl-2-Pentanone	ND	22	4.7	1.00	
Naphthalene	ND	11	0.88	1.00	
n-Propylbenzene	ND	2.2	0.54	1.00	
Styrene	ND	1.1	0.65	1.00	
1,1,1,2-Tetrachloroethane	ND	1.1	0.26	1.00	
1,1,2,2-Tetrachloroethane	ND	2.2	0.37	1.00	
Tetrachloroethene	ND	1.1	0.23	1.00	
Toluene	ND	1.1	0.56	1.00	
1,2,3-Trichlorobenzene	ND	2.2	0.99	1.00	
1,2,4-Trichlorobenzene	ND	2.2	0.34	1.00	
1,1,1-Trichloroethane	ND	1.1	0.24	1.00	
1,1,2-Trichloroethane	ND	1.1	0.38	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	0.38	1.00	
Trichloroethene	ND	2.2	0.32	1.00	
Trichlorofluoromethane	ND	11	0.41	1.00	
1,2,3-Trichloropropane	ND	2.2	0.90	1.00	
1,2,4-Trimethylbenzene	ND	2.2	0.63	1.00	
1,3,5-Trimethylbenzene	ND	2.2	0.59	1.00	
Vinyl Acetate	ND	11	5.1	1.00	
Vinyl Chloride	ND	1.1	0.54	1.00	
p/m-Xylene	ND	2.2	0.29	1.00	
o-Xylene	ND	1.1	0.60	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.2	0.32	1.00	
Tert-Butyl Alcohol (TBA)	ND	22	5.6	1.00	
Diisopropyl Ether (DIPE)	ND	1.1	0.52	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.1	0.55	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.1	0.38	1.00	
Ethanol	ND	540	90	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 18 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	88	79-133	
1,2-Dichloroethane-d4	98	71-155	
Toluene-d8	100	80-120	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 19 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-5	15-08-0319-8-D	08/05/15 09:25	Solid	GC/MS T	08/05/15	08/08/15 21:49	150808L026

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	5.5	35	4.4	1.00	J
Benzene	ND	0.70	0.091	1.00	
Bromobenzene	ND	0.70	0.15	1.00	
Bromochloromethane	ND	1.4	0.48	1.00	
Bromodichloromethane	ND	0.70	0.16	1.00	
Bromoform	ND	3.5	0.56	1.00	
Bromomethane	ND	14	6.6	1.00	
2-Butanone	ND	14	2.6	1.00	
n-Butylbenzene	ND	0.70	0.11	1.00	
sec-Butylbenzene	ND	0.70	0.41	1.00	
tert-Butylbenzene	ND	0.70	0.11	1.00	
Carbon Disulfide	ND	7.0	0.21	1.00	
Carbon Tetrachloride	ND	0.70	0.20	1.00	
Chlorobenzene	ND	0.70	0.16	1.00	
Chloroethane	ND	1.4	1.0	1.00	
Chloroform	ND	0.70	0.17	1.00	
Chloromethane	ND	14	0.21	1.00	
2-Chlorotoluene	ND	0.70	0.16	1.00	
4-Chlorotoluene	ND	0.70	0.15	1.00	
Dibromochloromethane	ND	1.4	0.40	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.5	1.2	1.00	
1,2-Dibromoethane	ND	0.70	0.18	1.00	
Dibromomethane	ND	0.70	0.54	1.00	
1,2-Dichlorobenzene	ND	0.70	0.16	1.00	
1,3-Dichlorobenzene	ND	0.70	0.12	1.00	
1,4-Dichlorobenzene	ND	0.70	0.16	1.00	
Dichlorodifluoromethane	ND	1.4	0.31	1.00	
1,1-Dichloroethane	ND	0.70	0.15	1.00	
1,2-Dichloroethane	ND	0.70	0.22	1.00	
1,1-Dichloroethene	ND	0.70	0.24	1.00	
c-1,2-Dichloroethene	ND	0.70	0.20	1.00	
t-1,2-Dichloroethene	ND	0.70	0.36	1.00	
1,2-Dichloropropane	ND	0.70	0.31	1.00	
1,3-Dichloropropane	ND	0.70	0.18	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 20 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	3.5	0.23	1.00	
1,1-Dichloropropene	ND	1.4	0.23	1.00	
c-1,3-Dichloropropene	ND	0.70	0.18	1.00	
t-1,3-Dichloropropene	ND	1.4	0.43	1.00	
Ethylbenzene	ND	0.70	0.11	1.00	
2-Hexanone	ND	14	1.2	1.00	
Isopropylbenzene	ND	0.70	0.38	1.00	
p-Isopropyltoluene	ND	0.70	0.44	1.00	
Methylene Chloride	ND	7.0	0.94	1.00	
4-Methyl-2-Pentanone	ND	14	3.0	1.00	
Naphthalene	ND	7.0	0.57	1.00	
n-Propylbenzene	ND	1.4	0.35	1.00	
Styrene	ND	0.70	0.42	1.00	
1,1,1,2-Tetrachloroethane	ND	0.70	0.17	1.00	
1,1,2,2-Tetrachloroethane	ND	1.4	0.24	1.00	
Tetrachloroethene	ND	0.70	0.15	1.00	
Toluene	ND	0.70	0.36	1.00	
1,2,3-Trichlorobenzene	ND	1.4	0.64	1.00	
1,2,4-Trichlorobenzene	ND	1.4	0.22	1.00	
1,1,1-Trichloroethane	ND	0.70	0.16	1.00	
1,1,2-Trichloroethane	ND	0.70	0.25	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.0	0.25	1.00	
Trichloroethene	ND	1.4	0.21	1.00	
Trichlorofluoromethane	ND	7.0	0.26	1.00	
1,2,3-Trichloropropane	ND	1.4	0.58	1.00	
1,2,4-Trimethylbenzene	ND	1.4	0.41	1.00	
1,3,5-Trimethylbenzene	ND	1.4	0.39	1.00	
Vinyl Acetate	ND	7.0	3.3	1.00	
Vinyl Chloride	ND	0.70	0.35	1.00	
p/m-Xylene	ND	1.4	0.19	1.00	
o-Xylene	ND	0.70	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.4	0.21	1.00	
Tert-Butyl Alcohol (TBA)	ND	14	3.6	1.00	
Diisopropyl Ether (DIPE)	ND	0.70	0.34	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.70	0.36	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.70	0.25	1.00	
Ethanol	ND	350	59	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

### Analytical Report

Alta Environmental  
 3777 Long Beach Blvd., Annex Building  
 Long Beach, CA 90802-3335

Date Received: 08/05/15  
 Work Order: 15-08-0319  
 Preparation: EPA 5035  
 Method: EPA 8260B  
 Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 21 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	90	79-133	
1,2-Dichloroethane-d4	105	71-155	
Toluene-d8	98	80-120	

Return to Contents 

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 22 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-10	15-08-0319-9-D	08/05/15 09:30	Solid	GC/MS T	08/05/15	08/08/15 22:16	150808L026

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	5.4	39	4.9	1.00	J
Benzene	0.12	0.78	0.10	1.00	J
Bromobenzene	ND	0.78	0.16	1.00	
Bromochloromethane	ND	1.6	0.54	1.00	
Bromodichloromethane	ND	0.78	0.18	1.00	
Bromoform	ND	3.9	0.62	1.00	
Bromomethane	ND	16	7.4	1.00	
2-Butanone	ND	16	3.0	1.00	
n-Butylbenzene	ND	0.78	0.12	1.00	
sec-Butylbenzene	ND	0.78	0.45	1.00	
tert-Butylbenzene	ND	0.78	0.12	1.00	
Carbon Disulfide	ND	7.8	0.24	1.00	
Carbon Tetrachloride	ND	0.78	0.22	1.00	
Chlorobenzene	ND	0.78	0.18	1.00	
Chloroethane	ND	1.6	1.2	1.00	
Chloroform	ND	0.78	0.19	1.00	
Chloromethane	ND	16	0.24	1.00	
2-Chlorotoluene	ND	0.78	0.18	1.00	
4-Chlorotoluene	ND	0.78	0.17	1.00	
Dibromochloromethane	ND	1.6	0.45	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.9	1.4	1.00	
1,2-Dibromoethane	ND	0.78	0.20	1.00	
Dibromomethane	ND	0.78	0.61	1.00	
1,2-Dichlorobenzene	ND	0.78	0.18	1.00	
1,3-Dichlorobenzene	ND	0.78	0.14	1.00	
1,4-Dichlorobenzene	ND	0.78	0.17	1.00	
Dichlorodifluoromethane	ND	1.6	0.35	1.00	
1,1-Dichloroethane	ND	0.78	0.17	1.00	
1,2-Dichloroethane	ND	0.78	0.25	1.00	
1,1-Dichloroethene	ND	0.78	0.27	1.00	
c-1,2-Dichloroethene	ND	0.78	0.22	1.00	
t-1,2-Dichloroethene	ND	0.78	0.40	1.00	
1,2-Dichloropropane	ND	0.78	0.34	1.00	
1,3-Dichloropropane	ND	0.78	0.20	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 23 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	3.9	0.26	1.00	
1,1-Dichloropropene	ND	1.6	0.26	1.00	
c-1,3-Dichloropropene	ND	0.78	0.20	1.00	
t-1,3-Dichloropropene	ND	1.6	0.47	1.00	
Ethylbenzene	ND	0.78	0.12	1.00	
2-Hexanone	ND	16	1.4	1.00	
Isopropylbenzene	ND	0.78	0.43	1.00	
p-Isopropyltoluene	ND	0.78	0.49	1.00	
Methylene Chloride	ND	7.8	1.0	1.00	
4-Methyl-2-Pentanone	ND	16	3.4	1.00	
Naphthalene	ND	7.8	0.64	1.00	
n-Propylbenzene	ND	1.6	0.39	1.00	
Styrene	ND	0.78	0.47	1.00	
1,1,1,2-Tetrachloroethane	ND	0.78	0.19	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	0.27	1.00	
Tetrachloroethene	ND	0.78	0.16	1.00	
Toluene	ND	0.78	0.40	1.00	
1,2,3-Trichlorobenzene	ND	1.6	0.71	1.00	
1,2,4-Trichlorobenzene	ND	1.6	0.24	1.00	
1,1,1-Trichloroethane	ND	0.78	0.18	1.00	
1,1,2-Trichloroethane	ND	0.78	0.28	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.8	0.28	1.00	
Trichloroethene	ND	1.6	0.24	1.00	
Trichlorofluoromethane	ND	7.8	0.29	1.00	
1,2,3-Trichloropropane	ND	1.6	0.65	1.00	
1,2,4-Trimethylbenzene	ND	1.6	0.46	1.00	
1,3,5-Trimethylbenzene	ND	1.6	0.43	1.00	
Vinyl Acetate	ND	7.8	3.7	1.00	
Vinyl Chloride	ND	0.78	0.39	1.00	
p/m-Xylene	ND	1.6	0.21	1.00	
o-Xylene	ND	0.78	0.44	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.23	1.00	
Tert-Butyl Alcohol (TBA)	ND	16	4.0	1.00	
Diisopropyl Ether (DIPE)	ND	0.78	0.38	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.78	0.40	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.78	0.28	1.00	
Ethanol	ND	390	65	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 24 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	90	79-133	
1,2-Dichloroethane-d4	102	71-155	
Toluene-d8	98	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 25 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-5	15-08-0319-11-D	08/05/15 10:20	Solid	GC/MS T	08/05/15	08/08/15 22:43	150808L026

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	7.9	37	4.6	1.00	J
Benzene	ND	0.73	0.095	1.00	
Bromobenzene	ND	0.73	0.15	1.00	
Bromochloromethane	ND	1.5	0.51	1.00	
Bromodichloromethane	ND	0.73	0.17	1.00	
Bromoform	ND	3.7	0.58	1.00	
Bromomethane	ND	15	6.9	1.00	
2-Butanone	ND	15	2.8	1.00	
n-Butylbenzene	ND	0.73	0.11	1.00	
sec-Butylbenzene	ND	0.73	0.42	1.00	
tert-Butylbenzene	ND	0.73	0.11	1.00	
Carbon Disulfide	ND	7.3	0.22	1.00	
Carbon Tetrachloride	ND	0.73	0.21	1.00	
Chlorobenzene	ND	0.73	0.16	1.00	
Chloroethane	ND	1.5	1.1	1.00	
Chloroform	ND	0.73	0.17	1.00	
Chloromethane	ND	15	0.22	1.00	
2-Chlorotoluene	ND	0.73	0.17	1.00	
4-Chlorotoluene	ND	0.73	0.16	1.00	
Dibromochloromethane	ND	1.5	0.42	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.7	1.3	1.00	
1,2-Dibromoethane	ND	0.73	0.19	1.00	
Dibromomethane	ND	0.73	0.57	1.00	
1,2-Dichlorobenzene	ND	0.73	0.17	1.00	
1,3-Dichlorobenzene	ND	0.73	0.13	1.00	
1,4-Dichlorobenzene	ND	0.73	0.16	1.00	
Dichlorodifluoromethane	ND	1.5	0.32	1.00	
1,1-Dichloroethane	ND	0.73	0.15	1.00	
1,2-Dichloroethane	ND	0.73	0.23	1.00	
1,1-Dichloroethene	ND	0.73	0.25	1.00	
c-1,2-Dichloroethene	ND	0.73	0.20	1.00	
t-1,2-Dichloroethene	ND	0.73	0.37	1.00	
1,2-Dichloropropane	ND	0.73	0.32	1.00	
1,3-Dichloropropane	ND	0.73	0.19	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 26 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	3.7	0.24	1.00	
1,1-Dichloropropene	ND	1.5	0.24	1.00	
c-1,3-Dichloropropene	ND	0.73	0.19	1.00	
t-1,3-Dichloropropene	ND	1.5	0.44	1.00	
Ethylbenzene	ND	0.73	0.11	1.00	
2-Hexanone	ND	15	1.3	1.00	
Isopropylbenzene	ND	0.73	0.40	1.00	
p-Isopropyltoluene	ND	0.73	0.46	1.00	
Methylene Chloride	ND	7.3	0.98	1.00	
4-Methyl-2-Pentanone	ND	15	3.2	1.00	
Naphthalene	ND	7.3	0.60	1.00	
n-Propylbenzene	ND	1.5	0.37	1.00	
Styrene	ND	0.73	0.44	1.00	
1,1,1,2-Tetrachloroethane	ND	0.73	0.18	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	0.25	1.00	
Tetrachloroethene	ND	0.73	0.15	1.00	
Toluene	ND	0.73	0.38	1.00	
1,2,3-Trichlorobenzene	ND	1.5	0.67	1.00	
1,2,4-Trichlorobenzene	ND	1.5	0.23	1.00	
1,1,1-Trichloroethane	ND	0.73	0.16	1.00	
1,1,2-Trichloroethane	ND	0.73	0.26	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.3	0.26	1.00	
Trichloroethene	ND	1.5	0.22	1.00	
Trichlorofluoromethane	ND	7.3	0.27	1.00	
1,2,3-Trichloropropane	ND	1.5	0.61	1.00	
1,2,4-Trimethylbenzene	ND	1.5	0.43	1.00	
1,3,5-Trimethylbenzene	ND	1.5	0.40	1.00	
Vinyl Acetate	ND	7.3	3.5	1.00	
Vinyl Chloride	ND	0.73	0.37	1.00	
p/m-Xylene	ND	1.5	0.20	1.00	
o-Xylene	ND	0.73	0.41	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	0.22	1.00	
Tert-Butyl Alcohol (TBA)	ND	15	3.8	1.00	
Diisopropyl Ether (DIPE)	ND	0.73	0.35	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.73	0.37	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.73	0.26	1.00	
Ethanol	ND	370	61	1.00	

 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 27 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	93	79-133	
1,2-Dichloroethane-d4	106	71-155	
Toluene-d8	99	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 28 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-10	15-08-0319-12-D	08/05/15 10:25	Solid	GC/MS Q	08/05/15	08/10/15 12:01	150810L003

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	6.3	37	4.6	1.00	J
Benzene	0.17	0.73	0.095	1.00	J
Bromobenzene	ND	0.73	0.15	1.00	
Bromochloromethane	ND	1.5	0.50	1.00	
Bromodichloromethane	ND	0.73	0.17	1.00	
Bromoform	ND	3.7	0.58	1.00	
Bromomethane	ND	15	6.9	1.00	
2-Butanone	ND	15	2.8	1.00	
n-Butylbenzene	ND	0.73	0.11	1.00	
sec-Butylbenzene	ND	0.73	0.42	1.00	
tert-Butylbenzene	ND	0.73	0.11	1.00	
Carbon Disulfide	ND	7.3	0.22	1.00	
Carbon Tetrachloride	ND	0.73	0.21	1.00	
Chlorobenzene	ND	0.73	0.16	1.00	
Chloroethane	ND	1.5	1.1	1.00	
Chloroform	ND	0.73	0.17	1.00	
Chloromethane	ND	15	0.22	1.00	
2-Chlorotoluene	ND	0.73	0.17	1.00	
4-Chlorotoluene	ND	0.73	0.16	1.00	
Dibromochloromethane	ND	1.5	0.42	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.7	1.3	1.00	
1,2-Dibromoethane	ND	0.73	0.19	1.00	
Dibromomethane	ND	0.73	0.57	1.00	
1,2-Dichlorobenzene	ND	0.73	0.17	1.00	
1,3-Dichlorobenzene	ND	0.73	0.13	1.00	
1,4-Dichlorobenzene	ND	0.73	0.16	1.00	
Dichlorodifluoromethane	ND	1.5	0.32	1.00	
1,1-Dichloroethane	ND	0.73	0.15	1.00	
1,2-Dichloroethane	ND	0.73	0.23	1.00	
1,1-Dichloroethene	ND	0.73	0.25	1.00	
c-1,2-Dichloroethene	ND	0.73	0.20	1.00	
t-1,2-Dichloroethene	ND	0.73	0.37	1.00	
1,2-Dichloropropane	ND	0.73	0.32	1.00	
1,3-Dichloropropane	ND	0.73	0.18	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 29 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	3.7	0.24	1.00	
1,1-Dichloropropene	ND	1.5	0.24	1.00	
c-1,3-Dichloropropene	ND	0.73	0.19	1.00	
t-1,3-Dichloropropene	ND	1.5	0.44	1.00	
Ethylbenzene	ND	0.73	0.11	1.00	
2-Hexanone	ND	15	1.3	1.00	
Isopropylbenzene	ND	0.73	0.40	1.00	
p-Isopropyltoluene	ND	0.73	0.46	1.00	
Methylene Chloride	ND	7.3	0.98	1.00	
4-Methyl-2-Pentanone	ND	15	3.2	1.00	
Naphthalene	ND	7.3	0.60	1.00	
n-Propylbenzene	ND	1.5	0.37	1.00	
Styrene	ND	0.73	0.44	1.00	
1,1,1,2-Tetrachloroethane	ND	0.73	0.18	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	0.25	1.00	
Tetrachloroethene	ND	0.73	0.15	1.00	
Toluene	ND	0.73	0.38	1.00	
1,2,3-Trichlorobenzene	ND	1.5	0.67	1.00	
1,2,4-Trichlorobenzene	ND	1.5	0.23	1.00	
1,1,1-Trichloroethane	ND	0.73	0.16	1.00	
1,1,2-Trichloroethane	ND	0.73	0.26	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.3	0.26	1.00	
Trichloroethene	ND	1.5	0.22	1.00	
Trichlorofluoromethane	ND	7.3	0.27	1.00	
1,2,3-Trichloropropane	ND	1.5	0.61	1.00	
1,2,4-Trimethylbenzene	ND	1.5	0.43	1.00	
1,3,5-Trimethylbenzene	ND	1.5	0.40	1.00	
Vinyl Acetate	ND	7.3	3.5	1.00	
Vinyl Chloride	ND	0.73	0.37	1.00	
p/m-Xylene	ND	1.5	0.20	1.00	
o-Xylene	ND	0.73	0.41	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	0.22	1.00	
Tert-Butyl Alcohol (TBA)	4.5	15	3.8	1.00	J
Diisopropyl Ether (DIPE)	ND	0.73	0.35	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.73	0.37	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.73	0.26	1.00	
Ethanol	ND	370	61	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 30 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	105	79-133	
1,2-Dichloroethane-d4	124	71-155	
Toluene-d8	99	80-120	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 31 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-2.5	15-08-0319-13-D	08/05/15 11:00	Solid	GC/MS Q	08/05/15	08/10/15 12:54	150810L003

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	19	46	5.7	1.00	J
Benzene	0.54	0.91	0.12	1.00	J
Bromobenzene	ND	0.91	0.19	1.00	
Bromochloromethane	ND	1.8	0.63	1.00	
Bromodichloromethane	ND	0.91	0.21	1.00	
Bromoform	ND	4.6	0.72	1.00	
Bromomethane	ND	18	8.6	1.00	
2-Butanone	ND	18	3.4	1.00	
n-Butylbenzene	ND	0.91	0.14	1.00	
sec-Butylbenzene	ND	0.91	0.53	1.00	
tert-Butylbenzene	ND	0.91	0.14	1.00	
Carbon Disulfide	ND	9.1	0.28	1.00	
Carbon Tetrachloride	ND	0.91	0.26	1.00	
Chlorobenzene	ND	0.91	0.20	1.00	
Chloroethane	ND	1.8	1.4	1.00	
Chloroform	ND	0.91	0.22	1.00	
Chloromethane	ND	18	0.28	1.00	
2-Chlorotoluene	ND	0.91	0.21	1.00	
4-Chlorotoluene	ND	0.91	0.19	1.00	
Dibromochloromethane	ND	1.8	0.52	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.6	1.6	1.00	
1,2-Dibromoethane	ND	0.91	0.23	1.00	
Dibromomethane	ND	0.91	0.71	1.00	
1,2-Dichlorobenzene	ND	0.91	0.21	1.00	
1,3-Dichlorobenzene	ND	0.91	0.16	1.00	
1,4-Dichlorobenzene	ND	0.91	0.20	1.00	
Dichlorodifluoromethane	ND	1.8	0.40	1.00	
1,1-Dichloroethane	ND	0.91	0.19	1.00	
1,2-Dichloroethane	ND	0.91	0.29	1.00	
1,1-Dichloroethene	ND	0.91	0.32	1.00	
c-1,2-Dichloroethene	ND	0.91	0.25	1.00	
t-1,2-Dichloroethene	ND	0.91	0.46	1.00	
1,2-Dichloropropane	ND	0.91	0.40	1.00	
1,3-Dichloropropane	ND	0.91	0.23	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 32 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	4.6	0.30	1.00	
1,1-Dichloropropene	ND	1.8	0.30	1.00	
c-1,3-Dichloropropene	ND	0.91	0.23	1.00	
t-1,3-Dichloropropene	ND	1.8	0.55	1.00	
Ethylbenzene	ND	0.91	0.14	1.00	
2-Hexanone	ND	18	1.6	1.00	
Isopropylbenzene	ND	0.91	0.50	1.00	
p-Isopropyltoluene	ND	0.91	0.57	1.00	
Methylene Chloride	ND	9.1	1.2	1.00	
4-Methyl-2-Pentanone	ND	18	3.9	1.00	
Naphthalene	ND	9.1	0.74	1.00	
n-Propylbenzene	ND	1.8	0.46	1.00	
Styrene	ND	0.91	0.55	1.00	
1,1,1,2-Tetrachloroethane	ND	0.91	0.22	1.00	
1,1,2,2-Tetrachloroethane	ND	1.8	0.31	1.00	
Tetrachloroethene	ND	0.91	0.19	1.00	
Toluene	ND	0.91	0.47	1.00	
1,2,3-Trichlorobenzene	ND	1.8	0.83	1.00	
1,2,4-Trichlorobenzene	ND	1.8	0.28	1.00	
1,1,1-Trichloroethane	ND	0.91	0.21	1.00	
1,1,2-Trichloroethane	ND	0.91	0.32	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.1	0.32	1.00	
Trichloroethene	ND	1.8	0.27	1.00	
Trichlorofluoromethane	ND	9.1	0.34	1.00	
1,2,3-Trichloropropane	ND	1.8	0.76	1.00	
1,2,4-Trimethylbenzene	ND	1.8	0.53	1.00	
1,3,5-Trimethylbenzene	ND	1.8	0.50	1.00	
Vinyl Acetate	ND	9.1	4.3	1.00	
Vinyl Chloride	ND	0.91	0.46	1.00	
p/m-Xylene	ND	1.8	0.24	1.00	
o-Xylene	ND	0.91	0.51	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.27	1.00	
Tert-Butyl Alcohol (TBA)	ND	18	4.7	1.00	
Diisopropyl Ether (DIPE)	ND	0.91	0.44	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.91	0.46	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.91	0.32	1.00	
Ethanol	ND	460	76	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 33 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	110	79-133	
1,2-Dichloroethane-d4	132	71-155	
Toluene-d8	95	80-120	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 34 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-5	15-08-0319-14-D	08/05/15 11:10	Solid	GC/MS Q	08/05/15	08/10/15 13:20	150810L003

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	11	38	4.7	1.00	J
Benzene	ND	0.76	0.098	1.00	
Bromobenzene	ND	0.76	0.16	1.00	
Bromochloromethane	ND	1.5	0.52	1.00	
Bromodichloromethane	ND	0.76	0.18	1.00	
Bromoform	ND	3.8	0.60	1.00	
Bromomethane	ND	15	7.1	1.00	
2-Butanone	ND	15	2.9	1.00	
n-Butylbenzene	ND	0.76	0.12	1.00	
sec-Butylbenzene	ND	0.76	0.44	1.00	
tert-Butylbenzene	ND	0.76	0.11	1.00	
Carbon Disulfide	ND	7.6	0.23	1.00	
Carbon Tetrachloride	ND	0.76	0.21	1.00	
Chlorobenzene	ND	0.76	0.17	1.00	
Chloroethane	ND	1.5	1.1	1.00	
Chloroform	ND	0.76	0.18	1.00	
Chloromethane	ND	15	0.23	1.00	
2-Chlorotoluene	ND	0.76	0.18	1.00	
4-Chlorotoluene	ND	0.76	0.16	1.00	
Dibromochloromethane	ND	1.5	0.43	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.8	1.3	1.00	
1,2-Dibromoethane	ND	0.76	0.19	1.00	
Dibromomethane	ND	0.76	0.59	1.00	
1,2-Dichlorobenzene	ND	0.76	0.17	1.00	
1,3-Dichlorobenzene	ND	0.76	0.13	1.00	
1,4-Dichlorobenzene	ND	0.76	0.17	1.00	
Dichlorodifluoromethane	ND	1.5	0.34	1.00	
1,1-Dichloroethane	ND	0.76	0.16	1.00	
1,2-Dichloroethane	ND	0.76	0.24	1.00	
1,1-Dichloroethene	ND	0.76	0.26	1.00	
c-1,2-Dichloroethene	ND	0.76	0.21	1.00	
t-1,2-Dichloroethene	ND	0.76	0.38	1.00	
1,2-Dichloropropane	ND	0.76	0.33	1.00	
1,3-Dichloropropane	ND	0.76	0.19	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 35 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	3.8	0.25	1.00	
1,1-Dichloropropene	ND	1.5	0.25	1.00	
c-1,3-Dichloropropene	ND	0.76	0.19	1.00	
t-1,3-Dichloropropene	ND	1.5	0.46	1.00	
Ethylbenzene	ND	0.76	0.11	1.00	
2-Hexanone	ND	15	1.3	1.00	
Isopropylbenzene	ND	0.76	0.41	1.00	
p-Isopropyltoluene	ND	0.76	0.48	1.00	
Methylene Chloride	ND	7.6	1.0	1.00	
4-Methyl-2-Pentanone	ND	15	3.3	1.00	
Naphthalene	ND	7.6	0.62	1.00	
n-Propylbenzene	ND	1.5	0.38	1.00	
Styrene	ND	0.76	0.46	1.00	
1,1,1,2-Tetrachloroethane	ND	0.76	0.18	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	0.26	1.00	
Tetrachloroethene	ND	0.76	0.16	1.00	
Toluene	ND	0.76	0.39	1.00	
1,2,3-Trichlorobenzene	ND	1.5	0.69	1.00	
1,2,4-Trichlorobenzene	ND	1.5	0.24	1.00	
1,1,1-Trichloroethane	ND	0.76	0.17	1.00	
1,1,2-Trichloroethane	ND	0.76	0.27	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.6	0.27	1.00	
Trichloroethene	ND	1.5	0.23	1.00	
Trichlorofluoromethane	ND	7.6	0.28	1.00	
1,2,3-Trichloropropane	ND	1.5	0.63	1.00	
1,2,4-Trimethylbenzene	ND	1.5	0.44	1.00	
1,3,5-Trimethylbenzene	ND	1.5	0.42	1.00	
Vinyl Acetate	ND	7.6	3.6	1.00	
Vinyl Chloride	ND	0.76	0.38	1.00	
p/m-Xylene	ND	1.5	0.20	1.00	
o-Xylene	ND	0.76	0.42	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	0.22	1.00	
Tert-Butyl Alcohol (TBA)	ND	15	3.9	1.00	
Diisopropyl Ether (DIPE)	ND	0.76	0.37	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.76	0.38	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.76	0.27	1.00	
Ethanol	ND	380	63	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 36 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	108	79-133	
1,2-Dichloroethane-d4	132	71-155	
Toluene-d8	96	80-120	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 37 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-10	15-08-0319-15-D	08/05/15 11:15	Solid	GC/MS Q	08/05/15	08/10/15 13:47	150810L003

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	47	5.9	1.00	
Benzene	0.15	0.95	0.12	1.00	J
Bromobenzene	ND	0.95	0.20	1.00	
Bromochloromethane	ND	1.9	0.66	1.00	
Bromodichloromethane	ND	0.95	0.22	1.00	
Bromoform	ND	4.7	0.75	1.00	
Bromomethane	ND	19	8.9	1.00	
2-Butanone	ND	19	3.6	1.00	
n-Butylbenzene	ND	0.95	0.15	1.00	
sec-Butylbenzene	ND	0.95	0.55	1.00	
tert-Butylbenzene	ND	0.95	0.14	1.00	
Carbon Disulfide	ND	9.5	0.29	1.00	
Carbon Tetrachloride	ND	0.95	0.27	1.00	
Chlorobenzene	ND	0.95	0.21	1.00	
Chloroethane	ND	1.9	1.4	1.00	
Chloroform	ND	0.95	0.23	1.00	
Chloromethane	ND	19	0.29	1.00	
2-Chlorotoluene	ND	0.95	0.22	1.00	
4-Chlorotoluene	ND	0.95	0.20	1.00	
Dibromochloromethane	ND	1.9	0.54	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.7	1.7	1.00	
1,2-Dibromoethane	ND	0.95	0.24	1.00	
Dibromomethane	ND	0.95	0.73	1.00	
1,2-Dichlorobenzene	ND	0.95	0.22	1.00	
1,3-Dichlorobenzene	ND	0.95	0.17	1.00	
1,4-Dichlorobenzene	ND	0.95	0.21	1.00	
Dichlorodifluoromethane	ND	1.9	0.42	1.00	
1,1-Dichloroethane	ND	0.95	0.20	1.00	
1,2-Dichloroethane	ND	0.95	0.30	1.00	
1,1-Dichloroethene	ND	0.95	0.33	1.00	
c-1,2-Dichloroethene	ND	0.95	0.27	1.00	
t-1,2-Dichloroethene	ND	0.95	0.48	1.00	
1,2-Dichloropropane	ND	0.95	0.42	1.00	
1,3-Dichloropropane	ND	0.95	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 38 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	4.7	0.31	1.00	
1,1-Dichloropropene	ND	1.9	0.31	1.00	
c-1,3-Dichloropropene	ND	0.95	0.24	1.00	
t-1,3-Dichloropropene	ND	1.9	0.57	1.00	
Ethylbenzene	ND	0.95	0.14	1.00	
2-Hexanone	ND	19	1.7	1.00	
Isopropylbenzene	ND	0.95	0.52	1.00	
p-Isopropyltoluene	ND	0.95	0.60	1.00	
Methylene Chloride	ND	9.5	1.3	1.00	
4-Methyl-2-Pentanone	ND	19	4.1	1.00	
Naphthalene	ND	9.5	0.77	1.00	
n-Propylbenzene	ND	1.9	0.48	1.00	
Styrene	ND	0.95	0.57	1.00	
1,1,1,2-Tetrachloroethane	ND	0.95	0.23	1.00	
1,1,2,2-Tetrachloroethane	ND	1.9	0.33	1.00	
Tetrachloroethene	ND	0.95	0.20	1.00	
Toluene	ND	0.95	0.49	1.00	
1,2,3-Trichlorobenzene	ND	1.9	0.87	1.00	
1,2,4-Trichlorobenzene	ND	1.9	0.29	1.00	
1,1,1-Trichloroethane	ND	0.95	0.21	1.00	
1,1,2-Trichloroethane	ND	0.95	0.34	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.5	0.33	1.00	
Trichloroethene	ND	1.9	0.29	1.00	
Trichlorofluoromethane	ND	9.5	0.36	1.00	
1,2,3-Trichloropropane	ND	1.9	0.79	1.00	
1,2,4-Trimethylbenzene	ND	1.9	0.56	1.00	
1,3,5-Trimethylbenzene	ND	1.9	0.52	1.00	
Vinyl Acetate	ND	9.5	4.5	1.00	
Vinyl Chloride	ND	0.95	0.48	1.00	
p/m-Xylene	ND	1.9	0.25	1.00	
o-Xylene	ND	0.95	0.53	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.28	1.00	
Tert-Butyl Alcohol (TBA)	ND	19	4.9	1.00	
Diisopropyl Ether (DIPE)	ND	0.95	0.46	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.95	0.48	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.95	0.33	1.00	
Ethanol	ND	470	79	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 39 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	112	79-133	
1,2-Dichloroethane-d4	134	71-155	
Toluene-d8	97	80-120	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 40 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B9-2.5	15-08-0319-17-D	08/05/15 14:00	Solid	GC/MS Q	08/05/15	08/10/15 14:14	150810L003

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	20	40	5.0	1.00	J
Benzene	0.65	0.80	0.10	1.00	J
Bromobenzene	ND	0.80	0.17	1.00	
Bromochloromethane	ND	1.6	0.56	1.00	
Bromodichloromethane	ND	0.80	0.19	1.00	
Bromoform	ND	4.0	0.64	1.00	
Bromomethane	ND	16	7.6	1.00	
2-Butanone	ND	16	3.0	1.00	
n-Butylbenzene	ND	0.80	0.13	1.00	
sec-Butylbenzene	ND	0.80	0.46	1.00	
tert-Butylbenzene	ND	0.80	0.12	1.00	
Carbon Disulfide	ND	8.0	0.25	1.00	
Carbon Tetrachloride	ND	0.80	0.23	1.00	
Chlorobenzene	ND	0.80	0.18	1.00	
Chloroethane	ND	1.6	1.2	1.00	
Chloroform	ND	0.80	0.19	1.00	
Chloromethane	ND	16	0.24	1.00	
2-Chlorotoluene	ND	0.80	0.19	1.00	
4-Chlorotoluene	ND	0.80	0.17	1.00	
Dibromochloromethane	ND	1.6	0.46	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.0	1.4	1.00	
1,2-Dibromoethane	ND	0.80	0.21	1.00	
Dibromomethane	ND	0.80	0.62	1.00	
1,2-Dichlorobenzene	ND	0.80	0.18	1.00	
1,3-Dichlorobenzene	ND	0.80	0.14	1.00	
1,4-Dichlorobenzene	ND	0.80	0.18	1.00	
Dichlorodifluoromethane	ND	1.6	0.36	1.00	
1,1-Dichloroethane	ND	0.80	0.17	1.00	
1,2-Dichloroethane	ND	0.80	0.25	1.00	
1,1-Dichloroethene	ND	0.80	0.28	1.00	
c-1,2-Dichloroethene	ND	0.80	0.22	1.00	
t-1,2-Dichloroethene	ND	0.80	0.41	1.00	
1,2-Dichloropropane	ND	0.80	0.35	1.00	
1,3-Dichloropropane	ND	0.80	0.20	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 41 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	4.0	0.27	1.00	
1,1-Dichloropropene	ND	1.6	0.26	1.00	
c-1,3-Dichloropropene	ND	0.80	0.20	1.00	
t-1,3-Dichloropropene	ND	1.6	0.49	1.00	
Ethylbenzene	ND	0.80	0.12	1.00	
2-Hexanone	ND	16	1.4	1.00	
Isopropylbenzene	ND	0.80	0.44	1.00	
p-Isopropyltoluene	ND	0.80	0.51	1.00	
Methylene Chloride	ND	8.0	1.1	1.00	
4-Methyl-2-Pentanone	ND	16	3.5	1.00	
Naphthalene	ND	8.0	0.65	1.00	
n-Propylbenzene	ND	1.6	0.40	1.00	
Styrene	ND	0.80	0.49	1.00	
1,1,1,2-Tetrachloroethane	ND	0.80	0.19	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	0.28	1.00	
Tetrachloroethene	ND	0.80	0.17	1.00	
Toluene	ND	0.80	0.41	1.00	
1,2,3-Trichlorobenzene	ND	1.6	0.73	1.00	
1,2,4-Trichlorobenzene	ND	1.6	0.25	1.00	
1,1,1-Trichloroethane	ND	0.80	0.18	1.00	
1,1,2-Trichloroethane	ND	0.80	0.28	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.0	0.28	1.00	
Trichloroethene	ND	1.6	0.24	1.00	
Trichlorofluoromethane	ND	8.0	0.30	1.00	
1,2,3-Trichloropropane	ND	1.6	0.67	1.00	
1,2,4-Trimethylbenzene	ND	1.6	0.47	1.00	
1,3,5-Trimethylbenzene	ND	1.6	0.44	1.00	
Vinyl Acetate	ND	8.0	3.8	1.00	
Vinyl Chloride	ND	0.80	0.40	1.00	
p/m-Xylene	ND	1.6	0.22	1.00	
o-Xylene	ND	0.80	0.45	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.24	1.00	
Tert-Butyl Alcohol (TBA)	ND	16	4.2	1.00	
Diisopropyl Ether (DIPE)	ND	0.80	0.39	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.80	0.41	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.80	0.28	1.00	
Ethanol	ND	400	67	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

### Analytical Report

Alta Environmental  
 3777 Long Beach Blvd., Annex Building  
 Long Beach, CA 90802-3335

Date Received: 08/05/15  
 Work Order: 15-08-0319  
 Preparation: EPA 5035  
 Method: EPA 8260B  
 Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 42 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	115	79-133	
1,2-Dichloroethane-d4	141	71-155	
Toluene-d8	98	80-120	

Return to Contents 

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 43 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B9-5	15-08-0319-18-D	08/05/15 14:10	Solid	GC/MS Q	08/05/15	08/10/15 14:41	150810L003

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	6.8	35	4.4	1.00	J
Benzene	ND	0.71	0.092	1.00	
Bromobenzene	ND	0.71	0.15	1.00	
Bromochloromethane	ND	1.4	0.49	1.00	
Bromodichloromethane	ND	0.71	0.16	1.00	
Bromoform	ND	3.5	0.56	1.00	
Bromomethane	ND	14	6.7	1.00	
2-Butanone	ND	14	2.7	1.00	
n-Butylbenzene	ND	0.71	0.11	1.00	
sec-Butylbenzene	ND	0.71	0.41	1.00	
tert-Butylbenzene	ND	0.71	0.11	1.00	
Carbon Disulfide	ND	7.1	0.22	1.00	
Carbon Tetrachloride	ND	0.71	0.20	1.00	
Chlorobenzene	ND	0.71	0.16	1.00	
Chloroethane	ND	1.4	1.1	1.00	
Chloroform	ND	0.71	0.17	1.00	
Chloromethane	ND	14	0.21	1.00	
2-Chlorotoluene	ND	0.71	0.16	1.00	
4-Chlorotoluene	ND	0.71	0.15	1.00	
Dibromochloromethane	ND	1.4	0.40	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.5	1.2	1.00	
1,2-Dibromoethane	ND	0.71	0.18	1.00	
Dibromomethane	ND	0.71	0.55	1.00	
1,2-Dichlorobenzene	ND	0.71	0.16	1.00	
1,3-Dichlorobenzene	ND	0.71	0.12	1.00	
1,4-Dichlorobenzene	ND	0.71	0.16	1.00	
Dichlorodifluoromethane	ND	1.4	0.31	1.00	
1,1-Dichloroethane	ND	0.71	0.15	1.00	
1,2-Dichloroethane	ND	0.71	0.22	1.00	
1,1-Dichloroethene	ND	0.71	0.24	1.00	
c-1,2-Dichloroethene	ND	0.71	0.20	1.00	
t-1,2-Dichloroethene	ND	0.71	0.36	1.00	
1,2-Dichloropropane	ND	0.71	0.31	1.00	
1,3-Dichloropropane	ND	0.71	0.18	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 44 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	3.5	0.23	1.00	
1,1-Dichloropropene	ND	1.4	0.23	1.00	
c-1,3-Dichloropropene	ND	0.71	0.18	1.00	
t-1,3-Dichloropropene	ND	1.4	0.43	1.00	
Ethylbenzene	ND	0.71	0.11	1.00	
2-Hexanone	ND	14	1.2	1.00	
Isopropylbenzene	ND	0.71	0.39	1.00	
p-Isopropyltoluene	ND	0.71	0.44	1.00	
Methylene Chloride	ND	7.1	0.95	1.00	
4-Methyl-2-Pentanone	ND	14	3.1	1.00	
Naphthalene	ND	7.1	0.57	1.00	
n-Propylbenzene	ND	1.4	0.35	1.00	
Styrene	ND	0.71	0.43	1.00	
1,1,1,2-Tetrachloroethane	ND	0.71	0.17	1.00	
1,1,2,2-Tetrachloroethane	ND	1.4	0.24	1.00	
Tetrachloroethene	ND	0.71	0.15	1.00	
Toluene	ND	0.71	0.36	1.00	
1,2,3-Trichlorobenzene	ND	1.4	0.64	1.00	
1,2,4-Trichlorobenzene	ND	1.4	0.22	1.00	
1,1,1-Trichloroethane	ND	0.71	0.16	1.00	
1,1,2-Trichloroethane	ND	0.71	0.25	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.1	0.25	1.00	
Trichloroethene	ND	1.4	0.21	1.00	
Trichlorofluoromethane	ND	7.1	0.26	1.00	
1,2,3-Trichloropropane	ND	1.4	0.59	1.00	
1,2,4-Trimethylbenzene	ND	1.4	0.41	1.00	
1,3,5-Trimethylbenzene	ND	1.4	0.39	1.00	
Vinyl Acetate	ND	7.1	3.4	1.00	
Vinyl Chloride	ND	0.71	0.36	1.00	
p/m-Xylene	ND	1.4	0.19	1.00	
o-Xylene	ND	0.71	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.4	0.21	1.00	
Tert-Butyl Alcohol (TBA)	ND	14	3.7	1.00	
Diisopropyl Ether (DIPE)	ND	0.71	0.34	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.71	0.36	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.71	0.25	1.00	
Ethanol	ND	350	59	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

**Analytical Report**

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 45 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	113	79-133	
1,2-Dichloroethane-d4	139	71-155	
Toluene-d8	97	80-120	

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 46 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B9-10	15-08-0319-19-D	08/05/15 14:15	Solid	GC/MS Q	08/05/15	08/10/15 15:08	150810L003

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	5.8	33	4.2	1.00	J
Benzene	0.15	0.67	0.087	1.00	J
Bromobenzene	ND	0.67	0.14	1.00	
Bromochloromethane	ND	1.3	0.46	1.00	
Bromodichloromethane	ND	0.67	0.16	1.00	
Bromoform	ND	3.3	0.53	1.00	
Bromomethane	ND	13	6.3	1.00	
2-Butanone	ND	13	2.5	1.00	
n-Butylbenzene	ND	0.67	0.10	1.00	
sec-Butylbenzene	ND	0.67	0.39	1.00	
tert-Butylbenzene	ND	0.67	0.10	1.00	
Carbon Disulfide	ND	6.7	0.20	1.00	
Carbon Tetrachloride	ND	0.67	0.19	1.00	
Chlorobenzene	ND	0.67	0.15	1.00	
Chloroethane	ND	1.3	1.0	1.00	
Chloroform	ND	0.67	0.16	1.00	
Chloromethane	ND	13	0.20	1.00	
2-Chlorotoluene	ND	0.67	0.15	1.00	
4-Chlorotoluene	ND	0.67	0.14	1.00	
Dibromochloromethane	ND	1.3	0.38	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.3	1.2	1.00	
1,2-Dibromoethane	ND	0.67	0.17	1.00	
Dibromomethane	ND	0.67	0.52	1.00	
1,2-Dichlorobenzene	ND	0.67	0.15	1.00	
1,3-Dichlorobenzene	ND	0.67	0.12	1.00	
1,4-Dichlorobenzene	ND	0.67	0.15	1.00	
Dichlorodifluoromethane	ND	1.3	0.30	1.00	
1,1-Dichloroethane	ND	0.67	0.14	1.00	
1,2-Dichloroethane	ND	0.67	0.21	1.00	
1,1-Dichloroethene	ND	0.67	0.23	1.00	
c-1,2-Dichloroethene	ND	0.67	0.19	1.00	
t-1,2-Dichloroethene	ND	0.67	0.34	1.00	
1,2-Dichloropropane	ND	0.67	0.29	1.00	
1,3-Dichloropropane	ND	0.67	0.17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 47 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	3.3	0.22	1.00	
1,1-Dichloropropene	ND	1.3	0.22	1.00	
c-1,3-Dichloropropene	ND	0.67	0.17	1.00	
t-1,3-Dichloropropene	ND	1.3	0.41	1.00	
Ethylbenzene	ND	0.67	0.10	1.00	
2-Hexanone	ND	13	1.2	1.00	
Isopropylbenzene	ND	0.67	0.37	1.00	
p-Isopropyltoluene	ND	0.67	0.42	1.00	
Methylene Chloride	ND	6.7	0.90	1.00	
4-Methyl-2-Pentanone	ND	13	2.9	1.00	
Naphthalene	ND	6.7	0.54	1.00	
n-Propylbenzene	ND	1.3	0.34	1.00	
Styrene	ND	0.67	0.40	1.00	
1,1,1,2-Tetrachloroethane	ND	0.67	0.16	1.00	
1,1,2,2-Tetrachloroethane	ND	1.3	0.23	1.00	
Tetrachloroethene	ND	0.67	0.14	1.00	
Toluene	ND	0.67	0.34	1.00	
1,2,3-Trichlorobenzene	ND	1.3	0.61	1.00	
1,2,4-Trichlorobenzene	ND	1.3	0.21	1.00	
1,1,1-Trichloroethane	ND	0.67	0.15	1.00	
1,1,2-Trichloroethane	ND	0.67	0.24	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	6.7	0.24	1.00	
Trichloroethene	ND	1.3	0.20	1.00	
Trichlorofluoromethane	ND	6.7	0.25	1.00	
1,2,3-Trichloropropane	ND	1.3	0.56	1.00	
1,2,4-Trimethylbenzene	ND	1.3	0.39	1.00	
1,3,5-Trimethylbenzene	ND	1.3	0.37	1.00	
Vinyl Acetate	ND	6.7	3.2	1.00	
Vinyl Chloride	ND	0.67	0.34	1.00	
p/m-Xylene	ND	1.3	0.18	1.00	
o-Xylene	ND	0.67	0.37	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.3	0.20	1.00	
Tert-Butyl Alcohol (TBA)	ND	13	3.5	1.00	
Diisopropyl Ether (DIPE)	ND	0.67	0.32	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.67	0.34	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.67	0.24	1.00	
Ethanol	ND	330	56	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 48 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	113	79-133	
1,2-Dichloroethane-d4	134	71-155	
Toluene-d8	96	80-120	



## Analytical Report

Alta Environmental	Date Received:	08/05/15
3777 Long Beach Blvd., Annex Building	Work Order:	15-08-0319
Long Beach, CA 90802-3335	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 49 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>095-01-025-26512</b>	<b>N/A</b>	<b>Solid</b>	<b>GC/MS T</b>	<b>08/08/15</b>	<b>08/08/15 12:43</b>	<b>150808L026</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Acetone	ND	50	6.2	1.00	
Benzene	ND	1.0	0.13	1.00	
Bromobenzene	ND	1.0	0.21	1.00	
Bromochloromethane	ND	2.0	0.69	1.00	
Bromodichloromethane	ND	1.0	0.23	1.00	
Bromoform	ND	5.0	0.79	1.00	
Bromomethane	ND	20	9.4	1.00	
2-Butanone	ND	20	3.8	1.00	
n-Butylbenzene	ND	1.0	0.16	1.00	
sec-Butylbenzene	ND	1.0	0.58	1.00	
tert-Butylbenzene	ND	1.0	0.15	1.00	
Carbon Disulfide	ND	10	0.31	1.00	
Carbon Tetrachloride	ND	1.0	0.28	1.00	
Chlorobenzene	ND	1.0	0.22	1.00	
Chloroethane	ND	2.0	1.5	1.00	
Chloroform	ND	1.0	0.24	1.00	
Chloromethane	ND	20	0.30	1.00	
2-Chlorotoluene	ND	1.0	0.23	1.00	
4-Chlorotoluene	ND	1.0	0.21	1.00	
Dibromochloromethane	ND	2.0	0.57	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.7	1.00	
1,2-Dibromoethane	ND	1.0	0.26	1.00	
Dibromomethane	ND	1.0	0.77	1.00	
1,2-Dichlorobenzene	ND	1.0	0.23	1.00	
1,3-Dichlorobenzene	ND	1.0	0.18	1.00	
1,4-Dichlorobenzene	ND	1.0	0.22	1.00	
Dichlorodifluoromethane	ND	2.0	0.44	1.00	
1,1-Dichloroethane	ND	1.0	0.21	1.00	
1,2-Dichloroethane	ND	1.0	0.31	1.00	
1,1-Dichloroethene	ND	1.0	0.35	1.00	
c-1,2-Dichloroethene	ND	1.0	0.28	1.00	
t-1,2-Dichloroethene	ND	1.0	0.51	1.00	
1,2-Dichloropropane	ND	1.0	0.44	1.00	
1,3-Dichloropropane	ND	1.0	0.25	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 50 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	5.0	0.33	1.00	
1,1-Dichloropropene	ND	2.0	0.33	1.00	
c-1,3-Dichloropropene	ND	1.0	0.25	1.00	
t-1,3-Dichloropropene	ND	2.0	0.61	1.00	
Ethylbenzene	ND	1.0	0.15	1.00	
2-Hexanone	ND	20	1.8	1.00	
Isopropylbenzene	ND	1.0	0.55	1.00	
p-Isopropyltoluene	ND	1.0	0.63	1.00	
Methylene Chloride	ND	10	1.3	1.00	
4-Methyl-2-Pentanone	ND	20	4.3	1.00	
Naphthalene	ND	10	0.81	1.00	
n-Propylbenzene	ND	2.0	0.50	1.00	
Styrene	ND	1.0	0.60	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	0.35	1.00	
Tetrachloroethene	ND	1.0	0.21	1.00	
Toluene	ND	1.0	0.52	1.00	
1,2,3-Trichlorobenzene	ND	2.0	0.91	1.00	
1,2,4-Trichlorobenzene	ND	2.0	0.31	1.00	
1,1,1-Trichloroethane	ND	1.0	0.23	1.00	
1,1,2-Trichloroethane	ND	1.0	0.35	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.35	1.00	
Trichloroethene	ND	2.0	0.30	1.00	
Trichlorofluoromethane	ND	10	0.38	1.00	
1,2,3-Trichloropropane	ND	2.0	0.83	1.00	
1,2,4-Trimethylbenzene	ND	2.0	0.59	1.00	
1,3,5-Trimethylbenzene	ND	2.0	0.55	1.00	
Vinyl Acetate	ND	10	4.7	1.00	
Vinyl Chloride	ND	1.0	0.50	1.00	
p/m-Xylene	ND	2.0	0.27	1.00	
o-Xylene	ND	1.0	0.56	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.30	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	5.2	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	0.48	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	0.51	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	0.35	1.00	
Ethanol	ND	500	84	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 51 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	89	79-133	
1,2-Dichloroethane-d4	96	71-155	
Toluene-d8	97	80-120	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 52 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-025-26509	N/A	Solid	GC/MS Q	08/10/15	08/10/15 11:08	150810L003

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	50	6.2	1.00	
Benzene	ND	1.0	0.13	1.00	
Bromobenzene	ND	1.0	0.21	1.00	
Bromochloromethane	ND	2.0	0.69	1.00	
Bromodichloromethane	ND	1.0	0.23	1.00	
Bromoform	ND	5.0	0.79	1.00	
Bromomethane	ND	20	9.4	1.00	
2-Butanone	ND	20	3.8	1.00	
n-Butylbenzene	ND	1.0	0.16	1.00	
sec-Butylbenzene	ND	1.0	0.58	1.00	
tert-Butylbenzene	ND	1.0	0.15	1.00	
Carbon Disulfide	ND	10	0.31	1.00	
Carbon Tetrachloride	ND	1.0	0.28	1.00	
Chlorobenzene	ND	1.0	0.22	1.00	
Chloroethane	ND	2.0	1.5	1.00	
Chloroform	ND	1.0	0.24	1.00	
Chloromethane	ND	20	0.30	1.00	
2-Chlorotoluene	ND	1.0	0.23	1.00	
4-Chlorotoluene	ND	1.0	0.21	1.00	
Dibromochloromethane	ND	2.0	0.57	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.7	1.00	
1,2-Dibromoethane	ND	1.0	0.26	1.00	
Dibromomethane	ND	1.0	0.77	1.00	
1,2-Dichlorobenzene	ND	1.0	0.23	1.00	
1,3-Dichlorobenzene	ND	1.0	0.18	1.00	
1,4-Dichlorobenzene	ND	1.0	0.22	1.00	
Dichlorodifluoromethane	ND	2.0	0.44	1.00	
1,1-Dichloroethane	ND	1.0	0.21	1.00	
1,2-Dichloroethane	ND	1.0	0.31	1.00	
1,1-Dichloroethene	ND	1.0	0.35	1.00	
c-1,2-Dichloroethene	ND	1.0	0.28	1.00	
t-1,2-Dichloroethene	ND	1.0	0.51	1.00	
1,2-Dichloropropane	ND	1.0	0.44	1.00	
1,3-Dichloropropane	ND	1.0	0.25	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 53 of 54

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	5.0	0.33	1.00	
1,1-Dichloropropene	ND	2.0	0.33	1.00	
c-1,3-Dichloropropene	ND	1.0	0.25	1.00	
t-1,3-Dichloropropene	ND	2.0	0.61	1.00	
Ethylbenzene	ND	1.0	0.15	1.00	
2-Hexanone	ND	20	1.8	1.00	
Isopropylbenzene	ND	1.0	0.55	1.00	
p-Isopropyltoluene	ND	1.0	0.63	1.00	
Methylene Chloride	ND	10	1.3	1.00	
4-Methyl-2-Pentanone	ND	20	4.3	1.00	
Naphthalene	ND	10	0.81	1.00	
n-Propylbenzene	ND	2.0	0.50	1.00	
Styrene	ND	1.0	0.60	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	0.35	1.00	
Tetrachloroethene	ND	1.0	0.21	1.00	
Toluene	ND	1.0	0.52	1.00	
1,2,3-Trichlorobenzene	ND	2.0	0.91	1.00	
1,2,4-Trichlorobenzene	ND	2.0	0.31	1.00	
1,1,1-Trichloroethane	ND	1.0	0.23	1.00	
1,1,2-Trichloroethane	ND	1.0	0.35	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.35	1.00	
Trichloroethene	ND	2.0	0.30	1.00	
Trichlorofluoromethane	ND	10	0.38	1.00	
1,2,3-Trichloropropane	ND	2.0	0.83	1.00	
1,2,4-Trimethylbenzene	ND	2.0	0.59	1.00	
1,3,5-Trimethylbenzene	ND	2.0	0.55	1.00	
Vinyl Acetate	ND	10	4.7	1.00	
Vinyl Chloride	ND	1.0	0.50	1.00	
p/m-Xylene	ND	2.0	0.27	1.00	
o-Xylene	ND	1.0	0.56	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.30	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	5.2	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	0.48	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	0.51	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	0.35	1.00	
Ethanol	ND	500	84	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B  
Units: ug/kg

Project: Panama Street Site / MCGU-15-5422

Page 54 of 54

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	111	79-133	
1,2-Dichloroethane-d4	126	71-155	
Toluene-d8	97	80-120	



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## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: Panama Street Site / MCGU-15-5422

Page 1 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B12-5	Sample	Solid	GC 50	08/10/15	08/10/15 23:27	150810S22
B12-5	Matrix Spike	Solid	GC 50	08/10/15	08/10/15 22:28	150810S22
B12-5	Matrix Spike Duplicate	Solid	GC 50	08/10/15	08/10/15 22:47	150810S22

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	ND	400.0	347.5	87	310.7	78	64-130	11	0-15	


 Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: Panama Street Site / MCGU-15-5422

Page 2 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
<b>B6-10</b>	<b>Sample</b>	<b>Solid</b>	<b>GC 45</b>	<b>08/06/15</b>	<b>08/07/15 14:11</b>	<b>150806S03</b>
<b>B6-10</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>GC 45</b>	<b>08/06/15</b>	<b>08/07/15 11:23</b>	<b>150806S03</b>
<b>B6-10</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>GC 45</b>	<b>08/06/15</b>	<b>08/07/15 11:41</b>	<b>150806S03</b>

<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	ND	400.0	408.3	102	368.8	92	64-130	10	0-15	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





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## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: Panama Street Site / MCGU-15-5422

Page 3 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B12-5	Sample	Solid	GC 50	08/10/15	08/10/15 23:27	150810S21
B12-5	Matrix Spike	Solid	GC 50	08/10/15	08/10/15 21:51	150810S21
B12-5	Matrix Spike Duplicate	Solid	GC 50	08/10/15	08/10/15 22:09	150810S21

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	345.6	86	325.6	81	64-130	6	0-15	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: Panama Street Site / MCGU-15-5422

Page 4 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B12-2.5	Sample	Solid	GC 24	08/11/15	08/12/15 21:06	150812S019
B12-2.5	Matrix Spike	Solid	GC 24	08/11/15	08/12/15 21:40	150812S019
B12-2.5	Matrix Spike Duplicate	Solid	GC 24	08/11/15	08/12/15 22:14	150812S019

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	10.00	6.466	65	6.427	64	48-114	1	0-23	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: Panama Street Site / MCGU-15-5422

Page 5 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-08-0441-9	Sample	Solid	ICP 7300	08/11/15	08/12/15 16:34	150811S03
15-08-0441-9	Matrix Spike	Solid	ICP 7300	08/11/15	08/12/15 16:12	150811S03
15-08-0441-9	Matrix Spike Duplicate	Solid	ICP 7300	08/11/15	08/12/15 16:14	150811S03

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	11.38	46	10.94	44	50-115	4	0-20	3
Arsenic	ND	25.00	23.57	94	22.94	92	75-125	3	0-20	
Barium	59.08	25.00	82.46	94	79.14	80	75-125	4	0-20	
Beryllium	ND	25.00	25.88	104	25.45	102	75-125	2	0-20	
Cadmium	ND	25.00	25.81	103	25.26	101	75-125	2	0-20	
Chromium	5.673	25.00	31.55	103	31.09	102	75-125	1	0-20	
Cobalt	5.235	25.00	31.15	104	30.48	101	75-125	2	0-20	
Copper	6.339	25.00	32.34	104	32.09	103	75-125	1	0-20	
Lead	1.047	25.00	26.63	102	25.95	100	75-125	3	0-20	
Molybdenum	ND	25.00	24.48	98	23.84	95	75-125	3	0-20	
Nickel	4.115	25.00	29.42	101	28.77	99	75-125	2	0-20	
Selenium	ND	25.00	22.48	90	21.72	87	75-125	3	0-20	
Silver	ND	12.50	9.916	79	9.763	78	75-125	2	0-20	
Thallium	ND	25.00	24.81	99	24.22	97	75-125	2	0-20	
Vanadium	17.17	25.00	43.03	103	42.77	102	75-125	1	0-20	
Zinc	26.20	25.00	52.18	104	51.24	100	75-125	2	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: Panama Street Site / MCGU-15-5422

Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
<b>B12-2.5</b>	<b>Sample</b>	<b>Solid</b>	<b>ICP 8300</b>	<b>08/06/15</b>	<b>08/06/15 20:40</b>	<b>150806S03</b>				
<b>B12-2.5</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>ICP 8300</b>	<b>08/06/15</b>	<b>08/06/15 20:36</b>	<b>150806S03</b>				
<b>B12-2.5</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>ICP 8300</b>	<b>08/06/15</b>	<b>08/06/15 20:38</b>	<b>150806S03</b>				
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Antimony	ND	25.00	7.404	30	9.966	40	50-115	30	0-20	3,4
Arsenic	5.864	25.00	29.18	93	30.65	99	75-125	5	0-20	
Barium	95.92	25.00	124.3	114	124.0	112	75-125	0	0-20	
Beryllium	0.5264	25.00	25.83	101	26.83	105	75-125	4	0-20	
Cadmium	1.430	25.00	27.55	104	28.29	107	75-125	3	0-20	
Chromium	33.26	25.00	58.69	102	58.31	100	75-125	1	0-20	
Cobalt	9.324	25.00	36.21	108	36.51	109	75-125	1	0-20	
Copper	61.43	25.00	85.84	98	84.08	91	75-125	2	0-20	
Lead	16.43	25.00	40.78	97	40.22	95	75-125	1	0-20	
Molybdenum	ND	25.00	18.27	73	19.54	78	75-125	7	0-20	3
Nickel	18.68	25.00	45.10	106	45.65	108	75-125	1	0-20	
Selenium	ND	25.00	14.71	59	17.30	69	75-125	16	0-20	3
Silver	ND	12.50	12.85	103	13.25	106	75-125	3	0-20	
Thallium	ND	25.00	12.93	52	11.03	44	75-125	16	0-20	3
Vanadium	43.55	25.00	71.51	112	68.23	99	75-125	5	0-20	
Zinc	61.68	25.00	83.84	89	82.37	83	75-125	2	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: Panama Street Site / MCGU-15-5422

Page 7 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-08-0397-1	Sample	Solid	Mercury 05	08/07/15	08/07/15 16:03	150807S01
15-08-0397-1	Matrix Spike	Solid	Mercury 05	08/07/15	08/07/15 16:05	150807S01
15-08-0397-1	Matrix Spike Duplicate	Solid	Mercury 05	08/07/15	08/07/15 16:07	150807S01

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.8610	103	0.8725	104	71-137	1	0-14	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: Panama Street Site / MCGU-15-5422

Page 8 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-08-0513-1	Sample	Solid	Mercury 05	08/11/15	08/11/15 18:02	150811S01
15-08-0513-1	Matrix Spike	Solid	Mercury 05	08/11/15	08/11/15 18:09	150811S01
15-08-0513-1	Matrix Spike Duplicate	Solid	Mercury 05	08/11/15	08/11/15 18:11	150811S01

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.6331	76	0.6549	78	71-137	3	0-14	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: Panama Street Site / MCGU-15-5422

Page 1 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-420-1462</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 50</b>	<b>08/10/15</b>	<b>08/10/15 21:32</b>	<b>150810B22</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Motor Oil		400.0	322.0	81	75-123	


  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: Panama Street Site / MCGU-15-5422

Page 2 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-422-1971</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 45</b>	<b>08/06/15</b>	<b>08/07/15 11:05</b>	<b>150806B03</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Diesel		400.0	387.9	97	75-123	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





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## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: Panama Street Site / MCGU-15-5422

Page 3 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-422-1972</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 50</b>	<b>08/10/15</b>	<b>08/10/15 21:13</b>	<b>150810B21</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Diesel		400.0	304.9	76	75-123	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: Panama Street Site / MCGU-15-5422

Page 4 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-14-571-2519</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 24</b>	<b>08/12/15</b>	<b>08/12/15 19:23</b>	<b>150812L052</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline		10.00	7.154	72	70-124	


  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: Panama Street Site / MCGU-15-5422

Page 5 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>097-01-002-21592</b>	<b>LCS</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>08/11/15</b>	<b>08/12/15 15:52</b>	<b>150811L03</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Antimony		25.00	24.29	97	80-120	73-127	
Arsenic		25.00	24.60	98	80-120	73-127	
Barium		25.00	27.00	108	80-120	73-127	
Beryllium		25.00	24.82	99	80-120	73-127	
Cadmium		25.00	25.85	103	80-120	73-127	
Chromium		25.00	26.81	107	80-120	73-127	
Cobalt		25.00	27.27	109	80-120	73-127	
Copper		25.00	25.43	102	80-120	73-127	
Lead		25.00	26.24	105	80-120	73-127	
Molybdenum		25.00	24.71	99	80-120	73-127	
Nickel		25.00	26.62	106	80-120	73-127	
Selenium		25.00	24.36	97	80-120	73-127	
Silver		12.50	12.74	102	80-120	73-127	
Thallium		25.00	25.83	103	80-120	73-127	
Vanadium		25.00	25.76	103	80-120	73-127	
Zinc		25.00	25.98	104	80-120	73-127	

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: Panama Street Site / MCGU-15-5422

Page 6 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>097-01-002-21584</b>	<b>LCS</b>	<b>Solid</b>	<b>ICP 8300</b>	<b>08/06/15</b>	<b>08/06/15 20:34</b>	<b>150806L03</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Antimony		25.00	26.83	107	80-120	73-127	
Arsenic		25.00	22.36	89	80-120	73-127	
Barium		25.00	25.28	101	80-120	73-127	
Beryllium		25.00	23.41	94	80-120	73-127	
Cadmium		25.00	25.02	100	80-120	73-127	
Chromium		25.00	25.79	103	80-120	73-127	
Cobalt		25.00	26.16	105	80-120	73-127	
Copper		25.00	25.67	103	80-120	73-127	
Lead		25.00	25.49	102	80-120	73-127	
Molybdenum		25.00	22.51	90	80-120	73-127	
Nickel		25.00	26.85	107	80-120	73-127	
Selenium		25.00	21.27	85	80-120	73-127	
Silver		12.50	12.63	101	80-120	73-127	
Thallium		25.00	25.97	104	80-120	73-127	
Vanadium		25.00	24.73	99	80-120	73-127	
Zinc		25.00	24.49	98	80-120	73-127	

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: Panama Street Site / MCGU-15-5422

Page 7 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-16-272-1522</b>	<b>LCS</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>08/07/15</b>	<b>08/07/15 16:01</b>	<b>150807L01</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury		0.8350	0.9233	111	85-121	


  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: Panama Street Site / MCGU-15-5422

Page 8 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-16-272-1527</b>	<b>LCS</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>08/11/15</b>	<b>08/11/15 18:00</b>	<b>150811L01</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury		0.8350	0.7263	87	85-121	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B

Project: Panama Street Site / MCGU-15-5422

Page 9 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
095-01-025-26509	LCS	Solid	GC/MS Q	08/10/15	08/10/15 09:44	150810L003				
095-01-025-26509	LCSD	Solid	GC/MS Q	08/10/15	08/10/15 10:10	150810L003				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	45.01	90	45.39	91	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	60.49	121	59.45	119	65-137	53-149	2	0-20	
Chlorobenzene	50.00	45.49	91	45.50	91	80-120	73-127	0	0-20	
1,2-Dibromoethane	50.00	46.54	93	47.91	96	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	46.00	92	47.33	95	80-120	73-127	3	0-20	
1,2-Dichloroethane	50.00	52.89	106	53.89	108	80-120	73-127	2	0-20	
1,1-Dichloroethene	50.00	45.00	90	45.67	91	68-128	58-138	1	0-20	
Ethylbenzene	50.00	47.89	96	47.73	95	80-120	73-127	0	0-20	
Toluene	50.00	45.21	90	45.67	91	80-120	73-127	1	0-20	
Trichloroethene	50.00	45.32	91	45.51	91	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	42.41	85	41.93	84	67-127	57-137	1	0-20	
p/m-Xylene	100.0	93.89	94	93.82	94	75-125	67-133	0	0-25	
o-Xylene	50.00	45.30	91	45.92	92	75-125	67-133	1	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	42.00	84	43.10	86	70-124	61-133	3	0-20	
Tert-Butyl Alcohol (TBA)	250.0	251.4	101	219.5	88	73-121	65-129	14	0-20	
Diisopropyl Ether (DIPE)	50.00	48.20	96	48.87	98	69-129	59-139	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	44.36	89	44.68	89	70-124	61-133	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	42.93	86	43.37	87	74-122	66-130	1	0-20	
Ethanol	500.0	591.0	118	479.4	96	51-135	37-149	21	0-27	

Total number of LCS compounds: 19

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0319  
Preparation: EPA 5035  
Method: EPA 8260B

Project: Panama Street Site / MCGU-15-5422

Page 10 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
095-01-025-26512	LCS	Solid	GC/MS T	08/08/15	08/08/15 11:17	150808L026				
095-01-025-26512	LCSD	Solid	GC/MS T	08/08/15	08/08/15 11:44	150808L026				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	43.82	88	43.33	87	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	44.37	89	42.75	86	65-137	53-149	4	0-20	
Chlorobenzene	50.00	45.73	91	45.64	91	80-120	73-127	0	0-20	
1,2-Dibromoethane	50.00	48.96	98	48.04	96	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	46.22	92	45.45	91	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	48.55	97	47.59	95	80-120	73-127	2	0-20	
1,1-Dichloroethene	50.00	40.80	82	41.63	83	68-128	58-138	2	0-20	
Ethylbenzene	50.00	47.73	95	47.17	94	80-120	73-127	1	0-20	
Toluene	50.00	45.31	91	44.18	88	80-120	73-127	3	0-20	
Trichloroethene	50.00	44.78	90	44.49	89	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	37.09	74	37.37	75	67-127	57-137	1	0-20	
p/m-Xylene	100.0	94.59	95	93.01	93	75-125	67-133	2	0-25	
o-Xylene	50.00	47.36	95	46.20	92	75-125	67-133	2	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	44.73	89	45.06	90	70-124	61-133	1	0-20	
Tert-Butyl Alcohol (TBA)	250.0	255.9	102	253.5	101	73-121	65-129	1	0-20	
Diisopropyl Ether (DIPE)	50.00	45.28	91	45.37	91	69-129	59-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	44.18	88	43.66	87	70-124	61-133	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	46.58	93	46.74	93	74-122	66-130	0	0-20	
Ethanol	500.0	559.2	112	542.7	109	51-135	37-149	3	0-27	

Total number of LCS compounds: 19

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits



## Sample Analysis Summary Report

Work Order: 15-08-0319

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 6010B	EPA 3050B	935	ICP 7300	1
EPA 6010B	EPA 3050B	935	ICP 8300	1
EPA 7471A	EPA 7471A Total	915	Mercury 05	1
EPA 8015B (M)	EPA 3550B	682	GC 45	1
EPA 8015B (M)	EPA 3550B	974	GC 50	1
EPA 8015B (M)	EPA 5030C	715	GC 24	2
EPA 8260B	EPA 5035	849	GC/MS T	2
EPA 8260B	EPA 5035	905	GC/MS Q	2

## Glossary of Terms and Qualifiers

Work Order: 15-08-0319

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494  
For courier service / sample drop off information, contact us26\_sales@eurofins.com or call us.

LABORATORY CLIENT:

Alta Environmental  
ADDRESS: 3777 Long Beach Blvd  
CITY: Long Beach STATE: CA ZIP: 90807  
E-MAIL: Steve.Ridenour@altaenvironment.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

EDD:  COELT EDF  OTHER

SPECIAL INSTRUCTIONS:

WO NO. / LAB USE ONLY  
**15-08-0319**

CHAIN-OF-CUSTODY RECORD

DATE: 8/5/2015  
PAGE: 1 OF 2

CLIENT PROJECT NAME / NO.: Panama Street Site  
P.O. NO.: MCBU-15-5422  
LAB CONTACT OR QUOTE NO.:  
PROJECT CONTACT: Steve Ridenour  
GLOBAL ID:  
LOG CODE:  
SAMPLER(S): (PRINT) RS VB

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) <input type="checkbox"/> GRO	TPH (d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input checked="" type="checkbox"/> C6-C44	BTEX / MTBE <input type="checkbox"/> 8260	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
1	B12-2.5	8/5/15	730	Soil	3 VOCs, 1 PHT, 1 sieve				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
2	B12-5		746						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
3	B12-10		745						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
4	B11-2.5		830						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
5	B11-5		840						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
6	B11-10		845						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
7	B7-2.5		915						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
8	B7-5		925						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
9	B7-10		930						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
10	B6-2.5		1010						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	

Received by: (Signature/Affiliation) Valerie B. Date: 8/5/15  
Received by: (Signature/Affiliation) [Signature] Date: 8/5/15  
Received by: (Signature/Affiliation) [Signature] Date: 8/5/15





SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 2

CLIENT: Alta Env'l.

DATE: 08 / 5 / 2015

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)  
 Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 3-9 °C (w/ CF): 3-7 °C;  Blank  Sample  
 Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_)  
 Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling  
 Sample(s) received at ambient temperature; placed on ice for transport by courier  
 Ambient Temperature:  Air  Filter

Checked by: 836

**CUSTODY SEAL:**  
 Cooler  Present and Intact  Present but Not Intact  Not Present  N/A  
 Sample(s)  Present and Intact  Present but Not Intact  Not Present  N/A

Checked by: 836  
Checked by: 965

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers			
<input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time			
Sampler's name indicated on COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses			
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Container(s) for certain analysis free of headspace	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500)			
<input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:** (Trip Blank Lot Number: 150803A)  
 Aqueous:  VOA  VOAh  VOAna<sub>2</sub>  100PJ  100PJna<sub>2</sub>  125AGB  125AGBh  125AGBp  125PB  
 125PBz<sub>na</sub>  250AGB  250CGB  250CGBs  250PB  250PBn  500AGB  500AGJ  500AGJs  
 500PB  1AGB  1AGBna<sub>2</sub>  1AGBs  1PB  1PBna  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  
 Solid:  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (P)  EnCores® (\_\_\_\_)  TerraCores® (3)  100P  
 Air:  Tedlar™  Canister  Sorbent Tube  PUF  \_\_\_\_\_ Other Matrix (\_\_\_\_):  \_\_\_\_\_  \_\_\_\_\_  
 Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag  
 Preservative: b = buffered, f = filtered, h = HCl, n = HNO<sub>3</sub>, na = NaOH, na<sub>2</sub> = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, p = H<sub>3</sub>PO<sub>4</sub>,  
 s = H<sub>2</sub>SO<sub>4</sub>, u = ultra-pure, z<sub>na</sub> = Zn(CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> + NaOH

Labeled/Checked by: 965  
Reviewed by: 836

Return to Contents



**SAMPLE RECEIPT CHECKLIST**

COOLER 2 OF 2

CLIENT: Alta Env'l.

DATE: 08 / 5 / 2015

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)  
 Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 3-6 °C (w/ CF): 3-4 °C;  Blank  Sample  
 Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_)  
 Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling  
 Sample(s) received at ambient temperature; placed on ice for transport by courier  
 Ambient Temperature:  Air  Filter

Checked by: 836

**CUSTODY SEAL:**

Cooler  Present and Intact  Present but Not Intact  Not Present  N/A  
 Sample(s)  Present and Intact  Present but Not Intact  Not Present  N/A

Checked by: 836  
 Checked by: 965

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers			
<input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time			
Sampler's name indicated on COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses			
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Container(s) for certain analysis free of headspace .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500)			
<input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:**

(Trip Blank Lot Number: \_\_\_\_\_)

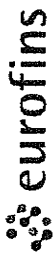
**Aqueous:**  VOA  VOAh  VOAn<sub>2</sub>  100PJ  100PJna<sub>2</sub>  125AGB  125AGBh  125AGBp  125PB  
 125PBz<sub>na</sub>  250AGB  250CGB  250CGBs  250PB  250PBn  500AGB  500AGJ  500AGJs  
 500PB  1AGB  1AGBna<sub>2</sub>  1AGBs  1PB  1PBna  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  
**Solid:**  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (P)  EnCores® (\_\_\_\_)  TerraCores® (3)  100PJ  
**Air:**  Tedlar™  Canister  Sorbent Tube  PUF  \_\_\_\_\_ Other Matrix (\_\_\_\_):  \_\_\_\_\_  \_\_\_\_\_

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO<sub>3</sub>, na = NaOH, na<sub>2</sub> = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, p = H<sub>3</sub>PO<sub>4</sub>, Labeled/Checked by: 965  
 s = H<sub>2</sub>SO<sub>4</sub>, u = ultra-pure, z<sub>na</sub> = Zn(CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> + NaOH Reviewed by: 836

Return to Contents





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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494  
 For courier service / sample drop off information, contact us26\_sales@eurofins.com or call us.

CHAIN-OF-CUSTODY RECORD

DATE: 8/5/2015  
 PAGE: 2 OF 2

WORKING LAB USE ONLY  
 15-08-0319

LABORATORY CLIENT: **Alta Environmental**  
 ADDRESS: **3777 Long Beach Blvd**  
 CITY: **Long Beach** STATE: **CA** ZIP: **90807**  
 TEL: **562 495 5777** E-MAIL: **store\_ridener@altaenvironment.com**  
 TURNAROUND TIME (Rush surcharges may apply to any TAT not STANDARD):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD  
 EDD:  COELT EDF  OTHER  
 SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NO.: **Panama Street Site**  
 PROJECT CONTACT: **Steve Ridener**  
 GLOBAL ID:  
 LOG CODE:  
 P.O. NO.: **MC00-15-5422**  
 LAB CONTACT OR QUOTE NO.:

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filled	TPH (g) <input type="checkbox"/> GRO	TPH (g) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C38 <input checked="" type="checkbox"/> C6-C14	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6			
		DATE	TIME																					
	B6-5	8/5/15	10:20	Soil	3 4045/171						X		X											
	B6-10		10:25		1 sleeve						X		X											
	B8-2.5		11:00								X		X											
	B8-5		11:10								X		X											
	B8-10		11:15		1 sleeve						X		X											
	B8-13		11:30								X		X											
	B9-2.5		14:00		504,175						X		X											
	B9-5		14:10		1 sleeve						X		X											
	B9-10		14:15								X		X											
	Field Blank										X		X											

REQUESTED ANALYSES  
 Please check box or fill in blank as needed.

Received by: (Signature/Affiliation) **Steve Ridener** Date: **8/5/15** Time: **1700**  
 Received by: (Signature/Affiliation) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: (Signature/Affiliation) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_







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**WORK ORDER NUMBER: 15-08-0318**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For**

**Client:** Alta Environmental

**Client Project Name:** 12870 Panama Street / MCGU-15-5422

**Attention:** Steve Ridenour  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

*Vikas Patel*

Approved for release on 08/19/2015 by:  
Vikas Patel  
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



# Contents

Client Project Name: 12870 Panama Street / MCGU-15-5422  
Work Order Number: 15-08-0318

1	Work Order Narrative. . . . .	3
2	Detections Summary. . . . .	4
3	Client Sample Data. . . . .	5
	3.1 EPA 8015B (M) TPH Motor Oil (Aqueous). . . . .	5
	3.2 EPA 8015B (M) TPH Diesel (Aqueous). . . . .	6
	3.3 EPA 8015B (M) TPH Gasoline (Aqueous). . . . .	7
	3.4 EPA 8260B Volatile Organics + Oxygenates (Aqueous). . . . .	8
4	Quality Control Sample Data. . . . .	17
	4.1 MS/MSD. . . . .	17
	4.2 LCS/LCSD. . . . .	19
5	Sample Analysis Summary. . . . .	23
6	Glossary of Terms and Qualifiers. . . . .	24
7	Chain-of-Custody/Sample Receipt Form. . . . .	25

**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 08/05/15. They were assigned to Work Order 15-08-0318.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



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## Detections Summary

---

Client: Alta Environmental	Work Order: 15-08-0318
3777 Long Beach Blvd., Annex Building	Project Name: 12870 Panama Street / MCGU-15-5422
Long Beach, CA 90802-3335	Received: 08/05/15

Attn: Steve Ridenour

Page 1 of 1

---

**Client SampleID**

<u>Analyte</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	<u>Method</u>	<u>Extraction</u>
B8 (15-08-0318-1) TPH as Diesel	65	HD,ET	50	ug/L	EPA 8015B (M)	EPA 3510C
B11 (15-08-0318-2) TPH as Diesel	37	HD,J,ET	8.0*	ug/L	EPA 8015B (M)	EPA 3510C

Subcontracted analyses, if any, are not included in this summary.

---

\* MDL is shown



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B8</b>	<b>15-08-0318-1-G</b>	<b>08/05/15 12:20</b>	<b>Aqueous</b>	<b>GC 48</b>	<b>08/18/15</b>	<b>08/18/15 22:02</b>	<b>150818B08</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil	ND	250	53	1.00	ET

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	71	68-140	

<b>B11</b>	<b>15-08-0318-2-F</b>	<b>08/05/15 15:30</b>	<b>Aqueous</b>	<b>GC 48</b>	<b>08/18/15</b>	<b>08/18/15 22:18</b>	<b>150818B08</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil	ND	250	53	1.00	ET

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	69	68-140	

<b>Method Blank</b>	<b>099-15-278-980</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 48</b>	<b>08/18/15</b>	<b>08/18/15 20:29</b>	<b>150818B08</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil	ND	250	53	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	83	68-140	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B8</b>	<b>15-08-0318-1-G</b>	<b>08/05/15 12:20</b>	<b>Aqueous</b>	<b>GC 48</b>	<b>08/18/15</b>	<b>08/18/15 22:02</b>	<b>150818B07</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	65	50	8.0	1.00	HD,ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	71	68-140	

<b>B11</b>	<b>15-08-0318-2-F</b>	<b>08/05/15 15:30</b>	<b>Aqueous</b>	<b>GC 48</b>	<b>08/18/15</b>	<b>08/18/15 22:18</b>	<b>150818B07</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	37	50	8.0	1.00	HD,J,ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	69	68-140	

<b>Method Blank</b>	<b>099-15-304-1134</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 48</b>	<b>08/18/15</b>	<b>08/18/15 20:29</b>	<b>150818B07</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	50	8.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	83	68-140	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 5030C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B8</b>	<b>15-08-0318-1-D</b>	<b>08/05/15 12:20</b>	<b>Aqueous</b>	<b>GC 1</b>	<b>08/18/15</b>	<b>08/18/15 23:16</b>	<b>150818L052</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline	ND	50	48	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	59	38-134	

<b>B11</b>	<b>15-08-0318-2-D</b>	<b>08/05/15 15:30</b>	<b>Aqueous</b>	<b>GC 1</b>	<b>08/18/15</b>	<b>08/18/15 23:51</b>	<b>150818L052</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline	ND	50	48	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	54	38-134	

<b>Method Blank</b>	<b>099-12-436-10272</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 1</b>	<b>08/18/15</b>	<b>08/18/15 16:43</b>	<b>150818L052</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline	ND	50	48	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	54	38-134	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8	15-08-0318-1-A	08/05/15 12:20	Aqueous	GC/MS V V	08/18/15	08/18/15 15:43	150818L010

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 2 of 9

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 3 of 9

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	97	75-135	
Toluene-d8	98	80-120	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11	15-08-0318-2-A	08/05/15 15:30	Aqueous	GC/MS V V	08/18/15	08/18/15 16:11	150818L010

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 5 of 9

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 6 of 9

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	100	78-126	
1,2-Dichloroethane-d4	98	75-135	
Toluene-d8	98	80-120	

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-17936	N/A	Aqueous	GC/MS V V	08/18/15	08/18/15 15:09	150818L010

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 8 of 9

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 9 of 9

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	98	78-126	
1,2-Dichloroethane-d4	95	75-135	
Toluene-d8	99	80-120	





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## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-08-1082-3	Sample	Aqueous	GC 1	08/18/15	08/18/15 17:19	150818S017
15-08-1082-3	Matrix Spike	Aqueous	GC 1	08/18/15	08/18/15 17:55	150818S017
15-08-1082-3	Matrix Spike Duplicate	Aqueous	GC 1	08/18/15	08/18/15 18:30	150818S017

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	52.58	2000	1763	86	1735	84	68-122	2	0-18	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: 12870 Panama Street / MCGU-15-5422

Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-08-1104-3	Sample	Aqueous	GC/MS V V	08/18/15	08/18/15 17:12	150818S001
15-08-1104-3	Matrix Spike	Aqueous	GC/MS V V	08/18/15	08/18/15 13:47	150818S001
15-08-1104-3	Matrix Spike Duplicate	Aqueous	GC/MS V V	08/18/15	08/18/15 14:14	150818S001

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	0.9155	50.00	54.61	107	54.24	107	74-122	1	0-21	
Carbon Tetrachloride	ND	50.00	72.17	144	71.20	142	60-144	1	0-21	
Chlorobenzene	ND	50.00	55.62	111	55.44	111	73-120	0	0-22	
1,2-Dibromoethane	ND	50.00	55.96	112	55.29	111	80-122	1	0-20	
1,2-Dichlorobenzene	ND	50.00	55.44	111	54.80	110	70-120	1	0-26	
1,2-Dichloroethane	ND	50.00	53.92	108	53.35	107	64-142	1	0-20	
1,1-Dichloroethene	ND	50.00	51.51	103	53.39	107	52-136	4	0-21	
Ethylbenzene	ND	50.00	57.51	115	56.86	114	77-125	1	0-24	
Toluene	ND	50.00	56.01	112	56.22	112	72-126	0	0-23	
Trichloroethene	ND	50.00	94.56	189	94.98	190	74-128	0	0-22	3
Vinyl Chloride	ND	50.00	51.35	103	50.34	101	67-133	2	0-20	
p/m-Xylene	ND	100.0	109.0	109	108.5	109	63-129	0	0-25	
o-Xylene	ND	50.00	54.92	110	54.38	109	62-128	1	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	53.10	106	52.33	105	68-134	1	0-21	
Tert-Butyl Alcohol (TBA)	43.08	250.0	288.7	98	306.6	105	65-143	6	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	49.77	100	49.23	98	61-139	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	53.27	107	52.64	105	64-136	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	55.47	111	55.02	110	67-133	1	0-20	
Ethanol	ND	500.0	534.4	107	558.6	112	34-178	4	0-58	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-278-980	LCS	Aqueous	GC 48	08/18/15	08/18/15 21:15	150818B08			
099-15-278-980	LCSD	Aqueous	GC 48	08/18/15	08/18/15 21:31	150818B08			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	2000	1553	78	1658	83	75-117	6	0-13	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5422

Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-304-1134	LCS	Aqueous	GC 48	08/18/15	08/18/15 20:44	150818B07			
099-15-304-1134	LCSD	Aqueous	GC 48	08/18/15	08/18/15 21:00	150818B07			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	1990	100	2071	104	75-117	4	0-13	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5422

Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-12-436-10272</b>	<b>LCS</b>	<b>Aqueous</b>	<b>GC 1</b>	<b>08/18/15</b>	<b>08/18/15 16:07</b>	<b>150818L052</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline		2000	1736	87	78-120	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/05/15  
Work Order: 15-08-0318  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: 12870 Panama Street / MCGU-15-5422

Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>099-14-001-17936</b>	<b>LCS</b>	<b>Aqueous</b>	<b>GC/MS V V</b>	<b>08/18/15</b>	<b>08/18/15 13:15</b>	<b>150818L010</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene		50.00	49.66	99	80-120	73-127	
Carbon Tetrachloride		50.00	70.49	141	67-139	55-151	ME
Chlorobenzene		50.00	51.50	103	78-120	71-127	
1,2-Dibromoethane		50.00	52.27	105	80-120	73-127	
1,2-Dichlorobenzene		50.00	52.26	105	63-129	52-140	
1,2-Dichloroethane		50.00	50.28	101	70-130	60-140	
1,1-Dichloroethene		50.00	44.58	89	66-126	56-136	
Ethylbenzene		50.00	53.50	107	80-123	73-130	
Toluene		50.00	51.93	104	80-120	73-127	
Trichloroethene		50.00	50.85	102	80-122	73-129	
Vinyl Chloride		50.00	47.31	95	70-130	60-140	
p/m-Xylene		100.0	102.8	103	75-123	67-131	
o-Xylene		50.00	50.89	102	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)		50.00	49.26	99	69-129	59-139	
Tert-Butyl Alcohol (TBA)		250.0	241.3	97	69-129	59-139	
Diisopropyl Ether (DIPE)		50.00	45.75	91	68-128	58-138	
Ethyl-t-Butyl Ether (ETBE)		50.00	49.44	99	63-135	51-147	
Tert-Amyl-Methyl Ether (TAME)		50.00	52.09	104	67-133	56-144	
Ethanol		500.0	496.7	99	42-168	21-189	

Total number of LCS compounds: 19

Total number of ME compounds: 1

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

## Sample Analysis Summary Report

Work Order: 15-08-0318

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 8015B (M)	EPA 3510C	682	GC 48	1
EPA 8015B (M)	EPA 5030C	902	GC 1	2
EPA 8260B	EPA 5030C	966	GC/MS V V	2

## Glossary of Terms and Qualifiers

Work Order: 15-08-0318

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.





SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Alta Env'l.

DATE: 08 / 5 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 3.6 °C (w/ CF): 3.4 °C;  Blank  Sample

Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature:  Air  Filter

Checked by: 836

CUSTODY SEAL:

Cooler  Present and Intact  Present but Not Intact  Not Present  N/A

Checked by: 836

Sample(s)  Present and Intact  Present but Not Intact  Not Present  N/A

Checked by: 965

SAMPLE CONDITION:

Chain-of-Custody (COC) document(s) received with samples .....  Yes  No  N/A

COC document(s) received complete .....  Yes  No  N/A

Sampling date  Sampling time  Matrix  Number of containers

No analysis requested  Not relinquished  No relinquished date  No relinquished time

Sampler's name indicated on COC .....  Yes  No  N/A

Sample container label(s) consistent with COC .....  Yes  No  N/A

Sample container(s) intact and in good condition .....  Yes  No  N/A

Proper containers for analyses requested .....  Yes  No  N/A

Sufficient volume/mass for analyses requested .....  Yes  No  N/A

Samples received within holding time .....  Yes  No  N/A

Aqueous samples for certain analyses received within 15-minute holding time

pH  Residual Chlorine  Dissolved Sulfide  Dissolved Oxygen .....  Yes  No  N/A

Proper preservation chemical(s) noted on COC and/or sample container .....  Yes  No  N/A

Unpreserved aqueous sample(s) received for certain analyses

Volatile Organics  Total Metals  Dissolved Metals

Container(s) for certain analysis free of headspace .....  Yes  No  N/A

Volatile Organics  Dissolved Gases (RSK-175)  Dissolved Oxygen (SM 4500)

Carbon Dioxide (SM 4500)  Ferrous Iron (SM 3500)  Hydrogen Sulfide (Hach)

Tedlar™ bag(s) free of condensation .....  Yes  No  N/A

CONTAINER TYPE: (Trip Blank Lot Number: 150903A)

Aqueous:  VOA  VOA<sup>s</sup>  VOAn<sub>2</sub>  100PJ  100PJna<sub>2</sub>  125AGB  125AGBh  125AGBp  125PB

125PBz<sub>anna</sub>  250AGB  250CGB  250CGBs  250PB  250PBn  500AGB  500AGJ  500AGJs

500PB  1AGB  1AGBna<sub>2</sub>  1AGBs  1PB  1PBna  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

Solid:  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (\_\_\_\_\_)  EnCores® (\_\_\_\_\_)  TerraCores® (\_\_\_\_\_)  \_\_\_\_\_

Air:  Tedlar™  Canister  Sorbent Tube  PUF  \_\_\_\_\_ Other Matrix (\_\_\_\_\_)  \_\_\_\_\_  \_\_\_\_\_

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO<sub>3</sub>, na = NaOH, na<sub>2</sub> = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, p = H<sub>3</sub>PO<sub>4</sub>, Labeled/Checked by: 965

s = H<sub>2</sub>SO<sub>4</sub>, u = ultra-pure, z<sub>anna</sub> = Zn(CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> + NaOH Reviewed by: 681

Return to Contents







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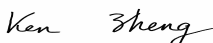
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FDA#	2030513
LA City#	10261
ELAP#s	2789
	2790
	2122

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FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

### CASE NARRATIVE

Authorized Signature Name / Title (print)	Ken Zheng, President
Signature / Date	 Ken Zheng, President 08/13/2015 10:27:32
Laboratory Job No. (Certificate of Analysis No.)	1508-00066
Project Name / No.	MCGU-15-5422 / 12870 Panama Street, Los Angeles
Dates Sampled (from/to)	08/10/15 To 08/10/15
Dates Received (from/to)	08/10/15 To 08/10/15
Dates Reported (from/to)	08/13/15 To 8/13/2015
Chains of Custody Received	Yes

Comments:

Subcontracting

Organic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact



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Laboratory Job# 1508-00066

Positive Results (Organic Compounds)											
Sample	Analyte	Result	Qual	Units	RL	Sample	Analyte	Result	Qual	Units	RL
B11-6	Benzene	0.060		µg/L	0.050	B11-6	Toluene	0.22		µg/L	0.10
B11-6	m,p-Xylenes	0.16	J	µg/L	0.20	B11-6	o-Xylene	0.10		µg/L	0.10
B11-9.5	Benzene	0.081		µg/L	0.050	B11-9.5	Toluene	0.10		µg/L	0.10
B12-5	Benzene	0.044	J	µg/L	0.050	B12-5	Tetrachloroethene	0.47		µg/L	0.10
B12-5	Toluene	0.13		µg/L	0.10	B12-5	Trichloroethene	0.076	J	µg/L	0.10
B12-5	m,p-Xylenes	0.17	J	µg/L	0.20	B12-5	o-Xylene	0.058	J	µg/L	0.10
B12-10	Benzene	0.041	J	µg/L	0.050	B12-10	Tetrachloroethene	0.40		µg/L	0.10
B12-10	Trichloroethene	0.099	J	µg/L	0.10	B12-10-DUP	Benzene	0.045	J	µg/L	0.050
B12-10-DUP	Tetrachloroethene	0.40		µg/L	0.10	B12-10-DUP	Trichloroethene	0.096	J	µg/L	0.10
B10-5	Toluene	0.11		µg/L	0.10	B10-5	Trichloroethene	0.29		µg/L	0.10
B10-5	m,p-Xylenes	0.12	J	µg/L	0.20	B10-10	Trichloroethene	0.16		µg/L	0.10
B9-5	Benzene	0.061		µg/L	0.050	B9-5	Toluene	0.15		µg/L	0.10
B9-5	m,p-Xylenes	0.13	J	µg/L	0.20	B8-5	Benzene	0.093		µg/L	0.050
B8-5	Ethylbenzene	0.094	J	µg/L	0.10	B8-5	Toluene	0.37		µg/L	0.10
B8-5	m,p-Xylenes	0.27		µg/L	0.20	B8-5	o-Xylene	0.080	J	µg/L	0.10
B7-5	Benzene	0.055		µg/L	0.050	B7-5	Toluene	0.14		µg/L	0.10
B7-5	m,p-Xylenes	0.11	J	µg/L	0.20	B7-10	Toluene	0.060	J	µg/L	0.10
B7-10-DUP	Toluene	0.063	J	µg/L	0.10						





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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 001 B5-5-1PV								Date & Time Sampled: 08/10/15 @	8:16	
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 1										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	8:51	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Benzene	<0.036		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	8:51	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	8:51	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	8:51	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	8:51	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	8:51	HXE
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	8:51	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	8:51	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	8:51	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	8:51	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE

The data and information on this, and other accompanying documents, represent only the sample(s) analyzed and is rendered upon condition that it is not to be reproduced, wholly or in part, for advertising or other purposes without approval from the laboratory.

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### 1508-00066

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**STEVEN R. RIDENOUR, PG**  
**3777 LONG BEACH BLVD.**  
**ANNEX BUILDING**  
**LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 001 B5-5-1PV								Date & Time Sampled: 08/10/15 @ 8:16		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 1										
.....continued										
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	8:51	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	8:51	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	8:51	HXE
Methyl-t-butyl Ether (MTBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	8:51	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Toluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE





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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
 STEVEN R. RIDENOUR, PG  
 3777 LONG BEACH BLVD.  
 ANNEX BUILDING  
 LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
 Date Received 08/10/15  
 Invoice No. 73918  
 Cust # A191  
 Permit Number  
 Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 001 B5-5-1PV								Date & Time Sampled:		08/10/15 @ 8:16
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 1										
.....continued										
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	8:51	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	8:51	HXE
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	8:51	HXE
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	8:51	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	8:51	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	8:51	HXE
[VOC Surrogates]										
Dibromofluoromethane	104		%REC	EPA 8260B			70-130	08/10/15	8:51	HXE
Toluene-D8	105		%REC	EPA 8260B			70-130	08/10/15	8:51	HXE
Bromofluorobenzene	96		%REC	EPA 8260B			70-130	08/10/15	8:51	HXE
Sample: 002 B5-5-3PV								Date & Time Sampled:		08/10/15 @ 8:43
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	9:13	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Benzene	<0.036		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	9:13	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE



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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 002 B5-5-3PV								Date & Time Sampled: 08/10/15 @ 8:43		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	9:13	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	9:13	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	9:13	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	9:13	HXE
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	9:13	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	9:13	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	9:13	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	9:13	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE

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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 002 B5-5-3PV								Date & Time Sampled: 08/10/15 @ 8:43		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	9:13	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	9:13	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	9:13	HXE
Methyl-t-butyl Ether (MtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	9:13	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Toluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	9:13	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	9:13	HXE



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**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 002 B5-5-3PV Date & Time Sampled: 08/10/15 @ 8:43										
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	9:13	HXE
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	9:13	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:13	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	9:13	HXE
[VOC Surrogates]										
Dibromofluoromethane	118		%REC	EPA 8260B			70-130	08/10/15	9:13	HXE
Toluene-D8	101		%REC	EPA 8260B			70-130	08/10/15	9:13	HXE
Bromofluorobenzene	98		%REC	EPA 8260B			70-130	08/10/15	9:13	HXE
Sample: 003 B5-5-10PV Date & Time Sampled: 08/10/15 @ 9:10										
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 10										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	9:35	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Benzene	<0.036		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	9:35	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	9:35	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	9:35	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	9:35	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	9:35	HXE



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## CERTIFICATE OF ANALYSIS

### 1508-00066

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 003 B5-5-10PV								Date & Time Sampled: 08/10/15 @ 9:10		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 10										
.....continued										
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	9:35	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	9:35	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	9:35	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	9:35	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Diisopropyl Ether (DIPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE

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**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
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Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 003 B5-5-10PV								Date & Time Sampled: 08/10/15 @ 9:10		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 10										
.....continued										
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	9:35	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	9:35	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	9:35	HXE
Methyl-t-butyl Ether (MTBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	9:35	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Toluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	9:35	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	9:35	HXE
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	9:35	HXE
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	9:35	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:35	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	9:35	HXE

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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
 STEVEN R. RIDENOUR, PG  
 3777 LONG BEACH BLVD.  
 ANNEX BUILDING  
 LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
 Date Received 08/10/15  
 Invoice No. 73918  
 Cust # A191  
 Permit Number  
 Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 003 B5-5-10PV Date & Time Sampled: 08/10/15 @ 9:10 Sample Matrix: Soil Vapor Purge Volume Sampled: 10 .....continued										
[VOC Surrogates]										
Dibromofluoromethane	117		%REC	EPA 8260B			70-130	08/10/15	9:35	HXE
Toluene-D8	100		%REC	EPA 8260B			70-130	08/10/15	9:35	HXE
Bromofluorobenzene	98		%REC	EPA 8260B			70-130	08/10/15	9:35	HXE
Sample: 004 B5-10 Date & Time Sampled: 08/10/15 @ 9:44 Sample Matrix: Soil Vapor Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	9:57	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Benzene	<0.036		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	9:57	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	9:57	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	9:57	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	9:57	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	9:57	HXE
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	9:57	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	9:57	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE



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Cust # A191  
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Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 004 B5-10								Date & Time Sampled: 08/10/15 @ 9:44		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	9:57	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	9:57	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	9:57	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	9:57	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	9:57	HXE
Methyl-t-butyl Ether (MtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE

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Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 004 B5-10								Date & Time Sampled: 08/10/15 @ 9:44		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	9:57	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Toluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	9:57	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	9:57	HXE
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	9:57	HXE
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	9:57	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	9:57	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	9:57	HXE
[VOC Surrogates]										
Dibromofluoromethane	117		%REC	EPA 8260B			70-130	08/10/15	9:57	HXE
Toluene-D8	99		%REC	EPA 8260B			70-130	08/10/15	9:57	HXE
Bromofluorobenzene	97		%REC	EPA 8260B			70-130	08/10/15	9:57	HXE

Sample: 005 B4-5  
Sample Matrix: Soil Vapor

Date & Time Sampled: 08/10/15 @ 10:02



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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 005 B4-5								Date & Time Sampled:	08/10/15	@ 10:02
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	10:20	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Benzene	<0.036		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	10:20	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	10:20	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	10:20	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	10:20	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	10:20	HXE
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	10:20	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	10:20	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	10:20	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	10:20	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE

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## CERTIFICATE OF ANALYSIS

### 1508-00066

ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807

Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 005 B4-5								Date & Time Sampled:	08/10/15	@ 10:02
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	10:20	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	10:20	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	10:20	HXE
Methyl-t-butyl Ether (MTBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	10:20	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Toluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE

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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 005 B4-5								Date & Time Sampled:		08/10/15 @ 10:02
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	10:20	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	10:20	HXE
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	10:20	HXE
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	10:20	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:20	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	10:20	HXE
[VOC Surrogates]										
Dibromofluoromethane	117		%REC	EPA 8260B			70-130	08/10/15	10:20	HXE
Toluene-D8	102		%REC	EPA 8260B			70-130	08/10/15	10:20	HXE
Bromofluorobenzene	96		%REC	EPA 8260B			70-130	08/10/15	10:20	HXE
Sample: 006 B4-10								Date & Time Sampled:		08/10/15 @ 10:26
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	10:42	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Benzene	<0.036		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	10:42	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE



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Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 006 B4-10								Date & Time Sampled: 08/10/15 @ 10:26		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	10:42	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	10:42	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	10:42	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	10:42	HXE
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	10:42	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	10:42	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	10:42	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	10:42	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE

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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 006 B4-10								Date & Time Sampled:	08/10/15	@ 10:26
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	10:42	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	10:42	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	10:42	HXE
Methyl-t-butyl Ether (MtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	10:42	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Toluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	10:42	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	10:42	HXE



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**1508-00066**

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STEVEN R. RIDENOUR, PG  
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**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 006 B4-10								Date & Time Sampled:		08/10/15 @ 10:26
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	10:42	HXE
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	10:42	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	10:42	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	10:42	HXE
[VOC Surrogates]										
Dibromofluoromethane	119		%REC	EPA 8260B			70-130	08/10/15	10:42	HXE
Toluene-D8	101		%REC	EPA 8260B			70-130	08/10/15	10:42	HXE
Bromofluorobenzene	97		%REC	EPA 8260B			70-130	08/10/15	10:42	HXE
Sample: 007 B11-6								Date & Time Sampled:		08/10/15 @ 10:47
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	11:04	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Benzene	0.060		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	11:04	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	11:04	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	11:04	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	11:04	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	11:04	HXE



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**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 007 B11-6								Date & Time Sampled: 08/10/15 @ 10:47		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	11:04	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	11:04	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	11:04	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	11:04	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Diisopropyl Ether (DIPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE

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### 1508-00066

ALTA ENVIRONMENTAL  
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Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
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Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 007 B11-6								Date & Time Sampled:	08/10/15	@ 10:47
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	11:04	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	11:04	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	11:04	HXE
Methyl-t-butyl Ether (MTBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	11:04	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Toluene	0.22		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	11:04	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	11:04	HXE
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	11:04	HXE
m,p-Xylenes	0.16	J	µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	11:04	HXE
o-Xylene	0.10		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:04	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	11:04	HXE

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## CERTIFICATE OF ANALYSIS

### 1508-00066

**ALTA ENVIRONMENTAL**  
**STEVEN R. RIDENOUR, PG**  
**3777 LONG BEACH BLVD.**  
**ANNEX BUILDING**  
**LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 007 B11-6 Date & Time Sampled: 08/10/15 @ 10:47 Sample Matrix: Soil Vapor Purge Volume Sampled: 3 .....continued										
[VOC Surrogates]										
Dibromofluoromethane	117		%REC	EPA 8260B			70-130	08/10/15	11:04	HXE
Toluene-D8	100		%REC	EPA 8260B			70-130	08/10/15	11:04	HXE
Bromofluorobenzene	96		%REC	EPA 8260B			70-130	08/10/15	11:04	HXE
Sample: 008 B11-9.5 Date & Time Sampled: 08/10/15 @ 11:11 Sample Matrix: Soil Vapor Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	11:26	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Benzene	0.081		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	11:26	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	11:26	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	11:26	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	11:26	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	11:26	HXE
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	11:26	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	11:26	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE

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Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 008 B11-9.5								Date & Time Sampled: 08/10/15 @ 11:11		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	11:26	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	11:26	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	11:26	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	11:26	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	11:26	HXE
Methyl-t-butyl Ether (MtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE

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### 1508-00066

ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807

Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 008 B11-9.5								Date & Time Sampled: 08/10/15 @ 11:11		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	11:26	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Toluene	0.10		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	11:26	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	11:26	HXE
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	11:26	HXE
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	11:26	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:26	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	11:26	HXE
[VOC Surrogates]										
Dibromofluoromethane	114		%REC	EPA 8260B			70-130	08/10/15	11:26	HXE
Toluene-D8	104		%REC	EPA 8260B			70-130	08/10/15	11:26	HXE
Bromofluorobenzene	99		%REC	EPA 8260B			70-130	08/10/15	11:26	HXE

Sample: 009 B12-5  
Sample Matrix: Soil Vapor

Date & Time Sampled: 08/10/15 @ 11:31



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**1508-00066**

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ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech	
Sample: 009 B12-5							Date & Time Sampled:	08/10/15	@	11:31	
Sample Matrix: Soil Vapor											
Purge Volume Sampled: 3											
[VOCs by GCMS]											
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	11:49	HXE	
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
Benzene	0.044	J	µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	11:49	HXE	
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	11:49	HXE	
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	11:49	HXE	
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	11:49	HXE	
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	11:49	HXE	
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	11:49	HXE	
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	11:49	HXE	
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	11:49	HXE	
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	11:49	HXE	
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE	

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Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 009 B12-5								Date & Time Sampled:	08/10/15	@ 11:31
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	11:49	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	11:49	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	11:49	HXE
Methyl-t-butyl Ether (MTBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	11:49	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
Tetrachloroethene	0.47		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
Toluene	0.13		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE

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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 009 B12-5								Date & Time Sampled: 08/10/15 @ 11:31		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
Trichloroethene	0.076	J	µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	11:49	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	11:49	HXE
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	11:49	HXE
m,p-Xylenes	0.17	J	µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	11:49	HXE
o-Xylene	0.058	J	µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	11:49	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	11:49	HXE
[VOC Surrogates]										
Dibromofluoromethane	114		%REC	EPA 8260B			70-130	08/10/15	11:49	HXE
Toluene-D8	101		%REC	EPA 8260B			70-130	08/10/15	11:49	HXE
Bromofluorobenzene	97		%REC	EPA 8260B			70-130	08/10/15	11:49	HXE
Sample: 010 B12-10								Date & Time Sampled: 08/10/15 @ 11:57		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	12:12	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Benzene	0.041	J	µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	12:12	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE



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### 1508-00066

ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807

Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 010 B12-10								Date & Time Sampled: 08/10/15 @ 11:57		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	12:12	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	12:12	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	12:12	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	12:12	HXE
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	12:12	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	12:12	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	12:12	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	12:12	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE

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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 010 B12-10							Date & Time Sampled:	08/10/15	@	11:57
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	12:12	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	12:12	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	12:12	HXE
Methyl-t-butyl Ether (MtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	12:12	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Tetrachloroethene	0.40		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Toluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Trichloroethene	0.099	J	µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	12:12	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	12:12	HXE

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Date Reported 08/13/15  
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Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 010 B12-10								Date & Time Sampled: 08/10/15 @ 11:57		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	12:12	HXE
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	12:12	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:12	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	12:12	HXE
[VOC Surrogates]										
Dibromofluoromethane	116		%REC	EPA 8260B			70-130	08/10/15	12:12	HXE
Toluene-D8	101		%REC	EPA 8260B			70-130	08/10/15	12:12	HXE
Bromofluorobenzene	97		%REC	EPA 8260B			70-130	08/10/15	12:12	HXE
Sample: 011 B12-10-DUP								Date & Time Sampled: 08/10/15 @ 11:57		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	12:34	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Benzene	0.045	J	µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	12:34	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	12:34	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	12:34	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	12:34	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	12:34	HXE



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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 011 B12-10-DUP								Date & Time Sampled: 08/10/15 @ 11:57		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	12:34	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	12:34	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	12:34	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	12:34	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Diisopropyl Ether (DIPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE



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### 1508-00066

**ALTA ENVIRONMENTAL**  
**STEVEN R. RIDENOUR, PG**  
**3777 LONG BEACH BLVD.**  
**ANNEX BUILDING**  
**LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 011 B12-10-DUP								Date & Time Sampled: 08/10/15 @ 11:57		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	12:34	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	12:34	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	12:34	HXE
Methyl-t-butyl Ether (MTBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	12:34	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Tetrachloroethene	0.40		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Toluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Trichloroethene	0.096	J	µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	12:34	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	12:34	HXE
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	12:34	HXE
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	12:34	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:34	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	12:34	HXE

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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
 STEVEN R. RIDENOUR, PG  
 3777 LONG BEACH BLVD.  
 ANNEX BUILDING  
 LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
 Date Received 08/10/15  
 Invoice No. 73918  
 Cust # A191  
 Permit Number  
 Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 011 B12-10-DUP Date & Time Sampled: 08/10/15 @ 11:57 Sample Matrix: Soil Vapor Purge Volume Sampled: 3 .....continued										
[VOC Surrogates]										
Dibromofluoromethane	116		%REC	EPA 8260B			70-130	08/10/15	12:34	HXE
Toluene-D8	101		%REC	EPA 8260B			70-130	08/10/15	12:34	HXE
Bromofluorobenzene	96		%REC	EPA 8260B			70-130	08/10/15	12:34	HXE
Sample: 012 B10-5 Date & Time Sampled: 08/10/15 @ 12:40 Sample Matrix: Soil Vapor Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	12:57	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
Benzene	<0.036		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	12:57	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	12:57	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	12:57	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	12:57	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	12:57	HXE
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	12:57	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	12:57	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE



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**1508-00066**

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**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 012 B10-5								Date & Time Sampled: 08/10/15 @ 12:40		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	12:57	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	12:57	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	12:57	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	12:57	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	12:57	HXE
Methyl-t-butyl Ether (MtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE

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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech	
Sample: 012 B10-5								Date & Time Sampled:	08/10/15	@ 12:40	
Sample Matrix: Soil Vapor											
Purge Volume Sampled: 3											
.....continued											
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	12:57	HXE	
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE	
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE	
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE	
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE	
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE	
Toluene	0.11		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE	
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE	
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE	
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE	
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE	
Trichloroethene	0.29		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE	
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	12:57	HXE	
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE	
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	12:57	HXE	
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE	
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE	
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	12:57	HXE	
m,p-Xylenes	0.12	J	µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	12:57	HXE	
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	12:57	HXE	
[VOC Vapor Sampling Tracer]											
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	12:57	HXE	
[VOC Surrogates]											
Dibromofluoromethane	118		%REC	EPA 8260B			70-130	08/10/15	12:57	HXE	
Toluene-D8	100		%REC	EPA 8260B			70-130	08/10/15	12:57	HXE	
Bromofluorobenzene	96		%REC	EPA 8260B			70-130	08/10/15	12:57	HXE	

Sample: 013 B10-10  
Sample Matrix: Soil Vapor

Date & Time Sampled: 08/10/15 @ 12:59



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LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 013 B10-10								Date & Time Sampled: 08/10/15 @ 12:59		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	1:19	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Benzene	<0.036		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	1:19	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	1:19	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	1:19	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	1:19	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	1:19	HXE
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	1:19	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	1:19	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	1:19	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	1:19	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE

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LONG BEACH, CA 90807

Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles

Date Reported 08/13/15  
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Cust # A191  
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Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 013 B10-10								Date & Time Sampled: 08/10/15 @ 12:59		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	1:19	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	1:19	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	1:19	HXE
Methyl-t-butyl Ether (MTBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	1:19	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Toluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE



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 3777 LONG BEACH BLVD.  
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 LONG BEACH, CA 90807**

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Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 013 B10-10								Date & Time Sampled:		08/10/15 @ 12:59
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Trichloroethene	0.16		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	1:19	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	1:19	HXE
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	1:19	HXE
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	1:19	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:19	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	1:19	HXE
[VOC Surrogates]										
Dibromofluoromethane	117		%REC	EPA 8260B			70-130	08/10/15	1:19	HXE
Toluene-D8	101		%REC	EPA 8260B			70-130	08/10/15	1:19	HXE
Bromofluorobenzene	97		%REC	EPA 8260B			70-130	08/10/15	1:19	HXE
Sample: 014 B9-5								Date & Time Sampled:		08/10/15 @ 13:29
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	1:41	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Benzene	0.061		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	1:41	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE



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Invoice No. 73918  
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Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 014 B9-5								Date & Time Sampled: 08/10/15 @ 13:29		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	1:41	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	1:41	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	1:41	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	1:41	HXE
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	1:41	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	1:41	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	1:41	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	1:41	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE

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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 014 B9-5								Date & Time Sampled:	08/10/15	@ 13:29
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	1:41	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	1:41	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	1:41	HXE
Methyl-t-butyl Ether (MtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	1:41	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Toluene	0.15		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	1:41	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	1:41	HXE



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**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 014 B9-5								Date & Time Sampled:		08/10/15 @ 13:29
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	1:41	HXE
m,p-Xylenes	0.13	J	µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	1:41	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	1:41	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	1:41	HXE
[VOC Surrogates]										
Dibromofluoromethane	115		%REC	EPA 8260B			70-130	08/10/15	1:41	HXE
Toluene-D8	100		%REC	EPA 8260B			70-130	08/10/15	1:41	HXE
Bromofluorobenzene	94		%REC	EPA 8260B			70-130	08/10/15	1:41	HXE
Sample: 015 B9-10								Date & Time Sampled:		08/10/15 @ 13:41
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	2:03	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Benzene	<0.036		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	2:03	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	2:03	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	2:03	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	2:03	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	2:03	HXE

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## CERTIFICATE OF ANALYSIS

### 1508-00066

**ALTA ENVIRONMENTAL**  
**STEVEN R. RIDENOUR, PG**  
**3777 LONG BEACH BLVD.**  
**ANNEX BUILDING**  
**LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 015 B9-10								Date & Time Sampled: 08/10/15 @ 13:41		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	2:03	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	2:03	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	2:03	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	2:03	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Diisopropyl Ether (DIPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE

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**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
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Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 015 B9-10								Date & Time Sampled: 08/10/15 @ 13:41		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	2:03	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	2:03	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	2:03	HXE
Methyl-t-butyl Ether (MTBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	2:03	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Toluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	2:03	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	2:03	HXE
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	2:03	HXE
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	2:03	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:03	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	2:03	HXE



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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
 STEVEN R. RIDENOUR, PG  
 3777 LONG BEACH BLVD.  
 ANNEX BUILDING  
 LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
 Date Received 08/10/15  
 Invoice No. 73918  
 Cust # A191  
 Permit Number  
 Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 015 B9-10 Date & Time Sampled: 08/10/15 @ 13:41 Sample Matrix: Soil Vapor Purge Volume Sampled: 3 .....continued										
[VOC Surrogates]										
Dibromofluoromethane	117		%REC	EPA 8260B			70-130	08/10/15	2:03	HXE
Toluene-D8	103		%REC	EPA 8260B			70-130	08/10/15	2:03	HXE
Bromofluorobenzene	95		%REC	EPA 8260B			70-130	08/10/15	2:03	HXE
Sample: 016 B8-5 Date & Time Sampled: 08/10/15 @ 14:11 Sample Matrix: Soil Vapor Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	2:26	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Benzene	0.093		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	2:26	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	2:26	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	2:26	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	2:26	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	2:26	HXE
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	2:26	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	2:26	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE





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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 016 B8-5								Date & Time Sampled:	08/10/15	@ 14:11
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	2:26	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	2:26	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Ethylbenzene	0.094	J	µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	2:26	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	2:26	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	2:26	HXE
Methyl-t-butyl Ether (MtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE

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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 016 B8-5								Date & Time Sampled:	08/10/15	@ 14:11
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	2:26	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Toluene	0.37		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	2:26	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	2:26	HXE
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	2:26	HXE
m,p-Xylenes	0.27		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	2:26	HXE
o-Xylene	0.080	J	µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:26	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	2:26	HXE
[VOC Surrogates]										
Dibromofluoromethane	118		%REC	EPA 8260B			70-130	08/10/15	2:26	HXE
Toluene-D8	101		%REC	EPA 8260B			70-130	08/10/15	2:26	HXE
Bromofluorobenzene	96		%REC	EPA 8260B			70-130	08/10/15	2:26	HXE

Sample: 017 B8-10  
Sample Matrix: Soil Vapor

Date & Time Sampled: 08/10/15 @ 14:28



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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 017 B8-10								Date & Time Sampled: 08/10/15 @ 14:28		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	2:49	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
Benzene	<0.036		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	2:49	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	2:49	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	2:49	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	2:49	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	2:49	HXE
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	2:49	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	2:49	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	2:49	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	2:49	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE

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Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech	
Sample: 017 B8-10							Date & Time Sampled:	08/10/15	@	14:28	
Sample Matrix: Soil Vapor											
Purge Volume Sampled: 3											
.....continued											
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	2:49	HXE	
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	2:49	HXE	
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	2:49	HXE	
Methyl-t-butyl Ether (MTBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	2:49	HXE	
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
Toluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE	

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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
 STEVEN R. RIDENOUR, PG  
 3777 LONG BEACH BLVD.  
 ANNEX BUILDING  
 LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
 Date Received 08/10/15  
 Invoice No. 73918  
 Cust # A191  
 Permit Number  
 Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 017 B8-10								Date & Time Sampled:		08/10/15 @ 14:28
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	2:49	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	2:49	HXE
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	2:49	HXE
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	2:49	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	2:49	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	2:49	HXE
[VOC Surrogates]										
Dibromofluoromethane	117		%REC	EPA 8260B			70-130	08/10/15	2:49	HXE
Toluene-D8	103		%REC	EPA 8260B			70-130	08/10/15	2:49	HXE
Bromofluorobenzene	96		%REC	EPA 8260B			70-130	08/10/15	2:49	HXE
Sample: 018 B6-5								Date & Time Sampled:		08/10/15 @ 14:54
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	3:11	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Benzene	<0.036		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	3:11	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE



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## CERTIFICATE OF ANALYSIS

### 1508-00066

ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807

Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 018 B6-5								Date & Time Sampled:	08/10/15	@ 14:54
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	3:11	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	3:11	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	3:11	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	3:11	HXE
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	3:11	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	3:11	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	3:11	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	3:11	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE

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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 018 B6-5								Date & Time Sampled: 08/10/15 @ 14:54		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	3:11	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	3:11	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	3:11	HXE
Methyl-t-butyl Ether (MtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	3:11	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Toluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	3:11	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	3:11	HXE



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**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 018 B6-5 Date & Time Sampled: 08/10/15 @ 14:54 Sample Matrix: Soil Vapor Purge Volume Sampled: 3 .....continued										
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	3:11	HXE
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	3:11	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:11	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	3:11	HXE
[VOC Surrogates]										
Dibromofluoromethane	119		%REC	EPA 8260B			70-130	08/10/15	3:11	HXE
Toluene-D8	103		%REC	EPA 8260B			70-130	08/10/15	3:11	HXE
Bromofluorobenzene	97		%REC	EPA 8260B			70-130	08/10/15	3:11	HXE
Sample: 019 B6-10 Date & Time Sampled: 08/10/15 @ 15:18 Sample Matrix: Soil Vapor Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	3:34	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Benzene	<0.036		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	3:34	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	3:34	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	3:34	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	3:34	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	3:34	HXE





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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 019 B6-10								Date & Time Sampled: 08/10/15 @ 15:18		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	3:34	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	3:34	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	3:34	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	3:34	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Diisopropyl Ether (DIPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE



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### 1508-00066

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3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 019 B6-10								Date & Time Sampled: 08/10/15 @ 15:18		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	3:34	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	3:34	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	3:34	HXE
Methyl-t-butyl Ether (MTBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	3:34	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Toluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	3:34	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	3:34	HXE
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	3:34	HXE
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	3:34	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	3:34	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	3:34	HXE

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## CERTIFICATE OF ANALYSIS

### 1508-00066

**ALTA ENVIRONMENTAL**  
**STEVEN R. RIDENOUR, PG**  
**3777 LONG BEACH BLVD.**  
**ANNEX BUILDING**  
**LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 019 B6-10 Date & Time Sampled: 08/10/15 @ 15:18 Sample Matrix: Soil Vapor Purge Volume Sampled: 3 .....continued										
[VOC Surrogates]										
Dibromofluoromethane	119		%REC	EPA 8260B			70-130	08/10/15	3:34	HXE
Toluene-D8	101		%REC	EPA 8260B			70-130	08/10/15	3:34	HXE
Bromofluorobenzene	96		%REC	EPA 8260B			70-130	08/10/15	3:34	HXE
Sample: 020 B7-5 Date & Time Sampled: 08/10/15 @ 16:21 Sample Matrix: Soil Vapor Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	7:08	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
Benzene	0.055		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	7:08	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	7:08	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	7:08	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	7:08	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	7:08	HXE
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	7:08	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	7:08	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE

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Cust # A191  
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Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 020 B7-5								Date & Time Sampled: 08/10/15 @ 16:21		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	7:08	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	7:08	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	7:08	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	7:08	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	7:08	HXE
Methyl-t-butyl Ether (MtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE

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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech	
Sample: 020 B7-5								Date & Time Sampled:	08/10/15	@ 16:21	
Sample Matrix: Soil Vapor											
Purge Volume Sampled: 3											
.....continued											
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	7:08	HXE	
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE	
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE	
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE	
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE	
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE	
Toluene	0.14		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE	
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE	
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE	
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE	
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE	
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE	
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	7:08	HXE	
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE	
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	7:08	HXE	
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE	
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE	
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	7:08	HXE	
m,p-Xylenes	0.11	J	µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	7:08	HXE	
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	7:08	HXE	
[VOC Vapor Sampling Tracer]											
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	7:08	HXE	
[VOC Surrogates]											
Dibromofluoromethane	119		%REC	EPA 8260B			70-130	08/10/15	7:08	HXE	
Toluene-D8	98		%REC	EPA 8260B			70-130	08/10/15	7:08	HXE	
Bromofluorobenzene	94		%REC	EPA 8260B			70-130	08/10/15	7:08	HXE	

Sample: 021 B7-10  
Sample Matrix: Soil Vapor

Date & Time Sampled: 08/10/15 @ 16:42



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### 1508-00066

ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807

Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 021 B7-10								Date & Time Sampled: 08/10/15 @ 16:42		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	4:59	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Benzene	<0.036		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	4:59	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	4:59	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	4:59	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	4:59	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	4:59	HXE
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	4:59	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	4:59	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	4:59	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	4:59	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE

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3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807

Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 021 B7-10							Date & Time Sampled:	08/10/15	@	16:42
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	4:59	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	4:59	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	4:59	HXE
Methyl-t-butyl Ether (MTBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	4:59	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Toluene	0.060	J	µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE

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**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
 Date Received 08/10/15  
 Invoice No. 73918  
 Cust # A191  
 Permit Number  
 Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 021 B7-10								Date & Time Sampled:		08/10/15 @ 16:42
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	4:59	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	4:59	HXE
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	4:59	HXE
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	4:59	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	4:59	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	4:59	HXE
[VOC Surrogates]										
Dibromofluoromethane	119		%REC	EPA 8260B			70-130	08/10/15	4:59	HXE
Toluene-D8	101		%REC	EPA 8260B			70-130	08/10/15	4:59	HXE
Bromofluorobenzene	94		%REC	EPA 8260B			70-130	08/10/15	4:59	HXE
Sample: 022 B7-10-DUP								Date & Time Sampled:		08/10/15 @ 16:42
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<5.0		µg/L	EPA 8260B	1.0	5.00	10	08/10/15	5:22	HXE
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Benzene	<0.036		µg/L	EPA 8260B	1.0	0.04	0.050	08/10/15	5:22	HXE
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE





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Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 022 B7-10-DUP								Date & Time Sampled: 08/10/15 @ 16:42		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	5:22	HXE
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	5:22	HXE
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	5:22	HXE
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	5:22	HXE
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	5:22	HXE
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	5:22	HXE
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	5:22	HXE
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	5:22	HXE
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE

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## CERTIFICATE OF ANALYSIS

**1508-00066**

**ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 022 B7-10-DUP								Date & Time Sampled: 08/10/15 @ 16:42		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	5:22	HXE
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.05	0.1	08/10/15	5:22	HXE
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.50	1.0	08/10/15	5:22	HXE
Methyl-t-butyl Ether (MtBE)	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.03	0.050	08/10/15	5:22	HXE
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Toluene	0.063	J	µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.02	0.10	08/10/15	5:22	HXE
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	5:22	HXE

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## CERTIFICATE OF ANALYSIS

**1508-00066**

ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG  
3777 LONG BEACH BLVD.  
ANNEX BUILDING  
LONG BEACH, CA 90807

Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles

Date Reported 08/13/15  
Date Received 08/10/15  
Invoice No. 73918  
Cust # A191  
Permit Number  
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 022 B7-10-DUP								Date & Time Sampled: 08/10/15 @ 16:42		
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
Vinyl Chloride	<0.013		µg/L	EPA 8260B	1.0	0.01	0.050	08/10/15	5:22	HXE
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.10	0.20	08/10/15	5:22	HXE
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.05	0.10	08/10/15	5:22	HXE
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<10		µg/L	EPA 8260B	1.0	10.00	10	08/10/15	5:22	HXE
[VOC Surrogates]										
Dibromofluoromethane	117		%REC	EPA 8260B			70-130	08/10/15	5:22	HXE
Toluene-D8	105		%REC	EPA 8260B			70-130	08/10/15	5:22	HXE
Bromofluorobenzene	95		%REC	EPA 8260B			70-130	08/10/15	5:22	HXE

Respectfully Submitted:

*Ken Zheng*  
Ken Zheng - President

### QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.  
B1 = BOD dilution water is over specifications. The reported result may be biased high.  
D = Surrogate recoveries are not calculated due to sample dilution.  
E = Estimated value; Value exceeds calibration level of instrument.  
H = Analyte was prepared and/or analyzed outside of the analytical method holding time  
I = Matrix Interference.  
J = Analyte concentration detected between RL and MDL.  
Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.  
S = Customer provided specification limit exceeded.

### ABBREVIATIONS

DF = Dilution Factor  
RL = Reporting Limit, Adjusted by DF  
MDL = Method Detection Limit, Adjusted by DF  
Qual = Qualifier  
Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.



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## QUALITY CONTROL DATA REPORT

**1508-00066**

**ALTA ENVIRONMENTAL**  
**STEVEN R. RIDENOUR, PG**  
**3777 LONG BEACH BLVD.**  
**ANNEX BUILDING**  
**LONG BEACH, CA 90807**

**Date Reported** 08/13/2015  
**Date Received** 08/10/2015  
**Date Sampled** 08/10/2015  
**Invoice No.** 73918  
**Customer #** A191  
**Customer P.O.**

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

Method #	EPA 8260B																								
QC Reference #	48893	Date Analyzed:	8/10/2015	Technician:	HXE																				
Samples	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022			
<b>Results</b>					LCS % REC	LCS % DUP	LCS % RPD	BLKSRR% REC															<b>Control Ranges</b>		
					LCS % REC	LCS % DUP	LCS % RPD	BLKSRR% REC															LCS % REC	LCS % RPD	BLKSRR% REC
1,1-Dichloroethene					106	116	10																70 - 130	0 - 25	
Benzene					103	115	12																70 - 130	0 - 25	
Bromofluorobenzene								99																	70 - 130
Chlorobenzene					83	87	5																70 - 130	0 - 25	
Dibromofluorometha								111																	70 - 130
Toluene					91	108	17.4																70 - 130	0 - 25	
Toluene-D8								103																	70 - 130
Trichloroethene					101	119	16.8																70 - 130	0 - 25	



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## QUALITY CONTROL DATA REPORT

ALTA ENVIRONMENTAL  
STEVEN R. RIDENOUR, PG

1508-00066

Date Reported 08/13/2015  
Date Received 08/10/2015  
Date Sampled 08/10/2015

### Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles

#### Method blank results

Ref	Test Name	Result	Qualif	Units	MDL	Ref	Test Name	Result	Qualif	Units	MDL
48893	Acetone	<5.0		µg/L	5.0		2-Hexanone	<0.50		µg/L	0.50
	t-Amyl Methyl Ether (TAME)	<0.050		µg/L	0.050		Isopropylbenzene	<0.050		µg/L	0.050
	Benzene	<0.036		µg/L	0.036		4-Isopropyltoluene	<0.050		µg/L	0.050
	Bromobenzene	<0.050		µg/L	0.050		Methylene Chloride	<0.05		µg/L	0.05
	Bromochloromethane	<0.050		µg/L	0.050		4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	0.50
	Bromodichloromethane	<0.050		µg/L	0.050		Methyl-t-butyl Ether (MtBE)	<0.050		µg/L	0.050
	Bromoform	<0.050		µg/L	0.050		Naphthalene	<0.032		µg/L	0.032
	Bromomethane	<0.10		µg/L	0.10		n-Propylbenzene	<0.050		µg/L	0.050
	t-Butanol (TBA)	<0.50		µg/L	0.50		Styrene	<0.050		µg/L	0.050
	2-Butanone (MEK)	<0.50		µg/L	0.50		1,1,1,2-Tetrachloroethane	<0.050		µg/L	0.050
	n-Butylbenzene	<0.050		µg/L	0.050		1,1,2,2-Tetrachloroethane	<0.05		µg/L	0.05
	sec-Butylbenzene	<0.050		µg/L	0.050		Tetrachloroethene	<0.050		µg/L	0.050
	tert-Butylbenzene	<0.050		µg/L	0.050		Toluene	<0.050		µg/L	0.050
	Carbon Disulfide	<0.50		µg/L	0.50		1,2,3-Trichlorobenzene	<0.050		µg/L	0.050
	Carbon Tetrachloride	<0.025		µg/L	0.025		1,2,4-Trichlorobenzene	<0.050		µg/L	0.050
	Chlorobenzene	<0.050		µg/L	0.050		1,1,1-Trichloroethane	<0.050		µg/L	0.050
	Chloroethane	<0.050		µg/L	0.050		1,1,2-Trichloroethane	<0.050		µg/L	0.050
	Chloroform	<0.050		µg/L	0.050		Trichloroethene	<0.050		µg/L	0.050
	Chloromethane	<0.10		µg/L	0.10		1,2,3-Trichloropropane	<0.020		µg/L	0.020
	2-Chlorotoluene	<0.050		µg/L	0.050		Trichlorofluoromethane	<0.050		µg/L	0.050
	4-Chlorotoluene	<0.050		µg/L	0.050		Trichlorotrifluoroethane	<0.10		µg/L	0.10
	Dibromochloromethane	<0.050		µg/L	0.050		1,2,4-Trimethylbenzene	<0.050		µg/L	0.050
	1,2-Dibromoethane (EDB)	<0.020		µg/L	0.020		1,3,5-Trimethylbenzene	<0.050		µg/L	0.050
	1,2-Dibromo-3-Chloropropane	<0.020		µg/L	0.020		Vinyl Chloride	<0.013		µg/L	0.013
	Dibromomethane	<0.050		µg/L	0.050		m,p-Xylenes	<0.10		µg/L	0.10
	1,2-Dichlorobenzene	<0.050		µg/L	0.050		o-Xylene	<0.050		µg/L	0.050
	1,3-Dichlorobenzene	<0.050		µg/L	0.050		Isopropanol (IPA)	<10		µg/L	10
	1,4-Dichlorobenzene	<0.050		µg/L	0.050						
	Dichlorodifluoromethane	<0.050		µg/L	0.050						
	1,1-Dichloroethane	<0.050		µg/L	0.050						
	1,2-Dichloroethane	<0.050		µg/L	0.050						
	1,1-Dichloroethene	<0.050		µg/L	0.050						
	cis-1,2-Dichloroethene	<0.050		µg/L	0.050						
	trans-1,2-Dichloroethene	<0.050		µg/L	0.050						
	1,2-Dichloropropane	<0.050		µg/L	0.050						
	1,3-Dichloropropane	<0.050		µg/L	0.050						
	2,2-Dichloropropane	<0.050		µg/L	0.050						
	1,1-Dichloropropene	<0.050		µg/L	0.050						
	cis-1,3-Dichloropropene	<0.050		µg/L	0.050						
	trans-1,3-Dichloropropene	<0.050		µg/L	0.050						
	Diisopropyl Ether (DIPE)	<0.050		µg/L	0.050						
	Ethylbenzene	<0.050		µg/L	0.050						
	Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	0.050						
	Hexachlorobutadiene	<0.050		µg/L	0.050						



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### QUALITY CONTROL DATA REPORT

**1508-00066**

ALTA ENVIRONMENTAL  
 STEVEN R. RIDENOUR, PG

<b>Date Reported</b>	<b>08/13/2015</b>
<b>Date Received</b>	<b>08/10/2015</b>
<b>Date Sampled</b>	<b>08/10/2015</b>

**Project: MCGU-15-5422 / 12870 Panama Street, Los Angeles**

*Respectfully Submitted:*

*Ken Zheng*

Ken Zheng - President

*For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.*







Client Name <b>Alta Environmental</b>				<input type="checkbox"/> Chilled		<b>Analyses Requested</b>										Turn Around Time Requested									
E-mail <b>stave.ridenour@altaenviro.com</b>				<input checked="" type="checkbox"/> Intact												EPA8260B (OCs & Oxygenates)		EPA8260B (BTEX & Oxygenates)		LUFT / 8015 (Gasoline)		LUFT / 8015 (Diesel)		EPA8081A (Organochlorine Pesticides)	
Address <b>3777 Long Beach Blvd</b>		Report Attention <b>S. Ridenour</b>		Phone # <b>562-495-5777</b>		Sampled By <b>H. Frans</b>		Project No./ Name <b>MC0415-5422</b>		Project Site <b>Panama St</b>		Remarks <b>3PV</b>													
Lab # <small>(Lab use)</small>	Client Sample ID	Sample Collection Date      Time		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (OCs & Oxygenates)		EPA8260B (BTEX & Oxygenates)		LUFT / 8015 (Gasoline)		LUFT / 8015 (Diesel)		EPA8081A (Organochlorine Pesticides)		EPA 8082 (PCBs)		EPA 8015M (Carbon Chain C4-C40)		EPA 6010B/7000 (CAM 17 Metals)		Micro: Plate Cnt., Coliform, E-Coil		
16	B8-5	8/10/15	14:11	soil vapor	No	250cc glass bulb	X																		
17	B8-10		14:28				X																		
18	B6-5		14:54				X																		
19	B6-10		15:18				X																		
20	B7-5		16:21				X																		
21	B7-10		16:42				X																		
22	B7-10-DVP	↓	16:42	↓	↓	↓	X																		
Relinquished By <i>[Signature]</i>				Company <b>NITA</b>		Date <b>8/10/15</b>		Time <b>16:55</b>		Received By <i>[Signature]</i>		Company <b>ARR</b>		Date <b>8/10/15</b>		Time <b>16:55</b>		Note: Samples are discarded 30 days after results are reported unless other arrangements are made.							
Relinquished By				Company		Date		Time		Received By		Company		Date		Time									

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO <sub>3</sub>	SH=NaOH ST=Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> HS=H <sub>2</sub> SO <sub>4</sub>	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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Calscience



**WORK ORDER NUMBER: 15-08-0383**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For**

**Client:** Alta Environmental

**Client Project Name:** 12870 Panama Street / MCGU-15-5422

**Attention:** Steve Ridenour  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

*Vikas Patel*

Approved for release on 08/20/2015 by:  
Vikas Patel  
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



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# Contents

Client Project Name: 12870 Panama Street / MCGU-15-5422  
Work Order Number: 15-08-0383

1	Work Order Narrative. . . . .	3
2	Detections Summary. . . . .	4
3	Client Sample Data. . . . .	5
	3.1 EPA 8015B (M) TPH Motor Oil (Aqueous). . . . .	5
	3.2 EPA 8015B (M) TPH Diesel (Aqueous). . . . .	6
	3.3 EPA 8015B (M) TPH Gasoline (Aqueous). . . . .	7
	3.4 EPA 8260B Volatile Organics + Oxygenates (Aqueous). . . . .	8
4	Quality Control Sample Data. . . . .	14
	4.1 MS/MSD. . . . .	14
	4.2 LCS/LCSD. . . . .	16
5	Sample Analysis Summary. . . . .	20
6	Glossary of Terms and Qualifiers. . . . .	21
7	Chain-of-Custody/Sample Receipt Form. . . . .	22

**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 08/06/15. They were assigned to Work Order 15-08-0383.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



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## Detections Summary

Client: Alta Environmental  
 3777 Long Beach Blvd., Annex Building  
 Long Beach, CA 90802-3335

Work Order: 15-08-0383  
 Project Name: 12870 Panama Street / MCGU-15-5422  
 Received: 08/06/15

Attn: Steve Ridenour

Page 1 of 1

### Client SampleID

<u>Analyte</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	<u>Method</u>	<u>Extraction</u>
B5 (15-08-0383-1)						
TPH as Motor Oil	190	HD,J,ET	53*	ug/L	EPA 8015B (M)	EPA 3510C
TPH as Diesel	1500	HD,ET	50	ug/L	EPA 8015B (M)	EPA 3510C
2-Butanone	4.8	J	2.2*	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

Return to Contents 

\* MDL is shown



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5	15-08-0383-1-F	08/06/15 09:30	Aqueous	GC 48	08/18/15	08/18/15 21:47	150818B08

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	190	250	53	1.00	HD,J,ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	70	68-140	

Method Blank	099-15-278-980	N/A	Aqueous	GC 48	08/18/15	08/18/15 20:29	150818B08
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	250	53	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	83	68-140	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5	15-08-0383-1-F	08/06/15 09:30	Aqueous	GC 48	08/18/15	08/18/15 21:47	150818B07

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	1500	50	8.0	1.00	HD,ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	70	68-140	

Method Blank	099-15-304-1134	N/A	Aqueous	GC 48	08/18/15	08/18/15 20:29	150818B07
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	50	8.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	83	68-140	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5	15-08-0383-1-D	08/06/15 09:30	Aqueous	GC 1	08/18/15	08/19/15 01:03	150818L052

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	50	48	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	56	38-134	

Method Blank	099-12-436-10272	N/A	Aqueous	GC 1	08/18/15	08/18/15 16:43	150818L052
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	50	48	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	54	38-134	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5	15-08-0383-1-A	08/06/15 09:30	Aqueous	GC/MS JJ	08/18/15	08/18/15 15:11	150818L004

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	4.8	10	2.2	1.00	J
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 2 of 6

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 3 of 6

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	104	80-120	
Dibromofluoromethane	110	78-126	
1,2-Dichloroethane-d4	108	75-135	
Toluene-d8	102	80-120	

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-17931	N/A	Aqueous	GC/MS JJ	08/18/15	08/18/15 11:22	150818L004

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 5 of 6

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 6 of 6

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	95	78-126	
1,2-Dichloroethane-d4	109	75-135	
Toluene-d8	102	80-120	



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Quality Control - Spike/Spike Duplicate

Alta Environmental  
 3777 Long Beach Blvd., Annex Building  
 Long Beach, CA 90802-3335

Date Received: 08/06/15  
 Work Order: 15-08-0383  
 Preparation: EPA 5030C  
 Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-08-1082-3	Sample	Aqueous	GC 1	08/18/15	08/18/15 17:19	150818S017
15-08-1082-3	Matrix Spike	Aqueous	GC 1	08/18/15	08/18/15 17:55	150818S017
15-08-1082-3	Matrix Spike Duplicate	Aqueous	GC 1	08/18/15	08/18/15 18:30	150818S017

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	52.58	2000	1763	86	1735	84	68-122	2	0-18	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: 12870 Panama Street / MCGU-15-5422

Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-08-1049-4	Sample	Aqueous	GC/MS JJ	08/18/15	08/18/15 12:24	150818S002
15-08-1049-4	Matrix Spike	Aqueous	GC/MS JJ	08/18/15	08/18/15 12:51	150818S002
15-08-1049-4	Matrix Spike Duplicate	Aqueous	GC/MS JJ	08/18/15	08/18/15 13:19	150818S002

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	64.20	128	62.32	125	74-122	3	0-21	3
Carbon Tetrachloride	ND	50.00	68.07	136	66.43	133	60-144	2	0-21	
Chlorobenzene	ND	50.00	55.77	112	53.60	107	73-120	4	0-22	
1,2-Dibromoethane	ND	50.00	55.94	112	54.70	109	80-122	2	0-20	
1,2-Dichlorobenzene	ND	50.00	54.15	108	53.00	106	70-120	2	0-26	
1,2-Dichloroethane	ND	50.00	61.57	123	59.28	119	64-142	4	0-20	
1,1-Dichloroethene	ND	50.00	61.64	123	61.97	124	52-136	1	0-21	
Ethylbenzene	ND	50.00	59.52	119	57.35	115	77-125	4	0-24	
Toluene	ND	50.00	63.82	128	60.75	122	72-126	5	0-23	3
Trichloroethene	ND	50.00	66.50	133	64.24	128	74-128	3	0-22	3
Vinyl Chloride	ND	50.00	60.68	121	59.56	119	67-133	2	0-20	
p/m-Xylene	ND	100.0	113.0	113	108.1	108	63-129	4	0-25	
o-Xylene	ND	50.00	56.67	113	54.05	108	62-128	5	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	60.87	122	62.16	124	68-134	2	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	287.1	115	290.3	116	65-143	1	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	61.31	123	60.04	120	61-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	57.93	116	58.33	117	64-136	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	57.66	115	56.25	113	67-133	2	0-20	
Ethanol	ND	500.0	541.1	108	463.4	93	34-178	15	0-58	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - LCS/LCSD

Alta Environmental  
 3777 Long Beach Blvd., Annex Building  
 Long Beach, CA 90802-3335

Date Received: 08/06/15  
 Work Order: 15-08-0383  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-278-980	LCS	Aqueous	GC 48	08/18/15	08/18/15 21:15	150818B08
099-15-278-980	LCSD	Aqueous	GC 48	08/18/15	08/18/15 21:31	150818B08

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	2000	1553	78	1658	83	75-117	6	0-13	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





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Quality Control - LCS/LCSD

Alta Environmental  
 3777 Long Beach Blvd., Annex Building  
 Long Beach, CA 90802-3335

Date Received: 08/06/15  
 Work Order: 15-08-0383  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5422

Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-304-1134	LCS	Aqueous	GC 48	08/18/15	08/18/15 20:44	150818B07
099-15-304-1134	LCSD	Aqueous	GC 48	08/18/15	08/18/15 21:00	150818B07

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	1990	100	2071	104	75-117	4	0-13	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5422

Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-12-436-10272</b>	<b>LCS</b>	<b>Aqueous</b>	<b>GC 1</b>	<b>08/18/15</b>	<b>08/18/15 16:07</b>	<b>150818L052</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline		2000	1736	87	78-120	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: 12870 Panama Street / MCGU-15-5422

Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>099-14-001-17931</b>	<b>LCS</b>	<b>Aqueous</b>	<b>GC/MS JJ</b>	<b>08/18/15</b>	<b>08/18/15 09:50</b>	<b>150818L004</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene		50.00	57.46	115	80-120	73-127	
Carbon Tetrachloride		50.00	58.02	116	67-139	55-151	
Chlorobenzene		50.00	50.56	101	78-120	71-127	
1,2-Dibromoethane		50.00	52.84	106	80-120	73-127	
1,2-Dichlorobenzene		50.00	50.80	102	63-129	52-140	
1,2-Dichloroethane		50.00	56.34	113	70-130	60-140	
1,1-Dichloroethene		50.00	52.94	106	66-126	56-136	
Ethylbenzene		50.00	53.19	106	80-123	73-130	
Toluene		50.00	56.59	113	80-120	73-127	
Trichloroethene		50.00	60.93	122	80-122	73-129	
Vinyl Chloride		50.00	51.31	103	70-130	60-140	
p/m-Xylene		100.0	101.2	101	75-123	67-131	
o-Xylene		50.00	50.80	102	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)		50.00	58.12	116	69-129	59-139	
Tert-Butyl Alcohol (TBA)		250.0	249.3	100	69-129	59-139	
Diisopropyl Ether (DIPE)		50.00	56.94	114	68-128	58-138	
Ethyl-t-Butyl Ether (ETBE)		50.00	55.27	111	63-135	51-147	
Tert-Amyl-Methyl Ether (TAME)		50.00	54.87	110	67-133	56-144	
Ethanol		500.0	498.1	100	42-168	21-189	

Total number of LCS compounds: 19

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

## Sample Analysis Summary Report

Work Order: 15-08-0383

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 8015B (M)	EPA 3510C	682	GC 48	1
EPA 8015B (M)	EPA 5030C	902	GC 1	2
EPA 8260B	EPA 5030C	996	GC/MS JJ	2

## Glossary of Terms and Qualifiers

Work Order: 15-08-0383

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Alta Environmental

DATE: 08/06/2015

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)  
 Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 3.4 °C (w/ CF): 3.2 °C;  Blank  Sample  
 Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_)  
 Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling  
 Sample(s) received at ambient temperature; placed on ice for transport by courier  
 Ambient Temperature:  Air  Filter Checked by: 681

**CUSTODY SEAL:**  
 Cooler  Present and Intact  Present but Not Intact  Not Present  N/A Checked by: 681  
 Sample(s)  Present and Intact  Present but Not Intact  Not Present  N/A Checked by: 965

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers			
<input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time			
Sampler's name indicated on COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses			
<input checked="" type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Container(s) for certain analysis free of headspace .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500)			
<input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:** (Trip Blank Lot Number: \_\_\_\_\_)  
**Aqueous:**  VOA  VOA<sub>h</sub>  VOA<sub>na2</sub>  100PJ  100PJ<sub>na2</sub>  125AGB  125AGB<sub>h</sub>  125AGB<sub>p</sub>  125PB  
 125PB<sub>z</sub><sub>na</sub>  250AGB  250CGB  250CGB<sub>s</sub>  250PB  250PB<sub>n</sub>  500AGB  500AGJ  500AGJ<sub>s</sub>  
 500PB  1AGB  1AGB<sub>na2</sub>  1AGB<sub>s</sub>  1PB  1PB<sub>na</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  
**Solid:**  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (\_\_\_\_\_)  EnCores® (\_\_\_\_\_)  TerraCores® (\_\_\_\_\_)  \_\_\_\_\_  
**Air:**  Tedlar™  Canister  Sorbent Tube  PUF  \_\_\_\_\_ **Other Matrix** (\_\_\_\_\_)  \_\_\_\_\_  \_\_\_\_\_  
 Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag  
 Preservative: b = buffered, f = filtered, h = HCl, n = HNO<sub>3</sub>, na = NaOH, na<sub>2</sub> = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, p = H<sub>3</sub>PO<sub>4</sub>, Labeled/Checked by: 965  
 s = H<sub>2</sub>SO<sub>4</sub>, u = ultra-pure, z<sub>na</sub> = Zn(CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> + NaOH Reviewed by: 965

Return to Contents





Change Request to analyze samples on 24hr TAT received from Steve Ridenour on August 18, 2015.

CHAIN OF CUSTODY RECORD

Calscience Environmental Laboratories, Inc.

SoCal Laboratory 7440 Lincoln Way Garden Grove, CA 92841-1427 (714) 896-6494

NorCal Service Center 5083 Commercial Circle, Suite H Concord, CA 94520-9577 (925) 689-9022

Date 8/16/15 Page 1 of 1

LABORATORY CLIENT: Alta Environmental ADDRESS: 3777 Long Beach Blvd, Long Beach, CA 90807 TEL: 562-495-5877 EMAIL: Steve.Ridenour@alteinvent.com

REQUESTED ANALYSES

Table with columns for ANALYSIS, FIELD FILTERED, PRESERVED, UNPRESERVED, NO. OF CONT., MATING TIME, SAMPLING DATE, and TIME. Includes rows for TPH, VOCs, SVOCs, PCBs, and Pesticides.

Received by: (Signature) Date: 8/16/15 Time: 1325

DISTRIBUTION: White with final report, Green and Yellow to Client. Please note that pages 1 and 2 of our TACs are printed on the reverse side of the Green and Yellow copies respectively.

Return to Contents

09/07/13 Revision



## **ADDITIONAL SITE ASSESSMENT**

12870 Panama Street  
Los Angeles, California 90066

MCGU-15-5506  
October 22, 2015

**Alta Environmental**  
3777 Long Beach Boulevard, Annex Building  
Long Beach, CA 90807 [www.altaenviron.com](http://www.altaenviron.com)  
P (562) 495-5777 F (562) 495-5877

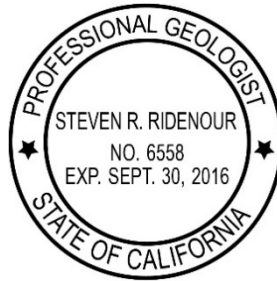
# ADDITIONAL SITE ASSESSMENT REPORT



Jonathan Barkman  
Project Manager/Senior I



Steven R. Ridenour, PG  
Senior Project Manager/Senior Geologist III



Mike Cassidy, PG, CHG  
Vice President-Site Assessment and  
Remediation  
Branch Manager-Irvine Office



## TABLE OF CONTENTS

1. INTRODUCTION .....	1
2. SITE DESCRIPTION .....	1
3. REGIONAL GEOLOGY AND HYDROGEOLOGY .....	2
3.1 Regional Geology .....	2
3.2 Regional Hydrogeology .....	2
4. PREVIOUS SITE INVESTIGATION.....	2
5. SITE ASSESSMENT .....	3
5.1 Pre-field Activities .....	3
5.1.1 Health and Safety Plan.....	3
5.1.2 Utility Clearance .....	4
5.1.3 Permitting .....	4
5.2 Subsurface Sample Collection and Analysis .....	4
5.3 Investigation Derived Waste Disposal .....	5
6. FINDINGS AND CONCLUSIONS.....	5
6.1 Lithology .....	5
6.2 Analytical Results .....	5
6.2.1 Groundwater Samples.....	5
6.2.1.1 Volatile Organic Compounds .....	5
6.2.1.2 Total Petroleum Hydrocarbons .....	5
7. REFERENCES .....	6

### Tables

Table 1	Groundwater Sample Results for VOC
Table 2	Groundwater Sample Results for TPH

### Figures

Figure 1	Site Vicinity Map
Figure 2	Site Layout and Boring Location Map
Figure 3	TPH Concentrations in Groundwater Samples - Previous Investigation Borings
Figure 4	Detail View: TPH Concentrations in Groundwater, Facilities Maintenance Building

### Appendices

Appendix A	LACDPH Permit
Appendix B	Laboratory Analytical Reports of Groundwater Samples
Appendix C	Boring Logs

## 1. INTRODUCTION

Alta Environmental LP (Alta) has prepared this Additional Site Assessment report for the property located at 12870 Panama Street in the City of Los Angeles, California (hereafter referred to as the "Site"). The objective of this investigation was to assess the extent of groundwater impacts in the vicinity of a former 250-gallon waste oil underground storage tank (UST). These impacts were identified during our Phase II Environmental Site Assessment of the Site (Alta, 2015a).

## 2. SITE DESCRIPTION

The Site is an approximately 2.15-acre property located within a mixed commercial and residential area of Los Angeles, California. The Site is bounded to the north by Panama Street and residential buildings, to the east by Teledyne Reynolds, to the south by E-Z Storage, and to the west by vacant buildings most recently occupied by Teledyne Microelectronic Technologies.

At the time of our investigation, the Site was developed with an approximately 17,178 square-foot (sqft) mixed concrete tilt up and brick construction administration building with an attached 930 sqft wooden construction maintenance shed, two concrete-block out-buildings (one approximately 1,424 sqft facilities maintenance building, and one 600 sqft storage building with two attached storage sheds), and one 600 sqft wooden construction out-building (used for storage). In addition, there were two approximately 200 sqft, fenced storage areas, and three sea/land metal shipping containers (approximately 8 x 8 x 20 feet each) on site. The remaining areas of the property were covered with asphalt and concrete paving. Within the southern and western portions of the property, a drainage swale crossed the property and channeled surface runoff to Panama Street.

Two subsurface hydraulic lifts and one 250-gallon waste oil UST were formerly located within the 1,424 sqft facilities maintenance building located along the southeastern property boundary. According to a 1996 UST Closure Report prepared by All Environmental, Inc. (AEI, 1996), the UST and the two hydraulic lifts were removed and properly disposed under City of Los Angeles Fire Department (LAFD) oversight. During the removal process, the waste oil UST and two hydraulic lifts appeared to be in good condition and had no signs of corrosion or rupture. Initial soil sampling conducted beneath the UST excavation indicated soil concentrations of total petroleum hydrocarbons (TPH) ranging from 1,100 to 1,700 milligrams per kilogram (mg/kg). Soil samples were also analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX). Concentrations of BTEX were not detected above laboratory detection limits. Due to elevated concentrations of TPH, AEI excavated to 10 feet below ground surface (bgs) and resampled. The reported concentrations of the second round of confirmation sampling were below cleanup levels. A no further action finding dated April 1, 1996 was issued by the LAFD.

In addition, an abandoned wastewater clarifier is located along the northwestern property boundary between the two driveways along Panama Street at the western corner of the Site. The clarifier was reportedly utilized by a previous site user to process wastewater from a vehicle wash rack. During abandonment activities, the clarifier was filled with sand, capped with concrete, and the connections to the sanitary sewer were disconnected and capped.

A Site Vicinity Map is presented as Figure 1 and a Site Layout and Boring Location Map is included as Figure 2.

### **3. REGIONAL GEOLOGY AND HYDROGEOLOGY**

#### **3.1 Regional Geology**

The Site is situated within the Ballona Gap of the Santa Monica Basin. Holocene age alluvium forms much of the surficial deposits in this area, including clay-rich Bellflower aquiclude and underlying gravels of the Ballona aquifer (Department of Water Resources [DWR], 1961). Soils encountered during Alta's assessment of the Site were predominantly clay with localized lenses of silt and sand to 10 feet bgs, underlain by alternating sequences of clay and sand to total depths explored.

#### **3.2 Regional Hydrogeology**

The Site is situated within the Coastal sub-basin of the Santa Monica Basin, near the southern boundary. The basin is bound by the Santa Monica Mountains to the northwest, the Pacific Ocean to the west, the Newport-Inglewood fault to the northeast, and the Ballona escarpment and Baldwin Hills to the south and southeast. The primary groundwater producing zones within the Santa Monica basin include the aquifers within the recent alluvium and the underlying San Pedro Formation (Silverado Aquifer) (DWR, 1961). The nearest surface water body to the Site is Ballona Creek, located approximately ¼ mile southeast of the Site (Figure 1).

As determined during our previous Site investigation, depth to the uppermost groundwater zone ranges from approximately 10.5 to 13 feet bgs. Based on our recently reported groundwater monitoring event conducted at the adjacent 12922 Panama Street site to the west (third quarter 2015 groundwater monitoring event), the groundwater flow direction of the uppermost groundwater zone is to the southwest at a gradient of 0.0030 (Alta, 2015b).

### **4. PREVIOUS SITE INVESTIGATION**

Alta completed a Phase II ESA (Alta, 2015a) of the Site to assess Recognized Environmental Conditions (RECs) identified in our Phase I ESA report dated July 29, 2015 (Alta, 2015c). During the investigation, a total of 12 borings (B1 through B12) were advanced at the Site to assess potential subsurface impacts related to the RECs, which included a 250-gallon waste oil UST, two former subsurface hydraulic lifts, an abandoned wastewater clarifier, and the neighboring former electronics and aerospace manufacturing site (12922 Panama Street) to the west. Although not identified as a REC, due to the reported historical usage of solvents and tin/lead electroplating activities at the adjacent property to the east (12820 Panama Street), the scope of work included an assessment along the eastern side of the Site. Various combinations of soil, soil-vapor, and groundwater samples were collected from each of the borings.

#### **Findings of the Soil Investigation:**

Trace volatile organic compound (VOC) concentrations of acetone, benzene, 2-butanone, carbon disulfide, chloromethane, tetrachloroethene (PCE), trichloroethene (TCE), and tert-butyl alcohol were detected in soil. The reported concentrations were all below the U.S. Environmental Protection Agency Regional Screening Levels (RSLs) for an industrial/commercial land use scenario and below the Los Angeles Regional Water Quality Control Board (LARWQCB) maximum soil screening levels (MSSLs) for protection of groundwater (LARWQCB, 1996).

Concentrations of Title 22 Metals were reported below the corresponding commercial/industrial land use scenario Office of Environmental Health Hazard Assessment California Human Health Screening Levels (CHHSLs), with the exception of arsenic. The elevated arsenic concentrations in shallow soils may be related to the presence of fill in this area. Additionally, arsenic is a naturally occurring metal in southern California soils and elevated concentrations of arsenic are frequently encountered.

No concentrations of TPH as gasoline (TPH-g) were reported above laboratory method detection limits (MDLs). Several soil samples exhibited low concentrations of TPH as diesel (TPH-d), with the highest being from boring B4. No concentrations of TPH as oil (TPH-o) were reported above laboratory MDLs, with the exception of the 5-foot sample from boring B4. The reported concentrations are all below the LARWQCB MSSSLs for protection of groundwater (LARWQCB, 1996).

Polychlorinated biphenyl concentrations were not reported above laboratory MDLs by the laboratory in either of the soil samples analyzed (B4-5 and B5-10).

Polycyclic aromatic hydrocarbon (PAH) concentrations were not reported above laboratory MDLs by the laboratory, with the exception of benzo(k)fluoranthene from boring B4 at 5 feet bgs. Benzo(k)fluoranthene is one of the seven PAH compounds that are part of the total benzo(a)pyrene Equivalent (B[a]P) concentrations for toxicity evaluation in soil (DTSC, 2009). The reported concentration of benzo(k)fluoranthene is significantly below the DTSC screening level and is therefore, not considered an environmental concern for the Site.

#### **Findings of the Soil Vapor Investigation:**

No concentrations of VOCs in soil vapor were detected above laboratory MDLs, with the exception of benzene, ethylbenzene, PCE, toluene, TCE, and xylenes. All VOC concentrations in soil vapor are below the corresponding commercial/industrial CHHSLs for soils below buildings constructed without engineered fill.

#### **Findings of the Groundwater Investigation:**

No concentrations of VOCs in groundwater were reported above laboratory MDLs, with the exception of a trace detection of 2-butanone from boring B5. No exceedances of the California Department of Public Health Maximum Contaminant Levels (MCLs) for VOCs in drinking water were identified in any of the groundwater samples.

No concentrations of TPH-g were detected in any of the analyzed groundwater samples (B5, B8, and B11). Relatively low concentrations of TPH-d were detected in groundwater samples from borings B8 and B11, while a somewhat elevated concentration was detected from boring B5, at a concentration of 1,500 micrograms per liter ( $\mu\text{g/L}$ ). No concentrations of TPH-o were detected in any of the analyzed groundwater samples, with the exception of the sample from B5. Due to reported concentrations of TPH in groundwater from boring B5, which is located in the vicinity of the former waste oil UST, Alta recommended conducting a step-out investigation to assess the extent of TPH impact in groundwater. The distribution of TPH concentrations in groundwater samples are shown on Figure 3.

## **5. SITE ASSESSMENT**

### **5.1 Pre-field Activities**

#### **5.1.1 Health and Safety Plan**

Prior to conducting field work for the project, Alta prepared a site-specific Health and Safety Plan (HASP) that was implemented per California Occupational Safety and Health Administration California Code of Regulations (CCR) Title 8, Section 5192 requirements. The scope of work and potential contaminants that could be encountered during the investigation were addressed in the HASP. The onsite health and safety officer was responsible for implementation of the HASP. Daily tailgate meetings were held with Alta personnel and subcontractors at the beginning of each day of fieldwork. The scope of work, safety hazards, and safety procedures were discussed during the tailgate meetings. All field personnel, including subcontractors, were required to review and sign the HASP before beginning any fieldwork. All Alta and subcontractor personnel conducting field work have received the OSHA Hazardous Waste Operation

training in accordance with 29 CFR 1910.120 and CCR Title 8, Section 5192. The Site assessment work was completed with no reportable injuries or illnesses.

### **5.1.2 Utility Clearance**

Alta conducted a site reconnaissance to locate and mark all proposed boring locations within the work areas. These locations were inspected for site accessibility, underground utilities, overhead power lines, and any additional potential issues that may be encountered during fieldwork. All locations were marked with white spray paint, as required by Underground Service Alert (USA). USA was notified at least 48 hours before any drilling activities commenced at the Site.

A geophysical survey was also conducted prior to drilling activities by Spectrum Geophysics of Burbank, California, for the purpose of locating identifiable buried utilities and other subsurface anomalies in the vicinity of each proposed boring location. The equipment used in the geophysical survey consisted of a Radio Detection 4000 transmitter with matched receiver, Dynatel 500A transmitter with matched receiver, shallow focus metal detector (M-scope), and MALA E-Z Locator ground penetrating radar unit coupled to a 500-MHz antenna. A subsurface electrical line was located along the line of the proposed boring locations, requiring each boring to be slightly offset laterally to avoid contact with the line.

### **5.1.3 Permitting**

Prior to conducting drilling activities, Alta obtained a groundwater sampling permit from the Los Angeles County Department of Public Health (LACDPH). A copy of the LACDPH monitoring well permit is included in Appendix A.

## **5.2 Subsurface Sample Collection and Analysis**

A total of 7 borings (B13 through B19) were advanced at the Site to various depths ranging from approximately 15 feet to 20 feet bgs, utilizing both hand augering equipment and direct-push Geoprobe drilling methods. Each boring was continuously cored to first encountered groundwater.

Upon reaching groundwater, a temporary well screen was advanced into the formation to facilitate the collection of grab samples. All reusable drilling and sampling equipment were cleaned before each use utilizing a three-bucket wash consisting of a non-phosphate detergent wash, tap water, and deionized/distilled water. Following completion of the investigation, all borings were abandoned by removing the temporary well screen, backfilling with hydrated bentonite, and sealing the penetration with similar surfacing materials. The boring locations are presented on Figure 4.

Groundwater grab samples were collected from all borings, with the exception of B16. Boring B16 did not produce enough groundwater to facilitate sample collection. Samples were collected from the temporary wells using single-use/disposable polyethylene tubing and transferred to 1-Liter amber bottles and preserved 40-mL vials. All sample containers were sealed, labeled, and stored in a chilled ice chest for transport under chain-of-custody documentation to a State of California-certified laboratory for analysis. The groundwater samples were analyzed for TPH-g, TPH-d, and TPH-o by EPA Method 8015M and VOCs by EPA Method 8260B. The laboratory analytical reports and chain-of-custody documentation for these samples are presented in Appendix B, and the results are tabulated in Tables 1 and 2.

The soils encountered during the investigation were logged at each sample depth using the Unified Soils Classification System (USCS) under the supervision of a California Professional Geologist. The lithology, field observations, and groundwater depths were documented on boring logs for each location (Appendix C).



### 5.3 Investigation Derived Waste Disposal

Investigation derived wastes (soil cuttings, decontamination water, and well purge water) generated during field operations were placed in 55-gallon drums and temporarily stored onsite, pending disposal. One partial drum of soil waste and one partial drum of decontamination water waste were generated during the investigation and are currently pending disposal.

## 6. FINDINGS AND CONCLUSIONS

### 6.1 Lithology

Soils encountered during this investigation predominately consisted of layers of clays and silty sands or sandy silts. Fill material was identified within the upper 5 to 8 feet at each boring location, with trace brick debris observed in borings B13, B14, and B15. A layer of stained and slightly odorous soil was observed in boring B14 from approximately 3 to 4 feet bgs. Depth to groundwater was observed ranging from approximately 12 to 13.5 feet bgs. No significant PID readings were detected in any of the borings. A copy of the boring logs are provided in Appendix C.

### 6.2 Analytical Results

A discussion of the laboratory analytical results is presented in the following sections. The results are presented in micrograms per liter ( $\mu\text{g/L}$ ). Some data have been qualified by the laboratory with a "J-flag," indicating that the analyte was detected; however, the result is an estimated value between the laboratory MDL and reporting limit.

#### 6.2.1 Groundwater Samples

##### 6.2.1.1 Volatile Organic Compounds

As indicated on Table 1, VOCs in groundwater samples were not reported above MDLs, with the exception of a trace detection of carbon disulfide from boring B14 (0.44J  $\mu\text{g/L}$ ). It should be noted that this compound was also detected in the laboratory method blank sample at a similar concentration (0.46J  $\mu\text{g/L}$ ). No exceedances of the MCLs for VOCs in drinking water were identified in any of the groundwater samples.

##### 6.2.1.2 Total Petroleum Hydrocarbons

As indicated on Table 2, TPH-g concentrations were not detected in any of the analyzed groundwater samples. Concentrations of TPH-d were detected in groundwater samples from borings B14 (530  $\mu\text{g/L}$ ), B15 (15J  $\mu\text{g/L}$ ), and B19 (9.4J  $\mu\text{g/L}$ ). Concentrations of TPH-o were only detected in the sample from boring B14 (3,800  $\mu\text{g/L}$ ).

The highest concentrations of TPH were detected in the groundwater sample collected at boring B14, located just outside of the building, to the southwest and downgradient of the former waste oil UST and previous boring B5, where TPH-d was detected at 1,500  $\mu\text{g/L}$  (Figure 4).

No significant TPH concentrations were observed in groundwater samples collected along the southeastern property line (borings B15, B17, B18, and B19), adjacent to the EZ Storage property.

## 7. REFERENCES

1. Alta Environmental (Alta) 2015a, *Phase II Environmental Site Assessment, 12870 Panama Street*, September 29, 2015.
2. Alta 2015b, *Offsite Assessment and Third Quarter 2015 Groundwater Monitoring Report, Panama Street Site*, October 15, 2015.
3. Alta 2015c, *Phase I Environmental Site Assessment Report, 12870 Panama Street*, July 29, 2015.
4. California Department of Water Resources (DWR), *Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County*, Bulletin Number 104, 1961.
5. California Environmental Protection Agency (CalEPA), *List of California Human Health Screening Levels*, retrieved from <http://oehha.ca.gov/risk/chhsttable.html>, October, 2015.
6. California Regional Water Quality Control Board, Los Angeles Region (LARWQCB), *Interim Site Assessment and Cleanup Guidebook*, May, 1996.
7. DTSC, *Use of the Northern and Southern California Polynuclear Aromatic Hydrocarbon (PAH) Studies in the Manufactured Gas Plant Site Cleanup Process*, July 1, 2009.

## **TABLES**

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**TABLE 1**  
 Water Sample Results for VOCs  
 Panama Street - Additional Site Assessment  
 12870 Panama Street  
 Los Angeles, California

VOCs by EPA Method 8260B in Water	Sample ID:						B13	B14	B15	B17	B18	B19
	Date:			9/24/2015	9/24/2015	9/24/2015	9/24/2015	9/24/2015	9/24/2015	9/24/2015		
	MDL (µg/L):	RL (µg/L):	MCLs (ug/L)	VOC Concentration (ug/L)			VOC Concentration (ug/L)					
Acetone	10	20	-	ND	ND	ND	ND	ND	ND	ND		
Benzene	0.14	0.5	-	ND	ND	ND	ND	ND	ND	ND		
Bromobenzene	0.3	1	-	ND	ND	ND	ND	ND	ND	ND		
Bromochloromethane	0.48	1	-	ND	ND	ND	ND	ND	ND	ND		
Bromodichloromethane	0.21	1	-	ND	ND	ND	ND	ND	ND	ND		
Bromoform	0.5	1	-	ND	ND	ND	ND	ND	ND	ND		
Bromomethane	3.9	10	-	ND	ND	ND	ND	ND	ND	ND		
2-Butanone	2.2	10	-	ND	ND	ND	ND	ND	ND	ND		
n-Butylbenzene	0.23	1	-	ND	ND	ND	ND	ND	ND	ND		
sec-Butylbenzene	0.25	1	-	ND	ND	ND	ND	ND	ND	ND		
tert-Butylbenzene	0.28	1	-	ND	ND	ND	ND	ND	ND	ND		
Carbon Disulfide	0.41	10	NE	ND	0.44J,B	ND	ND	ND	ND	ND		
Carbon Tetrachloride	0.23	0.5	-	ND	ND	ND	ND	ND	ND	ND		
Chlorobenzene	0.17	1	-	ND	ND	ND	ND	ND	ND	ND		
Chloroethane	2.3	5	-	ND	ND	ND	ND	ND	ND	ND		
Chloroform	0.46	1	-	ND	ND	ND	ND	ND	ND	ND		
Chloromethane	1.8	10	-	ND	ND	ND	ND	ND	ND	ND		
2-Chlorotoluene	0.24	1	-	ND	ND	ND	ND	ND	ND	ND		
4-Chlorotoluene	0.13	1	-	ND	ND	ND	ND	ND	ND	ND		
Dibromochloromethane	0.25	1	-	ND	ND	ND	ND	ND	ND	ND		
1,2-Dibromo-3-Chloropropane	1.2	5	-	ND	ND	ND	ND	ND	ND	ND		
1,2-Dibromoethane	0.36	1	-	ND	ND	ND	ND	ND	ND	ND		
Dibromomethane	0.46	1	-	ND	ND	ND	ND	ND	ND	ND		
1,2-Dichlorobenzene	0.46	1	-	ND	ND	ND	ND	ND	ND	ND		
1,3-Dichlorobenzene	0.4	1	-	ND	ND	ND	ND	ND	ND	ND		
1,4-Dichlorobenzene	0.43	1	-	ND	ND	ND	ND	ND	ND	ND		
Dichlorodifluoromethane	0.46	1	-	ND	ND	ND	ND	ND	ND	ND		
1,1-Dichloroethane	0.28	1	-	ND	ND	ND	ND	ND	ND	ND		
1,2-Dichloroethane	0.24	0.5	-	ND	ND	ND	ND	ND	ND	ND		
1,1-Dichloroethene	0.43	1	-	ND	ND	ND	ND	ND	ND	ND		
c-1,2-Dichloroethene	0.48	1	-	ND	ND	ND	ND	ND	ND	ND		
t-1,2-Dichloroethene	0.37	1	-	ND	ND	ND	ND	ND	ND	ND		
1,2-Dichloropropane	0.42	1	-	ND	ND	ND	ND	ND	ND	ND		
1,3-Dichloropropane	0.3	1	-	ND	ND	ND	ND	ND	ND	ND		
2,2-Dichloropropane	0.36	1	-	ND	ND	ND	ND	ND	ND	ND		
1,1-Dichloropropene	0.46	1	-	ND	ND	ND	ND	ND	ND	ND		
c-1,3-Dichloropropene	0.25	0.5	-	ND	ND	ND	ND	ND	ND	ND		
t-1,3-Dichloropropene	0.25	0.5	-	ND	ND	ND	ND	ND	ND	ND		
Ethylbenzene	0.14	1	-	ND	ND	ND	ND	ND	ND	ND		
2-Hexanone	2.1	10	-	ND	ND	ND	ND	ND	ND	ND		
Isopropylbenzene	0.58	1	-	ND	ND	ND	ND	ND	ND	ND		
p-Isopropyltoluene	0.16	1	-	ND	ND	ND	ND	ND	ND	ND		
Methylene Chloride	0.64	10	-	ND	ND	ND	ND	ND	ND	ND		
4-Methyl-2-Pentanone	4.4	10	-	ND	ND	ND	ND	ND	ND	ND		
Naphthalene	2.5	10	-	ND	ND	ND	ND	ND	ND	ND		
n-Propylbenzene	0.17	1	-	ND	ND	ND	ND	ND	ND	ND		
Styrene	0.17	1	-	ND	ND	ND	ND	ND	ND	ND		
1,1,1,2-Tetrachloroethane	0.4	1	-	ND	ND	ND	ND	ND	ND	ND		
1,1,2,2-Tetrachloroethane	0.41	1	-	ND	ND	ND	ND	ND	ND	ND		
Tetrachloroethene	0.39	1	-	ND	ND	ND	ND	ND	ND	ND		
Toluene	0.24	1	-	ND	ND	ND	ND	ND	ND	ND		
1,2,3-Trichlorobenzene	0.51	1	-	ND	ND	ND	ND	ND	ND	ND		
1,2,4-Trichlorobenzene	0.5	1	-	ND	ND	ND	ND	ND	ND	ND		
1,1,1-Trichloroethane	0.3	1	-	ND	ND	ND	ND	ND	ND	ND		
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.78	10	-	ND	ND	ND	ND	ND	ND	ND		
1,1,2-Trichloroethane	0.38	1	-	ND	ND	ND	ND	ND	ND	ND		
Trichloroethene	0.37	1	-	ND	ND	ND	ND	ND	ND	ND		
Trichlorofluoromethane	1.7	10	-	ND	ND	ND	ND	ND	ND	ND		
1,2,3-Trichloropropane	0.64	5	-	ND	ND	ND	ND	ND	ND	ND		
1,2,4-Trimethylbenzene	0.36	1	-	ND	ND	ND	ND	ND	ND	ND		
1,3,5-Trimethylbenzene	0.28	1	-	ND	ND	ND	ND	ND	ND	ND		
Vinyl Acetate	2.8	10	-	ND	ND	ND	ND	ND	ND	ND		
Vinyl Chloride	0.3	0.5	-	ND	ND	ND	ND	ND	ND	ND		
p/m-Xylene	0.3	1	-	ND	ND	ND	ND	ND	ND	ND		
o-Xylene	0.23	1	-	ND	ND	ND	ND	ND	ND	ND		
Methyl-t-Butyl Ether (MTBE)	0.31	1	-	ND	ND	ND	ND	ND	ND	ND		
Tert-Butyl Alcohol (TBA)	4.6	10	-	ND	ND	ND	ND	ND	ND	ND		
Diisopropyl Ether (DIPE)	0.33	2	-	ND	ND	ND	ND	ND	ND	ND		
Ethyl-t-Butyl Ether (ETBE)	0.44	2	-	ND	ND	ND	ND	ND	ND	ND		
Tert-Amyl-Methyl Ether (TAME)	0.22	2	-	ND	ND	ND	ND	ND	ND	ND		
Ethanol	50	100	-	ND	ND	ND	ND	ND	ND	ND		
<b>Dilution Factor:</b>				1	1	1	1	1	1	1		

**NOTES:**

VOC = Volatile Organic Compound  
 MDL = Method Detection Limit  
 RL = Reporting Limit  
 MCLs = California Department of Public Health Maximum Contaminant Levels, Updated July 2014  
 ND = Indicated constituents not detected at or above the MDL  
 J = Analyte detected; however, result is an estimated value between the MDL and RL.  
 µg/L = micrograms per liter  
 B = Analyte was present in the associated method blank  
 - = Not Applicable  
 NE = No MCL Established

**TABLE 2**  
 Water Sample Results for TPH  
 Panama Street - Additional Site Assessment  
 12870 Panama Street  
 Los Angeles, California

TPHcc by EPA Method 8015M in Water				
Sample ID	Sample Date	TPH-GRO (C6-C10) (ug/L)	TPH-DRO (C10-C22) (ug/L)	TPH-ORO (C23+) (ug/L)
<b>MDL (ug/L):</b>		<b>48</b>	<b>7.7-15</b>	<b>51-100</b>
<b>RL (µg/L)</b>		<b>50</b>	<b>48-96</b>	<b>240-480</b>
<b>B13</b>	9/24/2015	ND	ND	ND
<b>B14</b>	9/24/2015	ND	<b>530</b>	<b>3800</b>
<b>B15</b>	9/24/2015	ND	<b>15J</b>	ND
<b>B17</b>	9/24/2015	ND	ND	ND
<b>B18</b>	9/24/2015	ND	ND	ND
<b>B19</b>	9/24/2015	ND	<b>9.4J</b>	ND

**NOTES:**

ND = Indicates constituents not detected above the PQL

MDL = Method Detection Limit

TPH-GRO = total petroleum hydrocarbons as gasoline range organics

TPH-DRO = total petroleum hydrocarbons as diesel range organics

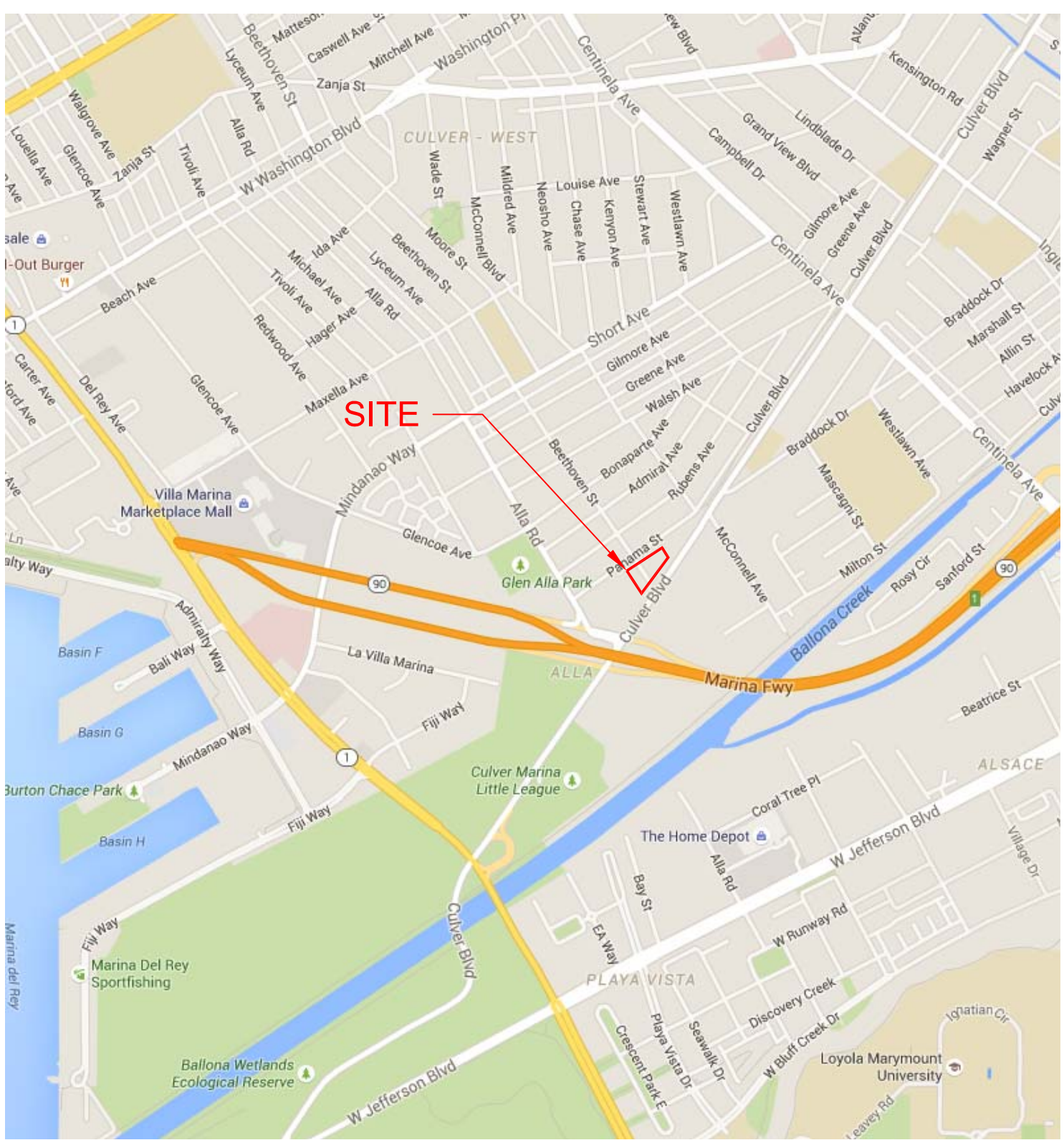
TPH-ORO = total petroleum hydrocarbons as oil range organics

ug/L = micrograms per liter

J = Analyte detected; result is an estimated value between the MDL and the reporting limit.

## FIGURES

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— Approximate Outline of Site

## FIGURE 1: Site Vicinity Map

CLIENT:  
McGuireWoods, LLP

PROJECT #: MCGU-15-5506

SITE LOCATION: 12870 Panama Street  
Los Angeles, California 90066



**ALTA**  
ENVIRONMENTAL

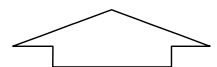
3777 Long Beach Blvd., Annex Bldg.  
Long Beach, CA 90807  
(562) 495-5777 www.altaenviron.com

DRAWN: KD

APPROVED: SR

SCALE:  
None

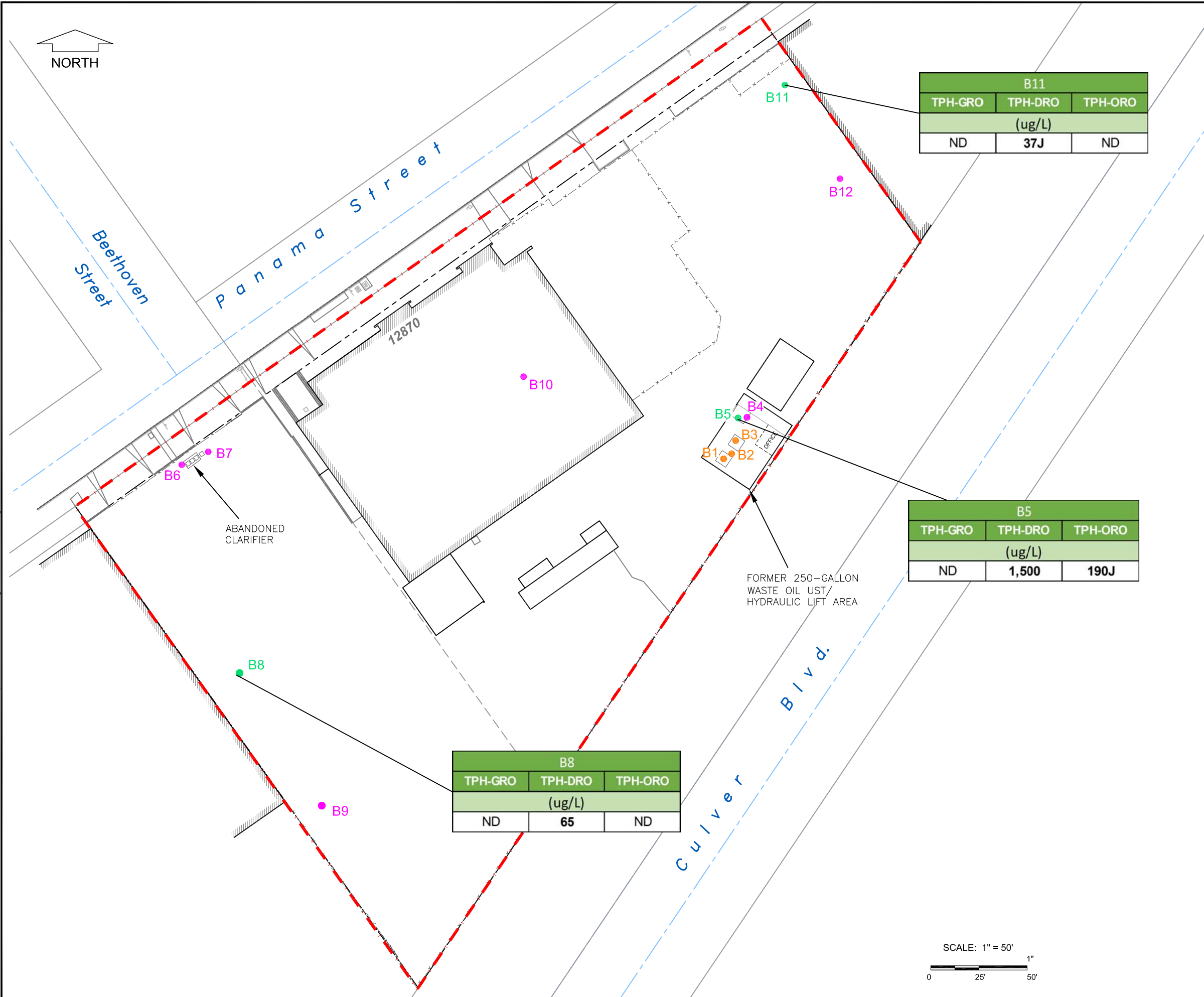
DATE: 10/6/2015



NORTH







B11		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	37J	ND

B5		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	1,500	190J

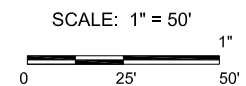
B8		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	65	ND

**LEGEND:**

- Site Boundary
- Center Line
- Property Line
- Fence Line
- Approximate Building Outline
- Approximate Soil Boring Location (Previous Investigation by Alta, Sept. 2015)
- Approximate Soil/Soil Vapor Boring Location (Previous Investigation by Alta, Sept. 2015)
- Approximate Soil/Soil Vapor/Groundwater Boring Location (Previous Investigation by Alta, Sept. 2015)
- Estimated Groundwater Flow Direction

- TPH Total Petroleum Hydrocarbons
- TPH-GRO Total Petroleum Hydrocarbons as Gasoline
- TPH-DRO Total Petroleum Hydrocarbons as Diesel
- TPH-ORO Total Petroleum Hydrocarbons as Oil
- ND Not detected above laboratory reporting limits
- ug/L micrograms per liter
- J Analyte was detected; However, concentration is an estimated value between the method detection limit (MDL) and the practical quantitation limit (PQL)

NOTE: Base map adapted from Site ALTA Survey conducted July, 2015, by Aalbers and Associates.

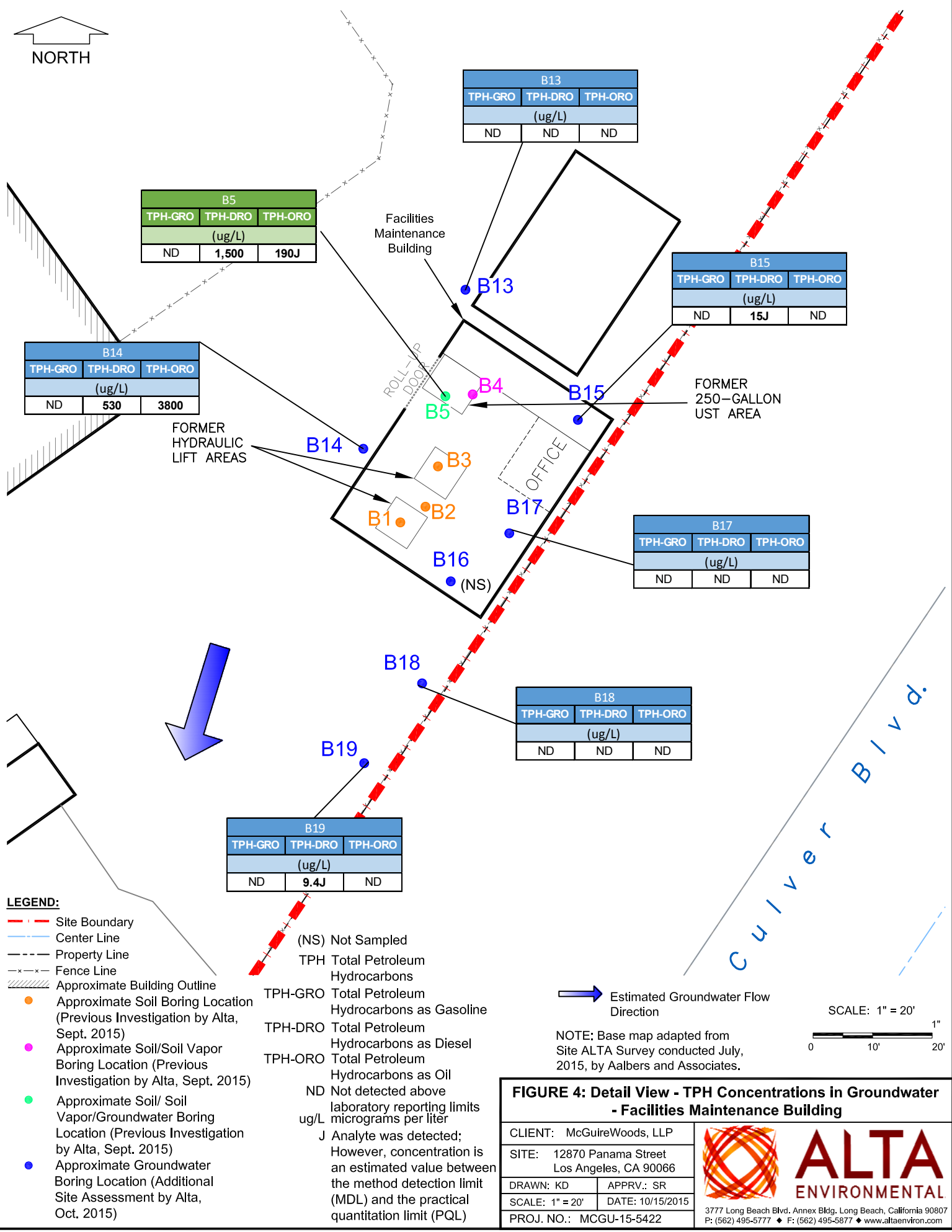


**FIGURE 3: Detected TPH Concentrations in Groundwater Samples - Previous Investigation Borings**

CLIENT: McGuireWoods, LLP	
SITE: 12870 Panama Street Los Angeles, CA 90066	
DRAWN: KD	APPRV.: SR
SCALE: 1" = 50'	DATE: 10/15/2015
PROJ. NO.: MCGU-15-5422	

3777 Long Beach Blvd, Annex Bldg, Long Beach, California 90807  
P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ www.altaenviro.com

\\file01\data2\Clients H-M\McGuire Woods \MCGU\MCGU-15-5506 12870 StepDut\Photos - Drawings\12870\_Panama.dwg



B13		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	ND	ND

B5		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	1,500	190J

B15		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	15J	ND

B14		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	530	3800

B17		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	ND	ND

B18		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	ND	ND

B19		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	9.4J	ND

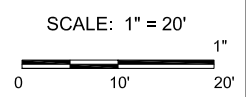
**LEGEND:**

- Site Boundary
- Center Line
- Property Line
- Fence Line
- Approximate Building Outline
- Approximate Soil Boring Location (Previous Investigation by Alta, Sept. 2015)
- Approximate Soil/Soil Vapor Boring Location (Previous Investigation by Alta, Sept. 2015)
- Approximate Soil/ Soil Vapor/Groundwater Boring Location (Previous Investigation by Alta, Sept. 2015)
- Approximate Groundwater Boring Location (Additional Site Assessment by Alta, Oct. 2015)

(NS) Not Sampled  
 TPH Total Petroleum Hydrocarbons  
 TPH-GRO Total Petroleum Hydrocarbons as Gasoline  
 TPH-DRO Total Petroleum Hydrocarbons as Diesel  
 TPH-ORO Total Petroleum Hydrocarbons as Oil  
 ND Not detected above laboratory reporting limits micrograms per liter  
 J Analyte was detected; However, concentration is an estimated value between the method detection limit (MDL) and the practical quantitation limit (PQL)

Estimated Groundwater Flow Direction

NOTE: Base map adapted from Site ALTA Survey conducted July, 2015, by Aalbers and Associates.



**FIGURE 4: Detail View - TPH Concentrations in Groundwater - Facilities Maintenance Building**

CLIENT: McGuireWoods, LLP	
SITE: 12870 Panama Street Los Angeles, CA 90066	
DRAWN: KD	APPRV.: SR
SCALE: 1" = 20'	DATE: 10/15/2015
PROJ. NO.: MCGU-15-5422	

3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807  
 P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ www.altanv.com

\\lbfile01\Doct\2\Clients H-McGuire Woods (MCGU)\MCGU-15-5506 12870 StepDut\Photos - Drawings\12870\_Panama.dwg

## **APPENDIX A**

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### **LACDPH Permit**



# ENVIRONMENTAL HEALTH

## Drinking Water Program



5050 Commerce Drive, Baldwin Park, CA 91706

Telephone: (626) 430-5420 • Facsimile: (626) 813-3013 • Email: [waterquality@ph.lacounty.gov](mailto:waterquality@ph.lacounty.gov)  
[http://publichealth.lacounty.gov/eh/ep/dw/dw\\_main.htm](http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm)

**SR0045846**

**12870 Panama Street, Los Angeles, CA. 90066 – Work Plan Approval**

**TO BE COMPLETED BY APPLICANT:**

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS FOR WELL PERMIT APPROVAL
12870 Panama Street	Los Angeles	90066	<a href="mailto:Steve.ridenour@altaenviron.com">Steve.ridenour@altaenviron.com</a>

**NOTICE:**

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- WORK PLAN APPROVALS ARE LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- ALL FIELD WORK MUST BE CONDUCTED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL GEOLOGIST LICENSED IN THE STATE OF CALIFORNIA.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- **ONCE APPROVED NOTIFY INSPECTOR AT [ytaye@ph.lacounty.gov](mailto:ytaye@ph.lacounty.gov) PREFERABLY 3 BUSINESS DAYS BEFORE WORK IS SCHEDULED TO BEGIN.**

**TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:**

**WORK PLAN APPROVED (7 Hydropunch Borings)**

**DATE: September 23, 2015**

**ADDITIONAL APPROVAL CONDITIONS:**

- Provide the start of project date and time via my email listed above.
- Ensure to backfill the borings from bottom up within 72 hours.



REHS NO. 7115

Yonas Taye, REHS

ANNULAR SEAL FINAL INSPECTION REQUIRED

WELL COMPLETION LOG REQUIRED

DATE ACCEPTED: REHS signature

DATE ACCEPTED: REHS signature

WATER QUALITY—BACTERIOLOGICAL STANDARDS REQUIRED

WATER QUALITY—CHEMICAL STANDARDS REQUIRED

DATE ACCEPTED: REHS signature

DATE ACCEPTED: REHS signature

WATER SUPPLY YIELD REQUIRED

OTHER REQUIREMENT

DATE ACCEPTED: REHS signature

DATE ACCEPTED: REHS signature

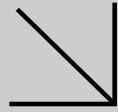
## **APPENDIX B**

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### **Laboratory Analytical Reports of Groundwater Samples**



Calscience



**WORK ORDER NUMBER: 15-09-1939**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For**

**Client:** Alta Environmental

**Client Project Name:** 12870 Panama Street / MCGU-15-5506

**Attention:** Jonathan Barkman  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Approved for release on 10/06/2015 by:  
Vikas Patel  
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

# Contents

Client Project Name: 12870 Panama Street / MCGU-15-5506  
 Work Order Number: 15-09-1939

1	Work Order Narrative. . . . .	3
2	Detections Summary. . . . .	4
3	Client Sample Data. . . . .	5
	3.1 EPA 8015B (M) TPH Motor Oil (Aqueous). . . . .	5
	3.2 EPA 8015B (M) TPH Diesel (Aqueous). . . . .	7
	3.3 EPA 8015B (M) TPH Gasoline (Aqueous). . . . .	9
	3.4 EPA 8260B Volatile Organics + Oxygenates (Aqueous). . . . .	11
4	Quality Control Sample Data. . . . .	32
	4.1 MS/MSD. . . . .	32
	4.2 LCS/LCSD. . . . .	34
5	Sample Analysis Summary. . . . .	38
6	Glossary of Terms and Qualifiers. . . . .	39
7	Chain-of-Custody/Sample Receipt Form. . . . .	40
8	Subcontract Narrative. . . . .	44



**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 09/24/15. They were assigned to Work Order 15-09-1939.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.





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## Detections Summary

Client: Alta Environmental  
 3777 Long Beach Blvd., Annex Building  
 Long Beach, CA 90802-3335

Work Order: 15-09-1939  
 Project Name: 12870 Panama Street / MCGU-15-5506  
 Received: 09/24/15

Attn: Jonathan Barkman

Page 1 of 1

### Client SampleID

<u>Analyte</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	<u>Method</u>	<u>Extraction</u>
B14 (15-09-1939-2)						
TPH as Motor Oil	3800	HD	480	ug/L	EPA 8015B (M)	EPA 3510C
TPH as Diesel	530	HD	96	ug/L	EPA 8015B (M)	EPA 3510C
Carbon Disulfide	0.44	B,J	0.41*	ug/L	EPA 8260B	EPA 5030C
B15 (15-09-1939-3)						
TPH as Diesel	15	HD,J	8.7*	ug/L	EPA 8015B (M)	EPA 3510C
B19 (15-09-1939-6)						
TPH as Diesel	9.4	HD,J	8.0*	ug/L	EPA 8015B (M)	EPA 3510C

Subcontracted analyses, if any, are not included in this summary.

Return to Contents

\* MDL is shown



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B13	15-09-1939-1-I	09/24/15 08:40	Aqueous	GC 47	09/25/15	09/25/15 20:59	150925B13

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	240	51	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	82	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B14	15-09-1939-2-I	09/24/15 10:45	Aqueous	GC 47	09/25/15	09/26/15 10:59	150925B13

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	3800	480	100	2.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	84	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B15	15-09-1939-3-I	09/24/15 10:25	Aqueous	GC 47	09/25/15	09/25/15 21:18	150925B13

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	270	58	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	84	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B17	15-09-1939-4-I	09/24/15 11:05	Aqueous	GC 47	09/25/15	09/25/15 21:35	150925B13

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	260	56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	86	68-140	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B18</b>	<b>15-09-1939-5-I</b>	<b>09/24/15 09:50</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>09/25/15</b>	<b>09/25/15 21:53</b>	<b>150925B13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil	ND	250	53	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	88	68-140	

<b>B19</b>	<b>15-09-1939-6-H</b>	<b>09/24/15 12:00</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>09/25/15</b>	<b>09/25/15 22:10</b>	<b>150925B13</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil	ND	250	53	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	86	68-140	

<b>Method Blank</b>	<b>099-15-278-1003</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>09/25/15</b>	<b>09/25/15 18:40</b>	<b>150925B13</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil	ND	250	53	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	80	68-140	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B13	15-09-1939-1-I	09/24/15 08:40	Aqueous	GC 47	09/25/15	09/25/15 20:59	150925B12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	48	7.7	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	82	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B14	15-09-1939-2-I	09/24/15 10:45	Aqueous	GC 47	09/25/15	09/26/15 10:59	150925B12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	530	96	15	2.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	84	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B15	15-09-1939-3-I	09/24/15 10:25	Aqueous	GC 47	09/25/15	09/25/15 21:18	150925B12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	15	54	8.7	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	84	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B17	15-09-1939-4-I	09/24/15 11:05	Aqueous	GC 47	09/25/15	09/25/15 21:35	150925B12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	52	8.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	86	68-140	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B18</b>	<b>15-09-1939-5-I</b>	<b>09/24/15 09:50</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>09/25/15</b>	<b>09/25/15 21:53</b>	<b>150925B12</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel	ND	50	8.0	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	88	68-140	

<b>B19</b>	<b>15-09-1939-6-H</b>	<b>09/24/15 12:00</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>09/25/15</b>	<b>09/25/15 22:10</b>	<b>150925B12</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel	9.4	50	8.0	1.00	HD,J

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	86	68-140	

<b>Method Blank</b>	<b>099-15-304-1175</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>09/25/15</b>	<b>09/25/15 18:40</b>	<b>150925B12</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel	ND	50	8.0	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	80	68-140	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B13	15-09-1939-1-E	09/24/15 08:40	Aqueous	GC 1	09/25/15	09/25/15 20:03	150925L022

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	50	48	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	66	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B14	15-09-1939-2-E	09/24/15 10:45	Aqueous	GC 1	09/25/15	09/25/15 20:38	150925L022

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	50	48	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	65	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B15	15-09-1939-3-E	09/24/15 10:25	Aqueous	GC 1	09/25/15	09/25/15 21:14	150925L022

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	50	48	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	66	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B17	15-09-1939-4-E	09/24/15 11:05	Aqueous	GC 1	09/25/15	09/25/15 21:49	150925L022

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	50	48	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	65	38-134	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B18</b>	<b>15-09-1939-5-E</b>	<b>09/24/15 09:50</b>	<b>Aqueous</b>	<b>GC 1</b>	<b>09/25/15</b>	<b>09/25/15 23:00</b>	<b>150925L022</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline	ND	50	48	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	67	38-134	

<b>B19</b>	<b>15-09-1939-6-E</b>	<b>09/24/15 12:00</b>	<b>Aqueous</b>	<b>GC 1</b>	<b>09/25/15</b>	<b>09/25/15 23:36</b>	<b>150925L022</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline	ND	50	48	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	67	38-134	

<b>Method Blank</b>	<b>099-12-436-10337</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 1</b>	<b>09/25/15</b>	<b>09/25/15 14:43</b>	<b>150925L022</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline	ND	50	48	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	64	38-134	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 1 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B13	15-09-1939-1-A	09/24/15 08:40	Aqueous	GC/MS LL	09/25/15	09/25/15 16:53	150925L007

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 2 of 21

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 3 of 21

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	98	78-126	
1,2-Dichloroethane-d4	91	75-135	
Toluene-d8	98	80-120	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 4 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B14	15-09-1939-2-A	09/24/15 10:45	Aqueous	GC/MS LL	09/25/15	09/25/15 17:28	150925L007

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	0.44	10	0.41	1.00	B,J
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 5 of 21

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 6 of 21

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	90	80-120	
Dibromofluoromethane	132	78-126	2,7
1,2-Dichloroethane-d4	128	75-135	
Toluene-d8	97	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 7 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B15	15-09-1939-3-A	09/24/15 10:25	Aqueous	GC/MS LL	09/25/15	09/25/15 18:04	150925L007

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 8 of 21

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 9 of 21

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	90	80-120	
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	95	75-135	
Toluene-d8	99	80-120	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 10 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B17	15-09-1939-4-A	09/24/15 11:05	Aqueous	GC/MS LL	09/25/15	09/25/15 18:39	150925L007

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 11 of 21

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 12 of 21

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	95	75-135	
Toluene-d8	99	80-120	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 13 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B18	15-09-1939-5-A	09/24/15 09:50	Aqueous	GC/MS LL	09/25/15	09/25/15 19:15	150925L007

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 14 of 21

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 15 of 21

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	96	75-135	
Toluene-d8	100	80-120	

## Analytical Report

Alta Environmental	Date Received:	09/24/15
3777 Long Beach Blvd., Annex Building	Work Order:	15-09-1939
Long Beach, CA 90802-3335	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 16 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B19	15-09-1939-6-A	09/24/15 12:00	Aqueous	GC/MS LL	09/25/15	09/25/15 19:50	150925L007

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 17 of 21

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 18 of 21

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	96	75-135	
Toluene-d8	97	80-120	

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 19 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-18274	N/A	Aqueous	GC/MS LL	09/25/15	09/25/15 13:55	150925L007

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	0.46	10	0.41	1.00	J
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 20 of 21

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 21 of 21

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	97	78-126	
1,2-Dichloroethane-d4	90	75-135	
Toluene-d8	97	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5506

Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-09-1955-5	Sample	Aqueous	GC 1	09/25/15	09/25/15 15:19	150925S014
15-09-1955-5	Matrix Spike	Aqueous	GC 1	09/25/15	09/25/15 15:54	150925S014
15-09-1955-5	Matrix Spike Duplicate	Aqueous	GC 1	09/25/15	09/25/15 16:30	150925S014

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	2000	1630	81	1660	83	68-122	2	0-18	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: 12870 Panama Street / MCGU-15-5506

Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-09-1941-1	Sample	Aqueous	GC/MS LL	09/25/15	09/25/15 14:31	150925S008
15-09-1941-1	Matrix Spike	Aqueous	GC/MS LL	09/25/15	09/25/15 11:34	150925S008
15-09-1941-1	Matrix Spike Duplicate	Aqueous	GC/MS LL	09/25/15	09/25/15 12:09	150925S008

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	51.84	104	49.26	99	74-122	5	0-21	
Carbon Tetrachloride	ND	50.00	46.94	94	45.53	91	60-144	3	0-21	
Chlorobenzene	ND	50.00	53.79	108	52.80	106	73-120	2	0-22	
1,2-Dibromoethane	ND	50.00	50.36	101	50.72	101	80-122	1	0-20	
1,2-Dichlorobenzene	ND	50.00	54.64	109	55.35	111	70-120	1	0-26	
1,2-Dichloroethane	ND	50.00	45.77	92	44.33	89	64-142	3	0-20	
1,1-Dichloroethene	ND	50.00	48.68	97	47.09	94	52-136	3	0-21	
Ethylbenzene	ND	50.00	56.78	114	56.06	112	77-125	1	0-24	
Toluene	ND	50.00	56.27	113	53.67	107	72-126	5	0-23	
Trichloroethene	ND	50.00	51.30	103	50.26	101	74-128	2	0-22	
Vinyl Chloride	ND	50.00	57.70	115	56.20	112	67-133	3	0-20	
p/m-Xylene	ND	100.0	110.6	111	108.7	109	63-129	2	0-25	
o-Xylene	ND	50.00	55.74	111	54.89	110	62-128	2	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	50.26	101	50.43	101	68-134	0	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	260.5	104	237.6	95	65-143	9	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	55.06	110	54.79	110	61-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	52.75	105	50.98	102	64-136	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	52.87	106	51.26	103	67-133	3	0-20	
Ethanol	ND	500.0	529.9	106	525.2	105	34-178	1	0-58	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS/LCSD

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5506

Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-278-1003	LCS	Aqueous	GC 47	09/25/15	09/25/15 19:33	150925B13			
099-15-278-1003	LCSD	Aqueous	GC 47	09/25/15	09/25/15 19:50	150925B13			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	2000	1893	95	1939	97	75-117	2	0-13	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - LCS/LCSD

Alta Environmental  
 3777 Long Beach Blvd., Annex Building  
 Long Beach, CA 90802-3335

Date Received: 09/24/15  
 Work Order: 15-09-1939  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5506

Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-304-1175	LCS	Aqueous	GC 47	09/25/15	09/25/15 18:57	150925B12
099-15-304-1175	LCSD	Aqueous	GC 47	09/25/15	09/25/15 19:15	150925B12

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	1801	90	1814	91	75-117	1	0-13	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





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## Quality Control - LCS

Alta Environmental	Date Received:	09/24/15
3777 Long Beach Blvd., Annex Building	Work Order:	15-09-1939
Long Beach, CA 90802-3335	Preparation:	EPA 5030C
	Method:	EPA 8015B (M)
Project: 12870 Panama Street / MCGU-15-5506		Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-12-436-10337</b>	<b>LCS</b>	<b>Aqueous</b>	<b>GC 1</b>	<b>09/25/15</b>	<b>09/25/15 14:08</b>	<b>150925L022</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline		2000	1861	93	78-120	


  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: 12870 Panama Street / MCGU-15-5506

Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>099-14-001-18274</b>	<b>LCS</b>	<b>Aqueous</b>	<b>GC/MS LL</b>	<b>09/25/15</b>	<b>09/25/15 10:56</b>	<b>150925L007</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene		50.00	45.45	91	80-120	73-127	
Carbon Tetrachloride		50.00	39.83	80	67-139	55-151	
Chlorobenzene		50.00	49.55	99	78-120	71-127	
1,2-Dibromoethane		50.00	48.62	97	80-120	73-127	
1,2-Dichlorobenzene		50.00	50.09	100	63-129	52-140	
1,2-Dichloroethane		50.00	42.85	86	70-130	60-140	
1,1-Dichloroethene		50.00	41.04	82	66-126	56-136	
Ethylbenzene		50.00	50.33	101	80-123	73-130	
Toluene		50.00	49.07	98	80-120	73-127	
Trichloroethene		50.00	45.56	91	80-122	73-129	
Vinyl Chloride		50.00	47.66	95	70-130	60-140	
p/m-Xylene		100.0	98.71	99	75-123	67-131	
o-Xylene		50.00	50.17	100	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)		50.00	47.52	95	69-129	59-139	
Tert-Butyl Alcohol (TBA)		250.0	226.4	91	69-129	59-139	
Diisopropyl Ether (DIPE)		50.00	50.84	102	68-128	58-138	
Ethyl-t-Butyl Ether (ETBE)		50.00	48.84	98	63-135	51-147	
Tert-Amyl-Methyl Ether (TAME)		50.00	49.26	99	67-133	56-144	
Ethanol		500.0	489.6	98	42-168	21-189	

Total number of LCS compounds: 19

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

## Sample Analysis Summary Report

Work Order: 15-09-1939

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 8015B (M)	EPA 3510C	682	GC 47	1
EPA 8015B (M)	EPA 5030C	902	GC 1	2
EPA 8260B	EPA 5030C	486	GC/MS LL	2

## Glossary of Terms and Qualifiers

Work Order: 15-09-1939

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.







SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: ALTA ENVIRONMENTAL

DATE: 09 / 24 / 2015

TEMPERATURE: (Criteria: 0.0°C - 6.0°C, not frozen except sediment/tissue)
Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 2.3 °C (w/ CF): 2.1 °C; [X] Blank [ ] Sample
[ ] Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_)
[ ] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling
[ ] Sample(s) received at ambient temperature; placed on ice for transport by courier
Ambient Temperature: [ ] Air [ ] Filter Checked by: SJ

CUSTODY SEAL:
Cooler [ ] Present and Intact [ ] Present but Not Intact [X] Not Present [ ] N/A Checked by: SJ
Sample(s) [ ] Present and Intact [ ] Present but Not Intact [X] Not Present [ ] N/A Checked by: 1017

Table with columns: SAMPLE CONDITION, Yes, No, N/A. Rows include Chain-of-Custody (COC) document(s) received with samples, COC document(s) received complete, Sampler's name indicated on COC, Sample container label(s) consistent with COC, Proper containers for analyses requested, Sufficient volume/mass for analyses requested, Samples received within holding time, Aqueous samples for certain analyses received within 15-minute holding time, Proper preservation chemical(s) noted on COC and/or sample container, Container(s) for certain analysis free of headspace, Tedlar™ bag(s) free of condensation.

CONTAINER TYPE: (Trip Blank Lot Number: \_\_\_\_\_)
Aqueous: [ ] VOA [X] VOAh [ ] VOAna2 [ ] 100PJ [ ] 100PJna2 [ ] 125AGB [ ] 125AGBh [ ] 125AGBp [ ] 125PB
[ ] 125PBzanna [ ] 250AGB [ ] 250CGB [ ] 250CGBs [ ] 250PB [ ] 250PBn [ ] 500AGB [X] 500AGJ [ ] 500AGJs
[ ] 500PB [ ] 1AGB [ ] 1AGBna2 [ ] 1AGBs [ ] 1PB [ ] 1PBna [ ] \_\_\_\_\_ [ ] \_\_\_\_\_ [ ] \_\_\_\_\_ [ ] \_\_\_\_\_
Solid: [ ] 4ozCGJ [ ] 8ozCGJ [ ] 16ozCGJ [ ] Sleeve (\_\_\_\_\_) [ ] EnCores® (\_\_\_\_\_) [ ] TerraCores® (\_\_\_\_\_) [ ] \_\_\_\_\_
Air: [ ] Tedlar™ [ ] Canister [ ] Sorbent Tube [ ] PUF [ ] \_\_\_\_\_ Other Matrix (\_\_\_\_): [ ] \_\_\_\_\_ [ ] \_\_\_\_\_

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag
Preservative: b = buffered, f = filtered, h = HCl, n = HNO3, na = NaOH, na2 = Na2S2O3, p = H3PO4, Labeled/Checked by: 1017
s = H2SO4, u = ultra-pure, zanna = Zn(CH3CO2)2 + NaOH Reviewed by: 681.







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## Subcontractor Analysis Report

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Work Order: 15-09-1939

Page 1 of 1

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One or more samples in this work order have tests that were subcontracted. The subcontract report(s) follows.

For subcontracted tests, please reference the laboratory information noted below.

  
Return to Contents

## **APPENDIX C**

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### **Boring Logs**

# ALTA ENVIRONMENTAL Boring Log

PROJECT NUMBER <u>MCGU-15-5506</u>	BORING/WELL NUMBER <u>B13</u>
PROJECT NAME <u>Additional Site Assessment</u>	DATE DRILLED <u>10/15/2015</u>
LOCATION <u>12870 Panama Street, Los Angeles, CA</u>	CASING DIAMETER/TYPE <u>N/A</u>
DRILLING METHOD <u>Geoprobe 6600</u>	SLOT SIZE <u>0.02</u> SCREEN INTERVAL <u>10-20</u>
SAMPLING METHOD <u>Direct-push</u>	GRAVEL PACK TYPE <u>N/A</u>
BORING DIAMETER <u>2.25"</u>	DRILLING CONTRACTOR <u>Strongarm Environmental Services</u>
BORING DEPTH (FT BGS) <u>20</u> WELL DEPTH (FT BGS) <u>20</u>	DEPTH TO WATER DURING DRILLING (FT BGS) <u>13</u>
LOGGED BY <u>K. Drake</u> CHECKED BY <u>S. Ridenour</u>	DEPTH TO WATER AFTER INSTALLATION (FT BGS) <u>N/A</u>
REMARKS <u>PID calibrated to 50 ppmv hexane</u>	

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
					AC	[Solid black bar]			<b>4" Asphalt</b>
					CLS	[Diagonal hatching]			<b>Sandy Clay</b> , (fill) trace silt and small gravel, medium to dark brown, stiff, very slightly moist, trace amounts of brick and root debris, no staining, no odor
				5	CL-ML	[Diagonal hatching]	← Temporary 2" Diameter Blank PVC Casing		<b>Silty Lean Clay</b> , low plasticity, stiff, medium brown mottled with dark brown and dark gray, very slightly moist, no staining, no odor
					CLS	[Diagonal hatching]			<b>Sandy Clay</b> , (fill) with trace silt, trace amounts small gravel, trace brick and root debris, medium brown mottled with black and greenish gray, stiff, very slightly moist, no staining, no odor
					SP	[Dotted pattern]			<b>Very Fine Sand with Silt</b> , soft, medium brown, very slightly moist, no staining, no odor
				10	MLS	[Dotted pattern]			<b>Sandy Silt</b> , slightly clayey, soft, low plasticity, medium brown, moist, no staining, no odor
					SP	[Dotted pattern]	← Temporary 2" Diameter, 0.02" Slotted PVC Screen		<b>Very Fine Sand</b> , trace silt and medium grains, soft, medium brown, moist, no staining, no odor
					ML	[Vertical hatching]			<b>Silt</b> , soft, medium brown, wet, no staining, no odor
				15	CL-CH	[Diagonal hatching]			<b>6" layer of well graded sand at 13.5' bgs</b> <b>Clay</b> , lean, soft, medium brown, wet, increase in plasticity and density with depth, no staining, no odor
				20					Groundwater encountered at 13' bgs. Boring Terminated at 20' bgs.

WELL-MODIFIED MCGU-15-5422.GPJ WELL\_GDT 10/15/15

# ALTA ENVIRONMENTAL Boring Log







**PROJECT NUMBER** MCGU-15-5506 **BORING/WELL NUMBER** B14  
**PROJECT NAME** Additional Site Assessment **DATE DRILLED** 10/15/2015  
**LOCATION** 12870 Panama Street, Los Angeles, CA **CASING DIAMETER/TYPE** N/A  
**DRILLING METHOD** Geoprobe 6600 **SLOT SIZE** 0.02 **SCREEN INTERVAL** 10-20  
**SAMPLING METHOD** Direct-push **GRAVEL PACK TYPE** N/A  
**BORING DIAMETER** 2.25" **DRILLING CONTRACTOR** Strongarm Environmental Services  
**BORING DEPTH (FT BGS)** 20 **WELL DEPTH (FT BGS)** 20 **DEPTH TO WATER DURING DRILLING (FT BGS)** 12  
**LOGGED BY** K.Drake **CHECKED BY** S. Ridenour **DEPTH TO WATER AFTER INSTALLATION (FT BGS)** N/A  
**REMARKS** PID calibrated to 50 ppmv hexane

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
				0	AC				<b>4" Asphalt</b>
				3	CLS				<p><b>Sandy Clay</b>, (fill) with trace silt and very fine sand, trace small gravel, medium brown, stiff, very slightly moist, no staining, no odor</p> <p>1-foot thick layer of dark staining and slight hydrocarbon-like odor at 3' bgs</p>
				5	CL		←		<p><b>Clay with Sand</b>, low plasticity, stiff, trace small gravel, mottled medium brown, gray, and orangish brown, no staining, no odor</p>
				7	SWG				<p><b>Gravelly Sand</b>, (fill) well graded fine to coarse grained sand, small to medium gravel, trace amounts of brick and root debris, medium to dark brown, dry, no staining, no odor</p>
				10	SM				<p><b>Silty Sand</b>, well graded, medium brown, wet, no staining, no odor</p> <p>wet at 12' bgs</p>
				13	ML		↕		<p><b>Silt</b>, trace fine sands, medium brown, soft, wet, no staining, no odor</p>
				18	CL				<p><b>Clay</b>, medium plasticity, soft, mottled brown, gray, and orangish brown, moist, no staining, no odor</p>
				20					<p>Groundwater encountered at 12' bgs. Boring Terminated at 20' bgs.</p>

WELL-MODIFIED MCGU-15-5422.GPJ WELL\_GDT 10/15/15

# ALTA ENVIRONMENTAL Boring Log

PROJECT NUMBER <u>MCGU-15-5506</u>	BORING/WELL NUMBER <u>B15</u>
PROJECT NAME <u>Additional Site Assessment</u>	DATE DRILLED <u>10/15/2015</u>
LOCATION <u>12870 Panama Street, Los Angeles, CA</u>	CASING DIAMETER/TYPE <u>N/A</u>
DRILLING METHOD <u>Hand-auger</u>	SLOT SIZE <u>0.02</u> SCREEN INTERVAL <u>10-15</u>
SAMPLING METHOD <u>Hand-auger</u>	GRAVEL PACK TYPE <u>N/A</u>
BORING DIAMETER <u>2.25"</u>	DRILLING CONTRACTOR <u>Strongarm Environmental Services</u>
BORING DEPTH (FT BGS) <u>20</u> WELL DEPTH (FT BGS) <u>15</u>	DEPTH TO WATER DURING DRILLING (FT BGS) <u>13</u>
LOGGED BY <u>K. Drake</u> CHECKED BY <u>S. Ridenour</u>	DEPTH TO WATER AFTER INSTALLATION (FT BGS) <u>N/A</u>
REMARKS <u>PID calibrated to 50 ppmv hexane</u>	

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
				0	AC				<b>4" Concrete</b> Sandy Clay, (fill) with trace silt and small gravel, medium brown to dark brown, stiff, very slightly moist, trace amounts of brick and root debris, no staining, no odor
				5	CLS				
				5	CL-ML		← Temporary 2" Diameter Blank PVC Casing		Silty Clay, low plasticity, stiff, medium brown mottled with dark brown/gray, very slightly moist, no staining, no odor
				10	MLS				Sandy Silt, slightly clayey, soft, low plasticity, medium brown, moist, no staining, no odor
				10	ML		← Temporary 2" Diameter, 0.02" Slotted PVC Screen		Silt, trace fine sands, soft, medium brown, moist, no staining, no odor  wet at 13' bgs.
				15	CL				Clay, medium plasticity, medium brown, wet to moist, no staining, no odor
				20					Groundwater encountered at 13' bgs. Boring Terminated at 15' bgs.

WELL-MODIFIED MCGU-15-5422.GPJ WELL\_GDT 10/15/15

# ALTA ENVIRONMENTAL Boring Log

**PROJECT NUMBER** MCGU-15-5506 **BORING/WELL NUMBER** B16  
**PROJECT NAME** Additional Site Assessment **DATE DRILLED** 10/15/2015  
**LOCATION** 12870 Panama Street, Los Angeles, CA **CASING DIAMETER/TYPE** N/A  
**DRILLING METHOD** Geoprobe 6600 **SLOT SIZE** 0.02 **SCREEN INTERVAL** 11-16  
**SAMPLING METHOD** Direct-push **GRAVEL PACK TYPE** N/A  
**BORING DIAMETER** 2.25" **DRILLING CONTRACTOR** Strongarm Environmental Services  
**BORING DEPTH (FT BGS)** 20 **WELL DEPTH (FT BGS)** 16 **DEPTH TO WATER DURING DRILLING (FT BGS)** 12.5  
**LOGGED BY** K.Drake **CHECKED BY** S. Ridenour **DEPTH TO WATER AFTER INSTALLATION (FT BGS)** N/A  
**REMARKS** PID calibrated to 50 ppmv hexane; No GW sample collected - insufficient water re-charged into well

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
				0	AC	[Solid black]			<b>4" Concrete</b>
				5	CLS	[Diagonal lines]			<b>Sandy Clay</b> , (fill) with trace sands and small gravel, medium brown mottled with dark brown to black, stiff, dry, no staining, no odor
				5	CL	[Diagonal lines]	← Temporary 2" Diameter Blank PVC Casing		<b>Silty Clay</b> , low plasticity, stiff, trace small gravel, mottled medium brown, gray, and orangish brown, very slightly moist, no staining, no odor
				10	SWG	[Dotted pattern]			<b>Gravelly Sand</b> , (fill) well graded fine to coarse grained sand, small to medium gravel, medium brown, very slightly moist, no staining, no odor
				10	SP	[Dotted pattern]	← Temporary 2" Diameter, 0.02" Slotted PVC Screen		<b>Silty Sand</b> , well graded sand, medium brown, moist, no staining, no odor  wet at 12.5' bgs
				15	ML	[Horizontal lines]			<b>Silt</b> , trace fine sands, medium brown, soft, wet, no staining, no odor
				15	CL	[Diagonal lines]			<b>Clay</b> , medium plasticity, soft, mottled brown, gray, and orangish brown, moist, no staining, no odor
				20					Groundwater encountered at 12.5' bgs. Boring Terminated at 16' bgs.

WELL-MODIFIED MCGU-15-5422.GPJ WELL\_GDT 10/15/15

# ALTA ENVIRONMENTAL Boring Log

PROJECT NUMBER <u>MCGU-15-5506</u>	BORING/WELL NUMBER <u>B17</u>
PROJECT NAME <u>Additional Site Assessment</u>	DATE DRILLED <u>10/15/2015</u>
LOCATION <u>12870 Panama Street, Los Angeles, CA</u>	CASING DIAMETER/TYPE <u>N/A</u>
DRILLING METHOD <u>Geoprobe 6600</u>	SLOT SIZE <u>0.02</u> SCREEN INTERVAL <u>11-16</u>
SAMPLING METHOD <u>Direct-push</u>	GRAVEL PACK TYPE <u>N/A</u>
BORING DIAMETER <u>2.25"</u>	DRILLING CONTRACTOR <u>Strongarm Environmental Services</u>
BORING DEPTH (FT BGS) <u>20</u> WELL DEPTH (FT BGS) <u>16</u>	DEPTH TO WATER DURING DRILLING (FT BGS) <u>12.5</u>
LOGGED BY <u>K.Drake</u> CHECKED BY <u>S. Ridenour</u>	DEPTH TO WATER AFTER INSTALLATION (FT BGS) <u>N/A</u>
REMARKS <u>PID calibrated to 50 ppmv hexane</u>	

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
				AC					<b>4" Concrete</b>
				CLS					<b>Sandy Clay</b> , (fill) with trace sands and small gravel, medium brown mottled with dark brown to black, stiff, dry, no staining, no odor
				5			← Temporary 2" Diameter Blank PVC Casing		
				CL					<b>Silty Clay</b> , low plasticity, stiff, trace small gravel, mottled medium brown, gray, and orangish brown, very slightly moist, no staining, no odor
				SWG					<b>Gravelly Sand</b> , (fill) well graded fine to coarse grained sand, small to medium gravel, medium brown, very slightly moist, no staining, no odor
				10					
				SM			← Temporary 2" Diameter, 0.02" Slotted PVC Screen		<b>Silty Sand</b> , well graded, medium brown, moist, no staining, no odor  wet at 12.5' bgs
				15					
				ML					<b>Silt</b> , trace fine sands, medium brown, soft, wet, no staining, no odor
				CL					<b>Clay</b> , medium plasticity, soft, mottled brown, gray, and orangish brown, moist, no staining, no odor
				20					Groundwater encountered at 12.5' bgs. Boring Terminated at 16' bgs.

WELL-MODIFIED MCGU-15-5422.GPJ WELL\_GDT 10/15/15

# ALTA ENVIRONMENTAL

## Boring Log

**PROJECT NUMBER** MCGU-15-5506  
**PROJECT NAME** Additional Site Assessment  
**LOCATION** 12870 Panama Street, Los Angeles, CA  
**DRILLING METHOD** Geoprobe 6600  
**SAMPLING METHOD** Direct-push  
**BORING DIAMETER** 2.25"  
**BORING DEPTH (FT BGS)** 20      **WELL DEPTH (FT BGS)** 20  
**LOGGED BY** K.Drake      **CHECKED BY** S. Ridenour  
**REMARKS** PID calibrated to 50 ppmv hexane

**BORING/WELL NUMBER** B18  
**DATE DRILLED** 10/15/2015  
**CASING DIAMETER/TYPE** N/A  
**SLOT SIZE** 0.02      **SCREEN INTERVAL** 10-20  
**GRAVEL PACK TYPE** N/A  
**DRILLING CONTRACTOR** Strongarm Environmental Services  
**DEPTH TO WATER DURING DRILLING (FT BGS)** 13  
**DEPTH TO WATER AFTER INSTALLATION (FT BGS)** N/A

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
				0	AC				<b>4" Asphalt</b>
				1	CLS				<b>Sandy Clay</b> , (fill) trace silt and small gravel, trace amounts of brick and root debris, medium brown, stiff, very slightly moist, no staining, no odor
				5	SC		← Temporary 2" Diameter Blank PVC Casing		<b>Clayey Sand with Silt</b> , (fill) low plasticity, trace small gravel, stiff, medium brown mottled with gray and orangish brown, very slightly moist, no staining, no odor
				10	SP				<b>Very Fine Sand with Gravel</b> , (fill) trace small gravel and silt, trace brick and debris, soft, medium brown, very slightly moist, no staining, no odor
				13	ML		← Temporary 2" Diameter, 0.02" Slotted PVC Screen		<b>Silt</b> , slightly clayey, low plasticity, trace fine sand, low plasticity, medium brown, slightly moist, no staining, no odor
				15	SW				<b>Sand with Silt</b> , well graded sand, medium brown, soft, wet, no staining, no odor
				20	CL-CH				<b>Clay</b> , lean, soft, increase in plasticity and density with depth, medium brown, moist, no staining, no odor
									Groundwater encountered at 13' bgs. Boring Terminated at 20' bgs.

WELL-MODIFIED MCGU-15-5422.GPJ WELL\_GDT 10/15/15



# ALTA ENVIRONMENTAL Boring Log

PROJECT NUMBER <u>MCGU-15-5506</u>	BORING/WELL NUMBER <u>B19</u>
PROJECT NAME <u>Additional Site Assessment</u>	DATE DRILLED <u>10/15/2015</u>
LOCATION <u>12870 Panama Street, Los Angeles, CA</u>	CASING DIAMETER/TYPE <u>N/A</u>
DRILLING METHOD <u>Geoprobe 6600</u>	SLOT SIZE <u>0.02</u> SCREEN INTERVAL <u>11-16</u>
SAMPLING METHOD <u>Direct-push</u>	GRAVEL PACK TYPE <u>N/A</u>
BORING DIAMETER <u>2.25"</u>	DRILLING CONTRACTOR <u>Strongarm Environmental Services</u>
BORING DEPTH (FT BGS) <u>20</u> WELL DEPTH (FT BGS) <u>16</u>	DEPTH TO WATER DURING DRILLING (FT BGS) <u>13</u>
LOGGED BY <u>K.Drake</u> CHECKED BY <u>S. Ridenour</u>	DEPTH TO WATER AFTER INSTALLATION (FT BGS) <u>N/A</u>
REMARKS <u>PID calibrated to 50 ppmv hexane</u>	

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
				0	AC				<b>4" Asphalt</b>
				1	CLS				<b>Sandy Clay</b> , (fill) trace silt and small gravel, trace amounts of brick and root debris, medium brown, stiff, very slightly moist, no staining, no odor
				5	SC		← Temporary 2" Diameter Blank PVC Casing		<b>Clayey Sand with Silt</b> , (fill) low plasticity, trace small gravel, stiff, medium brown mottled with gray and orangish brown, very slightly moist, no staining, no odor
				10	SP				<b>Very Fine Sand with Gravel</b> , (fill) trace small gravel and silt, trace brick and debris, soft, medium brown, very slightly moist, no staining, no odor
				12	ML		← Temporary 2" Diameter, 0.02" Slotted PVC Screen		<b>Silt</b> , slightly clayey, low plasticity, trace fine sand, low plasticity, medium brown, slightly moist, no staining, no odor
				15	SW				<b>Sand with Silt</b> , well graded sand, medium brown, soft, wet, no staining, no odor
				16	CL				<b>Clay</b> , lean, soft, medium brown, moist, no staining, no odor
				20					Groundwater encountered at 13' bgs. Boring Terminated at 16' bgs.

WELL-MODIFIED MCGU-15-5422.GPJ WELL\_GDT 10/15/15



December 10, 2015

Los Angeles Fire Department  
Underground Storage Tank – Enforcement Unit  
200 North Main Street, Room 1700  
Los Angeles, California 90012

**Re: Groundwater Assessment Results, Former Underground Storage Tank Site, 12870  
Panama Street, Los Angeles, California 90066**

To Whom It May Concern:

Alta Environmental (Alta) submits this letter-report to provide a brief summary of the groundwater analytical results at the subject site. The Site is an approximately 2.15-acre property located within a mixed commercial and residential area of Los Angeles, California. Two subsurface hydraulic lifts and one 250-gallon waste oil UST were formerly located within a 1,424 square-foot facilities maintenance building located along the southeastern property boundary. The UST and the two hydraulic lifts were removed and properly disposed under City of Los Angeles Fire Department (LAFD) oversight. Following UST removal, soils impacted by Total Petroleum Hydrocarbons (TPH) were overexcavated to 10 feet below ground surface (bgs), and on April 1, 1996, a no further action finding was later issued by the LAFD.

As indicated on the attached figure, groundwater samples were recently collected from several borings drilled at locations upgradient and downgradient of the former UST area. The borings were drilled into the groundwater utilizing both hand augering and direct-push drilling methods. Upon reaching groundwater, a temporary well screen was advanced into the formation to facilitate the collection of groundwater samples. The samples were submitted to a state-certified laboratory for analysis of TPH as gasoline (TPH-g), diesel (TPH-d), and waste oil (TPH-o) by EPA Method 8015M and for volatile organic compounds (VOCs) by EPA Method 8260B.

The distribution of TPH concentrations are provided in the attached Figure. Tabulated summaries of the VOC and TPH results are provided in Tables 1 and 2, attached. The laboratory reports of the groundwater samples are also attached. A summary of the groundwater investigation results are as follows:

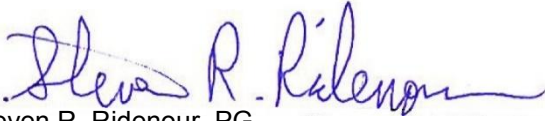
- Groundwater was encountered at approximately 12 to 13.5 feet bgs.
- Concentrations of TPH-d were detected in the groundwater samples, ranging up to 1,500 micrograms per liters ( $\mu\text{g/L}$ ) at Boring B5.
- Concentrations of TPH-o were also detected in the groundwater samples, ranging up to 3,800  $\mu\text{g/L}$  at Boring B14.
- No concentrations of TPH-g were detected.
- Except for a trace (J-flag) concentrations of 2-butanone and carbon disulfide (also detected in the laboratory method blank sample) from Borings B5 and B14, no VOCs in groundwater samples were detected.

Please review the enclosed analytical data and advise on further action. We can be reached at 562-495-5777 to discuss. Your prompt response will be greatly appreciated.

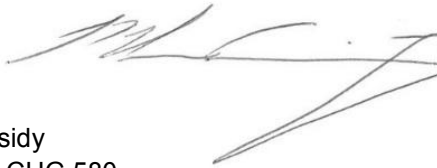
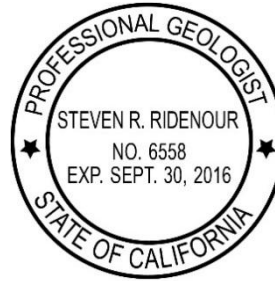
**Alta Environmental**

3777 Long Beach Boulevard Annex Building Long Beach CA 90807 United States of America  
T (562) 495 5777 F (562) 495 5877 Toll-free (US only) (800) 777-0605 altaenviron.com

Respectfully submitted by:



Steven R. Ridenour, PG  
Senior Geologist III



Mike Cassidy  
PG 6281, CHG 580  
Vice President – Site Assessment and Remediation  
Branch Manager – Irvine Office



Attachments:

Figure – Detail View: TPH Concentrations in Groundwater  
Tables 1 and 2  
Laboratory Analytical Report of Groundwater Samples



B13		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	ND	ND

B5		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	1,500	190J

B15		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	15J	ND

B14		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	530	3800

B17		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	ND	ND

B18		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	ND	ND

B19		
TPH-GRO	TPH-DRO	TPH-ORO
(ug/L)		
ND	9.4J	ND

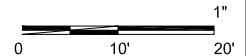
**LEGEND:**

- Site Boundary
- Center Line
- Property Line
- Fence Line
- Approximate Building Outline
- Approximate Soil Boring Location (Previous Investigation by Alta, Sept. 2015)
- Approximate Soil/Soil Vapor Boring Location (Previous Investigation by Alta, Sept. 2015)
- Approximate Soil/ Soil Vapor/Groundwater Boring Location (Previous Investigation by Alta, Sept. 2015)
- Approximate Groundwater Boring Location (Additional Site Assessment by Alta, Oct. 2015)

(NS) Not Sampled  
 TPH Total Petroleum Hydrocarbons  
 TPH-GRO Total Petroleum Hydrocarbons as Gasoline  
 TPH-DRO Total Petroleum Hydrocarbons as Diesel  
 TPH-ORO Total Petroleum Hydrocarbons as Oil  
 ND Not detected above laboratory reporting limits micrograms per liter  
 J Analyte was detected; However, concentration is an estimated value between the method detection limit (MDL) and the practical quantitation limit (PQL)

Estimated Groundwater Flow Direction

SCALE: 1" = 20'



NOTE: Base map adapted from Site ALTA Survey conducted July, 2015, by Aalbers and Associates.

**Detail View: TPH Concentrations in Groundwater  
 Facilities Maintenance Building**

SITE: 12870 Panama Street  
 Los Angeles, CA 90066

DRAWN: KD      APPRV.: SR

SCALE: 1" = 20'      DATE: 10/15/2015

PROJ. NO.: MCGU-15-5422



**ALTA**  
 ENVIRONMENTAL

3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807  
 P: (562) 495-5777    F: (562) 495-5877    www.altaenviro.com

**TABLE 1**  
 Water Sample Results for VOCs  
 Panama Street - Additional Site Assessment  
 12870 Panama Street  
 Los Angeles, California

VOCs by EPA Method 8260B in Water	Sample ID:								
	Date:		B5	B13	B14	B15	B17	B18	B19
	MDL (µg/L):	RL (µg/L):	8/6/2015	9/24/2015	9/24/2015	9/24/2015	9/24/2015	9/24/2015	9/24/2015
VOC Concentration (µg/L)									
Acetone	10	20	ND	ND	ND	ND	ND	ND	ND
Benzene	0.14	0.5	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	0.3	1	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	0.48	1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.21	1	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.5	1	ND	ND	ND	ND	ND	ND	ND
Bromomethane	3.9	10	ND	ND	ND	ND	ND	ND	ND
2-Butanone	2.2	10	4.8J	ND	ND	ND	ND	ND	ND
n-Butylbenzene	0.23	1	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.25	1	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	0.28	1	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	0.41	10	ND	ND	0.44J,B	ND	ND	ND	ND
Carbon Tetrachloride	0.23	0.5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.17	1	ND	ND	ND	ND	ND	ND	ND
Chloroethane	2.3	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.46	1	ND	ND	ND	ND	ND	ND	ND
Chloromethane	1.8	10	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	0.24	1	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	0.13	1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.25	1	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	1.2	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.36	1	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	0.46	1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.46	1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.4	1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.43	1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.46	1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.28	1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.24	0.5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.43	1	ND	ND	ND	ND	ND	ND	ND
c-1,2-Dichloroethene	0.48	1	ND	ND	ND	ND	ND	ND	ND
t-1,2-Dichloroethene	0.37	1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.42	1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.3	1	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.36	1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.46	1	ND	ND	ND	ND	ND	ND	ND
c-1,3-Dichloropropene	0.25	0.5	ND	ND	ND	ND	ND	ND	ND
t-1,3-Dichloropropene	0.25	0.5	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.14	1	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	2.1	10	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	0.58	1	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	0.16	1	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	0.64	10	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	4.4	10	ND	ND	ND	ND	ND	ND	ND
Naphthalene	2.5	10	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.17	1	ND	ND	ND	ND	ND	ND	ND
Styrene	0.17	1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.4	1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.41	1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.39	1	ND	ND	ND	ND	ND	ND	ND
Toluene	0.24	1	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.51	1	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.5	1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.3	1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.78	10	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.38	1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.37	1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.7	10	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.64	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.36	1	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.28	1	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	2.8	10	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.3	0.5	ND	ND	ND	ND	ND	ND	ND
p/m-Xylene	0.3	1	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.23	1	ND	ND	ND	ND	ND	ND	ND
Methyl-t-Butyl Ether (MTBE)	0.31	1	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl Alcohol (TBA)	4.6	10	ND	ND	ND	ND	ND	ND	ND
Diisopropyl Ether (DIPE)	0.33	2	ND	ND	ND	ND	ND	ND	ND
Ethyl-t-Butyl Ether (ETBE)	0.44	2	ND	ND	ND	ND	ND	ND	ND
Tert-Amyl-Methyl Ether (TAME)	0.22	2	ND	ND	ND	ND	ND	ND	ND
Ethanol	50	100	ND	ND	ND	ND	ND	ND	ND
Dilution Factor:			1	1	1	1	1	1	1

**NOTES:**

VOC = Volatile Organic Compound  
 MDL = Method Detection Limit  
 RL = Reporting Limit  
 MCLs = California Department of Public Health Maximum Contaminant Levels, Updated July 2014  
 ND = Indicated constituents not detected at or above the MDL  
 J = Analyte detected; however, result is an estimated value between the MDL and RL.  
 µg/L = micrograms per liter  
 B = Analyte was present in the associated method blank  
 - = Not Applicable  
 NE = No MCL Established

**TABLE 2**  
 Water Sample Results for TPH  
 Panama Street - Additional Site Assessment  
 12870 Panama Street  
 Los Angeles, California

TPHcc by EPA Method 8015M in Water				
Sample ID	Sample Date	TPH-GRO (C6-C10) (ug/L)	TPH-DRO (C10-C22) (ug/L)	TPH-ORO (C23+) (ug/L)
<b>MDL (ug/L):</b>		<b>48</b>	<b>7.7-15</b>	<b>51-100</b>
<b>RL (µg/L)</b>		<b>50</b>	<b>48-96</b>	<b>240-480</b>
<b>B5</b>	8/6/2015	ND	<b>1,500</b>	<b>190J</b>
<b>B13</b>	9/24/2015	ND	ND	ND
<b>B14</b>	9/24/2015	ND	<b>530</b>	<b>3800</b>
<b>B15</b>	9/24/2015	ND	<b>15J</b>	ND
<b>B17</b>	9/24/2015	ND	ND	ND
<b>B18</b>	9/24/2015	ND	ND	ND
<b>B19</b>	9/24/2015	ND	<b>9.4J</b>	ND

**NOTES:**

ND = Indicates constituents not detected above the PQL

MDL = Method Detection Limit

RL = Reporting Limit

TPH-GRO = total petroleum hydrocarbons as gasoline range organics

TPH-DRO = total petroleum hydrocarbons as diesel range organics

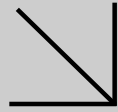
TPH-ORO = total petroleum hydrocarbons as oil range organics

ug/L = micrograms per liter

J = Analyte detected; result is an estimated value between the MDL and RL



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**WORK ORDER NUMBER: 15-08-0383**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For**

**Client:** Alta Environmental

**Client Project Name:** 12870 Panama Street / MCGU-15-5422

**Attention:** Steve Ridenour  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

*Vikas Patel*

Approved for release on 08/20/2015 by:  
Vikas Patel  
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

# Contents

Client Project Name: 12870 Panama Street / MCGU-15-5422  
 Work Order Number: 15-08-0383

1	Work Order Narrative. . . . .	3
2	Detections Summary. . . . .	4
3	Client Sample Data. . . . .	5
	3.1 EPA 8015B (M) TPH Motor Oil (Aqueous). . . . .	5
	3.2 EPA 8015B (M) TPH Diesel (Aqueous). . . . .	6
	3.3 EPA 8015B (M) TPH Gasoline (Aqueous). . . . .	7
	3.4 EPA 8260B Volatile Organics + Oxygenates (Aqueous). . . . .	8
4	Quality Control Sample Data. . . . .	14
	4.1 MS/MSD. . . . .	14
	4.2 LCS/LCSD. . . . .	16
5	Sample Analysis Summary. . . . .	20
6	Glossary of Terms and Qualifiers. . . . .	21
7	Chain-of-Custody/Sample Receipt Form. . . . .	22



**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 08/06/15. They were assigned to Work Order 15-08-0383.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



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## Detections Summary

Client: Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Work Order: 15-08-0383  
Project Name: 12870 Panama Street / MCGU-15-5422  
Received: 08/06/15

Attn: Steve Ridenour

Page 1 of 1

### Client SampleID

<u>Analyte</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	<u>Method</u>	<u>Extraction</u>
B5 (15-08-0383-1)						
TPH as Motor Oil	190	HD,J,ET	53*	ug/L	EPA 8015B (M)	EPA 3510C
TPH as Diesel	1500	HD,ET	50	ug/L	EPA 8015B (M)	EPA 3510C
2-Butanone	4.8	J	2.2*	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

Return to Contents

\* MDL is shown



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### Analytical Report

Alta Environmental  
 3777 Long Beach Blvd., Annex Building  
 Long Beach, CA 90802-3335

Date Received: 08/06/15  
 Work Order: 15-08-0383  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)  
 Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5	15-08-0383-1-F	08/06/15 09:30	Aqueous	GC 48	08/18/15	08/18/15 21:47	150818B08

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	190	250	53	1.00	HD,J,ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	70	68-140	

Method Blank	099-15-278-980	N/A	Aqueous	GC 48	08/18/15	08/18/15 20:29	150818B08
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Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	250	53	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	83	68-140	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5	15-08-0383-1-F	08/06/15 09:30	Aqueous	GC 48	08/18/15	08/18/15 21:47	150818B07

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	1500	50	8.0	1.00	HD,ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	70	68-140	

Method Blank	099-15-304-1134	N/A	Aqueous	GC 48	08/18/15	08/18/15 20:29	150818B07
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	50	8.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	83	68-140	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5	15-08-0383-1-D	08/06/15 09:30	Aqueous	GC 1	08/18/15	08/19/15 01:03	150818L052

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	50	48	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	56	38-134	

Method Blank	099-12-436-10272	N/A	Aqueous	GC 1	08/18/15	08/18/15 16:43	150818L052
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	50	48	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	54	38-134	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5	15-08-0383-1-A	08/06/15 09:30	Aqueous	GC/MS JJ	08/18/15	08/18/15 15:11	150818L004

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	4.8	10	2.2	1.00	J
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 2 of 6

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 3 of 6

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	104	80-120	
Dibromofluoromethane	110	78-126	
1,2-Dichloroethane-d4	108	75-135	
Toluene-d8	102	80-120	



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-17931	N/A	Aqueous	GC/MS JJ	08/18/15	08/18/15 11:22	150818L004

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 5 of 6

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5422

Page 6 of 6

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	95	78-126	
1,2-Dichloroethane-d4	109	75-135	
Toluene-d8	102	80-120	



Calscience

## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-08-1082-3	Sample	Aqueous	GC 1	08/18/15	08/18/15 17:19	150818S017
15-08-1082-3	Matrix Spike	Aqueous	GC 1	08/18/15	08/18/15 17:55	150818S017
15-08-1082-3	Matrix Spike Duplicate	Aqueous	GC 1	08/18/15	08/18/15 18:30	150818S017

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	52.58	2000	1763	86	1735	84	68-122	2	0-18	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: 12870 Panama Street / MCGU-15-5422

Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-08-1049-4	Sample	Aqueous	GC/MS JJ	08/18/15	08/18/15 12:24	150818S002
15-08-1049-4	Matrix Spike	Aqueous	GC/MS JJ	08/18/15	08/18/15 12:51	150818S002
15-08-1049-4	Matrix Spike Duplicate	Aqueous	GC/MS JJ	08/18/15	08/18/15 13:19	150818S002

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	64.20	128	62.32	125	74-122	3	0-21	3
Carbon Tetrachloride	ND	50.00	68.07	136	66.43	133	60-144	2	0-21	
Chlorobenzene	ND	50.00	55.77	112	53.60	107	73-120	4	0-22	
1,2-Dibromoethane	ND	50.00	55.94	112	54.70	109	80-122	2	0-20	
1,2-Dichlorobenzene	ND	50.00	54.15	108	53.00	106	70-120	2	0-26	
1,2-Dichloroethane	ND	50.00	61.57	123	59.28	119	64-142	4	0-20	
1,1-Dichloroethene	ND	50.00	61.64	123	61.97	124	52-136	1	0-21	
Ethylbenzene	ND	50.00	59.52	119	57.35	115	77-125	4	0-24	
Toluene	ND	50.00	63.82	128	60.75	122	72-126	5	0-23	3
Trichloroethene	ND	50.00	66.50	133	64.24	128	74-128	3	0-22	3
Vinyl Chloride	ND	50.00	60.68	121	59.56	119	67-133	2	0-20	
p/m-Xylene	ND	100.0	113.0	113	108.1	108	63-129	4	0-25	
o-Xylene	ND	50.00	56.67	113	54.05	108	62-128	5	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	60.87	122	62.16	124	68-134	2	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	287.1	115	290.3	116	65-143	1	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	61.31	123	60.04	120	61-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	57.93	116	58.33	117	64-136	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	57.66	115	56.25	113	67-133	2	0-20	
Ethanol	ND	500.0	541.1	108	463.4	93	34-178	15	0-58	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - LCS/LCSD

Alta Environmental  
 3777 Long Beach Blvd., Annex Building  
 Long Beach, CA 90802-3335

Date Received: 08/06/15  
 Work Order: 15-08-0383  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5422

Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-278-980	LCS	Aqueous	GC 48	08/18/15	08/18/15 21:15	150818B08
099-15-278-980	LCSD	Aqueous	GC 48	08/18/15	08/18/15 21:31	150818B08

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	2000	1553	78	1658	83	75-117	6	0-13	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS/LCSD

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5422

Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-304-1134	LCS	Aqueous	GC 48	08/18/15	08/18/15 20:44	150818B07			
099-15-304-1134	LCSD	Aqueous	GC 48	08/18/15	08/18/15 21:00	150818B07			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	1990	100	2071	104	75-117	4	0-13	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5422

Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-12-436-10272</b>	<b>LCS</b>	<b>Aqueous</b>	<b>GC 1</b>	<b>08/18/15</b>	<b>08/18/15 16:07</b>	<b>150818L052</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline		2000	1736	87	78-120	


  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





Calscience

## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 08/06/15  
Work Order: 15-08-0383  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: 12870 Panama Street / MCGU-15-5422

Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>099-14-001-17931</b>	<b>LCS</b>	<b>Aqueous</b>	<b>GC/MS JJ</b>	<b>08/18/15</b>	<b>08/18/15 09:50</b>	<b>150818L004</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene		50.00	57.46	115	80-120	73-127	
Carbon Tetrachloride		50.00	58.02	116	67-139	55-151	
Chlorobenzene		50.00	50.56	101	78-120	71-127	
1,2-Dibromoethane		50.00	52.84	106	80-120	73-127	
1,2-Dichlorobenzene		50.00	50.80	102	63-129	52-140	
1,2-Dichloroethane		50.00	56.34	113	70-130	60-140	
1,1-Dichloroethene		50.00	52.94	106	66-126	56-136	
Ethylbenzene		50.00	53.19	106	80-123	73-130	
Toluene		50.00	56.59	113	80-120	73-127	
Trichloroethene		50.00	60.93	122	80-122	73-129	
Vinyl Chloride		50.00	51.31	103	70-130	60-140	
p/m-Xylene		100.0	101.2	101	75-123	67-131	
o-Xylene		50.00	50.80	102	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)		50.00	58.12	116	69-129	59-139	
Tert-Butyl Alcohol (TBA)		250.0	249.3	100	69-129	59-139	
Diisopropyl Ether (DIPE)		50.00	56.94	114	68-128	58-138	
Ethyl-t-Butyl Ether (ETBE)		50.00	55.27	111	63-135	51-147	
Tert-Amyl-Methyl Ether (TAME)		50.00	54.87	110	67-133	56-144	
Ethanol		500.0	498.1	100	42-168	21-189	

Total number of LCS compounds: 19

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

## Sample Analysis Summary Report

Work Order: 15-08-0383

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 8015B (M)	EPA 3510C	682	GC 48	1
EPA 8015B (M)	EPA 5030C	902	GC 1	2
EPA 8260B	EPA 5030C	996	GC/MS JJ	2

## Glossary of Terms and Qualifiers

Work Order: 15-08-0383

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Alta Environmental

DATE: 08/6/2015

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)  
 Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 3.4 °C (w/ CF): 3.2 °C;  Blank  Sample  
 Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_)  
 Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling  
 Sample(s) received at ambient temperature; placed on ice for transport by courier  
 Ambient Temperature:  Air  Filter Checked by: 681

**CUSTODY SEAL:**  
 Cooler  Present and Intact  Present but Not Intact  Not Present  N/A Checked by: 681  
 Sample(s)  Present and Intact  Present but Not Intact  Not Present  N/A Checked by: 965

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers			
<input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time			
Sampler's name indicated on COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses			
<input checked="" type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Container(s) for certain analysis free of headspace .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500)			
<input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:** (Trip Blank Lot Number: \_\_\_\_\_)  
**Aqueous:**  VOA  VOA<sub>h</sub>  VOA<sub>na2</sub>  100PJ  100PJ<sub>na2</sub>  125AGB  125AGB<sub>h</sub>  125AGB<sub>p</sub>  125PB  
 125PB<sub>z</sub><sub>na</sub>  250AGB  250CGB  250CGB<sub>s</sub>  250PB  250PB<sub>n</sub>  500AGB  500AGJ  500AGJ<sub>s</sub>  
 500PB  1AGB  1AGB<sub>na2</sub>  1AGB<sub>s</sub>  1PB  1PB<sub>na</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  
**Solid:**  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (\_\_\_\_\_)  EnCores® (\_\_\_\_\_)  TerraCores® (\_\_\_\_\_)  \_\_\_\_\_  
**Air:**  Tedlar™  Canister  Sorbent Tube  PUF  \_\_\_\_\_ **Other Matrix** (\_\_\_\_\_)  \_\_\_\_\_  \_\_\_\_\_  
 Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag  
 Preservative: b = buffered, f = filtered, h = HCl, n = HNO<sub>3</sub>, na = NaOH, na<sub>2</sub> = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, p = H<sub>3</sub>PO<sub>4</sub>, Labeled/Checked by: 965  
 s = H<sub>2</sub>SO<sub>4</sub>, u = ultra-pure, z<sub>na</sub> = Zn(CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> + NaOH Reviewed by: 965

Return to Contents





Change Request to analyze samples on 24hr TAT received from Steve Ridenour on August 18, 2015.

CHAIN OF CUSTODY RECORD

Date: 8/16/15 Page: 1 of 1

Calscience Environmental Laboratories, Inc.

SoCal Laboratory 7440 Lincoln Way Garden Grove, CA 92641-1427 (714) 896-6494

NorCal Service Center 5083 Commercial Circle, Suite H Concord, CA 94520-9577 (925) 689-9022

LABORATORY CLIENT: Alta Environmental

ADDRESS: 3777 Long Beach Blvd, Suite B14, Long Beach, CA 90807

CITY: Long Beach STATE: CA ZIP: 90807

TEL: 562-495-5877 EMAIL: Steve.Ridenour@calscience.com

TURNAROUND TIME: SAME DAY 24 HR 48 HR 72 HR STANDARD

COE/LEDF GLOBAL ID

SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: MCGM-15-5102 P.O. NO.: R870 Panama St. PROJECT CONTACT: Steve Ridenour

REQUESTED ANALYSES

Table with columns for ANALYSIS, FIELD FILTERED, PRESERVED, UNPRESERVED, NO. OF CONT., MATING TIME, SAMPLING DATE, and TIME. Includes handwritten 'X' marks and 'BS' in the sample ID column.

Received by: (Signature) Date: 8/16/15 Time: 1325. Received by: (Signature) Date: Date: Time: Received by: (Signature) Date: Date: Time:

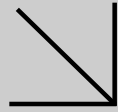
09/07/13 Revision

DISTRIBUTION: White with final report, Green and Yellow to Client. Please note that pages 1 and 2 of our TACs are printed on the reverse side of the Green and Yellow copies respectively.

Return to Contents



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**WORK ORDER NUMBER: 15-09-1939**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For**

**Client:** Alta Environmental

**Client Project Name:** 12870 Panama Street / MCGU-15-5506

**Attention:** Jonathan Barkman  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Approved for release on 10/06/2015 by:  
Vikas Patel  
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



# Contents

Client Project Name: 12870 Panama Street / MCGU-15-5506  
 Work Order Number: 15-09-1939

1	Work Order Narrative. . . . .	3
2	Detections Summary. . . . .	4
3	Client Sample Data. . . . .	5
	3.1 EPA 8015B (M) TPH Motor Oil (Aqueous). . . . .	5
	3.2 EPA 8015B (M) TPH Diesel (Aqueous). . . . .	7
	3.3 EPA 8015B (M) TPH Gasoline (Aqueous). . . . .	9
	3.4 EPA 8260B Volatile Organics + Oxygenates (Aqueous). . . . .	11
4	Quality Control Sample Data. . . . .	32
	4.1 MS/MSD. . . . .	32
	4.2 LCS/LCSD. . . . .	34
5	Sample Analysis Summary. . . . .	38
6	Glossary of Terms and Qualifiers. . . . .	39
7	Chain-of-Custody/Sample Receipt Form. . . . .	40
8	Subcontract Narrative. . . . .	44

**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 09/24/15. They were assigned to Work Order 15-09-1939.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



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## Detections Summary

Client: Alta Environmental  
 3777 Long Beach Blvd., Annex Building  
 Long Beach, CA 90802-3335

Work Order: 15-09-1939  
 Project Name: 12870 Panama Street / MCGU-15-5506  
 Received: 09/24/15

Attn: Jonathan Barkman

Page 1 of 1

### Client SampleID

<u>Analyte</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	<u>Method</u>	<u>Extraction</u>
B14 (15-09-1939-2)						
TPH as Motor Oil	3800	HD	480	ug/L	EPA 8015B (M)	EPA 3510C
TPH as Diesel	530	HD	96	ug/L	EPA 8015B (M)	EPA 3510C
Carbon Disulfide	0.44	B,J	0.41*	ug/L	EPA 8260B	EPA 5030C
B15 (15-09-1939-3)						
TPH as Diesel	15	HD,J	8.7*	ug/L	EPA 8015B (M)	EPA 3510C
B19 (15-09-1939-6)						
TPH as Diesel	9.4	HD,J	8.0*	ug/L	EPA 8015B (M)	EPA 3510C

Subcontracted analyses, if any, are not included in this summary.

  
Return to Contents

\* MDL is shown



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B13	15-09-1939-1-I	09/24/15 08:40	Aqueous	GC 47	09/25/15	09/25/15 20:59	150925B13

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	240	51	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	82	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B14	15-09-1939-2-I	09/24/15 10:45	Aqueous	GC 47	09/25/15	09/26/15 10:59	150925B13

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	3800	480	100	2.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	84	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B15	15-09-1939-3-I	09/24/15 10:25	Aqueous	GC 47	09/25/15	09/25/15 21:18	150925B13

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	270	58	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	84	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B17	15-09-1939-4-I	09/24/15 11:05	Aqueous	GC 47	09/25/15	09/25/15 21:35	150925B13

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	260	56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	86	68-140	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B18</b>	<b>15-09-1939-5-I</b>	<b>09/24/15 09:50</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>09/25/15</b>	<b>09/25/15 21:53</b>	<b>150925B13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil	ND	250	53	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	88	68-140	

<b>B19</b>	<b>15-09-1939-6-H</b>	<b>09/24/15 12:00</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>09/25/15</b>	<b>09/25/15 22:10</b>	<b>150925B13</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil	ND	250	53	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	86	68-140	

<b>Method Blank</b>	<b>099-15-278-1003</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>09/25/15</b>	<b>09/25/15 18:40</b>	<b>150925B13</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil	ND	250	53	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	80	68-140	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B13	15-09-1939-1-I	09/24/15 08:40	Aqueous	GC 47	09/25/15	09/25/15 20:59	150925B12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	48	7.7	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	82	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B14	15-09-1939-2-I	09/24/15 10:45	Aqueous	GC 47	09/25/15	09/26/15 10:59	150925B12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	530	96	15	2.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	84	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B15	15-09-1939-3-I	09/24/15 10:25	Aqueous	GC 47	09/25/15	09/25/15 21:18	150925B12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	15	54	8.7	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	84	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B17	15-09-1939-4-I	09/24/15 11:05	Aqueous	GC 47	09/25/15	09/25/15 21:35	150925B12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	52	8.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	86	68-140	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B18</b>	<b>15-09-1939-5-I</b>	<b>09/24/15 09:50</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>09/25/15</b>	<b>09/25/15 21:53</b>	<b>150925B12</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	50	8.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	88	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B19</b>	<b>15-09-1939-6-H</b>	<b>09/24/15 12:00</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>09/25/15</b>	<b>09/25/15 22:10</b>	<b>150925B12</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	9.4	50	8.0	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	86	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-15-304-1175</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>09/25/15</b>	<b>09/25/15 18:40</b>	<b>150925B12</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	50	8.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	80	68-140	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B13	15-09-1939-1-E	09/24/15 08:40	Aqueous	GC 1	09/25/15	09/25/15 20:03	150925L022

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	50	48	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	66	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B14	15-09-1939-2-E	09/24/15 10:45	Aqueous	GC 1	09/25/15	09/25/15 20:38	150925L022

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	50	48	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	65	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B15	15-09-1939-3-E	09/24/15 10:25	Aqueous	GC 1	09/25/15	09/25/15 21:14	150925L022

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	50	48	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	66	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B17	15-09-1939-4-E	09/24/15 11:05	Aqueous	GC 1	09/25/15	09/25/15 21:49	150925L022

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Gasoline	ND	50	48	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	65	38-134	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8015B (M)  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B18</b>	<b>15-09-1939-5-E</b>	<b>09/24/15 09:50</b>	<b>Aqueous</b>	<b>GC 1</b>	<b>09/25/15</b>	<b>09/25/15 23:00</b>	<b>150925L022</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline	ND	50	48	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	67	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>B19</b>	<b>15-09-1939-6-E</b>	<b>09/24/15 12:00</b>	<b>Aqueous</b>	<b>GC 1</b>	<b>09/25/15</b>	<b>09/25/15 23:36</b>	<b>150925L022</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline	ND	50	48	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	67	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-12-436-10337</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 1</b>	<b>09/25/15</b>	<b>09/25/15 14:43</b>	<b>150925L022</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline	ND	50	48	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	64	38-134	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 1 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B13	15-09-1939-1-A	09/24/15 08:40	Aqueous	GC/MS LL	09/25/15	09/25/15 16:53	150925L007

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 2 of 21

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 3 of 21

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	98	78-126	
1,2-Dichloroethane-d4	91	75-135	
Toluene-d8	98	80-120	



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 4 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B14	15-09-1939-2-A	09/24/15 10:45	Aqueous	GC/MS LL	09/25/15	09/25/15 17:28	150925L007

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	0.44	10	0.41	1.00	B,J
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 5 of 21

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 6 of 21

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	90	80-120	
Dibromofluoromethane	132	78-126	2,7
1,2-Dichloroethane-d4	128	75-135	
Toluene-d8	97	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 7 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B15	15-09-1939-3-A	09/24/15 10:25	Aqueous	GC/MS LL	09/25/15	09/25/15 18:04	150925L007

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 8 of 21

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 9 of 21

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	90	80-120	
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	95	75-135	
Toluene-d8	99	80-120	

  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 10 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B17	15-09-1939-4-A	09/24/15 11:05	Aqueous	GC/MS LL	09/25/15	09/25/15 18:39	150925L007

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 11 of 21

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 12 of 21

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	95	75-135	
Toluene-d8	99	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 13 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B18	15-09-1939-5-A	09/24/15 09:50	Aqueous	GC/MS LL	09/25/15	09/25/15 19:15	150925L007

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 14 of 21

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 15 of 21

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	96	75-135	
Toluene-d8	100	80-120	



## Analytical Report

Alta Environmental	Date Received:	09/24/15
3777 Long Beach Blvd., Annex Building	Work Order:	15-09-1939
Long Beach, CA 90802-3335	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 16 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B19	15-09-1939-6-A	09/24/15 12:00	Aqueous	GC/MS LL	09/25/15	09/25/15 19:50	150925L007

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 17 of 21

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 18 of 21

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	96	75-135	
Toluene-d8	97	80-120	

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 19 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-18274	N/A	Aqueous	GC/MS LL	09/25/15	09/25/15 13:55	150925L007

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	0.46	10	0.41	1.00	J
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 20 of 21

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: 12870 Panama Street / MCGU-15-5506

Page 21 of 21

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	97	78-126	
1,2-Dichloroethane-d4	90	75-135	
Toluene-d8	97	80-120	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5506

Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-09-1955-5	Sample	Aqueous	GC 1	09/25/15	09/25/15 15:19	150925S014
15-09-1955-5	Matrix Spike	Aqueous	GC 1	09/25/15	09/25/15 15:54	150925S014
15-09-1955-5	Matrix Spike Duplicate	Aqueous	GC 1	09/25/15	09/25/15 16:30	150925S014

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	2000	1630	81	1660	83	68-122	2	0-18	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: 12870 Panama Street / MCGU-15-5506

Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-09-1941-1	Sample	Aqueous	GC/MS LL	09/25/15	09/25/15 14:31	150925S008
15-09-1941-1	Matrix Spike	Aqueous	GC/MS LL	09/25/15	09/25/15 11:34	150925S008
15-09-1941-1	Matrix Spike Duplicate	Aqueous	GC/MS LL	09/25/15	09/25/15 12:09	150925S008

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	51.84	104	49.26	99	74-122	5	0-21	
Carbon Tetrachloride	ND	50.00	46.94	94	45.53	91	60-144	3	0-21	
Chlorobenzene	ND	50.00	53.79	108	52.80	106	73-120	2	0-22	
1,2-Dibromoethane	ND	50.00	50.36	101	50.72	101	80-122	1	0-20	
1,2-Dichlorobenzene	ND	50.00	54.64	109	55.35	111	70-120	1	0-26	
1,2-Dichloroethane	ND	50.00	45.77	92	44.33	89	64-142	3	0-20	
1,1-Dichloroethene	ND	50.00	48.68	97	47.09	94	52-136	3	0-21	
Ethylbenzene	ND	50.00	56.78	114	56.06	112	77-125	1	0-24	
Toluene	ND	50.00	56.27	113	53.67	107	72-126	5	0-23	
Trichloroethene	ND	50.00	51.30	103	50.26	101	74-128	2	0-22	
Vinyl Chloride	ND	50.00	57.70	115	56.20	112	67-133	3	0-20	
p/m-Xylene	ND	100.0	110.6	111	108.7	109	63-129	2	0-25	
o-Xylene	ND	50.00	55.74	111	54.89	110	62-128	2	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	50.26	101	50.43	101	68-134	0	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	260.5	104	237.6	95	65-143	9	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	55.06	110	54.79	110	61-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	52.75	105	50.98	102	64-136	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	52.87	106	51.26	103	67-133	3	0-20	
Ethanol	ND	500.0	529.9	106	525.2	105	34-178	1	0-58	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





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Quality Control - LCS/LCSD

Alta Environmental  
 3777 Long Beach Blvd., Annex Building  
 Long Beach, CA 90802-3335

Date Received: 09/24/15  
 Work Order: 15-09-1939  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5506

Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-278-1003	LCS	Aqueous	GC 47	09/25/15	09/25/15 19:33	150925B13
099-15-278-1003	LCSD	Aqueous	GC 47	09/25/15	09/25/15 19:50	150925B13

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	2000	1893	95	1939	97	75-117	2	0-13	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS/LCSD

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 12870 Panama Street / MCGU-15-5506

Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-304-1175	LCS	Aqueous	GC 47	09/25/15	09/25/15 18:57	150925B12			
099-15-304-1175	LCSD	Aqueous	GC 47	09/25/15	09/25/15 19:15	150925B12			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	1801	90	1814	91	75-117	1	0-13	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Alta Environmental	Date Received:	09/24/15
3777 Long Beach Blvd., Annex Building	Work Order:	15-09-1939
Long Beach, CA 90802-3335	Preparation:	EPA 5030C
	Method:	EPA 8015B (M)
Project: 12870 Panama Street / MCGU-15-5506		Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-12-436-10337</b>	<b>LCS</b>	<b>Aqueous</b>	<b>GC 1</b>	<b>09/25/15</b>	<b>09/25/15 14:08</b>	<b>150925L022</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline		2000	1861	93	78-120	


  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Alta Environmental  
3777 Long Beach Blvd., Annex Building  
Long Beach, CA 90802-3335

Date Received: 09/24/15  
Work Order: 15-09-1939  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: 12870 Panama Street / MCGU-15-5506

Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>099-14-001-18274</b>	<b>LCS</b>	<b>Aqueous</b>	<b>GC/MS LL</b>	<b>09/25/15</b>	<b>09/25/15 10:56</b>	<b>150925L007</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene		50.00	45.45	91	80-120	73-127	
Carbon Tetrachloride		50.00	39.83	80	67-139	55-151	
Chlorobenzene		50.00	49.55	99	78-120	71-127	
1,2-Dibromoethane		50.00	48.62	97	80-120	73-127	
1,2-Dichlorobenzene		50.00	50.09	100	63-129	52-140	
1,2-Dichloroethane		50.00	42.85	86	70-130	60-140	
1,1-Dichloroethene		50.00	41.04	82	66-126	56-136	
Ethylbenzene		50.00	50.33	101	80-123	73-130	
Toluene		50.00	49.07	98	80-120	73-127	
Trichloroethene		50.00	45.56	91	80-122	73-129	
Vinyl Chloride		50.00	47.66	95	70-130	60-140	
p/m-Xylene		100.0	98.71	99	75-123	67-131	
o-Xylene		50.00	50.17	100	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)		50.00	47.52	95	69-129	59-139	
Tert-Butyl Alcohol (TBA)		250.0	226.4	91	69-129	59-139	
Diisopropyl Ether (DIPE)		50.00	50.84	102	68-128	58-138	
Ethyl-t-Butyl Ether (ETBE)		50.00	48.84	98	63-135	51-147	
Tert-Amyl-Methyl Ether (TAME)		50.00	49.26	99	67-133	56-144	
Ethanol		500.0	489.6	98	42-168	21-189	

Total number of LCS compounds: 19

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

## Sample Analysis Summary Report

Work Order: 15-09-1939

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 8015B (M)	EPA 3510C	682	GC 47	1
EPA 8015B (M)	EPA 5030C	902	GC 1	2
EPA 8260B	EPA 5030C	486	GC/MS LL	2

  
Return to Contents

Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841

## Glossary of Terms and Qualifiers

Work Order: 15-09-1939

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.







SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: ALTA ENVIRONMENTAL

DATE: 09 / 24 / 2015

TEMPERATURE: (Criteria: 0.0°C - 6.0°C, not frozen except sediment/tissue)
Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 2.3 °C (w/ CF): 2.1 °C; [X] Blank [ ] Sample
[ ] Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_)
[ ] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling
[ ] Sample(s) received at ambient temperature; placed on ice for transport by courier
Ambient Temperature: [ ] Air [ ] Filter
Checked by: [Signature]

CUSTODY SEAL:
Cooler [ ] Present and Intact [ ] Present but Not Intact [X] Not Present [ ] N/A Checked by: [Signature]
Sample(s) [ ] Present and Intact [ ] Present but Not Intact [X] Not Present [ ] N/A Checked by: 1017

Table with columns: SAMPLE CONDITION, Yes, No, N/A. Rows include Chain-of-Custody (COC) document(s) received with samples, COC document(s) received complete, Sampler's name indicated on COC, Sample container label(s) consistent with COC, Proper containers for analyses requested, Sufficient volume/mass for analyses requested, Samples received within holding time, Aqueous samples for certain analyses received within 15-minute holding time, Proper preservation chemical(s) noted on COC and/or sample container, Container(s) for certain analysis free of headspace, Tedlar™ bag(s) free of condensation.

CONTAINER TYPE: (Trip Blank Lot Number: \_\_\_\_\_)
Aqueous: [ ] VOA [X] VOAh [ ] VOAna2 [ ] 100PJ [ ] 100PJna2 [ ] 125AGB [ ] 125AGBh [ ] 125AGBp [ ] 125PB
[ ] 125PBzanna [ ] 250AGB [ ] 250CGB [ ] 250CGBs [ ] 250PB [ ] 250PBn [ ] 500AGB [X] 500AGJ [ ] 500AGJs
[ ] 500PB [ ] 1AGB [ ] 1AGBna2 [ ] 1AGBs [ ] 1PB [ ] 1PBna [ ] \_\_\_\_\_ [ ] \_\_\_\_\_ [ ] \_\_\_\_\_ [ ] \_\_\_\_\_
Solid: [ ] 4ozCGJ [ ] 8ozCGJ [ ] 16ozCGJ [ ] Sleeve (\_\_\_\_\_) [ ] EnCores® (\_\_\_\_\_) [ ] TerraCores® (\_\_\_\_\_) [ ] \_\_\_\_\_
Air: [ ] Tedlar™ [ ] Canister [ ] Sorbent Tube [ ] PUF [ ] \_\_\_\_\_ Other Matrix (\_\_\_\_): [ ] \_\_\_\_\_ [ ] \_\_\_\_\_
Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag
Preservative: b = buffered, f = filtered, h = HCl, n = HNO3, na = NaOH, na2 = Na2S2O3, p = H3PO4, Labeled/Checked by: 1017
s = H2SO4, u = ultra-pure, zanna = Zn(CH3CO2)2 + NaOH Reviewed by: 681.





Calscience

## Subcontractor Analysis Report

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Work Order: 15-09-1939

Page 1 of 1

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One or more samples in this work order have tests that were subcontracted. The subcontract report(s) follows.

For subcontracted tests, please reference the laboratory information noted below.

  
Return to Contents



REC'D JAN 08 2016



EDMUND G. BROWN JR.  
GOVERNOR

MATTHEW RODRIGUEZ  
SECRETARY FOR  
ENVIRONMENTAL PROTECTION

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## Los Angeles Regional Water Quality Control Board

January 7, 2016

Ms. Melanie S. Cibik  
Teledyne Technologies Incorporated  
1049 Camino Dos Rios  
Thousand Oaks, CA 91360

**UNDERGROUND STORAGE TANK PROGRAM – CASE REFERRAL RESPONSE  
TELEDYNE TECHNOLOGIES INCORPORATED  
12870 PANAMA STREET, LOS ANGELES, CALIFORNIA  
(GLOBAL ID NO.: T1000008217)**

Dear Ms. Cibik:

On December 30, 2015, the City of Los Angeles Fire Department transmitted this case to our agency due to concerns regarding soil and groundwater impacts from the subject site (Site). The California Regional Water Quality Control Board, Los Angeles Region (Regional Board), is the public agency with primary responsibility for the protection of ground and surface water quality for all beneficial uses within the Los Angeles and Ventura counties. As such, we are the lead regulatory agency for overseeing corrective actions (assessment and/or monitoring activities) and cleanup of releases from leaking underground storage tank (UST) systems at the Site.

We have received the following document for the Site:

- "Groundwater Assessment Results, Former Underground Storage Tank Site" dated December 10, 2015, prepared by Alta Environmental (Alta).

Based on our review of the submitted document, we have the following comments:

- The City of Los Angeles Fire Department issued a no further action letter for the Site on April 1, 1996, following removal of two hydraulic lifts and one 250-gallon waste oil UST from the Site.
- In August and September 2015, Alta oversaw the advancement of soil borings B5, and B13 through B19 into groundwater and the collection of grab groundwater samples from borings B5, B13, B14, B15, B17, B18, and B19. Groundwater samples were submitted to an analytical testing laboratory for chemical analysis. Soil samples were not submitted for analytical testing during the investigation.
- Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), and total petroleum hydrocarbons as oil (TPHo) by modified EPA Method 8015B, and for full scan volatile organic compounds (VOCs) and ethanol by EPA Method 8260B.

Ms. Melanie S. Cibik  
12870 Panama Street, Los Angeles  
Page 2

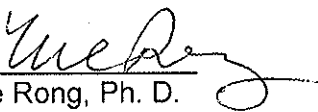
January 7, 2016

- Laboratory results for the groundwater samples indicated the maximum concentration of TPHd, TPHo, 2-butanone, and carbon disulfide were 1,500 micrograms per liter ( $\mu\text{g/L}$ ), 3,800  $\mu\text{g/L}$ , 4.8J  $\mu\text{g/L}$ , and 0.44J  $\mu\text{g/L}$ , respectively. TPHg, ethanol, and other VOCs tested for were not detected above their respective reporting limits.
- Groundwater was encountered at the Site during site investigation activities in August and September 2015 at depths ranging between 12 and 13.5 feet below ground surface.

Based on the information available to us, Regional Board staff determined that residual concentrations of fuel constituents pose a low threat to human health, and soil and groundwater quality beneath the Site. Therefore, no further action is required to pursue any further soil and/or groundwater investigation at the Site. At this time, the Regional Board is not opening a case for the Site.

If you have any questions, please contact Dr. Weixing Tong at (213) 576-6715 or email him at [Weixing.Tong@waterboards.ca.gov](mailto:Weixing.Tong@waterboards.ca.gov).

Sincerely,

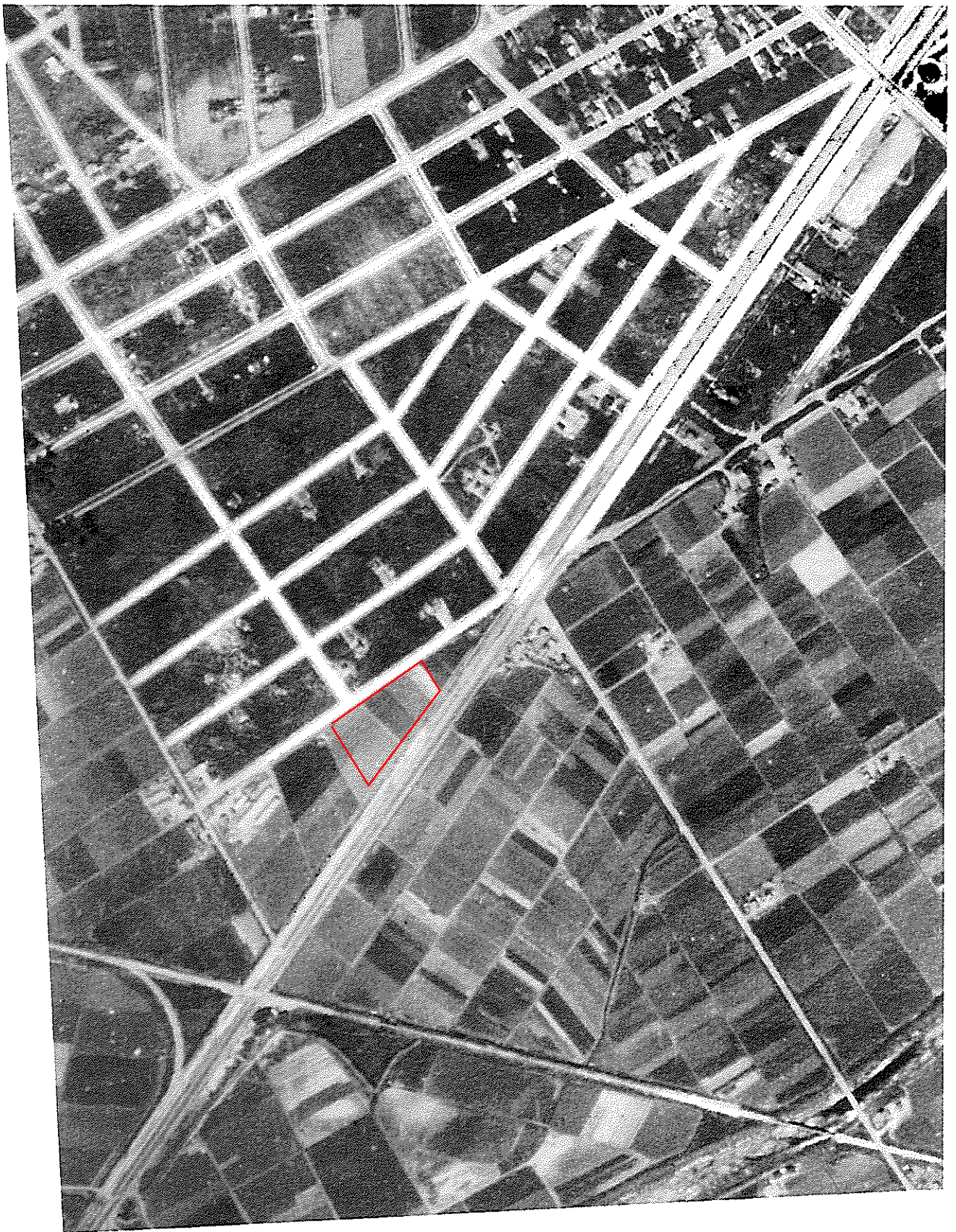
  
Yue Rong, Ph. D.  
Program Manager  
Underground Storage Tank Program

cc: Eloy Luna, City of Los Angeles Fire Department  
Steven Ridenour, Alta Environmental

# Appendix G

Historical Aerial Photographs





INQUIRY #: 4246078.12

YEAR: 1928

| = 500'







**INQUIRY #:** 4246078.12

**YEAR:** 1938

| = 500'







INQUIRY #: 4246078.12

YEAR: 1947

| = 500'







INQUIRY #: 4246078.12

YEAR: 1953

| = 500'







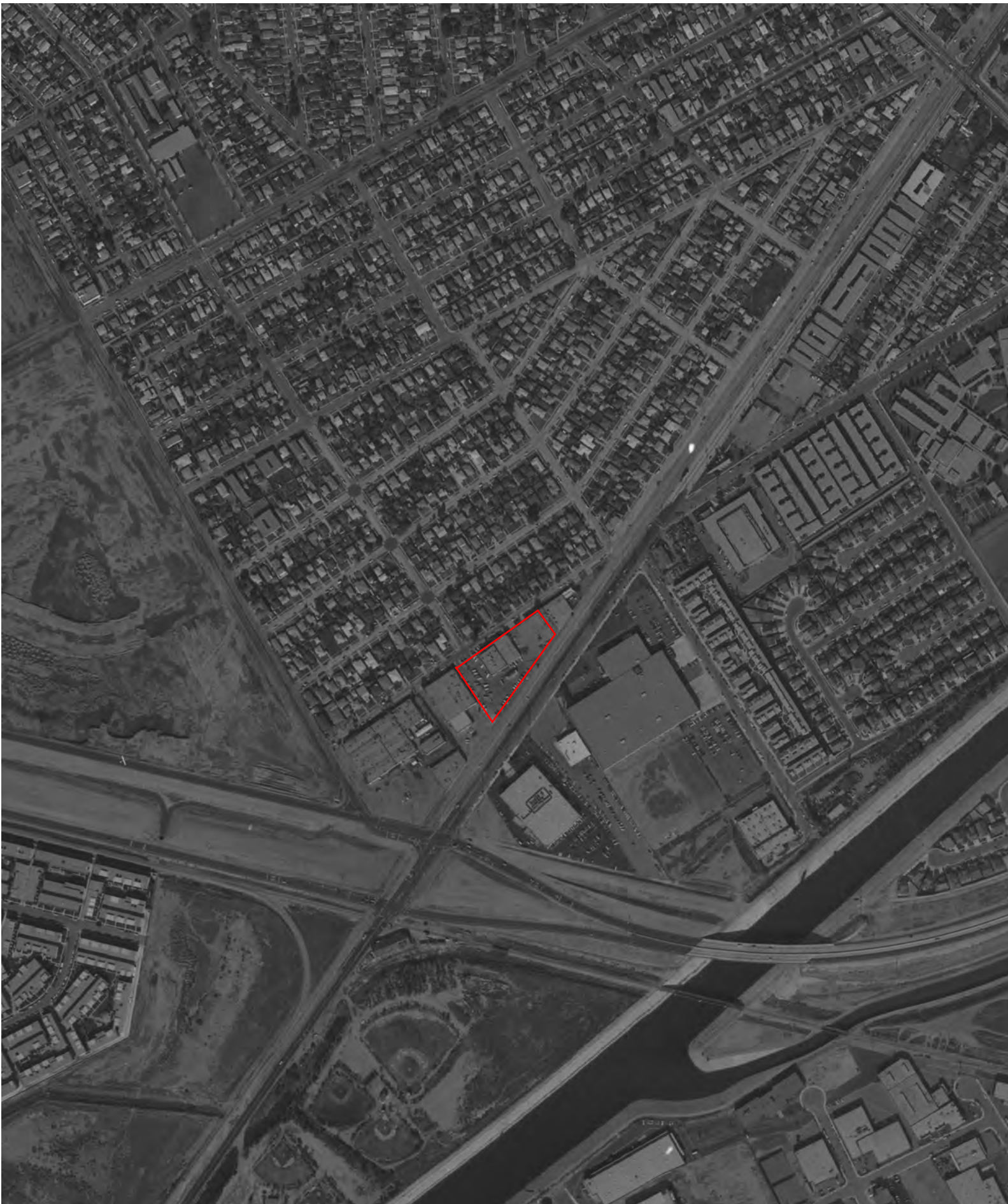
**INQUIRY #:** 4246078.12

**YEAR:** 1963

| = 500'







**INQUIRY #:** 4246078.12

**YEAR:** 1972

| = 500'







**INQUIRY #:** 4246078.12

**YEAR:** 1977

| = 500'







INQUIRY #: 4246078.12

YEAR: 1994

| = 500'







**INQUIRY #:** 4246078.12

**YEAR:** 2002

| = 500'







**INQUIRY #:** 4246078.12

**YEAR:** 2005

| = 500'







**INQUIRY #:** 4246078.12

**YEAR:** 2009

| = 500'







**INQUIRY #:** 4246078.12

**YEAR:** 2010

| = 500'







**INQUIRY #:** 4246078.12

**YEAR:** 2012

| = 500'





# Appendix H

Historical City Directory Report

**Teledyne Panama Street Property**

12870 Panama Street  
Los Angeles, CA 90066

Inquiry Number: 4246078.5  
March 26, 2015

# The EDR-City Directory Abstract

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

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 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 332 feet of the target property.

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

### 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.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2013	Cole Information Services	-	X	X	-
2008	Cole Information Services	-	X	X	-
2006	Haines Co., Inc.	-	X	X	-
2004	Haines Company	-	-	-	-
2003	Haines & Company	-	-	-	-
2001	Haines Company, Inc.	-	-	-	-
2000	Haines & Company	X	X	X	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	-	X	X	-
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	-	X	X	-
1990	Pacific Bell	-	X	X	-
1986	Pacific Bell	-	X	X	-
1985	Pacific Bell	-	X	X	-
1981	Pacific Telephone	-	X	X	-
1980	Pacific Telephone	X	X	X	-
1976	Pacific Telephone	X	X	X	-
1975	Pacific Telephone	X	X	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	Pacific Telephone	X	X	X	-
1970	Pacific Telephone	X	X	X	-
1969	Pacific Telephone	-	-	-	-
1967	Pacific Telephone	X	X	X	-
1966	Pacific Telephone	-	-	-	-

## EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1965	Pacific Telephone	X	X	X	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	X	X	X	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	-	-	-
1958	Pacific Telephone	X	X	X	-
1957	Pacific Telephone	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	X	X	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Los Angeles Directory Co.	-	-	-	-
1950	Pacific Telephone	-	-	-	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Associated Telephone Company, Ltd.	-	-	-	-
1947	Pacific Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	R. L. Polk & Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-
1942	Los Angeles Directory Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	-	-	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	TRIBUNE-NEWS PUBLISHING CO.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-



## EXECUTIVE SUMMARY

### SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<b><u>Address</u></b>	<b><u>Type</u></b>	<b><u>Findings</u></b>
12908 Panama Street	Client Entered	X
12964 Panama Street	Client Entered	X
12950 Panama Street	Client Entered	
12930 Panama Street	Client Entered	X
12922 Panama Street	Client Entered	X
12920 Panama Street	Client Entered	
12918 Panama Street	Client Entered	
12910 Panama Street	Client Entered	X
12820 Panama Street	Client Entered	X
12901 Culver Blvd.	Client Entered	X

# FINDINGS

## TARGET PROPERTY INFORMATION

### ADDRESS

12870 Panama Street  
Los Angeles, CA 90066

### FINDINGS DETAIL

Target Property research detail.

### PANAMA

#### 12870 PANAMA

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2000	XXXX	Haines & Company
1971	SPRAGUE ELECTRIC CO electrnc equip	Pacific Telephone
1967	SPRAGUE ELECTRIC CO electrnc eg	Pacific Telephone
	Sprague Products Co electrnc	Pacific Telephone
	Woodbury R W Sprague Products Co electrnc eq	Pacific Telephone

### PANAMA ST

#### 12870 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Action Catering	Pacific Telephone
	Action Industrial Catering	Pacific Telephone
	Action Marketing Group The WEST LOS ANGELES	Pacific Telephone
	Action Mobile Disco Service	Pacific Telephone
	Kopper Kart Catering	Pacific Telephone
	Red Carpet Catering	Pacific Telephone
1976	Kopper Kart Catering	Pacific Telephone
1975	ACTION INDUSTRIAL CATERING	Pacific Telephone
	AMBITIOUS CATERING	Pacific Telephone
	KOPPER KART CATERERS	Pacific Telephone
1970	CHANDLER DONALD E SPRAGUE PRODUCTS CO	Pacific Telephone
	SPRAGUE ELECTRIC CO ELCTMC EQUIP	Pacific Telephone
	SPRAGUE PRODUCTS CO ELCTRNC EQUIP	Pacific Telephone
1965	SPRAGUE ELECTRIC CO ALECTRNC EQ	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	SPRAGUE PRODUCTS CO ELECTRNC EQ	Pacific Telephone
	WOODBURY R W SPRAGUE PRODUCTS CO	Pacific Telephone
1962	SPIAGUE ELECTI IC CO ELECTRONIC EQUIP	Pacific Telephone
	SPRAGUE PRODUCTS CO ELECTRONIC EQUIP	Pacific Telephone
	WOODBURY R W SPRAGUE PRODUCTS CO	Pacific Telephone
1958	Ferrox Cube Corp of America electrnc eq	Pacific Telephone
	FERROX CUBE CORP OF AMERICA ELECTRONIC EQUIP	Pacific Telephone
	Sprague Electric Co electrnc eq	Pacific Telephone
	SPRAGUE ELECTRIC CO ELECTRONIC EQUIP	Pacific Telephone
	Sprague Products Co electrnc eq	Pacific Telephone
	SPRAGUE PRODUCTS CO ELECTRONIC EQUIP	Pacific Telephone
	VOODBURY R W SPRAGUE PRODUCTS CO	Pacific Telephone
	Woodbury R W Sprague Products Co	Pacific Telephone

## FINDINGS

### ADJOINING PROPERTY DETAIL

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

### CULVER

#### 12870 CULVER

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1971	Service Center	Pacific Telephone
	Repair Parts	Pacific Telephone
	Service Center	Pacific Telephone

### CULVER BLVD

#### 12870 CULVER BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	SEARS	Cole Information Services
1991	SEARS ROEBUCK AND CO RETAIL STORES NORTHRIDGE STORE	Pacific Bell
	For Home Service 8210531	Pacific Bell
	Appliance Repair Service & Parts Dept	Pacific Bell
	For Parts 8210542	Pacific Bell
	Nights Sundays & Holidays	Pacific Bell
	No Charge To Calling Party	Pacific Bell
	Specs Services Drain & Sewer Cleaning Service	Pacific Bell
	No Charge To Calling Party	Pacific Bell
1990	SEARS ROEBUCK AND CO APPLIANCE REPAIR SERVICE & PARTS DEPT	Pacific Bell
1986	SEARS ROEBUCK AND CO APPLIANCE REPAIR SERVICE & PARTS DEPT	Pacific Bell
1985	SEARS ROEBUCK AND CO APPLIANCE REPAIR SERVICE & PARTS DEPT	Pacific Bell
1981	SEARS ROEBUCK AND CO APPLIANCE REPAIR SERVICE & PARTS DEPT	Pacific Telephone
1980	SEARS ROEBUCK AND CO Appliance Repair Service & Parts Dept	Pacific Telephone
	Nights Sundays & Holidays	Pacific Telephone
	SEARS ROEBUCK AND CO Sears Special Services Auto Leasing	Pacific Telephone
	Diaper Service North Los Angeles County Customers	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Diaper Service South Los Angeles County Customers	Pacific Telephone
	Drain & Sewer Cleaning Service	Pacific Telephone
1976	Los Angeles Pacific	Pacific Telephone
	SEARS ROEBUCK SERVICE & PARTS DEPTS Appliance & Television Service Centers	Pacific Telephone
1970	SEARS ROEBUCK SERVICE & PACIFIC APPLIANCE & TELEVISION SERVICE CENTER	Pacific Telephone
	SEARS ROEBUCK SERVICE & PACIFIC APPLIANCE & TELEVISION SERVICE CENTER	Pacific Telephone

### 12901 CULVER BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	E Z STORAGE	Cole Information Services
	E Z STORAGE	Cole Information Services
2006	EASYSTORAGE	Haines Co., Inc.
	EZ STORAGE	Haines Co., Inc.
	TRUCK RENTAL	Haines Co., Inc.
	STORAGE EZ	Haines Co., Inc.
	EASYSTORAGE	Haines Co., Inc.
	CENTER	Haines Co., Inc.
1991	E Z Storage	Pacific Bell
1985	EZSTORAGE	Pacific Bell

### Culver Blvd.

#### 12901 Culver Blvd.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	EASYSTORAGE	Haines Co., Inc.
	EASYSTORAGE	Haines Co., Inc.
	EZ STORAGE	Haines Co., Inc.
	TRUCK RENTAL	Haines Co., Inc.
	CENTER	Haines Co., Inc.
	STORAGE EZ	Haines Co., Inc.
1991	E Z Storage	Pacific Bell
1985	EZSTORAGE	Pacific Bell

## FINDINGS

### **PANAMA**

#### **12820 PANAMA**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2000	ALLEN Betty	Haines & Company
1971	KCE Corp	Pacific Telephone
1962	F F & M ELECTRONICS INC	Pacific Telephone
	Fenske Fedrick & Miller Inc	Pacific Telephone

#### **12821 PANAMA**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2000	YADAO Amante	Haines & Company

#### **12825 PANAMA**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2000	COUCH Michael	Haines & Company

#### **12827 PANAMA**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2000	XXXX	Haines & Company

#### **12831 PANAMA**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2000	BEALS Lowell	Haines & Company

#### **12837 PANAMA**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2000	ELLINGTON Thelma	Haines & Company

#### **12841 PANAMA**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2000	KELLEY John	Haines & Company

#### **12847 PANAMA**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2000	MIZUTARI Toshiyuki	Haines & Company

#### **12851 PANAMA**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2000	NISHIHARA Lynn	Haines & Company

## FINDINGS

### 12861 PANAMA

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2000	SHAFIPOOR Akram	Haines & Company
	WESTTOWER TOWING	Haines & Company

### 12863 PANAMA

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2000	XXXX	Haines & Company

### 12867 PANAMA

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2000	KOKAWA Irene	Haines & Company

### 12871 PANAMA

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2000	PENA Robert	Haines & Company

### 12900 PANAMA

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2000	XXXX	Haines & Company

### 12907 PANAMA

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2000	PHILLIPS Ridgway	Haines & Company

### 12908 PANAMA

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2000	XXXX	Haines & Company
1971	Wahl Wm Corp	Pacific Telephone

### 12910 PANAMA

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2000	XXXX	Haines & Company
1971	BANNER PRINTING CO	Pacific Telephone
1967	CHEM SEAL CORP OF AMERICA	Pacific Telephone
1962	Chem Seal Corp of America	Pacific Telephone

### 12911 PANAMA

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2000	SUMIDA Calvin	Haines & Company

## FINDINGS

### 12917 PANAMA

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2000	BERBERIAN Yolanda	Haines & Company

### PANAMA AVE

### 12871 PANAMA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1970	SANTHEZ XAVIER	Pacific Telephone

### PANAMA ST

### 12820 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Sprague Gina R	Pacific Telephone
	SPRAGUE ELECTRIC CO Filter Division	Pacific Telephone
1962	FENSKE FEDRICK & MILLER INC	Pacific Telephone
	FF & M ELECTRONICS INC	Pacific Telephone
1958	FENSKA FECLRICK & MILLER INC	Pacific Telephone
	FENSKE FEDRICK & MILLER INC	Pacific Telephone

### 12821 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1970	SHUMAR M	Pacific Telephone
1958	TAUBMAN MIORRIS	Pacific Telephone
1954	TAUBMAN MORRIS	R. L. Polk & Co.

### 12825 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	ANDERSON Melissa	Haines Co., Inc.
	KOEPSEL David	Haines Co., Inc.
	COUCH Michael	Haines Co., Inc.
1991	VASQUEZ SUBLIME	Pacific Bell
	Vasquez Sublime	Pacific Bell
	Vasquez T SANTA MONICA 8283057	Pacific Bell
1985	VASQUEZ SUBLIME	Pacific Bell
1980	Vasquez Sublime	Pacific Telephone
1965	MISSEYER LULOF	Pacific Telephone
1954	ALVAREZ JACK	R. L. Polk & Co.



## FINDINGS

### 12827 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	KOEPSEL David	Haines Co., Inc.
1970	ALVAREZ ANNA	Pacific Telephone

### 12831 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	No Current Listing	Haines Co., Inc.
1980	De Leon Leo	Pacific Telephone
1970	SPILLMAN MARY	Pacific Telephone
1962	CSPOSITO LOUIS J	Pacific Telephone
1958	BEALS LOWELL R	Pacific Telephone
1954	BEALS LOWELL R	R. L. Polk & Co.

### 12837 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	ELLINGTON Joseph	Haines Co., Inc.
1991	Ellington Thelma	Pacific Bell
	Elington W WESTWOOD 208564	Pacific Bell
1985	ELLINGTON THELMA	Pacific Bell
1980	Ellingtoin Thelma	Pacific Telephone
1975	ELLINGTON THELMA	Pacific Telephone
1970	ELLINGTORNTHELMA	Pacific Telephone
1962	ELLINGTON JOS	Pacific Telephone
1958	ELLINGTON JOS	Pacific Telephone
1954	ELLINGTON JOS	R. L. Polk & Co.

### 12841 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	MARES Gary	Haines Co., Inc.
1991	Zarzosa Julio	Pacific Bell
	Zarzosa Edgar	Pacific Bell
	ZARZOSA EDGAR	Pacific Bell
1985	STERN-REEDY MARGIE	Pacific Bell
	STEM MARGIE	Pacific Bell
	REEDY DONALD	Pacific Bell
1980	West Ferrell	Pacific Telephone
	Stern Margie	Pacific Telephone
1962	MVARQUEE JOSE N	Pacific Telephone
1954	PLAINQUET ANDREE	R. L. Polk & Co.

## FINDINGS

### 12847 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	Mt ZUTARIToshiyuk I	Haines Co., Inc.
1991	Mizutari Toshiyuki	Pacific Bell
	MIZUTARI TOSHIYUKL	Pacific Bell
1985	MIZUTARI TOSHIYUKI	Pacific Bell
1980	Mizutari Toshiyuki	Pacific Telephone
1975	MIZUTARI TOSHIYUKI	Pacific Telephone
1970	MIZUTARL TOSHLIYUKI	Pacific Telephone
1965	MIZUTARI TOSHIYUKI	Pacific Telephone
1962	MCWHORTER M W	Pacific Telephone
1958	DUNHAM C M	Pacific Telephone

### 12851 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	NISHIHARA Lynn	Haines Co., Inc.
1991	Nishihara Lynn	Pacific Bell
	NISHIHARA LYNN	Pacific Bell
1985	NISHIHARA LYNN	Pacific Bell
1980	Nishihara Lynn	Pacific Telephone
1975	NISHIHARA LYNN	Pacific Telephone
1970	NISHIHARA LYNN	Pacific Telephone
1965	NISHIHARA LYNN	Pacific Telephone
1958	TURNER READE	Pacific Telephone
1954	TURNER READE	R. L. Polk & Co.

### 12857 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1970	SHIRAKI SPUD A	Pacific Telephone
1965	SINIRAKI SPUD A	Pacific Telephone
1962	SHIRAKI SPUD A	Pacific Telephone
1958	HIRAKI SPUD A	Pacific Telephone
1954	SHTAKI SPUD A	R. L. Polk & Co.

### 12861 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	B & R ENTERPRISES	Haines Co., Inc.
	ZEMINAN Sandra	Haines Co., Inc.
1975	GONZALES ISAAC	Pacific Telephone
1970	MASUDA MARSHA	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1958	DOODY RICHARD D	Pacific Telephone

### 12863 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	ALL CITY DELIVERY SERVICE CHERRINGTON Curtis CHERRINGTON Curtis	Haines Co., Inc. Haines Co., Inc. Haines Co., Inc. Haines Co., Inc. Haines Co., Inc. Haines Co., Inc.
1991	GONZALEZ-TELLEO JOSE Goo V LOS ANGELES 2092393 Gonzalez Telleo Jose	Pacific Bell Pacific Bell Pacific Bell
1985	PRADO GLORIA	Pacific Bell
1980	Rodriguez Jabier	Pacific Telephone
1975	HURTADO FRANCISCO	Pacific Telephone
1965	VALDNZ JESSIE	Pacific Telephone
1958	VALDEZ JESSIE M	Pacific Telephone

### 12867 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	SAGER Robert	Haines Co., Inc.
1991	KOKAWAFRANKY Kokawa Frank Y	Pacific Bell Pacific Bell
1985	KOKAWA FRANK Y	Pacific Bell
1980	Kokawa Frank Y	Pacific Telephone
1975	KOKAWA FRANK Y	Pacific Telephone
1970	KOKAWA FRANKLOS ANGELES	Pacific Telephone
1958	(OKAWA FRANK Y	Pacific Telephone

### 12871 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	KIM Samuel	Haines Co., Inc.
1965	SANTHEZ XAVIER	Pacific Telephone
1962	SANTHIEZ XAVIER	Pacific Telephone
1958	GUDKA ERNEST C	Pacific Telephone

### 12907 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	PHILLIPS Ridgway	Haines Co., Inc.

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Tokirlo Frank M	Pacific Telephone
	Toklrio R S	Pacific Telephone
1970	ROKIRIO FRANK M	Pacific Telephone
1965	TOKIRLO FRANK M	Pacific Telephone
1962	TOKIRIO FRANK M	Pacific Telephone

### 12908 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	HEAT-SPY	Pacific Telephone
1970	PYRODYNE DIV OF WILLIAM WAHI CORP	Pacific Telephone
1965	QUANTATRON	Pacific Telephone

### 12910 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	BANNER PRINTING CO	Pacific Telephone
	From Los Angeles Telephones Call	Pacific Telephone
1976	BANNER PRINTING CO	Pacific Telephone
1975	BANNER PRINTING CO	Pacific Telephone
1970	BANTER PRINTING CO	Pacific Telephone
	BANNERT PRINTING CO	Pacific Telephone
1965	CHEM SEAL CORP OF AMERICA	Pacific Telephone
1962	CHEM SEAL GORP OF AMERICA	Pacific Telephone
	CHEM SEAL CORP OF AMERICA	Pacific Telephone
1958	CHEM-SEAL CORP	Pacific Telephone
	Chem Seal Corp	Pacific Telephone

### 12911 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	NITRO ONE INC	Cole Information Services
	PYRO RACING	Cole Information Services
1991	Campbel Kris	Pacific Bell
	Lampe Il Mike	Pacific Bell
	Lampe Arthur L 4549371	Pacific Bell
	Laonpert B&D MALIBU 4576097	Pacific Bell
	La Ape rthur L 4549377	Pacific Bell
	LAMPEILMIKE	Pacific Bell
	CAMPBELKRIS	Pacific Bell
1980	Nortman Richard	Pacific Telephone
	Quinn Laurel	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1970	SUENILDA CALVIN T	Pacific Telephone
1965	SUMIDA CALVIN T	Pacific Telephone
1962	SUMNIDA CALVIN P	Pacific Telephone

### 12917 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	VERNON Robert	Haines Co., Inc.
	VANDERKLOOT	Haines Co., Inc.
	Kathiedne	Haines Co., Inc.
1980	Russell John	Pacific Telephone
1975	MENDOZA LUCIO	Pacific Telephone
1970	DAWLEY LOIS	Pacific Telephone
1965	DAWLEY LOIS	Pacific Telephone
1962	BUSCH WE E	Pacific Telephone
1958	BUSCH WM E	Pacific Telephone
1954	BUSCH WM E	R. L. Polk & Co.

### 12921 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Wornstaff Harvey S	Pacific Telephone
1954	GUSTAFSON JOHN	R. L. Polk & Co.

### 12964 PANAMA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	TELEDYNE MICROELECTRONICS	Cole Information Services
2008	T D Y INDUSTRIES INC	Cole Information Services
	TELEDYNE LIGHTING	Cole Information Services
	TELEDYNE LIGHTING & DISPLAY PDTS	Cole Information Services
	TELEDYNE ELECTRONIC TECHNOLOGIES	Cole Information Services

### Panama Street

#### 12820 Panama Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	SPRAGUE ELECTRIC CO Filter Division	Pacific Telephone
	Sprague Gina R	Pacific Telephone
1962	FENSKE FEDRICK & MILLER INC	Pacific Telephone
	FF & M ELECTRONICS INC	Pacific Telephone
1958	FENSKA FECLRICK & MILLER INC	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1958	FENSKE FEDRICK & MILLER INC	Pacific Telephone

### 12908 Panama Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	HEAT-SPY	Pacific Telephone
1970	PYRODYNE DIV OF WILLIAM WAHI CORP	Pacific Telephone
1965	QUANTATRON	Pacific Telephone

### 12910 Panama Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	BANNER PRINTING CO	Pacific Telephone
	From Los Angeles Telephones Call	Pacific Telephone
1976	BANNER PRINTING CO	Pacific Telephone
1975	BANNER PRINTING CO	Pacific Telephone
1970	BANNERT PRINTING CO	Pacific Telephone
	BANTER PRINTING CO	Pacific Telephone
1965	CHEM SEAL CORP OF AMERICA	Pacific Telephone
1962	CHEM SEAL GORP OF AMERICA	Pacific Telephone
	CHEM SEAL CORP OF AMERICA	Pacific Telephone
1958	Chem Seal Corp	Pacific Telephone
	CHEM-SEAL CORP	Pacific Telephone

### 12922 Panama Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	DIGITEK CORPORATION	Pacific Telephone

### 12930 Panama Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1962	ARNOUX CORP ELECTRAC EQUIP GENL OFC	Pacific Telephone
	ARNOUX CORP ELECTRAC EQUIP GENL OFC	Pacific Telephone
	ARNOUX CORP ELECTRAC EQUIP GENL OFC	Pacific Telephone
	ASTRA TECHNICAL INSTRUMENT CORP	Pacific Telephone
1958	Arnoux Corp Mfg Div electr eq	Pacific Telephone
	ARNOUX CORP	Pacific Telephone
	ARNOUX CORP MFG DIV ELECTRNC EQUIP	Pacific Telephone

## FINDINGS

### 12964 Panama Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	PAC WAVE	Haines Co., Inc.
	COMMUNICATIONS	Haines Co., Inc.
	TELEDYNE	Haines Co., Inc.
	MICROELECTRONIC	Haines Co., Inc.
1995	TELEDYNE MICROELECTRONICS	Pacific Bell
	Teledyne Microelectronics	Pacific Bell
1991	Teledyne Microelectronics	Pacific Bell
	TELEDYNE MICROELECTRONICS	Pacific Bell
	Teledyne Microelectronics	Pacific Bell
	Fram Los Angeles Telephones Call	Pacific Bell
	Teledyne Microelectronics	Pacific Bell
	From Los Angeles Telephones Call	Pacific Bell
1985	TELEDYNE MICROELECTRONICS	Pacific Bell
	Teledyne Microelectronics	Pacific Bell
1980	Microelectronic Operations	Pacific Telephone
	Microelectronic Operations	Pacific Telephone
	From Los Angeles Telephones Call	Pacific Telephone
	Teledyne Inc	Pacific Telephone
	From Los Angeles Telephones Cal	Pacific Telephone
1976	Teledyne Systems Company	Pacific Telephone
	Microelectronic Operations	Pacific Telephone
	Communications Systems Division Division Of Teledyne Inc	Pacific Telephone
1975	Microelectronic Operations	Pacific Telephone
	Microelectronic Operations	Pacific Telephone
	COMMUNICATIONS SYSTEMS DIVISION-DIVISION OF TELEDYNE INC	Pacific Telephone
	HANDLEY POTENTIOMETER DIV OF AMELCO INC	Pacific Telephone
1970	HANDLEY POTENTIOMETER DLV OF AMELCO INC	Pacific Telephone
	COMMUNICATIONS SYSTEMS DIVISION-DIVISION OF TELEDYNE INC	Pacific Telephone
	TELEDYNE SYSTEMS COMPANY	Pacific Telephone
1965	HANDLEY POTENTIOMETER DLV OF AMELCO INC	Pacific Telephone
1962	MERCURY TRANSFORMER CORP	Pacific Telephone
	HANDLEY POTENTIOMETER DIV OF AMELCO INC	Pacific Telephone
	AMELCO INC ELECTRNC EQUIP	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1958	AMELCO INC ELECTRNC EQUIP	Pacific Telephone
	AMELCO INC ELECTRNC EQUIP	Pacific Telephone

### RUBENS AVE

#### 12846 RUBENS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	No Current Listing	Haines Co., Inc.
2000	VALENCIA Lorenzo 310 20 3 510 M	Haines & Company
1991	VALENCIA LORENZO	Pacific Bell
	Valencia Nora LOS ANGELES 5785470	Pacific Bell
	Valencia Metals Co POBox 982 TOPANGA 4553168	Pacific Bell
	Valencia M CULVER CITY 3980961	Pacific Bell
	Valencia Lorenzo	Pacific Bell
1985	VALENCIA LORENZO	Pacific Bell
1980	Valencia Lorenzo	Pacific Telephone
1965	HYUN FRANK	Pacific Telephone
1962	HYUN FRANK	Pacific Telephone
1958	HYUN FRANK	Pacific Telephone
1954	HYUN FRANK	R. L. Polk & Co.

#### 12847 RUBENS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	TAKANOTed	Haines Co., Inc.
	WROBELAvi	Haines Co., Inc.
2000	TAKANO Ted	Haines & Company
1991	Takao C 8377917	Pacific Bell
	Takano Ted	Pacific Bell
	TAKANO TED	Pacific Bell
1985	TAKANO TED	Pacific Bell
1980	Takano Ted	Pacific Telephone
1970	TAKANO TED	Pacific Telephone
1965	TAKANO TED	Pacific Telephone
1962	TAKANO TED	Pacific Telephone
1958	TAKANO TED	Pacific Telephone

#### 12850 RUBENS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2000	SHIMIZU Toshiko	Haines & Company



## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Alarcon Wm S	Pacific Telephone
1975	ALARCON WM S	Pacific Telephone
1970	MORIMOTO STAN	Pacific Telephone
1965	HYUE JOE J	Pacific Telephone
1962	HYUN JOE J	Pacific Telephone

### 12851 RUBENS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	HOSPITALITY RESOURCES	Cole Information Services
2008	HS PROFESSIONALS INC	Cole Information Services
	ACCESS HOSPITALITY RESOURCES	Cole Information Services
2006	No Current Listing	Haines Co., Inc.
2000	PAREL Julian	Haines & Company
1962	PAREL JULIAN	Pacific Telephone
1958	PAREL JULIAN	Pacific Telephone
1954	PAREL JILIAN	R. L. Polk & Co.

### 12856 RUBENS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	GARCIA Connie	Haines Co., Inc.
2000	GARCIA Connie	Haines & Company
1965	GARCIA JAVIEL	Pacific Telephone
1958	GARCIA JAVIEL FRUITS	Pacific Telephone
1954	GARCIA JAVIEL	R. L. Polk & Co.

### 12857 RUBENS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	ABE Masuo	Haines Co., Inc.
2000	ABE Masuo	Haines & Company
1991	ABE MASUO	Pacific Bell
	Abe Masuo	Pacific Bell
1985	ABE MASUO	Pacific Bell
1980	Abe Masuo	Pacific Telephone
1970	TAKASAKI KINYA	Pacific Telephone
1965	TAKASAKI KINYA	Pacific Telephone
1962	TAKASAKI LCINYA	Pacific Telephone
1958	TAKASAKI KINYA	Pacific Telephone
1954	TAKASAKI KIIYA	R. L. Polk & Co.

## FINDINGS

### 12860 RUBENS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	a GARCIAMane	Haines Co., Inc.
2000	GARCIA Marie	Haines & Company

### 12861 RUBENS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	a YAMANAKAKenny	Haines Co., Inc.
2000	YAMANAKA Kenny	Haines & Company
1991	Yamanaka Ray	Pacific Bell
1985	YAMANAKA RAY- 8226610	Pacific Bell
1980	Yamanaka Ray	Pacific Telephone
1965	YAMANAKA RAY	Pacific Telephone
1962	YARNANAKA RAY	Pacific Telephone
1958	LOSAKA MASATO	Pacific Telephone
1954	HOFFMAN ARNOLD	R. L. Polk & Co.

### 12866 RUBENS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	TEPPERJoel	Haines Co., Inc.
2000	TEPPER Joel	Haines & Company
1985	LUBOFF P	Pacific Bell
	LUBOFF PETE & PAT	Pacific Bell
	LUBOFF P	Pacific Bell
1965	GALVAN MARTIN G	Pacific Telephone
1962	GALVAN MARTIN G	Pacific Telephone
1958	GALVAN MARTIN G	Pacific Telephone
1954	GALVAN MARTIN G	R. L. Polk & Co.

### 12867 RUBENS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	ALLENMark	Haines Co., Inc.
	GOLDEN Sean	Haines Co., Inc.
	ALLEN Mark	Haines Co., Inc.
1980	Sacanli Maxine	Pacific Telephone
1970	HORN ARTHUR H	Pacific Telephone
1965	SACANLI ANTONIO C	Pacific Telephone
1962	SACANLI ANTONIO C	Pacific Telephone
1958	SACANLI ANTONIO C	Pacific Telephone
1954	SACANLI ANTONIO C	R. L. Polk & Co.

## FINDINGS

### 12870 RUBENS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	ODA Takashi	Haines Co., Inc.
2000	ODA Takashi	Haines & Company
1985	ODA TAKASHL	Pacific Bell
1980	Oda Takashi	Pacific Telephone
	ODaix Wm	Pacific Telephone
1975	ODA TAKASHI	Pacific Telephone
1965	ODA TAKASHI	Pacific Telephone
1962	ODA TALCASHI	Pacific Telephone
1958	WANG GORDON	Pacific Telephone

### 12871 RUBENS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	AKIYAMATomio	Haines Co., Inc.
2000	X BEETHOVEN	Haines & Company
	AKIYAMA Tomio 31 Ifra	Haines & Company
1991	Akiyama TOfflio	Pacific Bell
1985	AKIYAMA TOMIO	Pacific Bell
1980	Akiyama Cynthia	Pacific Telephone
	Akiyama Tomio	Pacific Telephone
1975	AKIYAMA TOMIO	Pacific Telephone
1970	AKLYANA TOMLO	Pacific Telephone
1965	AKIYAMA TOMBO	Pacific Telephone
1962	AKIYAMA TOMIO	Pacific Telephone
1954	JADULANG A T	R. L. Polk & Co.

## FINDINGS

### 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

12870 Panama Street

#### Address Not Identified in Research Source

2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1972, 1969, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

### 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

12820 PANAMA

#### Address Not Identified in Research Source

2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

12820 PANAMA ST

2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

12820 Panama Street

2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

12821 PANAMA

2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

12821 PANAMA ST

2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

12825 PANAMA

2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

12825 PANAMA ST

2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920















# Appendix I

Sanborn Fire Insurance Maps



**Teledyne Panama Street Property**

12870 Panama Street

Los Angeles, CA 90066

Inquiry Number: 4246078.3

March 26, 2015

**Certified Sanborn® Map Report**



6 Armstrong Road, 4th Floor  
Shelton, Connecticut 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# Certified Sanborn® Map Report

3/26/15

**Site Name:**

Teledyne Panama Street  
12870 Panama Street  
Los Angeles, CA 90066

**Client Name:**

Teledyne Technologies  
12870 Panama Street  
Los Angeles, CA 90066



EDR Inquiry # 4246078.3

Contact: Mark Egbert

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## Certified Sanborn Results:

**Site Name:** Teledyne Panama Street Property  
**Address:** 12870 Panama Street  
**City, State, Zip:** Los Angeles, CA 90066  
**Cross Street:**  
**P.O. #** NA  
**Project:** Teledyne 12870 Panama Street  
**Certification #** 9AF8-4A03-8807



Sanborn® Library search results  
Certification # 9AF8-4A03-8807

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# Appendix J

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