

## **Appendix IS-5**

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### Methane Gas Assessment Report

# Methane Gas Assessment Report

1206-1338 East 6th Street & 1205-1321 Wholesale Street

Los Angeles, California 90021

Assessor Parcel Numbers (APNs): 5164-010-003, -004, and -005

Alameda Studio Owner, LLC

2601 Main Street, Suite 450

Irvine, California 92614

(949) 554-4352

**SCS ENGINEERS**

Project No. 01221300.00 | April 8, 2022

3900 Kilroy Airport Way, Suite 100

Long Beach, California 90806

(562) 426-9544

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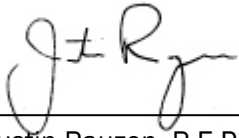
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This Methane Gas Assessment report dated April 8, 2022 for 1206-1338 East 6th Street & 1205-1321 Wholesale Street, Los Angeles, California was prepared by Geneva Nguyen and reviewed by the following:



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Justin Rauzon, R.E.P.A.  
Senior Project Scientist  
**SCS ENGINEERS**



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Jeffrey T. Sieg, PG  
Project Geologist  
**SCS ENGINEERS**

## DISCLAIMER

This report has been prepared for Alameda Studio Owner, LLC with specific application to a subsurface methane gas assessment conducted at 1206-1338 East 6th Street & 1205-1321 Wholesale Street, Los Angeles, California. This report has been prepared in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, express or implied, is made as to the professional opinions presented herein. No other party, known or unknown to SCS Engineers, is intended as a beneficiary of this work product, its content or information embedded therein. Third parties use this report at their own risk.

Changes in site conditions may occur due to variation in rainfall, temperature, water usage, or other factors. Additional information that was not available to the consultant at the time of this investigation or changes that may occur on the site or in the surrounding area may result in modification to the site that would impact the summary and recommendations presented herein. This report is not a legal opinion.

# 1 INTRODUCTION

SCS Engineers (SCS) was retained by Alameda Studio Owner, LLC to conduct a subsurface methane gas assessment for property located at 1206-1338 East 6th Street & 1205-1321 Wholesale Street, Los Angeles, California (the “Property”). The Property comprises an area of approximately 14.6 acres, a map showing the location of the Property is provided as **Figure 1**.

Proposed plans for the Property include the demolition of the existing structures and redevelopment with film studio space. Although design plans are not finalized, current plans call for underground parking to be installed at the western side of the Property.

In March 2004, the City of Los Angeles passed an Ordinance requiring the assessment and protection of buildings located within delineated “Methane Hazard Zones” and “Methane Buffer Zones.” According to a Parcel Profile Report (**Appendix A**) from the City of Los Angeles Department of Building and Safety (LADBS), the Property lies within a designated Methane Buffer Zone. In order to assess protection measures that may be required for future development, a methane gas assessment was conducted in general accordance with the LADBS, Site Investigation Standards for Methane, effective July 9, 2004.

In 2015 and 2018, Leighton and Associates, Inc. (Leighton) conducted previous investigations at the Property to assess the presence of methane gas (**Appendix B**). Those investigations were conducted by a different client, which had plans to redevelop the Property with mixed-use commercial and residential structures, likely with subterranean parking. The 2015 investigation consisted of limited sampling at five boring locations, with probe implants placed 5, 10, and 20 feet below ground surface (bgs). Samples from 12 probes were collected in Tedlar bags and analyzed for methane in a mobile laboratory using EPA Method 8015M. During the 2015 investigation, methane gas was not present above the equipment’s detection limit (less than 0.10 percent by volume). Pressure readings were not collected during the 2015 investigation.

The 2018 methane investigation included probes installed at thirty-five locations. Because this investigation assumed a planned underground parking garage, the depths of the nested probe installations ranged from 58 feet bgs to 93 feet bgs. Leighton monitored 105 probes for pressure using a digital manometer and the transducers of a GEM™2000 (GEM) field monitor. Differential pressure readings ranged from -0.50 to +2.00 inches of water, with one reading of +5.70 inches of water, which Leighton described as an anomaly. Additionally, combustible gasses (reported as methane) from each probe were monitored in the field using a GEM unit. Field readings collected identified combustible gas at concentrations up to 0.4 percent as methane in 13 of the 105 probes. To verify the field readings, Leighton collected soil gas samples from probes identified as having detectable concentrations of combustible gas for laboratory analysis by ASTM Method D1946. Analytical results show that methane was not detected above the laboratory’s practical quantification limit of 0.01 percent.

This methane gas assessment (discussed further below), in conjunction with the 105 probes installed by Leighton in 2018 address the current requirements of the Ordinance. Data collected during this and previous assessments can be used to assist in the design and development of site protection systems.

## 2 SITE INVESTIGATION

SCS conducted the combustible gas assessment (reported as methane) to address the current requirements of the Ordinance, which included installing and monitoring subsurface methane gas probes on the Property. Based on the square-footage of the Property (approximately 635,976 square feet), the Ordinance requires that probes be installed at 5 feet bgs, or below proposed building footing, for every 10,000 square feet, or portion thereof, of the Property area, additionally multi-nested probes to be installed at 10 and 20 feet bgs, or below proposed development footing, for every 20,000 square feet, or portion thereof, of the Property. Under the Ordinance this would require that 64 five-foot probes and 32 multi-nested probes. For very large sites, the Ordinance allows for the number of sampling locations to be based on the building footprint plus the area within 100 feet of the building perimeter. In light of the 2018 sampling, during this methane investigation, SCS installed and monitored multi-nested probes at an additional 30 boring locations.

### METHANE PROBE INSTALLATION

On February 2 and 3, 2022, 30 borings were advanced and temporary soil gas probes were installed at approximately 5, 10, and 20 feet bgs (90 total probes). Groundwater was not encountered during probe installation.

Under the oversight of SCS, Kehoe Testing & Engineering of Huntington Beach, California conducted methane well/probe installation activities using a truck-mounted, hydraulically-driven, direct-push rig to advance 2-inch diameter steel rods into subsurface soils to a maximum depth of 20 feet bgs. The steel rods were retracted from the boring and 1/4-inch diameter nylaflow tubing with a polypropylene filter placed on the bottom end, was inserted to the desired depth (5, 10, or 20 feet bgs) and approximately one-foot of clean #2-12 Monterey sand was placed around each filter. A bentonite seal was placed above the sand pack for each probe. Following installation, the well/boring was sealed at the surface with bentonite. Probe locations are shown on **Figure 2**.

### METHANE PROBE MONITORING

SCS personnel monitored each gas probe on February 7, 2022, with a second monitoring events on February 9 and 10, 2022. Prior to gas monitoring, a Magnahelic pressure gauge was used to measure the vacuum/pressure within each probe. Gas probes were monitored for methane (CH<sub>4</sub>), carbon dioxide (CO<sub>2</sub>), and oxygen (O<sub>2</sub>) using a GEM™5000 manufactured by CES-Landtec. Prior to field use, the instrument was calibrated using laboratory-certified calibration gas.

## 3 METHANE ASSESSMENT

Methane is explosive when it reaches a concentration of between 5 and 15 percent in air; 5 percent is also known as the Lower Explosive Limit (LEL). Regulatory agencies are generally concerned that methane will seep or migrate through soil and accumulate in structures. If the methane should permeate flooring materials or flow through cracks, accumulate in enclosed spaces (rooms, utility vaults, wall spaces) at concentrations above the LEL, and then be subject to an ignition source (e.g., pilot flame, electrical spark, cigarette), a fire or explosion could result. Although subsurface methane is present in large areas of Southern California, fires associated with such methane are extremely rare.

Methane concentrations can be expressed in terms of either percent (%) by volume, percent of the LEL, or parts per million by volume (ppmv). For reference, 5% methane in air is equivalent to 100%

of the LEL or 50,000 ppmv; 1% methane in air is equivalent to 20% of the LEL or 10,000 ppmv; and 0.05% in air is equivalent to 1% LEL or 500 ppmv.

## FIELD MONITORING RESULTS

A summary of field monitoring results is presented in **Table 1**. Field monitoring logs are provided in **Appendix C**.

As shown in **Table 1**, two monitoring events were conducted, the first on February 7 and the second between February 9 and 10, 2022. Methane was not detected above the monitor's detection limit of 0.1% by volume or 1,000 ppmv. As stated above, temporary multi-nested probes were installed at 30 locations; however, at the time of monitoring one of the locations containing 3 probes was damaged and could not be sampled. The remaining 87 probes (29 locations) where multi-nested probes were installed, positive pressure greater than 2 inches of water (i.w.) was not detected.

## 4 CONCLUSIONS

SCS concludes the following with regard to this Methane Gas Assessment:

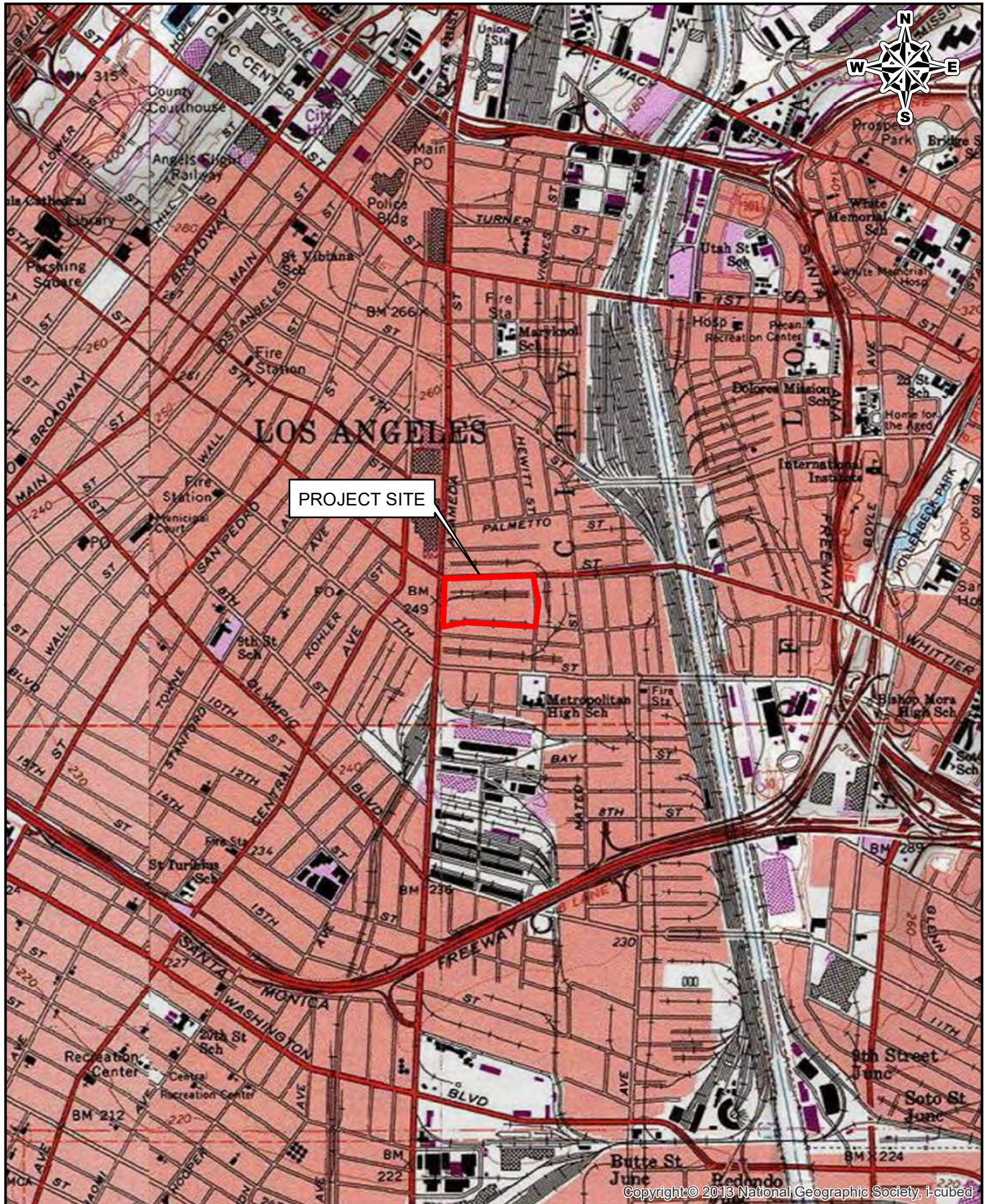
- The Property is located in the Methane Buffer Zone.
- The Design Methane Pressure is less than 2 inches of water column.
- The Design Methane Concentration is <1,000 ppmv, less than Level II upper limit.
- Groundwater was not encountered during investigation activities.

Table 71 of the Ordinance establishes minimum methane mitigation requirements for sites within a Methane Hazard Zone or Methane Buffer Zone. Utilizing the results of the 2018 Leighton investigation in conjunction with this current methane assessment, conducted by SCS, according to Section 91.7104.3.6 of the Ordinance "a building located entirely or partially in the Methane Buffer Zone shall not be required to provide any methane mitigation system if the design methane pressure is less than or equal to two inches and it qualifies as Site Design Level I or II." Consequently, future buildings at the Property will not be required to provide methane mitigation or engineering controls.

A certificate of compliance for the methane test data is provided as **Appendix D**.



## Figures 1 and 2



0 1,000 2,000 Feet

**SCS ENGINEERS**

3900 KILROY AIRPORT WAY, SUITE 100  
LONG BEACH, CALIFORNIA 90806

SITE:

1206-1338 East 6th Street  
1205-1321 Wholesale Street  
Los Angeles, California 90021

Job No.: 01221300.00

Title: SITE LOCATION MAP



FIGURE

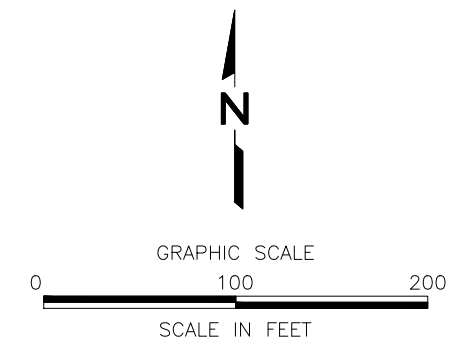
1

\\bc-fs01\DATA\PROJECTS\01221300.00\Background Documents\Figures\Proposed Sample Locations.dwg, Mar 04, 2022 - 9:3am, By: 4552LV



**LEGEND**

-  PROPERTY LINE
-  METHANE PROBE LOCATION



SHEET TITLE: GOOGLE AERIAL IMAGE SHOWING METHANE PROBE LOCATIONS

PROJECT TITLE:  
1206-1338 6TH STREET AND 1205-1321 WHOLESale STREET  
LOS ANGELES, CALIFORNIA 90021

CLIENT:  
ALAMEDA STUDIO OWNER, LLC  
2601 MAIN STREET, SUITE 450  
IRVINE, CALIFORNIA 92614

**SCS ENGINEERS**  
ENVIRONMENTAL CONSULTANTS  
3900 KILLROY AIRPORT WAY, SUITE 100  
LONG BEACH, CA 90806  
PH: (562) 426-9544 FAX: (562) 427-0805

DESIGNER: J.VARGAS	CHECKER: J.VARGAS	PROJECT NO: 01221300.00	DATE: MARCH 2022
DRAWN BY: J.VARGAS	APP. BY: J.RAUZON	SCALE: 1" = 200'	FIGURE NO. 2

## Table 1

**Table 1.**  
**Methane Monitoring Summary**  
**1206-1338 East 6th Street & 1205-1321 Wholesale Street**

Probe ID	Probe Depth	February 7, 2022			February 9 and 10, 2022		
		(+) Pressure or (-) Vacuum	Methane (CH <sub>4</sub> )		(+) Pressure or (-) Vacuum	Methane (CH <sub>4</sub> )	
	feet	inches of water (i.w.)	% VOL.	ppmv	inches of water (i.w.)	% VOL.	ppmv
MP-1	5	-0.05	0.0	0	0.00	0.0	0
	10	0.00	0.0	0	0.00	0.0	0
	20	-0.10	0.0	0	-0.10	0.0	0
MP-2	5	0.00	0.0	0	0.00	0.0	0
	10	-0.15	0.0	0	0.00	0.0	0
	20	0.00	0.0	0	0.00	0.0	0
MP-3	5	0.00	0.0	0	0.00	0.0	0
	10	0.00	0.0	0	0.00	0.0	0
	20	0.00	0.0	0	0.00	0.0	0
MP-4	5	0.00	0.0	0	-0.15	0.0	0
	10	0.00	0.0	0	0.00	0.0	0
	20	0.00	0.0	0	0.00	0.0	0
MP-5	5	-0.10	0.0	0	0.00	0.0	0
	10	-0.05	0.0	0	0.00	0.0	0
	20	-0.05	0.0	0	0.00	0.0	0
MP-6	5	-0.05	0.0	0	0.05	0.0	0
	10	-0.05	0.0	0	0.05	0.0	0
	20	-0.05	0.0	0	0.05	0.0	0
MP-7	5	0.00	0.0	0	0.05	0.0	0
	10	0.00	0.0	0	0.05	0.0	0
	20	0.00	0.0	0	0.05	0.0	0
MP-8	5	-0.15	0.0	0	0.00	0.0	0
	10	-0.15	0.0	0	0.05	0.0	0
	20	-0.15	0.0	0	0.05	0.0	0
MP-9	5	0.00	0.0	0	0.00	0.0	0
	10	0.00	0.0	0	0.00	0.0	0
	20	0.00	0.0	0	0.00	0.0	0
MP-10	5	-0.05	0.0	0	0.00	0.0	0
	10	0.00	0.0	0	0.00	0.0	0
	20	0.00	0.0	0	0.00	0.0	0
MP-11	5	0.00	0.0	0	0.00	0.0	0
	10	0.00	0.0	0	0.00	0.0	0
	20	0.00	0.0	0	0.00	0.0	0
MP-12	5	-0.15	0.0	0	0.00	0.0	0
	10	0.00	0.0	0	0.00	0.0	0
	20	0.00	0.0	0	0.00	0.0	0
MP-13	5	0.00	0.0	0	0.00	0.0	0
	10	0.00	0.0	0	0.00	0.0	0
	20	0.00	0.0	0	0.00	0.0	0
MP-14	5	Not located					
	10						
	20						
MP-15	5	0.00	0.0	0	0.00	0.0	0
	10	0.00	0.0	0	0.05	0.0	0
	20	0.00	0.0	0	0.05	0.0	0

MP-16	5	0.00	0.0	0	0.00	0.0	0
	10	0.00	0.0	0	0.00	0.0	0
	20	0.00	0.0	0	0.00	0.0	0
MP-17	5	0.00	0.0	0	0.00	0.0	0
	10	-0.05	0.0	0	0.00	0.0	0
	20	-0.05	0.0	0	0.00	0.0	0
MP-18	5	0.00	0.0	0	-0.05	0.0	0
	10	0.00	0.0	0	0.00	0.0	0
	20	0.00	0.0	0	0.00	0.0	0
MP-19	5	-0.05	0.0	0	0.00	0.0	0
	10	0.00	0.0	0	0.00	0.0	0
	20	-0.10	0.0	0	0.00	0.0	0
MP-20	5	0.00	0.0	0	0.00	0.0	0
	10	-0.10	0.0	0	0.00	0.0	0
	20	0.00	0.0	0	0.00	0.0	0
MP-21	5	-0.05	0.0	0	0.00	0.0	0
	10	-0.05	0.0	0	-0.05	0.0	0
	20	-0.05	0.0	0	-0.05	0.0	0
MP-22	5	0.00	0.0	0	0.00	0.0	0
	10	0.00	0.0	0	0.00	0.0	0
	20	0.00	0.0	0	0.00	0.0	0
MP-23	5	0.00	0.0	0	0.00	0.0	0
	10	0.00	0.0	0	-0.05	0.0	0
	20	0.00	0.0	0	0.00	0.0	0
MP-24	5	0.00	0.0	0	0.05	0.0	0
	10	0.00	0.0	0	0.05	0.0	0
	20	0.00	0.0	0	0.05	0.0	0
MP-25	5	0.00	0.0	0	0.05	0.0	0
	10	0.00	0.0	0	0.10	0.0	0
	20	0.00	0.0	0	0.05	0.0	0
MP-26	5	-0.15	0.0	0	-0.10	0.0	0
	10	-0.18	0.0	0	0.10	0.0	0
	20	-0.05	0.0	0	0.10	0.0	0
MP-27	5	0.00	0.0	0	0.00	0.0	0
	10	0.00	0.0	0	0.00	0.0	0
	20	0.00	0.0	0	0.00	0.0	0
MP-28	5	0.00	0.0	0	0.10	0.0	0
	10	0.00	0.0	0	0.10	0.0	0
	20	0.00	0.0	0	0.10	0.0	0
MP-29	5	-0.05	0.0	0	0.05	0.0	0
	10	0.00	0.0	0	0.05	0.0	0
	20	0.00	0.0	0	0.05	0.0	0
MP-30	5	0.00	0.0	0	-0.05	0.0	0
	10	0.00	0.0	0	0.05	0.0	0
	20	0.00	0.0	0	0.05	0.0	0

**Conversions**

100 ppmv = 0.01% methane = 0.2% LEL.  
1,000 ppmv = 0.1% methane = 2% LEL.  
10,000 ppmv = 1% methane = 20% LEL.  
50,000 ppmv = 5% methane - 100% LEL

ppm = parts per million  
ppmv = parts per million by volume  
iw = inches of water  
% VOL. = percent in air

## Appendix A

### LADBS Parcel Profile Report

# Los Angeles Department of Building and Safety

Parcel Profile - Report Date: 1/17/2022 5:33:13 PM

## JOB ADDRESS(ES)

1206 E 6TH ST, LOS ANGELES, CA 90021
1230 E 6TH ST, LOS ANGELES, CA 90021
1268 E 6TH ST, LOS ANGELES, CA 90021
1270 E 6TH ST, LOS ANGELES, CA 90021
1272 E 6TH ST, LOS ANGELES, CA 90021
1274 E 6TH ST, LOS ANGELES, CA 90021
1276 E 6TH ST, LOS ANGELES, CA 90021
1278 E 6TH ST, LOS ANGELES, CA 90021
1308 E 6TH ST, LOS ANGELES, CA 90021
1320 E 6TH ST, LOS ANGELES, CA 90021
1332 E 6TH ST, LOS ANGELES, CA 90021
1334 E 6TH ST, LOS ANGELES, CA 90021
1336 E 6TH ST, LOS ANGELES, CA 90021
1338 E 6TH ST, LOS ANGELES, CA 90021
640 S ALAMEDA ST, LOS ANGELES, CA 90021

## 1. PARCEL LEGAL DESCRIPTION INFORMATION:

Tract:	CITY LANDS OF LOS ANGELES
Block:	
Lot:	"UNNUMBERED LT"
Arb:	NO
Modifier:	PT
Map Reference Number for Tract Recordation:	M R 2-504/505 PAT 3-64/65
Parcel Identification Number:	126A215 355 (/OnlineServices/PermitReport/PermitResultsbyPin?pin=126A215%20%20%20355)

## 2. BASIC ZONING INFORMATION FOR PARCEL:

Alquist-Priolo Fault Zone:	NO
Area Planning Commission:	Central
Baseline Hillside Ordinance:	NO
Baseline Mansionization Ordinance:	NO
Certified Neighborhood Council:	Arts District Little Tokyo
Community Redevelopment Area:	NO
Council District:	14
District Map:	NO
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:	Central City North
Zone(s):	M3-1-RIO

## 3. GEOGRAPHICALLY ORIENTED PARCEL INFORMATION:

500 Foot School Zone:	NO
Airport Hazard Area:	NO
Alley:	NO
Building and Safety Branch Office:	LA
Building Line Setback:	NO



Census Tract:	2060.31
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:	CFG-2000
Division of Land:	NO
Division of Land Exemption:	NO
Earthquake-Induced Landslide Area:	NO
Earthquake-Induced Liquefaction Area:	NO
Easement:	NO
Energy Zone:	9
Environmentally Sensitive Area:	NO
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:	NO
Lot Size:	NO
Lot Type:	NO
Methane Hazard Site:	Methane Buffer Zone
Nat. Water Course:	NO
Near Source Zone Distance:	11
Oil Well Area:	NO
Parcel Area (sqft):	188376.70
Parcel Map Exemption:	NO
Parking District:	CCPD
Parking Layout:	NO
Private Street:	NO
Read Yard Setback:	NO
Side Yard Setback:	NO
Thomas Brothers Map Grid:	634-G6 634-H6
Vacated Street/Alley:	NO
Vehicular Access Waived:	NO

**4. CITY DOCUMENTS ASSOCIATED WITH PARCEL:**

Affidavit:	OB-12853-A
Community Development Block Grant:	BID-ARTS DISTRICT LOS ANGELES
City Planning Case(s):	CPC-2007-3036-RIO CPC-2008-3125 CPC-2014-2415-GPA-CA CPC-2014-5000-CA-GPA CPC-2016-3756-GPA-VZC-SP CPC-2016-3757-DA CPC-2017-432-CPU-CA CPC-1997-423 CPC-1995-352-CPU CPC-1986-607-GPC

Ordinance:	ORD-73847
	ORD-183145
	ORD-183144
	ORD-164855-SA2160
Zoning Information File(s):	ZI-2452 Transit Priority Area in the City of Los Angeles
	ZI-2358 River Implementation Overlay District (RIO)
	ZI-2129 State Enterprise Zone: East Los Angeles
	ZI-2498 Local Emergency Temporary Regulations - Time Limits and Parking Relief - LAMC 16.02.1
	ZI-1117 MTA Right-of-Way (ROW) Project Area

**5. OTHER PARCEL RELATED INFORMATION:**

# Appendix B

## Previous Reports

**FOCUSED SOIL AND SOIL GAS SCREENING  
SURVEY REPORT  
1206-1338 EAST 6<sup>th</sup> STREET AND 1205-1321  
WHOLESALE STREET  
LOS ANGELES, CALIFORNIA**

Prepared For:

**SKMF, LLC**

**c/o LATHAM AND WATKINS, LLP**  
650 Town Center Drive, 20<sup>th</sup> Floor  
Costa Mesa, California 92626-1925

Project No. 10960.001

March 18, 2015



**Leighton and Associates, Inc.**

A LEIGHTON GROUP COMPANY



Leighton and Associates, Inc.  
A LEIGHTON GROUP COMPANY

March 18, 2015

Project No. 10960.001

SKMF, LLC  
C/o Latham & Watkins LLP  
650 Town Center Drive, 20<sup>th</sup> Floor  
Costa Mesa, CA 92626-1925

Attention: Mr. Max Friedman

**Subject: Focused Soil and Soil Gas Screening Survey Report  
1206-1338 East 6<sup>th</sup> Street and 1205-1321 Wholesale Street,  
Los Angeles, California**

## **INTRODUCTION**

Leighton and Associates, Inc. (Leighton) is pleased to present SKMF, LLC (SKMF) and Latham & Watkins LLP (LW) this report summarizing the results of a focused soil and soil gas screening survey for the property located at 1206-1338 East 6<sup>th</sup> Street and 1205-1321 Wholesale Street in the City of Los Angeles, California (the Site or subject property-Figure 1). The Site encompasses an area of approximately 14.57 acres and is developed with two rectangular warehouse buildings that are primarily occupied by tenants in the food distribution industry. The buildings house multiple truck loading docks, and have a combined area of approximately 287,376 square feet. The buildings are surrounded by loading zones and paved parking areas. The Site is located within the City of Los Angeles Methane Buffer Zone based on the City of Los Angeles Department of Building and Safety, Zone Information and Map Access System. Leighton understands that SKMF is in escrow to acquire the subject property and intends to develop the Site into a mixed use commercial and residential property with possible subterranean parking.

The purpose of this focused soil and soil gas screening survey was to screen for the potential presence of hazardous substances and petroleum products in soil and soil gas (including methane) beneath the subject property in the area of (1) the historical machine shops and (2) chemical manufacturing business that could have a significant financial impact on SKMF's plans to redevelop the Site. These two areas were identified in a 2010 Phase I Environmental Site Assessment (ESA) Report for the subject property (ATC, 2010). The focused area of the site investigated is depicted on Figures 2, 3 and 4. This results and conclusions of this report are limited to the areas investigated and do not include the entire 14.57-acre property.

### **Background Information**

Previous environmental investigations were conducted at the subject property, and provided some information on historical use and possible environmental concerns. LW provided Leighton with a Phase I ESA prepared by ATC Associates, Inc. (ATC), dated April 25, 2010. ATC did not identify any recognized environmental conditions (RECs) during their Phase I ESA; however, historical machine shops (along the northern boundary of the Site) and a chemical manufacturer (near the central portion of the Site) were depicted on a 1950 Sanborn Map and in subsequent Sanborn Maps. Additionally, a historical railroad spur, oriented east to west, ran throughout the central portion of the Site from approximately the 1920s to the 1960s. Appendix A includes a list of references.

### **INVESTIGATIVE METHODOLOGY**

The investigative methodology developed for this project includes, and is limited to, the activities summarized below.

#### **Pre-field Activities**

##### **Health and Safety Plan**

A Site Specific Health and Safety Plan (HSP) was prepared for work performed at the Site. All onsite Leighton personnel signed the HSP acknowledging acceptance. The document was kept onsite at all times during the field activities. The HSP was prepared in compliance with Title 8 Section 5192 of the California Code of Regulations (CCR), and the Occupational Safety and Health Administration (OSHA) Chapter 29 of the Code of Federal Regulations (29 CFR) 1910.120.

## Underground Services Alert and Private Subsurface Utility Survey

Underground Service Alert (USA; aka DigAlert) was contacted 48-hours prior to commencement of fieldwork to mark the location of public utilities that may enter the Site from nearby streets. The locations of the proposed borings were clearly marked in white paint prior to contacting USA. Spectrum Geophysics conducted a geophysical utility survey of the project area on March 7, 2015, to evaluate for the presence of private subsurface utilities or structures near the proposed boring locations.

The purpose of the private geophysical survey was to assess the presence of detectable buried underground or anomalies utilities in the vicinity of proposed borings at the subject property. The survey included the use of a Geonics EM61 time domain instrument, Schonstedt GA-52 magnetic gradiometer, Fisher M-Scope TW-6 pipe and cable locator, RD8000 line tracer, and GSSI SIR 3000 Ground Penetrating Radar (GPR) unit using a 400 MHz transducer. Traverses with the aforementioned instruments were conducted along systematic traverses to delineate the presence of detectable underground utilities in the vicinity of proposed boreholes. The findings of the survey were marked on the ground surface with paint. Boring locations that conflicted with underground utilities were relocated nearby.

## **Field Activities**

### Soil Investigation

Six (6) soil borings were advanced to a depth of 20 feet below ground surface (bgs) at locations depicted on Figure 2. The borings were advanced using direct-push, truck-mounted equipment. A photoionization detector (PID) was used to screen soil cuttings for the presence of volatile organic compounds. Soil samples were collected and retained in acetate sleeves, sealed with Teflon tape and plastic end caps, placed in an ice-cooled chest for temporary storage, and transported to an Environmental Laboratory Accreditation Program (ELAP) certified laboratory for chemical analysis. Soil samples were collected at selected depths from the borings based on the following rationales:

Boring ID Number	Soil Sampling Depths	Rationale for Sampling
LB-1, LB-2, LB-3, and LB-4	5, 10, 15, and 20 feet bgs	Former Historical Machine Shop Locations
LB-5 and LB-6	2.5, 5, 10, 15, and 20 feet bgs	Former Chemical Manufacturing Business and Former Railroad Spur Location

### Soil Gas Survey

Upon reaching the total depth of the borings (i.e., 20 feet bgs), soil gas probes were installed in each of the boreholes at depths of 5, 10, and 20 feet bgs. The soil gas probes were installed and sampled in general conformance with the "*Advisory - Active Soil Gas Investigations*," published by the California Environmental Protection Agency Department of Toxic Substances Control (DTSC, April 2012). The soil gas probes were allowed to equilibrate for two hours prior to sampling.

At each sampling location an electric vacuum pump (set to draw 0.200 liters/min of soil gas at a maximum vacuum of 100-inches of water) or dedicated disposable syringe was attached to the probe for purging prior to sampling. Soil gas samples were obtained by drawing the sample through a luer lock connection which connects the sampling probe to the sample container.

A tracer gas (isopropanol) was applied to the soil gas probes at each point of connection in which ambient air could enter the sampling system. These points include the top of the sampling probe where the tubing meets the probe connection and the surface bentonite seals. No leaks were detected during the soil gas sampling.

A purge volume test was conducted at the start of the soil gas survey in order to determine the optimal purge volume for sampling. Duplicate soil gas samples were obtained for soil gas analyses from each of the gas chromatograph mass spectrometer instruments (i.e., two total).

### Laboratory Analyses

An ELAP certified mobile laboratory (American Analytics) was on Site during the survey for immediate soil gas sample analysis. Soil gas samples were injected into the onsite mobile laboratory gas chromatograph/purge and trap system after collection. Samples were analyzed for the tracer gas and volatile organic compounds (VOCs) by modified



EPA Method 8260B with a laboratory reporting limit at or below residential California Human Health Screening Levels (CHHSLs) [(1.0 microgram per liter ( $\mu\text{g/L}$ ) or less]. Additionally, select soil gas samples from five of the six borings (borings LB-1 through LB-4 and boring LB-6) were collected in Tedlar bags from depths of 5, 10, or 20 feet bgs and analyzed for methane by EPA Method 8015 Modified.

Soil samples were transported to the American Analytics stationary laboratory for analysis with a 48-hour turnaround time. Soil samples collected from the Former Machine Shop Areas (LB-1 through LB-4) were analyzed for VOCs by EPA Method 8260B and total petroleum hydrocarbon carbon chain (TPH-CC) by EPA Method 8015 at all sample depths. The 5 foot bgs soil samples in these borings were also analyzed for the 17 metals listed in the California Code of Regulations, Title 22, Article 11 (CAM 17 Metals) by EPA Method 6010/7471. If the 5 feet bgs soil samples contained metal concentrations exceeding State of California or Federal hazardous waste criteria, the next deeper soil sample at that borehole would be analyzed for CAM 17 Metals.

Soil samples collected from the Former Chemical Manufacturing Business/Former Railroad Spur Area (LB-5 and LB-6) were analyzed for VOCs and TPH-CC at all sample depths. The 2.5 foot bgs soil samples in these borings were also analyzed for CAM 17 Metals and polynuclear aromatic hydrocarbons (PAHs) by EPA 8270. Additionally, the 2.5 feet bgs soil samples contained PAH concentrations exceeding U.S. EPA Region 9 Regional Screening Levels for residential soil (January 2015), and the next deeper soil samples (5 feet bgs) at borehole LB-5 and LB-6 were analyzed for PAHs.

#### Investigation-Derived Wastes (IDW)

A total of two 55-gallon drums were produced during the investigation activities on March 7, 2015. One drum contained soil cuttings produced during advancement of the soil borings and the second drum contained decontamination water used to clean the sample equipment between boring locations. Both drums were properly labeled, sealed and stored in a designated area, and will be profiled prior to offsite disposal by a licensed waste hauler. SKMF will retain the waste manifest for record keeping once the drums have been transported offsite and properly disposed.

## **INVESTIGATIVE RESULTS**

### **Geologic and Hydrogeologic Conditions**

Soils encountered during the investigation consisted primarily of gravelly sands with some interbedded, silty sand, fine to coarse sand and minor clay. Stained or odorous soil was not observed or noted. The maximum PID reading recorded during soil sampling was 5.9 parts per million (ppm), calibrated to hexane. During boring advancement, boring LB-5 was moved approximately 3 feet north due to refusal encountered at the original LB-5 location at 10 feet bgs.

Groundwater was not encountered to the total depth explored of 20 feet bgs during this investigation. Soil boring logs are presented in Appendix B.

### **Analytical Results of Soil Samples**

The laboratory analytical reports and chain-of-custody documentation are presented in Appendix C. The analytical test results for soil samples are summarized in Tables 1 and 2. A summary of the PAHs detected in the soil samples analyzed is depicted on Figure 4. The soil sample analytical results are compared to U.S. EPA Region 9 Regional Screening Levels (RSLs) established for industrial and residential soil (January 2015), Department of Toxics and Substances Control (DTSC) arsenic background levels established for Southern California school sites (DTSC January 16, 2008), and/or Los Angeles Regional Water Quality Control Board (RWQCB) Maximum Soil Screening Levels (MSSLs) (RWQCB, Site Assessment and Cleanup Guidebook, May 1995) (Appendix A).

**TPH-CC** – The maximum TPH-CC concentration detected was 62 milligrams per kilogram (mg/kg) in soil sample LB-5 at 2.5 feet bgs and consisted primarily of oil range hydrocarbons. TPH-CC was not detected at concentrations exceeding its MSSL of 10,000 mg/kg (oil fraction).

**VOCs** – VOCs were not detected above their respective laboratory method reporting limits in any of the soil samples analyzed.

**CAM-17 Metals** – With the exception of arsenic, the CAM-17 metals were not detected at concentrations exceeding the U.S. EPA Region 9 RSLs referenced above. Arsenic levels were below California background concentrations.

**PAHs** – PAHs were detected in soil samples from borings LB-5 and LB-6 at or below Residential Soil RSLs with the exception of Benzo(a)Pyrene that was detected at 0.036 mg/kg in LB-5 at 2.5 feet bgs, and 0.031 mg/kg in LB-6 at 2.5 feet bgs. These detections slightly exceed the Residential Soil RSL of 0.015 mg/kg established for Benzo(a)Pyrene, but remained below the Industrial Soil RSL of 0.29 mg/kg. The 5 feet bgs soil samples analyzed from these borings were at or below the Residential Soil RSLs established for Benzo(a)Pyrene.

### **Analytical Results of Soil Gas Samples**

The analytical test results for methane and VOCs in soil gas are summarized in Table 3. A summary of the VOCs detected in the soil gas samples analyzed is depicted on Figure 3. Analytical results for VOCs were compared to residential California Human Health Screening Levels (CHHSLs) for buildings constructed with engineered fill below sub-slab gravel (OEHHA, September 23, 2010). In addition, the VOCs detected in the soil gas samples were further evaluated using the DSTC's Vapor Intrusion Screening Model – Soil Gas (December 2014) using residential criteria.

**Methane** – Methane was not detected above the laboratory method detection limit in any of the soil gas samples analyzed.

**VOCs** - VOCs were not detected at concentrations exceeding residential CHHSLs. Trichlorofluoromethane (CFC-11), toluene, and m,p-Xylenes were detected in select soil gas samples, as discussed below.

**Trichlorofluoromethane (TCFM or CFC-11)** – CFC-11 was detected in soil gas samples collected from soil gas probes SVP-1, SVP-2, SVP-5 and SVP-6 (various depths) at a maximum concentration of 2.7 micrograms per liter ( $\mu\text{g/L}$ ) in SVP-1 at 20 feet bgs. There is no CHHSL for this compound.

**Toluene** – Toluene was detected in SVP-2 at a maximum concentration of 0.18  $\mu\text{g/L}$  at 10 feet bgs. This detection does not exceed the residential or industrial soil gas CHHSLs.

**m,p-Xylenes** – m,p-Xylenes were detected in SVP-2 at a maximum concentration of 0.21  $\mu\text{g/L}$  at 10 feet bgs. This detection does not exceed the residential or industrial soil gas CHHSLs.

### **DTSC Vapor Intrusion Screening Model – Soil Gas Spreadsheet**

Using the DTSC Vapor Intrusion Screening Model – Soil Gas Spreadsheet (the model), Leighton entered the maximum concentration of TCFM, toluene, m-xylene, and p-xylene detected at each depth in the soil gas samples. The spreadsheets are presented in Appendix D. The model default values for each VOC were used with the exception of VOC concentration, sample depth, and selecting residential criteria. Leighton assumed the soil gas samples were collected from sandy soil. For a residential setting, a Cancer Risk greater than  $1 \times 10^{-6}$  and a Non-Cancer risk greater than 1.0 would both be considered unacceptable. When applied to the model, none of the soil gas sample detections represent an unacceptable cancer risk and/or a non-cancer risk for a residential setting.

### **CONCLUSIONS AND RECOMMENDATIONS**

The purpose of the Focused Soil and Soil Gas Screening Survey was to screen for the potential presence of hazardous substances and/or petroleum products in soil and soil gas (including methane) beneath the Site in the area of (1) the historical machine shops and (2) chemical manufacturing business that could have a significant financial impact on SKMF's plans to redevelop the Site.

Soil sample analytical data indicates that soils tested in both the historical machine shop and chemical manufacturing areas do not contain TPH-CC above MSSLs or VOCs above Residential and Industrial Soil RSLs. The Benzo(a)Pyrene residential RSL exceedances in the historical chemical manufacturing business area samples at 2.5 feet bgs appear limited to shallow soil in this area and are not anticipated to pose significant human health or construction cost concerns.

Soil gas analytical results were compared to residential CHHSLs and applied to the DTSC's model and indicated that VOCs and methane were not detected at concentrations that would pose a significant human health risk in a residential setting or explosion hazard.

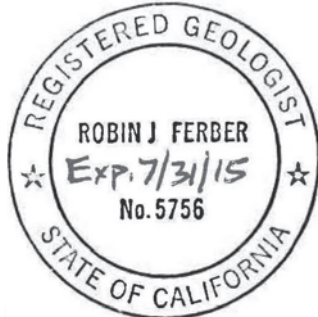
Based upon the results of this focused soil and soil gas investigation, Leighton concludes additional investigation is not warranted at this time for the areas investigated.

## **LIMITATIONS**

This focused soil and soil gas investigation was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions.

The observations and conclusions presented in this report are professional opinions based on the scope of activities, work schedule, and information obtained through the activities described herein, and are limited to the portion of the Site investigated. Opinions presented herein apply to property conditions existing at the time of our study and cannot necessarily be taken to apply to property conditions outside of the area investigated or changes that we are not aware of or have not had the opportunity to evaluate. It must be recognized that conclusions drawn from these data are limited to the limited portion of the site investigated, and the amount, type, distribution, and integrity of the information collected at the time of the investigation, and the methods utilized to collect and evaluate the data. Although Leighton has taken steps to obtain true copies of available information, we make no representation or warranty with respect to the accuracy or completeness of the information provided by others.

We appreciate the opportunity to assist SKMF for this project. Please do not hesitate to call the undersigned if you have any questions regarding this report.



Respectfully submitted,

LEIGHTON AND ASSOCIATES, INC.

Robin J. Ferber, PG 5756  
Principal



Kris Lutton, PG 6622  
Director of Environmental Services

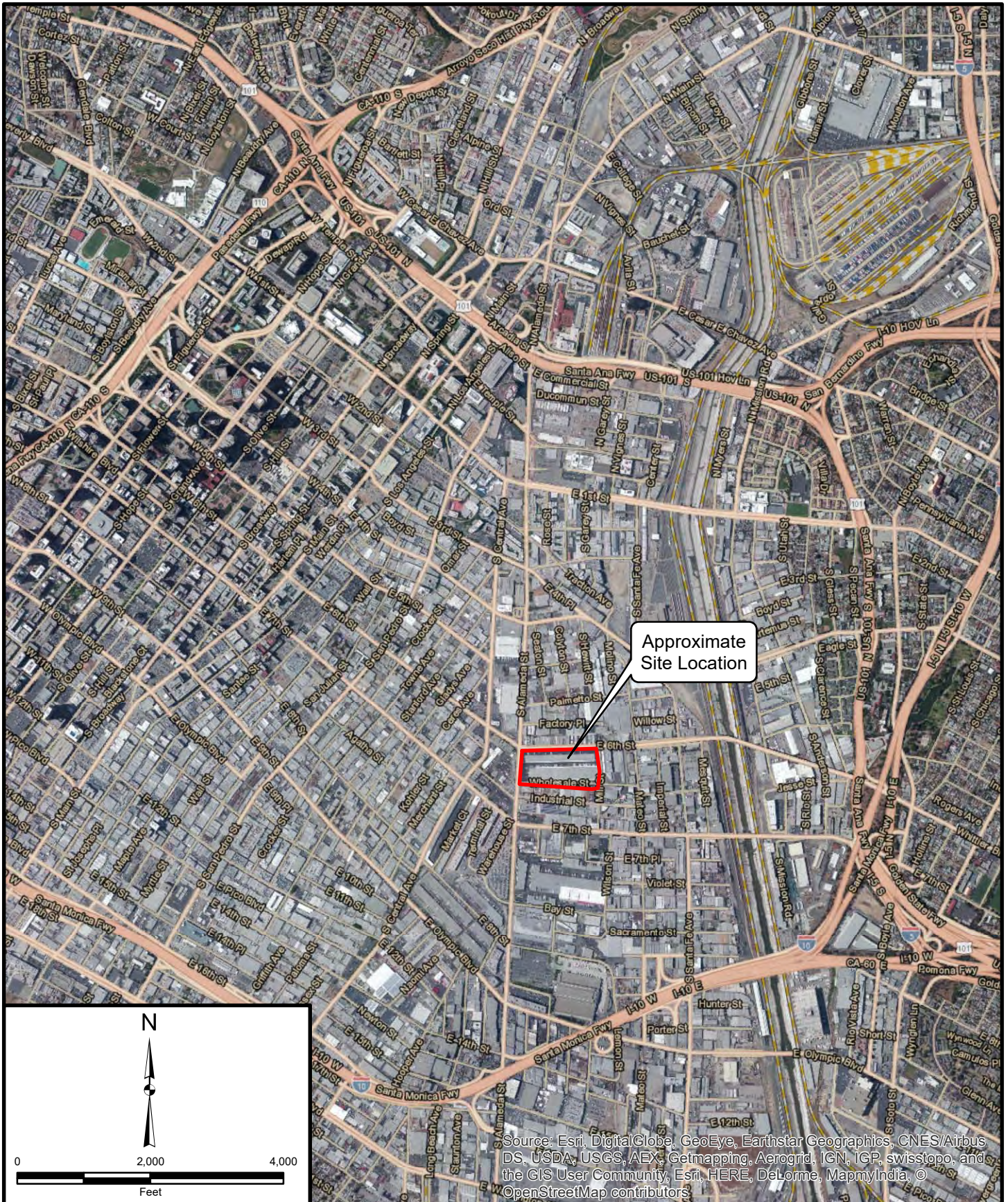
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- Attachments: Figure 1 – Site Location Map
- Figure 2 – Soil and Soil Gas Boring Location Map
- Figure 3 – Soil Gas Laboratory Data Map
- Figure 4 – Soil PAH Laboratory Data Map
- Table 1 – Soil Analytical Results for TPH, VOCs and CAM 17 Metals
- Table 2 – Soil Analytical Results for PAHs
- Table 3 – Soil Gas Results for Methane and VOCs
- Appendix A – References
- Appendix B – Soil Boring Logs
- Appendix C – Laboratory Test Results and Chain-of-Custody Documents
- Appendix D – DTSC Vapor Intrusion Screening Model –  
Soil Gas Spreadsheet

Distribution: (Email) Addressee



## FIGURES



Approximate Site Location

Wholesale St  
Industrial St

E 6th St

E 7th St

E 7th Pl

Bay St

Sacramento St

Wilson St

Violet St

Porter St

Marico St

E 12th St

E 10th St

E 11th St

E 10th Pl

E 11th Pl

E 12th Pl

E 13th St

E 14th St

E 15th St

E 16th St

E 17th St

E 18th St

E 19th St

E 20th St

E 21st St

E 22nd St

E 23rd St

E 24th St

E 25th St

E 26th St

E 27th St

E 28th St

E 29th St

E 30th St

E 31st St

E 32nd St

E 33rd St

E 34th St

E 35th St

E 36th St

E 37th St

E 38th St

E 39th St

E 40th St

Project: 10960.001

Eng/Geol: RJF

Scale: 1" = 2,000'

Date: March 2015

Base Map: ESRI ArcGIS Online 2015

Thematic Information: Leighton

Author: Leighton Geomatics (asakowicz)

# SITE LOCATION MAP

## L&W SKFM

1206-1338 E. 6th Street and 1205-1321 Wholesale Street  
Los Angeles, California




Figure 1



Leighton



# Legend

-  Approximate Site Boundary
-  Historical Usage Areas
-  Soil/Soil Gas Locations




Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Project: 10960.001	Eng/Geol: RJF
Scale: 1" = 100'	Date: March 2015
Base Map: ESRI ArcGIS Online 2015 Thematic Information: Leighton Author: Leighton Geomatics (asakowicz)	

## SOIL AND SOIL GAS BORING LOCATION MAP

L&W SKFM  
1206-1338 E. 6th Street and 1205-1321 Wholesale Street  
Los Angeles, California

Figure 2



Leighton

# Legend

Samples Collected on March 7, 2015  
 CFC-11= Trichloroflouromethane  
 Concentrations in micrograms per liter

- Approximate Site Boundary
- Historical Usage Areas
- Soil/Soil Gas Locations

Sample ID	Depth	CFC-11	Xylene	Toluene
SVP-2-5	5	0.26	<0.05	<0.05
SVP-2-10	10	0.24	0.20	0.17
SVP-2-10DUP	10	0.25	0.21	0.18
SVP-2-20	20	0.34	<0.05	<0.05

Sample ID	Depth	CFC-11	Xylene	Toluene
SVP-4-5	5	<0.05	<0.05	<0.05
SVP-4-10	10	<0.05	<0.05	<0.05
SVP-4-20	20	<0.05	<0.05	<0.05

Sample ID	Depth	CFC-11	Xylene	Toluene
SVP-1-10	10	1.8	<0.05	<0.05
SVP-1-20	20	2.3	<0.05	<0.05
SVP-2-5	5	2.5	<0.05	<0.05
SVP-2-10	10	2.7	<0.05	<0.05

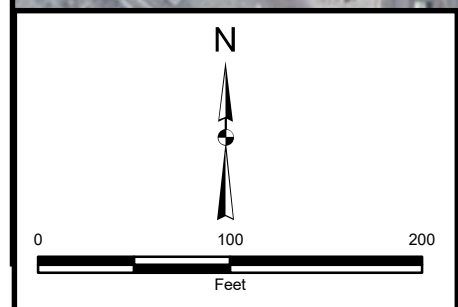
Sample ID	Depth	CFC-11	Xylene	Toluene
SVP-3-5	5	<0.05	<0.05	<0.05
SVP-3-10	10	<0.05	<0.05	<0.05
SVP-3-20	20	<0.05	<0.05	<0.05

Sample ID	Depth	CFC-11	Xylene	Toluene
SVP-5-5	5	0.20	<0.05	<0.05
SVP-5-10	10	0.31	<0.05	<0.05
SVP-5-20	20	0.43	<0.05	<0.05

Sample ID	Depth	CFC-11	Xylene	Toluene
SVP-6-5	5	0.23	<0.05	<0.05
SVP-6-10	10	0.21	<0.05	<0.05
SVP-6-20	20	0.25	<0.05	<0.05



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Project: 10960.001    Eng/Geol: RJF  
 Scale: 1" = 100'    Date: March 2015  
 Base Map: ESRI ArcGIS Online 2015  
 Thematic Information: Leighton  
 Author: Leighton Geomatics (asakowicz)

## SOIL GAS LABORATORY DATA MAP

L&W SKFM  
 1206-1338 E. 6th Street and 1205-1321 Wholesale Street  
 Los Angeles, California

Figure 3



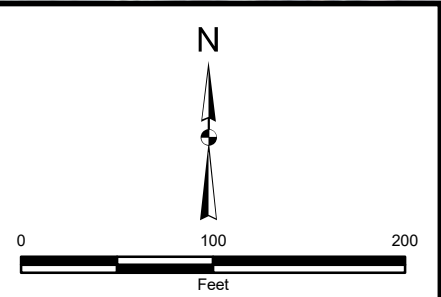
# Legend

Samples Collected on March 7, 2015  
Concentrations in miligrams per Kilogram

- Approximate Site Boundary
- Historical Usage Areas
- Soil/Soil Gas Locations



Sample ID	Depth ( Feet bgs)	Fluoranthene	Phenanthrene	Pyrene	Benzo (a) Anthracene	Chrysene	Benzo (k) Fluoranthene	Benzo (b) Fluoranthene	Benzo (a) Pyrene	Indeno (1,2,3-c,d) Pyrene	Dibenz (a,h) Anthracene	Benzo (g,h,i) Perylene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-5-2.5	2.5	0.053	0.026	0.046	0.031	0.046	0.019	0.032	<b>0.036</b>	0.040	<0.010	0.041
LB-5-5	5	0.012	<0.010	0.019	<0.010	0.015	<0.010	0.014	0.015	<0.040	0.011	0.016
Sample ID	Depth ( Feet bgs)	Fluoranthene	Phenanthrene	Pyrene	Benzo (a) Anthracene	Chrysene	Benzo (k) Fluoranthene	Benzo (b) Fluoranthene	Benzo (a) Pyrene	Indeno (1,2,3-c,d) Pyrene	Dibenz (a,h) Anthracene	Benzo (g,h,i) Perylene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-6-2.5	2.5	0.054	0.017	0.045	0.038	0.050	0.036	0.022	0.031	<0.040	<0.010	0.028
LB-6-5	5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.040	<0.010	<0.010



Project: 10960.001    Eng/Geol: RJF  
 Scale: 1" = 100'    Date: March 2015  
 Base Map: ESRI ArcGIS Online 2015  
 Thematic Information: Leighton  
 Author: Leighton Geomatics (asakowicz)

## SOIL PAH LABORATORY DATA MAP

L&W SKFM  
 1206-1338 E. 6th Street and 1205-1321 Wholesale Street  
 Los Angeles, California

## TABLES

Table 1 - Soil Analytical Results for Total Petroleum Hydrocarbons, Volatile Organic Compounds and CAM 17 Metals  
6<sup>th</sup> and Alameda, Los Angeles, CA

Sample ID	Date Sampled	Sample Depth (feet bgs)	Boring ID	EPA Method 8015M	EPA Method 8260B	EPA Method 6010B/7000/7471A - Metals										
				TPH (C6-C44)*	VOCs	Arsenic	Barium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Vanadium	Zinc	Other Metals Analyzed
				mg/kg	µg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-1-5	03/07/15	5	LB-1	<10	ND	<0.50	34	4.4	3.7	5.3	<3.0	0.050	<3.0	16	19	ND
LB-1-10	03/07/15	10	LB-1	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-1-15	03/07/15	15	LB-1	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-1-20	03/07/15	20	LB-1	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-2-5	03/07/15	5	LB-2	<10	ND	2.0	130	17	11	19	<3.0	0.058	13	41	65	ND
LB-2-10	03/07/15	10	LB-2	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-2-15	03/07/15	15	LB-2	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-2-20	03/07/15	20	LB-2	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-3-5	03/07/15	5	LB-3	<10	ND	2.5	110	15	11	20	<3.0	0.082	11	43	58	ND
LB-3-10	03/07/15	10	LB-3	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-3-15	03/07/15	15	LB-3	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-3-20	03/07/15	20	LB-3	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-4-5	03/07/15	5	LB-4	<10	ND	0.96	23	<3.0	<3.0	3.6	<3.0	0.11	<3.0	10	15	ND
LB-4-10	03/07/15	10	LB-4	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-4-15	03/07/15	15	LB-4	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-4-20	03/07/15	20	LB-4	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-5-2.5	03/07/15	2.5	LB-5	62	ND	1.2	88	12	6.9	15	13	0.073	8.0	32	61	ND
LB-5-5	03/07/15	5	LB-5	25	ND	--	--	--	--	--	--	--	--	--	--	--
LB-5-10	03/07/15	10	LB-5	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-5-15	03/07/15	15	LB-5	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-5-20	03/07/15	20	LB-5	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-6-2.5	03/07/15	2.5	LB-6	60	ND	4.2	120	18	6.5	28	42	0.12	10	41	140	ND
LB-6-5	03/07/15	5	LB-6	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-6-10	03/07/15	10	LB-6	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-6-15	03/07/15	15	LB-6	<10	ND	--	--	--	--	--	--	--	--	--	--	--
LB-6-20	03/07/15	20	LB-6	<10	ND	--	--	--	--	--	--	--	--	--	--	--
RSLs - Industrial Soil (mg/kg)				NA	NA	3.0 (Use DTSC Background**)	220,000	(Note 1)	350	47,000	800	40	11,000	5,800	350,000	NA
RSLs - Residential Soil (mg/kg)				NA	NA	0.67 (Use DTSC Background**)	15,000	(Note 1)	23	3,100	400	9.4	820	390	23,000	NA
DTSC 2008 Arsenic California Background**				NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RWQCB Maximum Soil Screening Levels, DTW 20-150 feet*** (mg/kg)				500(C4-C12) 1,000(C13-C22) 10,000(C23-C32)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Notes:** Note 1= Residential soil RSLs for "Chromium(III), Insoluble Salts" and "Chromium(VI)" are 120,000 mg/kg and 0.30 mg/kg, respectively. Industrial soil RSLs for "Chromium(III), Insoluble Salts" and "Chromium(VI)" are 1,800,000 mg/kg and 6.3 mg/kg, respectively. These RSLs are not directly applicable to the soil sample results for total Chromium.

-- = Soil sample was not analyzed for this compound

\* = TPH (C6-C44) result is shown. See the individual laboratory report for further speciation of the TPH results

\*\* = The DTSC background arsenic concentration established for Southern California schools was used as the screening level for arsenic results. Source: DTSC, Determination of a Southern California Regional Background Arsenic Concentration in Soil, 2008

\*\*\* = Regional Water Quality Control Board (RWQCB), Los Angeles Region TPH screening levels. Source: The Regional Water Quality Control Board (RWQCB), Site Assessment and Cleanup Guidebook, Table 4-1 (groundwater quality based screening levels) for soil residual concentrations, 1996

<10 Not detected above the laboratory method reporting limit

bgs = Below ground surface

**BOLD** = Bolded soil sample results indicate that the analyte was detected above the residential soil RSL

CAM 17 = The 17 metals listed in the California Code of Regulation Title 22, Article 11

DTSC = California EPA, Department of Toxic Substance Control

DTW = Depth to groundwater in feet below ground surface

EPA = Environmental Protection Agency

mg/kg = milligrams per kilogram

NA = Not applicable

ND = Not detected above laboratory method reporting limit. For details, see Appendix C

RSLs = US EPA Region 9 Regional Screening Levels for Residential and Industrial Soil, January

TPH = Total petroleum hydrocarbons

µg/kg = micrograms per kilogram

VOCs = Volatile organic compounds

Table 2 - Soil Analytical Results for Polycyclic Aromatic Hydrocarbons  
6<sup>th</sup> and Alameda, Los Angeles, CA

Sample ID	Date Sampled	Sample Depth (feet bgs)	Boring ID	EPA Method 8270C SIM - PAHs											
				Fluoranthene	Phenanthrene	Pyrene	Benzo (a) Anthracene	Chrysene	Benzo (k) Fluoranthene	Benzo (b) Fluoranthene	Benzo (a) Pyrene	Indeno (1,2,3-c,d) Pyrene	Dibenz (a,h) Anthracene	Benzo (g,h,i) Perylene	Other PAHs Analyzed
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-5-2.5	03/07/15	2.5	LB-5	0.053	0.026	0.046	0.031	0.046	0.019	0.032	<b>0.036</b>	0.040	<0.010	0.041	ND
LB-5-5	03/07/15	5	LB-5	0.012	<0.010	0.019	<0.010	0.015	<0.010	0.014	0.015	<0.040	0.011	0.016	ND
LB-6-2.5	03/07/15	2.5	LB-6	0.054	0.017	0.045	0.038	0.050	0.036	0.022	<b>0.031</b>	<0.040	<0.010	0.028	ND
LB-6-5	03/07/15	5	LB-6	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.040	<0.010	<0.010	ND
RSLs - Industrial Soil (mg/kg)				30,000	NA	23,000	2.9	290	29	2.9	0.29	2.9	0.29	NA	NA
RSLs - Residential Soil (mg/kg)				2,300	NA	1,700	0.15	15	1.5	0.15	0.015	0.15	0.015	NA	NA

**Notes:**

- = Soil sample was not analyzed for this compound
- <1 = Not detected above the laboratory method reporting limit shown
- bgs = Below ground surface
- BOLD** = Bolded soil sample results indicate that the analyte was detected above the residential soil RSL
- EPA = Environmental Protection Agency
- mg/kg = milligrams per kilogram
- NA = Not applicable
- ND = Not detected above the laboratory method reporting limit. For details, see Appendix C
- PAHs = Polycyclic aromatic hydrocarbons
- RSLs = U.S. EPA Region 9 Regional Screening Levels for Residential and Industrial Soil, January 2015

Table 3 - Soil Vapor Analytical Results for Methane and Volatile Organic Compounds  
6<sup>th</sup> and Alameda, Los Angeles, CA

Sample ID	Date Sampled	Sample Depth (feet bgs)	Boring ID	Purge Volume	Fixed Gases	EPA Method TO-15 - VOCs			
					Methane	Trichlorofluoromethane (CFC-11)	Toluene	m,p-Xylenes	Other VOCs Analyzed
					% v/v	µg/L	µg/L	µg/L	µg/L
SVP-1-5	03/07/15	5	LB-1	1	<0.10	1.8	<0.05	<0.05	ND
SVP-1-5DUP	03/07/15	5	LB-1	1	<0.10	2.3	<0.05	<0.05	ND
SVP-1-10	03/07/15	10	LB-1	1	<0.10	2.5	<0.05	<0.05	ND
SVP-1-20	03/07/15	20	LB-1	1	<0.10	2.7	<0.05	<0.05	ND
SVP-2-5	03/07/15	5	LB-2	1	--	0.26	<0.05	<0.05	ND
SVP-2-10	03/07/15	10	LB-2	1	<0.10	0.24	0.17	0.20	ND
SVP-2-10DUP	03/07/15	10	LB-2	1	<0.10	0.25	0.18	0.21	ND
SVP-2-20	03/07/15	20	LB-2	1	<0.10	0.34	<0.05	<0.05	ND
SVP-3-5	03/07/15	5	LB-3	1	--	<0.05	<0.05	<0.05	ND
SVP-3-10	03/07/15	10	LB-3	1	<0.10	<0.05	<0.05	<0.05	ND
SVP-3-20	03/07/15	20	LB-3	1	<0.10	<0.05	<0.05	<0.05	ND
SVP-4-5	03/07/15	5	LB-4	1	--	<0.05	<0.05	<0.05	ND
SVP-4-10	03/07/15	10	LB-4	1	<0.10	<0.05	<0.05	<0.05	ND
SVP-4-20	03/07/15	20	LB-4	1	<0.10	<0.05	<0.05	<0.05	ND
SVP-5-5	03/07/15	5	LB-5	1	--	0.20	<0.05	<0.05	ND
SVP-5-10	03/07/15	10	LB-5	1	--	0.31	<0.05	<0.05	ND
SVP-5-20	03/07/15	20	LB-5	1	--	0.43	<0.05	<0.05	ND
SVP-6-5	03/07/15	5	LB-6	1	<0.10	0.23	<0.05	<0.05	ND
SVP-6-5	03/07/15	5	LB-6	3	<0.10	0.21	<0.05	<0.05	ND
SVP-6-5	03/07/15	5	LB-6	10	<0.10	0.19	<0.05	<0.05	ND
SVP-6-10	03/07/15	10	LB-6	1	<0.10	0.21	<0.05	<0.05	ND
SVP-6-20	03/07/15	20	LB-6	1	<0.10	0.25	<0.05	<0.05	ND
CHHSLs - Commercial/Industrial - Soil Gas (µg/L)					NA	NL	890	2,200	NA
CHHSLs - Residential - Soil Gas (µg/L)					NA	NL	320	800	NA

**Notes:**

- = Soil gas sample was not analyzed for this compound
- <1 = Not detected above the laboratory method reporting limit shown
- µg/L = micrograms per liter
- bgs = Below ground surface
- BOLD** = No soil vapor sample results exceeded CHHSLs. Bolded soil vapor sample results indicate the analyte was detected above the soil gas CHHSLs
- CHHSLs = California Human Health Screening Levels for soil gas under buildings with engineered fill for residential land use and commercial/industrial land use, September 2010
- EPA = Environmental Protection Agency
- NA = Not applicable
- ND = Not detected above the laboratory method reporting limit. For details, see Appendix C
- NL = Not listed
- VOCs = Volatile organic compounds

APPENDIX A  
REFERENCES



## APPENDIX A

References

Department of Toxic Substances Control (DTSC), Determination of a Southern California Regional Background Arsenic Concentration in Soil, by G. Chernoff, W. Bosan, and D. Oudiz, 2008.

DTSC Advisory - Active Soil Gas Investigations, by R. Abbasi, E. Allen, B. Bosan, and P. Chandler, 2012.

Environmental Protection Agency (EPA) Region 9, Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites, January, 2015.

Regional Water Quality Control Board (RWQCB), Site Assessment and Cleanup Guidebook, Table 4-1 (groundwater quality based screening levels) for soil residual concentrations, 1996.

ATC Associates, Inc (ATC), Phase I Environmental Site Assessment of Sixth and Alameda Food and Produce Center, 1206-1338 East Sixth Street, 1205-1321 Wholesale Street, Los Angeles, California 90021, April 25, 2010.

APPENDIX B  
SOIL BORING LOGS



# SOIL GAS WELL BORING/CONSTRUCTION LOG

<b>PROJECT NUMBER</b> 10960.001	<b>BORING/WELL NUMBER</b> LB-1
<b>PROJECT NAME</b> SKMF, LLC	<b>DATE DRILLED</b> 3/7/2015
<b>LOCATION</b> 6th & Alameda	<b>CASING TYPE/DIAMETER</b> Nylaflo / 1/4-inch
<b>DRILLING METHOD</b> Direct Push	<b>SCREEN TYPE/SLOT</b> Stone Filter
<b>SAMPLING METHOD</b> Direct Push Acetate Sleeves	<b>FILTER PACK TYPE</b> #2/12 Sand
<b>GROUND ELEVATION</b> 249.00 ft. above MSL	<b>GROUT TYPE</b> Hydrated Bentonite Granuals
<b>TOP OF CASING ELEV.</b> 249 ft. above MSL	<b>DEPTH TO WATER</b> NA ft.
<b>LOGGED BY</b> A.R.	<b>TOTAL DRILL DEPTH</b> 20 ft.

**REMARKS**

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 4-inches asphalt (AC) over 6-inches base (AB)	0.5	
								@0.75': No recovery	0.8	
								@0.8': Gravelly SAND (SP), reddish-brown, moist, fine to coarse sand, grades finer with depth	1.2	
								@1.9': Sandy CLAY (CL), dark brown, moist, coarse sand, trace fine sand, sand grades finer with depth	1.9	
5			LB-1-5		1.0			@3': SAND (SP), light brown, moist, fine sand, micaceous @4': SAND (SP), light brown, moist, fine to coarse sand, becomes gravelly at 7.6-feet, mechanically broken fine angular granitic gravel	3.3	
								@8': SAND (SP), light yellowish-brown, slightly moist, fine sand, micaceous		
10			LB-1-10		1.4					
								@12': SAND (SP), light brown, slightly moist, fine sand, few medium sand, few coarse angular gravel to 1.5-inch diameter		
15			LB-1-15		0.2					
20			LB-1-20		2.3				20.0	
								<p><b>Notes:</b>            Total Depth: 20 feet bgs            No groundwater encountered during drilling            Constructed temporary probes SVP-1-5, SVP-1-10, and SVP-1-20            Destroyed temporary probes on 03/07/15            Boring backfilled with hydrated bentonite and capped with cold patch asphalt on 03/07/15</p>		

SOIL GAS WELL BORING/CONSTRUCTION LB-1 THRU LB-6 GPJ LAEWN01.GDT 3/18/15



# SOIL GAS WELL BORING/CONSTRUCTION LOG

<b>PROJECT NUMBER</b> 10960.001	<b>BORING/WELL NUMBER</b> LB-2
<b>PROJECT NAME</b> SKMF, LLC	<b>DATE DRILLED</b> 3/7/2015
<b>LOCATION</b> 6th & Alameda	<b>CASING TYPE/DIAMETER</b> Nylaflo / 1/4-inch
<b>DRILLING METHOD</b> Direct Push	<b>SCREEN TYPE/SLOT</b> Stone Filter
<b>SAMPLING METHOD</b> Direct Push Acetate Sleeves	<b>FILTER PACK TYPE</b> #2/12 Sand
<b>GROUND ELEVATION</b> 249.00 ft. above MSL	<b>GROUT TYPE</b> Hydrated Bentonite Granuals
<b>TOP OF CASING ELEV.</b> 249 ft. above MSL	<b>DEPTH TO WATER</b> NA ft.
<b>LOGGED BY</b> A.R.	<b>TOTAL DRILL DEPTH</b> 20 ft.

**REMARKS**

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 4-inches asphalt (AC) over 6-inches aggregate base (AB) @0.8': No Recovery	0.4 0.8	
								@2.2': Gravelly SAND (SP), olive brown, moist, loose, fine to medium sand, fine angular gravel	2.2	
								@2.6': SAND (SP), light brown, moist, fine to coarse sand, friable	3.5 4.0	
5			LB-2-5		0.0			@3.5': Silty SAND (SM), olive brown, moist, fine sand, slightly micaceous @4': No recovery	6.5	
								@6.5': SAND (SP), light yellowish-brown, moist, fine to medium sand, few coarse sand, basaltic basal subrounded gravel @8': SAND (SP), olive brown, moist, fine to coarse sand, and fine angular granitic derived gravel		
10			LB-2-10		0.0			@11.8': Becomes olive brown, moist, fine sand, friable		
								@14.4': becomes yellowish-brown, predominantly medium to coarse sand with few fine sand and few subrounded gravel	14.7 15.4	
15			LB-2-15		0.0			@14.7': Silty SAND (SM), olive brown, very moist, fine sand, micaceous		
								@15.4': SAND (SP), light yellowish-brown, moist, medium to coarse sand, few fine sand, few subrounded gravel		
20			LB-2-20		0.0				20.0	
								<b>Notes:</b> Total Depth: 20 feet bgs No groundwater encountered during drilling Constructed temporary probes SVP-2-5, SVP-2-10, and SVP-2-20 Destroyed temporary probes on 03/07/15 Boring backfilled with hydrated bentonite and capped with cold patch asphalt on 03/07/15		

SOIL GAS WELL BORING/CONSTRUCTION LB-1 THRU LB-6 GPJ LAEWN01.GDT 3/18/15



# SOIL GAS WELL BORING/CONSTRUCTION LOG

PROJECT NUMBER <u>10960.001</u>	BORING/WELL NUMBER <u>LB-3</u>
PROJECT NAME <u>SKMF, LLC</u>	DATE DRILLED <u>3/7/2015</u>
LOCATION <u>6th &amp; Alameda</u>	CASING TYPE/DIAMETER <u>Nylaflo / 1/4-inch</u>
DRILLING METHOD <u>Direct Push</u>	SCREEN TYPE/SLOT <u>Stone Filter</u>
SAMPLING METHOD <u>Direct Push Acetate Sleeves</u>	FILTER PACK TYPE <u>#2/12 Sand</u>
GROUND ELEVATION <u>248.00 ft. above MSL</u>	GROUT TYPE <u>Hydrated Bentonite Granuals</u>
TOP OF CASING ELEV. <u>248 ft. above MSL</u>	DEPTH TO WATER <u>NA ft.</u>
LOGGED BY <u>A.R.</u>	TOTAL DRILL DEPTH <u>20 ft.</u>
REMARKS	

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 6-inches asphalt (AC) @0.5': Sandy GRAVEL to Gravelly SAND (SP/GP), olive brown, slightly moist, fine to coarse sand, fine and coarse angular gravel @1.5': Silty SAND (SM), dark olive brown, moist, fine sand, slightly micaceous @2.9': CLAY (CL), dark reddish-brown, moist, soft @3.4': SAND (SP), yellowish-brown, moist, fine sand @4': No recovery	0.5 1.5 2.9 3.4 4.0	Bentonite 1/4" Nylaflo Tubing Sand Airstone (5')
5			LB-3-5		0.0			@6.7': SILT/SAND interbeds (SP/SM), dark olive brown, moist, micaceous SILT (ML), and yellowish-brown, moist, fine to medium SAND (SP) @8': SAND (SP), yellowish-brown, moist, fine to medium sand, few coarse mechanically crushed granitic gravel @12': SAND (SP), olive brown, to reddish-brown, very moist, fine sand @15.8': Becomes very light gray, fine SAND (SP) @16': light brown, moist, fine to medium sand, friable	6.7 8.0	Bentonite Sand Airstone (10')
10			LB-3-10		0.0					Bentonite
15			LB-3-15		0.0					Bentonite
20			LB-3-20		0.0				20.0	Sand Airstone (19.5') Bentonite
								<b>Notes:</b> Total Depth: 20 feet bgs No groundwater encountered during drilling Constructed temporary probes SVP-3-5, SVP-3-10, and SVP-3-20 Destroyed temporary probes on 03/07/15 Boring backfilled with hydrated bentonite and capped with cold patch asphalt on 03/07/15		

SOIL GAS WELL BORING/CONSTRUCTION LB-1 THRU LB-6 GPJ LAEWN01.GDT 3/18/15



# SOIL GAS WELL BORING/CONSTRUCTION LOG

<b>PROJECT NUMBER</b> 10960.001	<b>BORING/WELL NUMBER</b> LB-4
<b>PROJECT NAME</b> SKMF, LLC	<b>DATE DRILLED</b> 3/7/2015
<b>LOCATION</b> 6th & Alameda	<b>CASING TYPE/DIAMETER</b> Nylaflow / 1/4-inch
<b>DRILLING METHOD</b> Direct Push	<b>SCREEN TYPE/SLOT</b> Stone Filter
<b>SAMPLING METHOD</b> Direct Push Acetate Sleeves	<b>FILTER PACK TYPE</b> #2/12 Sand
<b>GROUND ELEVATION</b> 248.00 ft. above MSL	<b>GROUT TYPE</b> Hydrated Bentonite Granuals
<b>TOP OF CASING ELEV.</b> 248 ft. above MSL	<b>DEPTH TO WATER</b> NA ft.
<b>LOGGED BY</b> A.R.	<b>TOTAL DRILL DEPTH</b> 20 ft.

**REMARKS**

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 4-inches asphalt (AC) over 6-inches aggregate base (AB) @0.8': No recovery @1.4': Gravelly SAND (SP), olive brown, moist, fine to medium sand, few coarse sand, and angular gravel @1.9': SILT (ML), olive brown, moist, micaceous @2.5': SAND (SP), yellowish-brown, moist, fine sand, few medium sand @2.9': SILT/SAND interbeds (SP/ML), olive brown, micaceous SILT (ML), and yellowish-brown, moist fine SAND (SP) @4': No recovery @6.7': SAND (SP), yellowish-brown to light brown, moist, fine to coarse sand @8': SAND (SP), yellowish-brown, moist, fine to coarse sand, fine and coarse subrounded gravel @12': Gravelly SAND (SP), yellowish-brown, moist, fine to coarse sand, fine and coarse angular gravel @16': yellowish-brown, moist, fine sand @18': Grades with depth to gravelly SAND (SP), yellowish-brown, very moist, fine angular gravel, trace coarse angular gravel	0.4 0.8 1.4 1.9 2.5 2.9 4.0 6.7 20.0	<p style="font-size: small;">             Bentonite              1/4" Nylaflow Tubing              Sand Airstone (5')              Bentonite              Sand Airstone (10')              Bentonite              Sand Airstone (19.5')           </p>
5			LB-4-5		0.0					
10			LB-4-10		0.0					
15			LB-4-15		0.0					
20			LB-4-10		0.0					
25										
30										

**Notes:**  
 Total Depth: 20 feet bgs  
 No groundwater encountered during drilling  
 Constructed temporary probes SVP-4-5, SVP-4-10, and SVP-4-20  
 Destroyed temporary probes on 03/07/15  
 Boring backfilled with hydrated bentonite and capped with cold patch asphalt on 03/07/15

SOIL GAS WELL BORING/CONSTRUCTION LB-1 THRU LB-6 GPJ LAEWN01.GDT 3/18/15



# SOIL GAS WELL BORING/CONSTRUCTION LOG

<b>PROJECT NUMBER</b> 10960.001	<b>BORING/WELL NUMBER</b> LB-5
<b>PROJECT NAME</b> SKMF, LLC	<b>DATE DRILLED</b> 3/7/2015
<b>LOCATION</b> 6th & Alameda	<b>CASING TYPE/DIAMETER</b> Nylaflo / 1/4-inch
<b>DRILLING METHOD</b> Direct Push	<b>SCREEN TYPE/SLOT</b> Stone Filter
<b>SAMPLING METHOD</b> Direct Push Acetate Sleeves	<b>FILTER PACK TYPE</b> #2/12 Sand
<b>GROUND ELEVATION</b> 246.00 ft. above MSL	<b>GROUT TYPE</b> Hydrated Bentonite Granuals
<b>TOP OF CASING ELEV.</b> 246 ft. above MSL	<b>DEPTH TO WATER</b> NA ft.
<b>LOGGED BY</b> A.R.	<b>TOTAL DRILL DEPTH</b> 20 ft.

**REMARKS**

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 4-inches asphalt (AC) over 6-inches aggregate base (AB)	0.4	
			LB-5-2.5		3.3			@0.8': Silty SAND (SM), olive brown, moist, fine sand, few medium to coarse sand, and mechanically crushed fine and coarse granitic gravel	0.8	
			LB-5-5		5.1			@4': SAND (SP), brick red and light gray, moist, predominantly fine sand, few coarse sand sized decomposing granitics	4.0	
			LB-5-10		2.8			@7.6': Silty SAND (SM), olive brown, moist, fine sand, micaceous	7.6	
			LB-5-10		2.8			@8': SAND (SP), light brown, moist, medium to coarse sand, few fine sand	8.0	
			LB-5-15		2.6			@11.3': Approximately 3 inch section of SILT/SAND interbeds (SP/ML)	12.0	
			LB-5-20		0.7			@12': Decomposing granitic basal GRAVEL (GP)	12.2	
			LB-5-20		0.7			@12.2': SAND (SP), light brown, moist, fine to medium sand, friable	12.2	
								@16': fine sand, slightly moist, friable	20.0	
									20.0	

**Notes:**  
 Total Depth: 20 feet bgs  
 No groundwater encountered during drilling  
 Constructed temporary probes SVP-5-5, SVP-5-10, and SVP-5-20  
 Destroyed temporary probes on 03/07/15  
 Boring backfilled with hydrated bentonite and capped with cold patch asphalt on 03/07/15

SOIL GAS WELL BORING/CONSTRUCTION LB-1 THRU LB-6 GP.J LAEWN01.GDT 3/18/15



# SOIL GAS WELL BORING/CONSTRUCTION LOG

<b>PROJECT NUMBER</b> 10960.001	<b>BORING/WELL NUMBER</b> LB-6
<b>PROJECT NAME</b> SKMF, LLC	<b>DATE DRILLED</b> 3/7/2015
<b>LOCATION</b> 6th & Alameda	<b>CASING TYPE/DIAMETER</b> Nylaflo / 1/4-inch
<b>DRILLING METHOD</b> Direct Push	<b>SCREEN TYPE/SLOT</b> Stone Filter
<b>SAMPLING METHOD</b> Direct Push Acetate Sleeves	<b>FILTER PACK TYPE</b> #2/12 Sand
<b>GROUND ELEVATION</b> 247.00 ft. above MSL	<b>GROUT TYPE</b> Hydrated Bentonite Granuals
<b>TOP OF CASING ELEV.</b> 247 ft. above MSL	<b>DEPTH TO WATER</b> NA ft.
<b>LOGGED BY</b> A.R.	<b>TOTAL DRILL DEPTH</b> 20 ft.

**REMARKS**

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								@Surface: 4-inches asphalt (AC) over 6-inches aggregate base (AB) @0.8': Gravelly SAND (SP), olive brown, moist, fine to coarse sand, fine and coarse subrounded to subangular gravel @2.5': Silty SAND (SM), olive gray, moist, fine sand, few coarse sand, trace fine gravel @3': Well sorted silty SAND with clay (SW), olive brown, fine to coarse sand, very weathered granitic gravel @3.5': SAND (SP), light brown, moist, fine sand, trace medium sand @4': Silty SAND (SM), olive brown to dark brown, moist, fine sand @4.25': SAND (SP), light brown, fine sand, moist @12.5': Very weathered decomposing granitic (GP), moist @13': SAND (SP), light brown, moist, fine sand @19': fine to coarse SAND (SP), slightly moist, fine gravel, loose	0.4 0.8 2.5 3.0 3.5 4.0 4.3 12.5 13.0 20.0	<p style="font-size: small;">             Bentonite              1/4" Nylaflo Tubing              Sand Airstone (5')              Bentonite              Sand Airstone (10')              Bentonite              Sand Airstone (19.5')           </p>
			LB-6-2.5		5.9					
5			LB-6-5		1.3					
10			LB-6-10		1.9					
15			LB-6-15		1.5					
20			LB-6-20		1.3					

**Notes:** Total Depth: 20 feet bgs  
 No groundwater encountered during drilling  
 Constructed temporary probes SVP-6-5, SVP-6-10, and SVP-6-20  
 Destroyed temporary probes on 03/07/15  
 Boring backfilled with hydrated bentonite and capped with cold patch asphalt on 03/07/15

SOIL GAS WELL BORING/CONSTRUCTION LB-1 THRU LB-6 GP.J LAEWN01.GDT 3/18/15



## APPENDIX C

### LABORATORY TEST RESULTS AND CHAIN-OF-CUSTODY DOCUMENTS



9765 Eton Avenue  
Chatsworth  
California 91311  
Tel: (818) 998-5547  
Fax: (818) 998-7258

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March 13, 2015

Robin Ferber  
Leighton & Associates, Inc.. [SC]  
25570 Rye Canyon Rd.,  
Santa Clarita, CA 91355

**Re : 6th and Alameda**  
**A93102 / 5C09028**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 03/09/15 08:05 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analyticals.

Sincerely,

A handwritten signature in black ink that reads 'Eydie Schwartz'.

Eydie Schwartz  
Project Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
<b>8260B</b>					
LB-1-5	5C09028-01	Soil	2	03/07/15 11:06	03/09/15 08:05
LB-1-10	5C09028-02	Soil	2	03/07/15 11:08	03/09/15 08:05
LB-1-15	5C09028-03	Soil	2	03/07/15 11:11	03/09/15 08:05
LB-1-20	5C09028-04	Soil	2	03/07/15 11:12	03/09/15 08:05
LB-2-5	5C09028-05	Soil	2	03/07/15 12:09	03/09/15 08:05
LB-2-10	5C09028-06	Soil	2	03/07/15 12:10	03/09/15 08:05
LB-2-15	5C09028-07	Soil	2	03/07/15 12:12	03/09/15 08:05
LB-2-20	5C09028-08	Soil	2	03/07/15 12:16	03/09/15 08:05
LB-3-5	5C09028-09	Soil	2	03/07/15 12:59	03/09/15 08:05
LB-3-10	5C09028-10	Soil	2	03/07/15 13:00	03/09/15 08:05
LB-3-15	5C09028-11	Soil	2	03/07/15 13:02	03/09/15 08:05
LB-3-20	5C09028-12	Soil	2	03/07/15 13:06	03/09/15 08:05
LB-4-5	5C09028-13	Soil	2	03/07/15 13:47	03/09/15 08:05
LB-4-10	5C09028-14	Soil	2	03/07/15 13:48	03/09/15 08:05
LB-4-15	5C09028-15	Soil	2	03/07/15 13:49	03/09/15 08:05
LB-4-20	5C09028-16	Soil	2	03/07/15 13:54	03/09/15 08:05
LB-5-2.5	5C09028-17	Soil	2	03/07/15 09:37	03/09/15 08:05
LB-5-5	5C09028-18	Soil	2	03/07/15 09:43	03/09/15 08:05
LB-5-10	5C09028-19	Soil	2	03/07/15 10:14	03/09/15 08:05

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



### LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
LB-5-15	5C09028-20	Soil	2	03/07/15 10:19	03/09/15 08:05
LB-5-20	5C09028-21	Soil	2	03/07/15 10:22	03/09/15 08:05
LB-6-2.5	5C09028-22	Soil	2	03/07/15 08:39	03/09/15 08:05
LB-6-5	5C09028-23	Soil	2	03/07/15 08:43	03/09/15 08:05
LB-6-10	5C09028-24	Soil	2	03/07/15 08:45	03/09/15 08:05
LB-6-15	5C09028-25	Soil	2	03/07/15 08:49	03/09/15 08:05
LB-6-20	5C09028-26	Soil	2	03/07/15 08:53	03/09/15 08:05

#### 8270C PAHs SIM

LB-5-2.5	5C09028-17	Soil	2	03/07/15 09:37	03/09/15 08:05
LB-5-5	5C09028-18	Soil	2	03/07/15 09:43	03/09/15 08:05
LB-6-2.5	5C09028-22	Soil	2	03/07/15 08:39	03/09/15 08:05
LB-6-5	5C09028-23	Soil	2	03/07/15 08:43	03/09/15 08:05

#### CAM Metals Less Hg 6000/7000

LB-1-5	5C09028-01	Soil	2	03/07/15 11:06	03/09/15 08:05
LB-2-5	5C09028-05	Soil	2	03/07/15 12:09	03/09/15 08:05
LB-3-5	5C09028-09	Soil	2	03/07/15 12:59	03/09/15 08:05
LB-4-5	5C09028-13	Soil	2	03/07/15 13:47	03/09/15 08:05
LB-5-2.5	5C09028-17	Soil	2	03/07/15 09:37	03/09/15 08:05
LB-6-2.5	5C09028-22	Soil	2	03/07/15 08:39	03/09/15 08:05

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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**Carbon Chain Characterization 8015M**

LB-1-5	5C09028-01	Soil	2	03/07/15 11:06	03/09/15 08:05
LB-1-10	5C09028-02	Soil	2	03/07/15 11:08	03/09/15 08:05
LB-1-15	5C09028-03	Soil	2	03/07/15 11:11	03/09/15 08:05
LB-1-20	5C09028-04	Soil	2	03/07/15 11:12	03/09/15 08:05
LB-2-5	5C09028-05	Soil	2	03/07/15 12:09	03/09/15 08:05
LB-2-10	5C09028-06	Soil	2	03/07/15 12:10	03/09/15 08:05
LB-2-15	5C09028-07	Soil	2	03/07/15 12:12	03/09/15 08:05
LB-2-20	5C09028-08	Soil	2	03/07/15 12:16	03/09/15 08:05
LB-3-5	5C09028-09	Soil	2	03/07/15 12:59	03/09/15 08:05
LB-3-10	5C09028-10	Soil	2	03/07/15 13:00	03/09/15 08:05
LB-3-15	5C09028-11	Soil	2	03/07/15 13:02	03/09/15 08:05
LB-3-20	5C09028-12	Soil	2	03/07/15 13:06	03/09/15 08:05
LB-4-5	5C09028-13	Soil	2	03/07/15 13:47	03/09/15 08:05
LB-4-10	5C09028-14	Soil	2	03/07/15 13:48	03/09/15 08:05
LB-4-15	5C09028-15	Soil	2	03/07/15 13:49	03/09/15 08:05
LB-4-20	5C09028-16	Soil	2	03/07/15 13:54	03/09/15 08:05
LB-5-2.5	5C09028-17	Soil	2	03/07/15 09:37	03/09/15 08:05
LB-5-5	5C09028-18	Soil	2	03/07/15 09:43	03/09/15 08:05
LB-5-10	5C09028-19	Soil	2	03/07/15 10:14	03/09/15 08:05

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
LB-5-15	5C09028-20	Soil	2	03/07/15 10:19	03/09/15 08:05
LB-5-20	5C09028-21	Soil	2	03/07/15 10:22	03/09/15 08:05
LB-6-2.5	5C09028-22	Soil	2	03/07/15 08:39	03/09/15 08:05
LB-6-5	5C09028-23	Soil	2	03/07/15 08:43	03/09/15 08:05
LB-6-10	5C09028-24	Soil	2	03/07/15 08:45	03/09/15 08:05
LB-6-15	5C09028-25	Soil	2	03/07/15 08:49	03/09/15 08:05
LB-6-20	5C09028-26	Soil	2	03/07/15 08:53	03/09/15 08:05

**Mercury Total EPA 7470A/7471A**

LB-1-5	5C09028-01	Soil	2	03/07/15 11:06	03/09/15 08:05
LB-2-5	5C09028-05	Soil	2	03/07/15 12:09	03/09/15 08:05
LB-3-5	5C09028-09	Soil	2	03/07/15 12:59	03/09/15 08:05
LB-4-5	5C09028-13	Soil	2	03/07/15 13:47	03/09/15 08:05
LB-5-2.5	5C09028-17	Soil	2	03/07/15 09:37	03/09/15 08:05
LB-6-2.5	5C09028-22	Soil	2	03/07/15 08:39	03/09/15 08:05

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**Eydie Schwartz**  
Project Manager



### LABORATORY ANALYSIS RESULTS

Client: Leighton & Associates, Inc.. [SC]  
Project No: NA  
Project Name: 6th and Alameda

AA Project No: A93102  
Date Received: 03/09/15  
Date Reported: 03/13/15

#### ANALYTICAL DATA SUMMARY

Analyte	Sample Name	Result	MRL	Units	Dilution	Prepared	Analyzed	Method
<b>Carbon Chain by GC/FID</b>								
C20-C22	LB-5-2.5	3.8	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C22-C24	LB-5-2.5	2.7	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C24-C26	LB-5-2.5	4.8	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C26-C28	LB-5-2.5	6.9	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C28-C32	LB-5-2.5	18	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C32-C34	LB-5-2.5	7.6	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C34-C36	LB-5-2.5	5.7	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C36-C40	LB-5-2.5	8.2	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C40-C44	LB-5-2.5	4.1	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
TPH (C6-C44)	LB-5-2.5	62	10	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C26-C28	LB-5-5	2.5	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C28-C32	LB-5-5	8.4	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C32-C34	LB-5-5	3.5	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C34-C36	LB-5-5	3.3	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C36-C40	LB-5-5	4.8	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C40-C44	LB-5-5	2.1	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
TPH (C6-C44)	LB-5-5	25	10	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C20-C22	LB-6-2.5	1.6	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C22-C24	LB-6-2.5	2.4	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C24-C26	LB-6-2.5	3.7	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C26-C28	LB-6-2.5	6.1	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C28-C32	LB-6-2.5	18	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C32-C34	LB-6-2.5	6.8	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C34-C36	LB-6-2.5	7.6	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C36-C40	LB-6-2.5	7.6	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
C40-C44	LB-6-2.5	6.4	1.0	mg/kg	1	03/09/15	03/10/15	EPA 8015M
TPH (C6-C44)	LB-6-2.5	60	10	mg/kg	1	03/09/15	03/10/15	EPA 8015M

#### PAHs SIM by EPA 8270C

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



### LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

#### ANALYTICAL DATA SUMMARY

Analyte	Sample Name	Result	MRL	Units	Dilution	Prepared	Analyzed	Method
Benzo(a)anthracene	LB-5-2.5	0.031	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Benzo(a)pyrene	LB-5-2.5	0.036	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Benzo(b)fluoranthene	LB-5-2.5	0.032	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Benzo(g,h,i)perylene	LB-5-2.5	0.041	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Benzo(k)fluoranthene	LB-5-2.5	0.019	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Chrysene	LB-5-2.5	0.046	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Fluoranthene	LB-5-2.5	0.053	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Indeno (1,2,3-cd) pyrene	LB-5-2.5	0.040	0.040	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Phenanthrene	LB-5-2.5	0.026	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Pyrene	LB-5-2.5	0.046	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Benzo(a)pyrene	LB-5-5	0.015	0.010	mg/kg	1	03/12/15	03/13/15	EPA 8270M
Benzo(b)fluoranthene	LB-5-5	0.014	0.010	mg/kg	1	03/12/15	03/13/15	EPA 8270M
Benzo(g,h,i)perylene	LB-5-5	0.016	0.010	mg/kg	1	03/12/15	03/13/15	EPA 8270M
Chrysene	LB-5-5	0.015	0.010	mg/kg	1	03/12/15	03/13/15	EPA 8270M
Dibenzo(a,h)anthracene	LB-5-5	0.011	0.010	mg/kg	1	03/12/15	03/13/15	EPA 8270M
Fluoranthene	LB-5-5	0.012	0.010	mg/kg	1	03/12/15	03/13/15	EPA 8270M
Pyrene	LB-5-5	0.019	0.010	mg/kg	1	03/12/15	03/13/15	EPA 8270M
Benzo(a)anthracene	LB-6-2.5	0.038	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Benzo(a)pyrene	LB-6-2.5	0.031	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Benzo(b)fluoranthene	LB-6-2.5	0.022	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Benzo(g,h,i)perylene	LB-6-2.5	0.028	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Benzo(k)fluoranthene	LB-6-2.5	0.036	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Chrysene	LB-6-2.5	0.050	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Fluoranthene	LB-6-2.5	0.054	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Phenanthrene	LB-6-2.5	0.017	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
Pyrene	LB-6-2.5	0.045	0.010	mg/kg	1	03/10/15	03/11/15	EPA 8270M
<b>Total Metals CAM 17</b>								
Mercury	LB-1-5	0.050	0.020	mg/kg	1	03/09/15	03/09/15	EPA 7471A
Mercury	LB-2-5	0.058	0.020	mg/kg	1	03/09/15	03/09/15	EPA 7471A
Mercury	LB-3-5	0.082	0.020	mg/kg	1	03/09/15	03/09/15	EPA 7471A

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager





### LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

#### ANALYTICAL DATA SUMMARY

Analyte	Sample Name	Result	MRL	Units	Dilution	Prepared	Analyzed	Method
Mercury	LB-4-5	0.11	0.020	mg/kg	1	03/09/15	03/09/15	EPA 7471A
Mercury	LB-5-2.5	0.073	0.020	mg/kg	1	03/09/15	03/09/15	EPA 7471A
Mercury	LB-6-2.5	0.12	0.020	mg/kg	1	03/09/15	03/09/15	EPA 7471A
<b>Total Metals CAM 17</b>								
Barium	LB-1-5	34	10	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Chromium	LB-1-5	4.4	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Cobalt	LB-1-5	3.7	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Copper	LB-1-5	5.3	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Vanadium	LB-1-5	16	10	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Zinc	LB-1-5	19	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Arsenic	LB-2-5	2.0	0.50	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Barium	LB-2-5	130	10	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Chromium	LB-2-5	17	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Cobalt	LB-2-5	11	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Copper	LB-2-5	19	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Nickel	LB-2-5	13	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Vanadium	LB-2-5	41	10	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Zinc	LB-2-5	65	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



### LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

#### ANALYTICAL DATA SUMMARY

Analyte	Sample Name	Result	MRL	Units	Dilution	Prepared	Analyzed	Method
Arsenic	LB-3-5	2.5	0.50	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Barium	LB-3-5	110	10	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Chromium	LB-3-5	15	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Cobalt	LB-3-5	11	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Copper	LB-3-5	20	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Nickel	LB-3-5	11	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Vanadium	LB-3-5	43	10	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Zinc	LB-3-5	58	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Arsenic	LB-4-5	0.96	0.50	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Barium	LB-4-5	23	10	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Copper	LB-4-5	3.6	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Vanadium	LB-4-5	10	10	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Zinc	LB-4-5	15	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Arsenic	LB-5-2.5	1.2	0.50	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Barium	LB-5-2.5	88	10	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Chromium	LB-5-2.5	12	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Cobalt	LB-5-2.5	6.9	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

**ANALYTICAL DATA SUMMARY**

Analyte	Sample Name	Result	MRL	Units	Dilution	Prepared	Analyzed	Method
Copper	LB-5-2.5	15	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Lead	LB-5-2.5	13	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Nickel	LB-5-2.5	8.0	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Vanadium	LB-5-2.5	32	10	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Zinc	LB-5-2.5	61	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Arsenic	LB-6-2.5	4.2	0.50	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Barium	LB-6-2.5	120	10	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Chromium	LB-6-2.5	18	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Cobalt	LB-6-2.5	6.5	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Copper	LB-6-2.5	28	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Lead	LB-6-2.5	42	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Nickel	LB-6-2.5	10	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Vanadium	LB-6-2.5	41	10	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000
Zinc	LB-6-2.5	140	3.0	mg/kg	1	03/09/15	03/09/15	EPA 6010B/7000

**VOCs by GC/MS**

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** PAHs SIM by EPA 8270C

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** mg/kg

	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/10/15	03/12/15	03/10/15	03/12/15	
<b>Date Analyzed:</b>	03/11/15	03/13/15	03/11/15	03/13/15	
<b>AA ID No:</b>	5C09028-17	5C09028-18	5C09028-22	5C09028-23	
<b>Client ID No:</b>	LB-5-2.5	LB-5-5	LB-6-2.5	LB-6-5	
<b>Matrix:</b>	Soil	Soil	Soil	Soil	
<b>Dilution Factor:</b>	1	1	1	1	MRL

### 8270C PAHs SIM (EPA 8270M)

Acenaphthene	<0.010	<0.010	<0.010	<0.010	0.010
Acenaphthylene	<0.010	<0.010	<0.010	<0.010	0.010
Anthracene	<0.010	<0.010	<0.010	<0.010	0.010
Benzo(a)anthracene	<b>0.031</b>	<0.010	<b>0.038</b>	<0.010	0.010
Benzo(a)pyrene	<b>0.036</b>	<b>0.015</b>	<b>0.031</b>	<0.010	0.010
Benzo(b)fluoranthene	<b>0.032</b>	<b>0.014</b>	<b>0.022</b>	<0.010	0.010
Benzo(g,h,i)perylene	<b>0.041</b>	<b>0.016</b>	<b>0.028</b>	<0.010	0.010
Benzo(k)fluoranthene	<b>0.019</b>	<0.010	<b>0.036</b>	<0.010	0.010
Chrysene	<b>0.046</b>	<b>0.015</b>	<b>0.050</b>	<0.010	0.010
Dibenzo(a,h)anthracene	<0.010	<b>0.011</b>	<0.010	<0.010	0.010
Fluoranthene	<b>0.053</b>	<b>0.012</b>	<b>0.054</b>	<0.010	0.010
Fluorene	<0.010	<0.010	<0.010	<0.010	0.010
Indeno (1,2,3-cd) pyrene	<b>0.040</b>	<0.040	<0.040	<0.040	0.040
Naphthalene	<0.010	<0.010	<0.010	<0.010	0.010
Phenanthrene	<b>0.026</b>	<0.010	<b>0.017</b>	<0.010	0.010
Pyrene	<b>0.046</b>	<b>0.019</b>	<b>0.045</b>	<0.010	0.010

<u>Surrogates</u>					<u>%REC Limits</u>
2-Fluorobiphenyl	51%	58%	46%	50%	43-116
Terphenyl-d14	69%	82%	66%	86%	33-141

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>Date Analyzed:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>AA ID No:</b>	5C09028-01	5C09028-02	5C09028-03	5C09028-04	
<b>Client ID No:</b>	LB-1-5	LB-1-10	LB-1-15	LB-1-20	
<b>Matrix:</b>	Soil	Soil	Soil	Soil	
<b>Dilution Factor:</b>	1	1	1	1	MRL

### 8260B (EPA 8260B)

Acetone	<50	<50	<50	<50	50
Benzene	<2.0	<2.0	<2.0	<2.0	2.0
Bromobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Bromochloromethane	<5.0	<5.0	<5.0	<5.0	5.0
Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	5.0
Bromoform	<5.0	<5.0	<5.0	<5.0	5.0
Bromomethane	<5.0	<5.0	<5.0	<5.0	5.0
2-Butanone (MEK)	<50	<50	<50	<50	50
sec-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
n-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
tert-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Carbon Disulfide	<5.0	<5.0	<5.0	<5.0	5.0
Carbon Tetrachloride	<5.0	<5.0	<5.0	<5.0	5.0
Chlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Chloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Chloroform	<5.0	<5.0	<5.0	<5.0	5.0
Chloromethane	<5.0	<5.0	<5.0	<5.0	5.0
4-Chlorotoluene	<5.0	<5.0	<5.0	<5.0	5.0
2-Chlorotoluene	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dibromo-3-chloropropane	<10	<10	<10	<10	10
Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dibromoethane (EDB)	<5.0	<5.0	<5.0	<5.0	5.0
Dibromomethane	<5.0	<5.0	<5.0	<5.0	5.0
1,3-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,4-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Dichlorodifluoromethane (R12)	<5.0	<5.0	<5.0	<5.0	5.0

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

Date Sampled:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/10/15	03/10/15	03/10/15	03/10/15	
Date Analyzed:	03/10/15	03/10/15	03/10/15	03/10/15	
AA ID No:	5C09028-01	5C09028-02	5C09028-03	5C09028-04	
Client ID No:	LB-1-5	LB-1-10	LB-1-15	LB-1-20	
Matrix:	Soil	Soil	Soil	Soil	
Dilution Factor:	1	1	1	1	MRL

**8260B (EPA 8260B) (continued)**

1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichloroethane (EDC)	<5.0	<5.0	<5.0	<5.0	5.0
1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
trans-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
cis-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
2,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,3-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,1-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
cis-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
trans-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
Ethylbenzene	<2.0	<2.0	<2.0	<2.0	2.0
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone (MBK)	<50	<50	<50	<50	50
Isopropylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
4-Isopropyltoluene	<5.0	<5.0	<5.0	<5.0	5.0
Methyl-tert-Butyl Ether (MTBE)	<5.0	<5.0	<5.0	<5.0	5.0
Methylene Chloride	<50	<50	<50	<50	50
4-Methyl-2-pentanone (MIBK)	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
n-Propylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Styrene	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Tetrachloroethylene (PCE)	<5.0	<5.0	<5.0	<5.0	5.0
Toluene	<2.0	<2.0	<2.0	<2.0	2.0
1,2,4-Trichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>Date Analyzed:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>AA ID No:</b>	5C09028-01	5C09028-02	5C09028-03	5C09028-04	
<b>Client ID No:</b>	LB-1-5	LB-1-10	LB-1-15	LB-1-20	
<b>Matrix:</b>	Soil	Soil	Soil	Soil	
<b>Dilution Factor:</b>	1	1	1	1	MRL

### 8260B (EPA 8260B) (continued)

1,2,3-Trichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Trichloroethylene (TCE)	<5.0	<5.0	<5.0	<5.0	5.0
Trichlorofluoromethane (R11)	<5.0	<5.0	<5.0	<5.0	5.0
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<5.0	<5.0	<5.0	<5.0	5.0
1,2,4-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,3,5-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Vinyl chloride	<5.0	<5.0	<5.0	<5.0	5.0
o-Xylene	<2.0	<2.0	<2.0	<2.0	2.0
m,p-Xylenes	<2.0	<2.0	<2.0	<2.0	2.0

<u>Surrogates</u>					<u>%REC Limits</u>
4-Bromofluorobenzene	120%	119%	120%	116%	70-140
Dibromofluoromethane	101%	102%	103%	106%	70-140
Toluene-d8	110%	109%	110%	110%	70-140

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

Date Sampled:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/10/15	03/10/15	03/10/15	03/10/15	
Date Analyzed:	03/10/15	03/10/15	03/10/15	03/10/15	
AA ID No:	5C09028-05	5C09028-06	5C09028-07	5C09028-08	
Client ID No:	LB-2-5	LB-2-10	LB-2-15	LB-2-20	
Matrix:	Soil	Soil	Soil	Soil	
Dilution Factor:	1	1	1	1	MRL

### 8260B (EPA 8260B)

Acetone	<50	<50	<50	<50	50
Benzene	<2.0	<2.0	<2.0	<2.0	2.0
Bromobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Bromochloromethane	<5.0	<5.0	<5.0	<5.0	5.0
Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	5.0
Bromoform	<5.0	<5.0	<5.0	<5.0	5.0
Bromomethane	<5.0	<5.0	<5.0	<5.0	5.0
2-Butanone (MEK)	<50	<50	<50	<50	50
sec-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
n-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
tert-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Carbon Disulfide	<5.0	<5.0	<5.0	<5.0	5.0
Carbon Tetrachloride	<5.0	<5.0	<5.0	<5.0	5.0
Chlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Chloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Chloroform	<5.0	<5.0	<5.0	<5.0	5.0
Chloromethane	<5.0	<5.0	<5.0	<5.0	5.0
4-Chlorotoluene	<5.0	<5.0	<5.0	<5.0	5.0
2-Chlorotoluene	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dibromo-3-chloropropane	<10	<10	<10	<10	10
Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dibromoethane (EDB)	<5.0	<5.0	<5.0	<5.0	5.0
Dibromomethane	<5.0	<5.0	<5.0	<5.0	5.0
1,3-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,4-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Dichlorodifluoromethane (R12)	<5.0	<5.0	<5.0	<5.0	5.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager





## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

Date Sampled:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/10/15	03/10/15	03/10/15	03/10/15	
Date Analyzed:	03/10/15	03/10/15	03/10/15	03/10/15	
AA ID No:	5C09028-05	5C09028-06	5C09028-07	5C09028-08	
Client ID No:	LB-2-5	LB-2-10	LB-2-15	LB-2-20	
Matrix:	Soil	Soil	Soil	Soil	
Dilution Factor:	1	1	1	1	MRL

### **8260B (EPA 8260B) (continued)**

1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichloroethane (EDC)	<5.0	<5.0	<5.0	<5.0	5.0
1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
trans-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
cis-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
2,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,3-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,1-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
cis-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
trans-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
Ethylbenzene	<2.0	<2.0	<2.0	<2.0	2.0
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone (MBK)	<50	<50	<50	<50	50
Isopropylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
4-Isopropyltoluene	<5.0	<5.0	<5.0	<5.0	5.0
Methyl-tert-Butyl Ether (MTBE)	<5.0	<5.0	<5.0	<5.0	5.0
Methylene Chloride	<50	<50	<50	<50	50
4-Methyl-2-pentanone (MIBK)	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
n-Propylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Styrene	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Tetrachloroethylene (PCE)	<5.0	<5.0	<5.0	<5.0	5.0
Toluene	<2.0	<2.0	<2.0	<2.0	2.0
1,2,4-Trichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>Date Analyzed:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>AA ID No:</b>	5C09028-05	5C09028-06	5C09028-07	5C09028-08	
<b>Client ID No:</b>	LB-2-5	LB-2-10	LB-2-15	LB-2-20	
<b>Matrix:</b>	Soil	Soil	Soil	Soil	
<b>Dilution Factor:</b>	1	1	1	1	MRL

### 8260B (EPA 8260B) (continued)

1,2,3-Trichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Trichloroethylene (TCE)	<5.0	<5.0	<5.0	<5.0	5.0
Trichlorofluoromethane (R11)	<5.0	<5.0	<5.0	<5.0	5.0
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<5.0	<5.0	<5.0	<5.0	5.0
1,2,4-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,3,5-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Vinyl chloride	<5.0	<5.0	<5.0	<5.0	5.0
o-Xylene	<2.0	<2.0	<2.0	<2.0	2.0
m,p-Xylenes	<2.0	<2.0	<2.0	<2.0	2.0

<u>Surrogates</u>					<u>%REC Limits</u>
4-Bromofluorobenzene	122%	121%	119%	116%	70-140
Dibromofluoromethane	104%	106%	107%	104%	70-140
Toluene-d8	107%	108%	107%	109%	70-140

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

Date Sampled:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/10/15	03/10/15	03/10/15	03/10/15	
Date Analyzed:	03/10/15	03/10/15	03/10/15	03/10/15	
AA ID No:	5C09028-09	5C09028-10	5C09028-11	5C09028-12	
Client ID No:	LB-3-5	LB-3-10	LB-3-15	LB-3-20	
Matrix:	Soil	Soil	Soil	Soil	
Dilution Factor:	1	1	1	1	MRL

### 8260B (EPA 8260B)

Acetone	<50	<50	<50	<50	50
Benzene	<2.0	<2.0	<2.0	<2.0	2.0
Bromobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Bromochloromethane	<5.0	<5.0	<5.0	<5.0	5.0
Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	5.0
Bromoform	<5.0	<5.0	<5.0	<5.0	5.0
Bromomethane	<5.0	<5.0	<5.0	<5.0	5.0
2-Butanone (MEK)	<50	<50	<50	<50	50
sec-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
n-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
tert-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Carbon Disulfide	<5.0	<5.0	<5.0	<5.0	5.0
Carbon Tetrachloride	<5.0	<5.0	<5.0	<5.0	5.0
Chlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Chloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Chloroform	<5.0	<5.0	<5.0	<5.0	5.0
Chloromethane	<5.0	<5.0	<5.0	<5.0	5.0
4-Chlorotoluene	<5.0	<5.0	<5.0	<5.0	5.0
2-Chlorotoluene	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dibromo-3-chloropropane	<10	<10	<10	<10	10
Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dibromoethane (EDB)	<5.0	<5.0	<5.0	<5.0	5.0
Dibromomethane	<5.0	<5.0	<5.0	<5.0	5.0
1,3-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,4-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Dichlorodifluoromethane (R12)	<5.0	<5.0	<5.0	<5.0	5.0

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

Date Sampled:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/10/15	03/10/15	03/10/15	03/10/15	
Date Analyzed:	03/10/15	03/10/15	03/10/15	03/10/15	
AA ID No:	5C09028-09	5C09028-10	5C09028-11	5C09028-12	
Client ID No:	LB-3-5	LB-3-10	LB-3-15	LB-3-20	
Matrix:	Soil	Soil	Soil	Soil	
Dilution Factor:	1	1	1	1	MRL

### **8260B (EPA 8260B) (continued)**

1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichloroethane (EDC)	<5.0	<5.0	<5.0	<5.0	5.0
1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
trans-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
cis-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
2,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,3-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,1-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
cis-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
trans-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
Ethylbenzene	<2.0	<2.0	<2.0	<2.0	2.0
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone (MBK)	<50	<50	<50	<50	50
Isopropylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
4-Isopropyltoluene	<5.0	<5.0	<5.0	<5.0	5.0
Methyl-tert-Butyl Ether (MTBE)	<5.0	<5.0	<5.0	<5.0	5.0
Methylene Chloride	<50	<50	<50	<50	50
4-Methyl-2-pentanone (MIBK)	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
n-Propylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Styrene	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Tetrachloroethylene (PCE)	<5.0	<5.0	<5.0	<5.0	5.0
Toluene	<2.0	<2.0	<2.0	<2.0	2.0
1,2,4-Trichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>Date Analyzed:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>AA ID No:</b>	5C09028-09	5C09028-10	5C09028-11	5C09028-12	
<b>Client ID No:</b>	LB-3-5	LB-3-10	LB-3-15	LB-3-20	
<b>Matrix:</b>	Soil	Soil	Soil	Soil	
<b>Dilution Factor:</b>	1	1	1	1	MRL

### **8260B (EPA 8260B) (continued)**

1,2,3-Trichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Trichloroethylene (TCE)	<5.0	<5.0	<5.0	<5.0	5.0
Trichlorofluoromethane (R11)	<5.0	<5.0	<5.0	<5.0	5.0
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<5.0	<5.0	<5.0	<5.0	5.0
1,2,4-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,3,5-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Vinyl chloride	<5.0	<5.0	<5.0	<5.0	5.0
o-Xylene	<2.0	<2.0	<2.0	<2.0	2.0
m,p-Xylenes	<2.0	<2.0	<2.0	<2.0	2.0

<b>Surrogates</b>					<b>%REC Limits</b>
4-Bromofluorobenzene	119%	115%	120%	118%	70-140
Dibromofluoromethane	105%	109%	106%	105%	70-140
Toluene-d8	110%	109%	110%	110%	70-140

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

Date Sampled:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/10/15	03/10/15	03/10/15	03/10/15	
Date Analyzed:	03/10/15	03/10/15	03/10/15	03/10/15	
AA ID No:	5C09028-13	5C09028-14	5C09028-15	5C09028-16	
Client ID No:	LB-4-5	LB-4-10	LB-4-15	LB-4-20	
Matrix:	Soil	Soil	Soil	Soil	
Dilution Factor:	1	1	1	1	MRL

### 8260B (EPA 8260B)

Acetone	<50	<50	<50	<50	50
Benzene	<2.0	<2.0	<2.0	<2.0	2.0
Bromobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Bromochloromethane	<5.0	<5.0	<5.0	<5.0	5.0
Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	5.0
Bromoform	<5.0	<5.0	<5.0	<5.0	5.0
Bromomethane	<5.0	<5.0	<5.0	<5.0	5.0
2-Butanone (MEK)	<50	<50	<50	<50	50
sec-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
n-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
tert-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Carbon Disulfide	<5.0	<5.0	<5.0	<5.0	5.0
Carbon Tetrachloride	<5.0	<5.0	<5.0	<5.0	5.0
Chlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Chloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Chloroform	<5.0	<5.0	<5.0	<5.0	5.0
Chloromethane	<5.0	<5.0	<5.0	<5.0	5.0
4-Chlorotoluene	<5.0	<5.0	<5.0	<5.0	5.0
2-Chlorotoluene	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dibromo-3-chloropropane	<10	<10	<10	<10	10
Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dibromoethane (EDB)	<5.0	<5.0	<5.0	<5.0	5.0
Dibromomethane	<5.0	<5.0	<5.0	<5.0	5.0
1,3-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,4-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Dichlorodifluoromethane (R12)	<5.0	<5.0	<5.0	<5.0	5.0

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

Date Sampled:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/10/15	03/10/15	03/10/15	03/10/15	
Date Analyzed:	03/10/15	03/10/15	03/10/15	03/10/15	
AA ID No:	5C09028-13	5C09028-14	5C09028-15	5C09028-16	
Client ID No:	LB-4-5	LB-4-10	LB-4-15	LB-4-20	
Matrix:	Soil	Soil	Soil	Soil	
Dilution Factor:	1	1	1	1	MRL

### 8260B (EPA 8260B) (continued)

1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichloroethane (EDC)	<5.0	<5.0	<5.0	<5.0	5.0
1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
trans-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
cis-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
2,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,3-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,1-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
cis-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
trans-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
Ethylbenzene	<2.0	<2.0	<2.0	<2.0	2.0
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone (MBK)	<50	<50	<50	<50	50
Isopropylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
4-Isopropyltoluene	<5.0	<5.0	<5.0	<5.0	5.0
Methyl-tert-Butyl Ether (MTBE)	<5.0	<5.0	<5.0	<5.0	5.0
Methylene Chloride	<50	<50	<50	<50	50
4-Methyl-2-pentanone (MIBK)	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
n-Propylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Styrene	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Tetrachloroethylene (PCE)	<5.0	<5.0	<5.0	<5.0	5.0
Toluene	<2.0	<2.0	<2.0	<2.0	2.0
1,2,4-Trichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>Date Analyzed:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>AA ID No:</b>	5C09028-13	5C09028-14	5C09028-15	5C09028-16	
<b>Client ID No:</b>	LB-4-5	LB-4-10	LB-4-15	LB-4-20	
<b>Matrix:</b>	Soil	Soil	Soil	Soil	
<b>Dilution Factor:</b>	1	1	1	1	MRL

### 8260B (EPA 8260B) (continued)

1,2,3-Trichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Trichloroethylene (TCE)	<5.0	<5.0	<5.0	<5.0	5.0
Trichlorofluoromethane (R11)	<5.0	<5.0	<5.0	<5.0	5.0
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<5.0	<5.0	<5.0	<5.0	5.0
1,2,4-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,3,5-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Vinyl chloride	<5.0	<5.0	<5.0	<5.0	5.0
o-Xylene	<2.0	<2.0	<2.0	<2.0	2.0
m,p-Xylenes	<2.0	<2.0	<2.0	<2.0	2.0

<u>Surrogates</u>					<u>%REC Limits</u>
4-Bromofluorobenzene	120%	123%	117%	120%	70-140
Dibromofluoromethane	107%	114%	118%	118%	70-140
Toluene-d8	110%	112%	102%	105%	70-140

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager





## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

	03/07/2015	03/07/2015	03/07/2015	03/07/2015	
<b>Date Sampled:</b>	03/07/2015	03/07/2015	03/07/2015	03/07/2015	
<b>Date Prepared:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>Date Analyzed:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>AA ID No:</b>	5C09028-17	5C09028-18	5C09028-19	5C09028-20	
<b>Client ID No:</b>	LB-5-2.5	LB-5-5	LB-5-10	LB-5-15	
<b>Matrix:</b>	Soil	Soil	Soil	Soil	
<b>Dilution Factor:</b>	1	1	1	1	MRL

### 8260B (EPA 8260B)

Acetone	<50	<50	<50	<50	50
Benzene	<2.0	<2.0	<2.0	<2.0	2.0
Bromobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Bromochloromethane	<5.0	<5.0	<5.0	<5.0	5.0
Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	5.0
Bromoform	<5.0	<5.0	<5.0	<5.0	5.0
Bromomethane	<5.0	<5.0	<5.0	<5.0	5.0
2-Butanone (MEK)	<50	<50	<50	<50	50
sec-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
n-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
tert-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Carbon Disulfide	<5.0	<5.0	<5.0	<5.0	5.0
Carbon Tetrachloride	<5.0	<5.0	<5.0	<5.0	5.0
Chlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Chloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Chloroform	<5.0	<5.0	<5.0	<5.0	5.0
Chloromethane	<5.0	<5.0	<5.0	<5.0	5.0
4-Chlorotoluene	<5.0	<5.0	<5.0	<5.0	5.0
2-Chlorotoluene	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dibromo-3-chloropropane	<10	<10	<10	<10	10
Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dibromoethane (EDB)	<5.0	<5.0	<5.0	<5.0	5.0
Dibromomethane	<5.0	<5.0	<5.0	<5.0	5.0
1,3-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,4-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Dichlorodifluoromethane (R12)	<5.0	<5.0	<5.0	<5.0	5.0

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

Date Sampled:	03/07/2015	03/07/2015	03/07/2015	03/07/2015	
Date Prepared:	03/10/15	03/10/15	03/10/15	03/10/15	
Date Analyzed:	03/10/15	03/10/15	03/10/15	03/10/15	
AA ID No:	5C09028-17	5C09028-18	5C09028-19	5C09028-20	
Client ID No:	LB-5-2.5	LB-5-5	LB-5-10	LB-5-15	
Matrix:	Soil	Soil	Soil	Soil	
Dilution Factor:	1	1	1	1	MRL

### 8260B (EPA 8260B) (continued)

1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichloroethane (EDC)	<5.0	<5.0	<5.0	<5.0	5.0
1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
trans-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
cis-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
2,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,3-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,1-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
cis-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
trans-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
Ethylbenzene	<2.0	<2.0	<2.0	<2.0	2.0
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone (MBK)	<50	<50	<50	<50	50
Isopropylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
4-Isopropyltoluene	<5.0	<5.0	<5.0	<5.0	5.0
Methyl-tert-Butyl Ether (MTBE)	<5.0	<5.0	<5.0	<5.0	5.0
Methylene Chloride	<50	<50	<50	<50	50
4-Methyl-2-pentanone (MIBK)	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
n-Propylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Styrene	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Tetrachloroethylene (PCE)	<5.0	<5.0	<5.0	<5.0	5.0
Toluene	<2.0	<2.0	<2.0	<2.0	2.0
1,2,4-Trichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

	03/07/2015	03/07/2015	03/07/2015	03/07/2015	
<b>Date Sampled:</b>	03/07/2015	03/07/2015	03/07/2015	03/07/2015	
<b>Date Prepared:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>Date Analyzed:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>AA ID No:</b>	5C09028-17	5C09028-18	5C09028-19	5C09028-20	
<b>Client ID No:</b>	LB-5-2.5	LB-5-5	LB-5-10	LB-5-15	
<b>Matrix:</b>	Soil	Soil	Soil	Soil	
<b>Dilution Factor:</b>	1	1	1	1	MRL

### **8260B (EPA 8260B) (continued)**

1,2,3-Trichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Trichloroethylene (TCE)	<5.0	<5.0	<5.0	<5.0	5.0
Trichlorofluoromethane (R11)	<5.0	<5.0	<5.0	<5.0	5.0
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<5.0	<5.0	<5.0	<5.0	5.0
1,2,4-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,3,5-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Vinyl chloride	<5.0	<5.0	<5.0	<5.0	5.0
o-Xylene	<2.0	<2.0	<2.0	<2.0	2.0
m,p-Xylenes	<2.0	<2.0	<2.0	<2.0	2.0

### **Surrogates**

					<b>%REC Limits</b>
4-Bromofluorobenzene	126%	121%	122%	119%	70-140
Dibromofluoromethane	124%	121%	124%	123%	70-140
Toluene-d8	105%	104%	105%	105%	70-140

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

Date Sampled:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/10/15	03/10/15	03/10/15	03/10/15	
Date Analyzed:	03/10/15	03/10/15	03/10/15	03/10/15	
AA ID No:	5C09028-21	5C09028-22	5C09028-23	5C09028-24	
Client ID No:	LB-5-20	LB-6-2.5	LB-6-5	LB-6-10	
Matrix:	Soil	Soil	Soil	Soil	
Dilution Factor:	1	1	1	1	MRL

### 8260B (EPA 8260B)

Acetone	<50	<50	<50	<50	50
Benzene	<2.0	<2.0	<2.0	<2.0	2.0
Bromobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Bromochloromethane	<5.0	<5.0	<5.0	<5.0	5.0
Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	5.0
Bromoform	<5.0	<5.0	<5.0	<5.0	5.0
Bromomethane	<5.0	<5.0	<5.0	<5.0	5.0
2-Butanone (MEK)	<50	<50	<50	<50	50
sec-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
n-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
tert-Butylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Carbon Disulfide	<5.0	<5.0	<5.0	<5.0	5.0
Carbon Tetrachloride	<5.0	<5.0	<5.0	<5.0	5.0
Chlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Chloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Chloroform	<5.0	<5.0	<5.0	<5.0	5.0
Chloromethane	<5.0	<5.0	<5.0	<5.0	5.0
4-Chlorotoluene	<5.0	<5.0	<5.0	<5.0	5.0
2-Chlorotoluene	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dibromo-3-chloropropane	<10	<10	<10	<10	10
Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dibromoethane (EDB)	<5.0	<5.0	<5.0	<5.0	5.0
Dibromomethane	<5.0	<5.0	<5.0	<5.0	5.0
1,3-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,4-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
Dichlorodifluoromethane (R12)	<5.0	<5.0	<5.0	<5.0	5.0

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

Date Sampled:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/10/15	03/10/15	03/10/15	03/10/15	
Date Analyzed:	03/10/15	03/10/15	03/10/15	03/10/15	
AA ID No:	5C09028-21	5C09028-22	5C09028-23	5C09028-24	
Client ID No:	LB-5-20	LB-6-2.5	LB-6-5	LB-6-10	
Matrix:	Soil	Soil	Soil	Soil	
Dilution Factor:	1	1	1	1	MRL

### 8260B (EPA 8260B) (continued)

1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichloroethane (EDC)	<5.0	<5.0	<5.0	<5.0	5.0
1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
trans-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
cis-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	5.0
2,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,3-Dichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,1-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
cis-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
trans-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	5.0
Ethylbenzene	<2.0	<2.0	<2.0	<2.0	2.0
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone (MBK)	<50	<50	<50	<50	50
Isopropylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
4-Isopropyltoluene	<5.0	<5.0	<5.0	<5.0	5.0
Methyl-tert-Butyl Ether (MTBE)	<5.0	<5.0	<5.0	<5.0	5.0
Methylene Chloride	<50	<50	<50	<50	50
4-Methyl-2-pentanone (MIBK)	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
n-Propylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Styrene	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Tetrachloroethylene (PCE)	<5.0	<5.0	<5.0	<5.0	5.0
Toluene	<2.0	<2.0	<2.0	<2.0	2.0
1,2,4-Trichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>Date Analyzed:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>AA ID No:</b>	5C09028-21	5C09028-22	5C09028-23	5C09028-24	
<b>Client ID No:</b>	LB-5-20	LB-6-2.5	LB-6-5	LB-6-10	
<b>Matrix:</b>	Soil	Soil	Soil	Soil	
<b>Dilution Factor:</b>	1	1	1	1	MRL

### 8260B (EPA 8260B) (continued)

1,2,3-Trichlorobenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	5.0
Trichloroethylene (TCE)	<5.0	<5.0	<5.0	<5.0	5.0
Trichlorofluoromethane (R11)	<5.0	<5.0	<5.0	<5.0	5.0
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<5.0	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<5.0	<5.0	<5.0	<5.0	5.0
1,2,4-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
1,3,5-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	5.0
Vinyl chloride	<5.0	<5.0	<5.0	<5.0	5.0
o-Xylene	<2.0	<2.0	<2.0	<2.0	2.0
m,p-Xylenes	<2.0	<2.0	<2.0	<2.0	2.0

<u>Surrogates</u>					<u>%REC Limits</u>
4-Bromofluorobenzene	124%	126%	124%	124%	70-140
Dibromofluoromethane	124%	128%	128%	127%	70-140
Toluene-d8	106%	106%	107%	107%	70-140

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

<b>Date Sampled:</b>	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/10/15	03/10/15	
<b>Date Analyzed:</b>	03/10/15	03/10/15	
<b>AA ID No:</b>	5C09028-25	5C09028-26	
<b>Client ID No:</b>	LB-6-15	LB-6-20	
<b>Matrix:</b>	Soil	Soil	
<b>Dilution Factor:</b>	1	1	MRL

### 8260B (EPA 8260B)

Acetone	<50	<50	50
Benzene	<2.0	<2.0	2.0
Bromobenzene	<5.0	<5.0	5.0
Bromochloromethane	<5.0	<5.0	5.0
Bromodichloromethane	<5.0	<5.0	5.0
Bromoform	<5.0	<5.0	5.0
Bromomethane	<5.0	<5.0	5.0
2-Butanone (MEK)	<50	<50	50
sec-Butylbenzene	<5.0	<5.0	5.0
n-Butylbenzene	<5.0	<5.0	5.0
tert-Butylbenzene	<5.0	<5.0	5.0
Carbon Disulfide	<5.0	<5.0	5.0
Carbon Tetrachloride	<5.0	<5.0	5.0
Chlorobenzene	<5.0	<5.0	5.0
Chloroethane	<5.0	<5.0	5.0
Chloroform	<5.0	<5.0	5.0
Chloromethane	<5.0	<5.0	5.0
4-Chlorotoluene	<5.0	<5.0	5.0
2-Chlorotoluene	<5.0	<5.0	5.0
1,2-Dibromo-3-chloropropane	<10	<10	10
Dibromochloromethane	<5.0	<5.0	5.0
1,2-Dibromoethane (EDB)	<5.0	<5.0	5.0
Dibromomethane	<5.0	<5.0	5.0
1,3-Dichlorobenzene	<5.0	<5.0	5.0
1,2-Dichlorobenzene	<5.0	<5.0	5.0
1,4-Dichlorobenzene	<5.0	<5.0	5.0
Dichlorodifluoromethane (R12)	<5.0	<5.0	5.0

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

<b>Date Sampled:</b>	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/10/15	03/10/15	
<b>Date Analyzed:</b>	03/10/15	03/10/15	
<b>AA ID No:</b>	5C09028-25	5C09028-26	
<b>Client ID No:</b>	LB-6-15	LB-6-20	
<b>Matrix:</b>	Soil	Soil	
<b>Dilution Factor:</b>	1	1	MRL

### **8260B (EPA 8260B) (continued)**

1,1-Dichloroethane	<5.0	<5.0	5.0
1,2-Dichloroethane (EDC)	<5.0	<5.0	5.0
1,1-Dichloroethylene	<5.0	<5.0	5.0
trans-1,2-Dichloroethylene	<5.0	<5.0	5.0
cis-1,2-Dichloroethylene	<5.0	<5.0	5.0
2,2-Dichloropropane	<5.0	<5.0	5.0
1,2-Dichloropropane	<5.0	<5.0	5.0
1,3-Dichloropropane	<5.0	<5.0	5.0
1,1-Dichloropropylene	<5.0	<5.0	5.0
cis-1,3-Dichloropropylene	<5.0	<5.0	5.0
trans-1,3-Dichloropropylene	<5.0	<5.0	5.0
Ethylbenzene	<2.0	<2.0	2.0
Hexachlorobutadiene	<10	<10	10
2-Hexanone (MBK)	<50	<50	50
Isopropylbenzene	<5.0	<5.0	5.0
4-Isopropyltoluene	<5.0	<5.0	5.0
Methyl-tert-Butyl Ether (MTBE)	<5.0	<5.0	5.0
Methylene Chloride	<50	<50	50
4-Methyl-2-pentanone (MIBK)	<50	<50	50
Naphthalene	<10	<10	10
n-Propylbenzene	<5.0	<5.0	5.0
Styrene	<5.0	<5.0	5.0
1,1,2,2-Tetrachloroethane	<5.0	<5.0	5.0
1,1,1,2-Tetrachloroethane	<5.0	<5.0	5.0
Tetrachloroethylene (PCE)	<5.0	<5.0	5.0
Toluene	<2.0	<2.0	2.0
1,2,4-Trichlorobenzene	<5.0	<5.0	5.0

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager





## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs by GC/MS

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** ug/kg

<b>Date Sampled:</b>	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/10/15	03/10/15	
<b>Date Analyzed:</b>	03/10/15	03/10/15	
<b>AA ID No:</b>	5C09028-25	5C09028-26	
<b>Client ID No:</b>	LB-6-15	LB-6-20	
<b>Matrix:</b>	Soil	Soil	
<b>Dilution Factor:</b>	1	1	MRL

### **8260B (EPA 8260B) (continued)**

1,2,3-Trichlorobenzene	<5.0	<5.0	5.0
1,1,2-Trichloroethane	<5.0	<5.0	5.0
1,1,1-Trichloroethane	<5.0	<5.0	5.0
Trichloroethylene (TCE)	<5.0	<5.0	5.0
Trichlorofluoromethane (R11)	<5.0	<5.0	5.0
1,2,3-Trichloropropane	<5.0	<5.0	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<5.0	<5.0	5.0
1,2,4-Trimethylbenzene	<5.0	<5.0	5.0
1,3,5-Trimethylbenzene	<5.0	<5.0	5.0
Vinyl chloride	<5.0	<5.0	5.0
o-Xylene	<2.0	<2.0	2.0
m,p-Xylenes	<2.0	<2.0	2.0

<b>Surrogates</b>			<b>%REC Limits</b>
4-Bromofluorobenzene	125%	127%	70-140
Dibromofluoromethane	128%	130%	70-140
Toluene-d8	107%	108%	70-140

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** Carbon Chain by GC/FID

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** mg/kg

<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15
<b>Date Prepared:</b>	03/09/15	03/09/15	03/09/15	03/09/15
<b>Date Analyzed:</b>	03/09/15	03/09/15	03/09/15	03/09/15
<b>AA ID No:</b>	5C09028-01	5C09028-02	5C09028-03	5C09028-04
<b>Client ID No:</b>	LB-1-5	LB-1-10	LB-1-15	LB-1-20
<b>Matrix:</b>	Soil	Soil	Soil	Soil
<b>Dilution Factor:</b>	1	1	1	1

MRL

### Carbon Chain Characterization 8015M (EPA 8015M)

C6-C8	<1.0	<1.0	<1.0	<1.0	1.0
C8-C10	<1.0	<1.0	<1.0	<1.0	1.0
C10-C12	<1.0	<1.0	<1.0	<1.0	1.0
C12-C14	<1.0	<1.0	<1.0	<1.0	1.0
C14-C16	<1.0	<1.0	<1.0	<1.0	1.0
C16-C18	<1.0	<1.0	<1.0	<1.0	1.0
C18-C20	<1.0	<1.0	<1.0	<1.0	1.0
C20-C22	<1.0	<1.0	<1.0	<1.0	1.0
C22-C24	<1.0	<1.0	<1.0	<1.0	1.0
C24-C26	<1.0	<1.0	<1.0	<1.0	1.0
C26-C28	<1.0	<1.0	<1.0	<1.0	1.0
C28-C32	<1.0	<1.0	<1.0	<1.0	1.0
C32-C34	<1.0	<1.0	<1.0	<1.0	1.0
C34-C36	<1.0	<1.0	<1.0	<1.0	1.0
C36-C40	<1.0	<1.0	<1.0	<1.0	1.0
C40-C44	<1.0	<1.0	<1.0	<1.0	1.0
TPH (C6-C44)	<10	<10	<10	<10	10

### Surrogates

o-Terphenyl	90%	96%	104%	107%	<b>%REC Limits</b> 50-150
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*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** Carbon Chain by GC/FID

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** mg/kg

<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15
<b>Date Prepared:</b>	03/09/15	03/09/15	03/09/15	03/09/15
<b>Date Analyzed:</b>	03/09/15	03/09/15	03/09/15	03/10/15
<b>AA ID No:</b>	5C09028-05	5C09028-06	5C09028-07	5C09028-08
<b>Client ID No:</b>	LB-2-5	LB-2-10	LB-2-15	LB-2-20
<b>Matrix:</b>	Soil	Soil	Soil	Soil
<b>Dilution Factor:</b>	1	1	1	1

MRL

### Carbon Chain Characterization 8015M (EPA 8015M)

C6-C8	<1.0	<1.0	<1.0	<1.0	1.0
C8-C10	<1.0	<1.0	<1.0	<1.0	1.0
C10-C12	<1.0	<1.0	<1.0	<1.0	1.0
C12-C14	<1.0	<1.0	<1.0	<1.0	1.0
C14-C16	<1.0	<1.0	<1.0	<1.0	1.0
C16-C18	<1.0	<1.0	<1.0	<1.0	1.0
C18-C20	<1.0	<1.0	<1.0	<1.0	1.0
C20-C22	<1.0	<1.0	<1.0	<1.0	1.0
C22-C24	<1.0	<1.0	<1.0	<1.0	1.0
C24-C26	<1.0	<1.0	<1.0	<1.0	1.0
C26-C28	<1.0	<1.0	<1.0	<1.0	1.0
C28-C32	<1.0	<1.0	<1.0	<1.0	1.0
C32-C34	<1.0	<1.0	<1.0	<1.0	1.0
C34-C36	<1.0	<1.0	<1.0	<1.0	1.0
C36-C40	<1.0	<1.0	<1.0	<1.0	1.0
C40-C44	<1.0	<1.0	<1.0	<1.0	1.0
TPH (C6-C44)	<10	<10	<10	<10	10

### Surrogates

o-Terphenyl	101%	102%	103%	99%	<b>%REC Limits</b> 50-150
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*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** Carbon Chain by GC/FID

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** mg/kg

<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15
<b>Date Prepared:</b>	03/09/15	03/09/15	03/09/15	03/09/15
<b>Date Analyzed:</b>	03/10/15	03/10/15	03/10/15	03/10/15
<b>AA ID No:</b>	5C09028-09	5C09028-10	5C09028-11	5C09028-12
<b>Client ID No:</b>	LB-3-5	LB-3-10	LB-3-15	LB-3-20
<b>Matrix:</b>	Soil	Soil	Soil	Soil
<b>Dilution Factor:</b>	1	1	1	1

MRL

### Carbon Chain Characterization 8015M (EPA 8015M)

C6-C8	<1.0	<1.0	<1.0	<1.0	1.0
C8-C10	<1.0	<1.0	<1.0	<1.0	1.0
C10-C12	<1.0	<1.0	<1.0	<1.0	1.0
C12-C14	<1.0	<1.0	<1.0	<1.0	1.0
C14-C16	<1.0	<1.0	<1.0	<1.0	1.0
C16-C18	<1.0	<1.0	<1.0	<1.0	1.0
C18-C20	<1.0	<1.0	<1.0	<1.0	1.0
C20-C22	<1.0	<1.0	<1.0	<1.0	1.0
C22-C24	<1.0	<1.0	<1.0	<1.0	1.0
C24-C26	<1.0	<1.0	<1.0	<1.0	1.0
C26-C28	<1.0	<1.0	<1.0	<1.0	1.0
C28-C32	<1.0	<1.0	<1.0	<1.0	1.0
C32-C34	<1.0	<1.0	<1.0	<1.0	1.0
C34-C36	<1.0	<1.0	<1.0	<1.0	1.0
C36-C40	<1.0	<1.0	<1.0	<1.0	1.0
C40-C44	<1.0	<1.0	<1.0	<1.0	1.0
TPH (C6-C44)	<10	<10	<10	<10	10

### Surrogates

o-Terphenyl	98%	100%	99%	100%	<b>%REC Limits</b> 50-150
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*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** Carbon Chain by GC/FID

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** mg/kg

<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15
<b>Date Prepared:</b>	03/09/15	03/09/15	03/09/15	03/09/15
<b>Date Analyzed:</b>	03/10/15	03/10/15	03/10/15	03/10/15
<b>AA ID No:</b>	5C09028-13	5C09028-14	5C09028-15	5C09028-16
<b>Client ID No:</b>	LB-4-5	LB-4-10	LB-4-15	LB-4-20
<b>Matrix:</b>	Soil	Soil	Soil	Soil
<b>Dilution Factor:</b>	1	1	1	1

MRL

### Carbon Chain Characterization 8015M (EPA 8015M)

C6-C8	<1.0	<1.0	<1.0	<1.0	1.0
C8-C10	<1.0	<1.0	<1.0	<1.0	1.0
C10-C12	<1.0	<1.0	<1.0	<1.0	1.0
C12-C14	<1.0	<1.0	<1.0	<1.0	1.0
C14-C16	<1.0	<1.0	<1.0	<1.0	1.0
C16-C18	<1.0	<1.0	<1.0	<1.0	1.0
C18-C20	<1.0	<1.0	<1.0	<1.0	1.0
C20-C22	<1.0	<1.0	<1.0	<1.0	1.0
C22-C24	<1.0	<1.0	<1.0	<1.0	1.0
C24-C26	<1.0	<1.0	<1.0	<1.0	1.0
C26-C28	<1.0	<1.0	<1.0	<1.0	1.0
C28-C32	<1.0	<1.0	<1.0	<1.0	1.0
C32-C34	<1.0	<1.0	<1.0	<1.0	1.0
C34-C36	<1.0	<1.0	<1.0	<1.0	1.0
C36-C40	<1.0	<1.0	<1.0	<1.0	1.0
C40-C44	<1.0	<1.0	<1.0	<1.0	1.0
TPH (C6-C44)	<10	<10	<10	<10	10

### Surrogates

o-Terphenyl	100%	101%	101%	99%	<u>%REC Limits</u> 50-150
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*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** Carbon Chain by GC/FID

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** mg/kg

	03/07/2015	03/07/2015	03/07/2015	03/07/2015	
<b>Date Sampled:</b>	03/07/2015	03/07/2015	03/07/2015	03/07/2015	
<b>Date Prepared:</b>	03/09/15	03/09/15	03/09/15	03/09/15	
<b>Date Analyzed:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>AA ID No:</b>	5C09028-17	5C09028-18	5C09028-19	5C09028-20	
<b>Client ID No:</b>	LB-5-2.5	LB-5-5	LB-5-10	LB-5-15	
<b>Matrix:</b>	Soil	Soil	Soil	Soil	
<b>Dilution Factor:</b>	1	1	1	1	MRL

### Carbon Chain Characterization 8015M (EPA 8015M)

C6-C8	<1.0	<1.0	<1.0	<1.0	1.0
C8-C10	<1.0	<1.0	<1.0	<1.0	1.0
C10-C12	<1.0	<1.0	<1.0	<1.0	1.0
C12-C14	<1.0	<1.0	<1.0	<1.0	1.0
C14-C16	<1.0	<1.0	<1.0	<1.0	1.0
C16-C18	<1.0	<1.0	<1.0	<1.0	1.0
C18-C20	<1.0	<1.0	<1.0	<1.0	1.0
C20-C22	<b>3.8</b>	<1.0	<1.0	<1.0	1.0
C22-C24	<b>2.7</b>	<1.0	<1.0	<1.0	1.0
C24-C26	<b>4.8</b>	<1.0	<1.0	<1.0	1.0
C26-C28	<b>6.9</b>	<b>2.5</b>	<1.0	<1.0	1.0
C28-C32	<b>18</b>	<b>8.4</b>	<1.0	<1.0	1.0
C32-C34	<b>7.6</b>	<b>3.5</b>	<1.0	<1.0	1.0
C34-C36	<b>5.7</b>	<b>3.3</b>	<1.0	<1.0	1.0
C36-C40	<b>8.2</b>	<b>4.8</b>	<1.0	<1.0	1.0
C40-C44	<b>4.1</b>	<b>2.1</b>	<1.0	<1.0	1.0
TPH (C6-C44)	<b>62</b>	<b>25</b>	<10	<10	10

<u>Surrogates</u>					<u>%REC Limits</u>
o-Terphenyl	99%	101%	98%	100%	50-150

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** Carbon Chain by GC/FID

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** mg/kg

	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/09/15	03/09/15	03/09/15	03/09/15	
<b>Date Analyzed:</b>	03/10/15	03/10/15	03/10/15	03/10/15	
<b>AA ID No:</b>	5C09028-21	5C09028-22	5C09028-23	5C09028-24	
<b>Client ID No:</b>	LB-5-20	LB-6-2.5	LB-6-5	LB-6-10	
<b>Matrix:</b>	Soil	Soil	Soil	Soil	
<b>Dilution Factor:</b>	1	1	1	1	MRL

### Carbon Chain Characterization 8015M (EPA 8015M)

C6-C8	<1.0	<1.0	<1.0	<1.0	1.0
C8-C10	<1.0	<1.0	<1.0	<1.0	1.0
C10-C12	<1.0	<1.0	<1.0	<1.0	1.0
C12-C14	<1.0	<1.0	<1.0	<1.0	1.0
C14-C16	<1.0	<1.0	<1.0	<1.0	1.0
C16-C18	<1.0	<1.0	<1.0	<1.0	1.0
C18-C20	<1.0	<1.0	<1.0	<1.0	1.0
C20-C22	<1.0	<b>1.6</b>	<1.0	<1.0	1.0
C22-C24	<1.0	<b>2.4</b>	<1.0	<1.0	1.0
C24-C26	<1.0	<b>3.7</b>	<1.0	<1.0	1.0
C26-C28	<1.0	<b>6.1</b>	<1.0	<1.0	1.0
C28-C32	<1.0	<b>18</b>	<1.0	<1.0	1.0
C32-C34	<1.0	<b>6.8</b>	<1.0	<1.0	1.0
C34-C36	<1.0	<b>7.6</b>	<1.0	<1.0	1.0
C36-C40	<1.0	<b>7.6</b>	<1.0	<1.0	1.0
C40-C44	<1.0	<b>6.4</b>	<1.0	<1.0	1.0
TPH (C6-C44)	<10	<b>60</b>	<10	<10	10

<u>Surrogates</u>					<u>%REC Limits</u>
o-Terphenyl	102%	110%	104%	103%	50-150

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** Carbon Chain by GC/FID

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** mg/kg

<b>Date Sampled:</b>	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/09/15	03/09/15	
<b>Date Analyzed:</b>	03/10/15	03/10/15	
<b>AA ID No:</b>	5C09028-25	5C09028-26	
<b>Client ID No:</b>	LB-6-15	LB-6-20	
<b>Matrix:</b>	Soil	Soil	
<b>Dilution Factor:</b>	1	1	MRL

### Carbon Chain Characterization 8015M (EPA 8015M)

C6-C8	<1.0	<1.0	1.0
C8-C10	<1.0	<1.0	1.0
C10-C12	<1.0	<1.0	1.0
C12-C14	<1.0	<1.0	1.0
C14-C16	<1.0	<1.0	1.0
C16-C18	<1.0	<1.0	1.0
C18-C20	<1.0	<1.0	1.0
C20-C22	<1.0	<1.0	1.0
C22-C24	<1.0	<1.0	1.0
C24-C26	<1.0	<1.0	1.0
C26-C28	<1.0	<1.0	1.0
C28-C32	<1.0	<1.0	1.0
C32-C34	<1.0	<1.0	1.0
C34-C36	<1.0	<1.0	1.0
C36-C40	<1.0	<1.0	1.0
C40-C44	<1.0	<1.0	1.0
TPH (C6-C44)	<10	<10	10

<b><u>Surrogates</u></b>			<b><u>%REC Limits</u></b>
o-Terphenyl	105%	106%	50-150

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager





## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** Total Metals CAM 17

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** mg/kg

Date Sampled:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/09/15	03/09/15	03/09/15	03/09/15	
Date Analyzed:	03/09/15	03/09/15	03/09/15	03/09/15	
AA ID No:	5C09028-01	5C09028-05	5C09028-09	5C09028-13	
Client ID No:	LB-1-5	LB-2-5	LB-3-5	LB-4-5	
Matrix:	Soil	Soil	Soil	Soil	
Dilution Factor:	1	1	1	1	MRL

### CAM Metals Less Hg 6000/7000 (EPA 6010B/7000)

Antimony	<10	<10	<10	<10	10
Arsenic	<0.50	<b>2.0</b>	<b>2.5</b>	<b>0.96</b>	0.50
Barium	<b>34</b>	<b>130</b>	<b>110</b>	<b>23</b>	10
Beryllium	<1.0	<1.0	<1.0	<1.0	1.0
Cadmium	<1.0	<1.0	<1.0	<1.0	1.0
Chromium	<b>4.4</b>	<b>17</b>	<b>15</b>	<3.0	3.0
Cobalt	<b>3.7</b>	<b>11</b>	<b>11</b>	<3.0	3.0
Copper	<b>5.3</b>	<b>19</b>	<b>20</b>	<b>3.6</b>	3.0
Lead	<3.0	<3.0	<3.0	<3.0	3.0
Molybdenum	<5.0	<5.0	<5.0	<5.0	5.0
Nickel	<3.0	<b>13</b>	<b>11</b>	<3.0	3.0
Selenium	<0.50	<0.50	<0.50	<0.50	0.50
Silver	<1.0	<1.0	<1.0	<1.0	1.0
Thallium	<5.0	<5.0	<5.0	<5.0	5.0
Vanadium	<b>16</b>	<b>41</b>	<b>43</b>	<b>10</b>	10
Zinc	<b>19</b>	<b>65</b>	<b>58</b>	<b>15</b>	3.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** Total Metals CAM 17

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** mg/kg

<b>Date Sampled:</b>	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/09/15	03/09/15	
<b>Date Analyzed:</b>	03/09/15	03/09/15	
<b>AA ID No:</b>	5C09028-17	5C09028-22	
<b>Client ID No:</b>	LB-5-2.5	LB-6-2.5	
<b>Matrix:</b>	Soil	Soil	
<b>Dilution Factor:</b>	1	1	MRL

### CAM Metals Less Hg 6000/7000 (EPA 6010B/7000)

Antimony	<10	<10	10
Arsenic	<b>1.2</b>	<b>4.2</b>	0.50
Barium	<b>88</b>	<b>120</b>	10
Beryllium	<1.0	<1.0	1.0
Cadmium	<1.0	<1.0	1.0
Chromium	<b>12</b>	<b>18</b>	3.0
Cobalt	<b>6.9</b>	<b>6.5</b>	3.0
Copper	<b>15</b>	<b>28</b>	3.0
Lead	<b>13</b>	<b>42</b>	3.0
Molybdenum	<5.0	<5.0	5.0
Nickel	<b>8.0</b>	<b>10</b>	3.0
Selenium	<0.50	<0.50	0.50
Silver	<1.0	<1.0	1.0
Thallium	<5.0	<5.0	5.0
Vanadium	<b>32</b>	<b>41</b>	10
Zinc	<b>61</b>	<b>140</b>	3.0

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



### LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** Total Metals CAM 17

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** mg/kg

<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/09/15	03/09/15	03/09/15	03/09/15	
<b>Date Analyzed:</b>	03/09/15	03/09/15	03/09/15	03/09/15	
<b>AA ID No:</b>	5C09028-01	5C09028-05	5C09028-09	5C09028-13	
<b>Client ID No:</b>	LB-1-5	LB-2-5	LB-3-5	LB-4-5	
<b>Matrix:</b>	Soil	Soil	Soil	Soil	
<b>Dilution Factor:</b>	1	1	1	1	MRL

**Mercury Total EPA 7470A/7471A (EPA 7471A)**

Mercury	<b>0.050</b>	<b>0.058</b>	<b>0.082</b>	<b>0.11</b>	0.020
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*Eydie Schwartz*

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**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** Total Metals CAM 17

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15  
**Units:** mg/kg

<b>Date Sampled:</b>	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/09/15	03/09/15	
<b>Date Analyzed:</b>	03/09/15	03/09/15	
<b>AA ID No:</b>	5C09028-17	5C09028-22	
<b>Client ID No:</b>	LB-5-2.5	LB-6-2.5	
<b>Matrix:</b>	Soil	Soil	
<b>Dilution Factor:</b>	1	1	MRL

### Mercury Total EPA 7470A/7471A (EPA 7471A)

Mercury	<b>0.073</b>	<b>0.12</b>	0.020
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*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>PAHs SIM by EPA 8270C - Quality Control</b>										
<i>Batch B5C1002 - EPA 3545 MS</i>										
<b>Blank (B5C1002-BLK1)</b>				Prepared: 03/10/15 Analyzed: 03/11/15						
Acenaphthene	<0.010	0.010	mg/kg							
Acenaphthylene	<0.010	0.010	mg/kg							
Anthracene	<0.010	0.010	mg/kg							
Benzo(a)anthracene	<0.010	0.010	mg/kg							
Benzo(a)pyrene	<0.010	0.010	mg/kg							
Benzo(b)fluoranthene	<0.010	0.010	mg/kg							
Benzo(g,h,i)perylene	<0.010	0.010	mg/kg							
Benzo(k)fluoranthene	<0.010	0.010	mg/kg							
Chrysene	<0.010	0.010	mg/kg							
Dibenzo(a,h)anthracene	<0.010	0.010	mg/kg							
Fluoranthene	<0.010	0.010	mg/kg							
Fluorene	<0.010	0.010	mg/kg							
Indeno (1,2,3-cd) pyrene	<0.040	0.040	mg/kg							
Naphthalene	<0.010	0.010	mg/kg							
Phenanthrene	<0.010	0.010	mg/kg							
Pyrene	<0.010	0.010	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.0206</i>		<i>mg/kg</i>	<i>0.040</i>		<i>51.5</i>	<i>43-116</i>			
<i>Surrogate: Terphenyl-d14</i>	<i>0.0304</i>		<i>mg/kg</i>	<i>0.040</i>		<i>76.0</i>	<i>33-141</i>			
<b>LCS (B5C1002-BS1)</b>				Prepared: 03/10/15 Analyzed: 03/11/15						
Acenaphthene	<b>0.0234</b>	0.010	mg/kg	0.040		58.5	30-140			
Acenaphthylene	<b>0.0272</b>	0.010	mg/kg	0.040		68.0	30-140			
Anthracene	<b>0.0402</b>	0.010	mg/kg	0.040		100	30-140			
Benzo(a)anthracene	<b>0.0352</b>	0.010	mg/kg	0.040		88.0	30-140			
Benzo(a)pyrene	<b>0.0406</b>	0.010	mg/kg	0.040		102	30-140			
Benzo(b)fluoranthene	<b>0.0356</b>	0.010	mg/kg	0.040		89.0	30-140			
Benzo(g,h,i)perylene	<b>0.0356</b>	0.010	mg/kg	0.040		89.0	30-140			
Benzo(k)fluoranthene	<b>0.0386</b>	0.010	mg/kg	0.040		96.5	30-140			
Chrysene	<b>0.0516</b>	0.010	mg/kg	0.040		129	30-140			
Dibenzo(a,h)anthracene	<b>0.0444</b>	0.010	mg/kg	0.040		111	30-140			
Fluoranthene	<b>0.0430</b>	0.010	mg/kg	0.040		108	30-140			
Fluorene	<b>0.0320</b>	0.010	mg/kg	0.040		80.0	30-140			

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>PAHs SIM by EPA 8270C - Quality Control</b>										
<i>Batch B5C1002 - EPA 3545 MS</i>										
<b>LCS (B5C1002-BS1) Continued</b>										
					Prepared: 03/10/15 Analyzed: 03/11/15					
Indeno (1,2,3-cd) pyrene	<b>0.0584</b>	0.040	mg/kg	0.040		146	30-140			AA-C1
Naphthalene	<b>0.0266</b>	0.010	mg/kg	0.040		66.5	30-140			
Phenanthrene	<b>0.0384</b>	0.010	mg/kg	0.040		96.0	30-140			
Pyrene	<b>0.0320</b>	0.010	mg/kg	0.040		80.0	30-140			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.0218</i>		<i>mg/kg</i>	<i>0.040</i>		<i>54.5</i>	<i>43-116</i>			
<i>Surrogate: Terphenyl-dl4</i>	<i>0.0308</i>		<i>mg/kg</i>	<i>0.040</i>		<i>77.0</i>	<i>33-141</i>			
<b>LCS Dup (B5C1002-BSD1)</b>										
					Prepared: 03/10/15 Analyzed: 03/11/15					
Acenaphthene	<b>0.0242</b>	0.010	mg/kg	0.040		60.5	30-140	3.36	40	
Acenaphthylene	<b>0.0286</b>	0.010	mg/kg	0.040		71.5	30-140	5.02	40	
Anthracene	<b>0.0428</b>	0.010	mg/kg	0.040		107	30-140	6.27	40	
Benzo(a)anthracene	<b>0.0360</b>	0.010	mg/kg	0.040		90.0	30-140	2.25	40	
Benzo(a)pyrene	<b>0.0420</b>	0.010	mg/kg	0.040		105	30-140	3.39	40	
Benzo(b)fluoranthene	<b>0.0360</b>	0.010	mg/kg	0.040		90.0	30-140	1.12	40	
Benzo(g,h,i)perylene	<b>0.0380</b>	0.010	mg/kg	0.040		95.0	30-140	6.52	40	
Benzo(k)fluoranthene	<b>0.0360</b>	0.010	mg/kg	0.040		90.0	30-140	6.97	40	
Chrysene	<b>0.0544</b>	0.010	mg/kg	0.040		136	30-140	5.28	40	
Dibenzo(a,h)anthracene	<b>0.0466</b>	0.010	mg/kg	0.040		116	30-140	4.84	40	
Fluoranthene	<b>0.0438</b>	0.010	mg/kg	0.040		110	30-140	1.84	40	
Fluorene	<b>0.0336</b>	0.010	mg/kg	0.040		84.0	30-140	4.88	40	
Indeno (1,2,3-cd) pyrene	<b>0.0542</b>	0.040	mg/kg	0.040		136	30-140	7.46	40	
Naphthalene	<b>0.0264</b>	0.010	mg/kg	0.040		66.0	30-140	0.755	40	
Phenanthrene	<b>0.0406</b>	0.010	mg/kg	0.040		102	30-140	5.57	40	
Pyrene	<b>0.0350</b>	0.010	mg/kg	0.040		87.5	30-140	8.96	40	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.0206</i>		<i>mg/kg</i>	<i>0.040</i>		<i>51.5</i>	<i>43-116</i>			
<i>Surrogate: Terphenyl-dl4</i>	<i>0.0314</i>		<i>mg/kg</i>	<i>0.040</i>		<i>78.5</i>	<i>33-141</i>			
<i>Batch B5C1202 - EPA 3545 MS</i>										
<b>Blank (B5C1202-BLK1)</b>										
					Prepared: 03/12/15 Analyzed: 03/13/15					
Acenaphthene	<0.010	0.010	mg/kg							
Acenaphthylene	<0.010	0.010	mg/kg							
Anthracene	<0.010	0.010	mg/kg							
Benzo(a)anthracene	<0.010	0.010	mg/kg							

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

Client: Leighton & Associates, Inc.. [SC]  
 Project No: NA  
 Project Name: 6th and Alameda

AA Project No: A93102  
 Date Received: 03/09/15  
 Date Reported: 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>PAHs SIM by EPA 8270C - Quality Control</b>										
<i>Batch B5C1202 - EPA 3545 MS</i>										
<b>Blank (B5C1202-BLK1) Continued</b>										
					Prepared: 03/12/15 Analyzed: 03/13/15					
Benzo(a)pyrene	<0.010	0.010	mg/kg							
Benzo(b)fluoranthene	<0.010	0.010	mg/kg							
Benzo(g,h,i)perylene	<0.010	0.010	mg/kg							
Benzo(k)fluoranthene	<0.010	0.010	mg/kg							
Chrysene	<0.010	0.010	mg/kg							
Dibenzo(a,h)anthracene	<0.010	0.010	mg/kg							
Fluoranthene	<0.010	0.010	mg/kg							
Fluorene	<0.010	0.010	mg/kg							
Indeno (1,2,3-cd) pyrene	<0.040	0.040	mg/kg							
Naphthalene	<0.010	0.010	mg/kg							
Phenanthrene	<0.010	0.010	mg/kg							
Pyrene	<0.010	0.010	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.0228</i>		<i>mg/kg</i>	<i>0.040</i>		<i>57.0</i>	<i>43-116</i>			
<i>Surrogate: Terphenyl-d14</i>	<i>0.0316</i>		<i>mg/kg</i>	<i>0.040</i>		<i>79.0</i>	<i>33-141</i>			
<b>LCS (B5C1202-BS1)</b>										
					Prepared: 03/12/15 Analyzed: 03/13/15					
Acenaphthene	<b>0.0298</b>	0.010	mg/kg	0.040		74.5	30-140			
Acenaphthylene	<b>0.0306</b>	0.010	mg/kg	0.040		76.5	30-140			
Anthracene	<b>0.0310</b>	0.010	mg/kg	0.040		77.5	30-140			
Benzo(a)anthracene	<b>0.0382</b>	0.010	mg/kg	0.040		95.5	30-140			
Benzo(a)pyrene	<b>0.0372</b>	0.010	mg/kg	0.040		93.0	30-140			
Benzo(b)fluoranthene	<b>0.0458</b>	0.010	mg/kg	0.040		114	30-140			
Benzo(g,h,i)perylene	<b>0.0360</b>	0.010	mg/kg	0.040		90.0	30-140			
Benzo(k)fluoranthene	<b>0.0352</b>	0.010	mg/kg	0.040		88.0	30-140			
Chrysene	<b>0.0442</b>	0.010	mg/kg	0.040		110	30-140			
Dibenzo(a,h)anthracene	<b>0.0446</b>	0.010	mg/kg	0.040		112	30-140			
Fluoranthene	<b>0.0374</b>	0.010	mg/kg	0.040		93.5	30-140			
Fluorene	<b>0.0252</b>	0.010	mg/kg	0.040		63.0	30-140			
Indeno (1,2,3-cd) pyrene	<b>0.0590</b>	0.040	mg/kg	0.040		148	30-140			AA-C1
Naphthalene	<b>0.0292</b>	0.010	mg/kg	0.040		73.0	30-140			
Phenanthrene	<b>0.0328</b>	0.010	mg/kg	0.040		82.0	30-140			
Pyrene	<b>0.0318</b>	0.010	mg/kg	0.040		79.5	30-140			

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>PAHs SIM by EPA 8270C - Quality Control</b>										
<i>Batch B5C1202 - EPA 3545 MS</i>										
<b>LCS (B5C1202-BS1) Continued</b>										
Prepared: 03/12/15 Analyzed: 03/13/15										
<i>Surrogate: 2-Fluorobiphenyl</i>	0.0182		mg/kg	0.040		45.5	43-116			
<i>Surrogate: Terphenyl-dl4</i>	0.0312		mg/kg	0.040		78.0	33-141			
<b>LCS Dup (B5C1202-BSD1)</b>										
Prepared: 03/12/15 Analyzed: 03/13/15										
Acenaphthene	<b>0.0360</b>	0.010	mg/kg	0.040		90.0	30-140	18.8	40	
Acenaphthylene	<b>0.0366</b>	0.010	mg/kg	0.040		91.5	30-140	17.9	40	
Anthracene	<b>0.0372</b>	0.010	mg/kg	0.040		93.0	30-140	18.2	40	
Benzo(a)anthracene	<b>0.0478</b>	0.010	mg/kg	0.040		120	30-140	22.3	40	
Benzo(a)pyrene	<b>0.0424</b>	0.010	mg/kg	0.040		106	30-140	13.1	40	
Benzo(b)fluoranthene	<b>0.0490</b>	0.010	mg/kg	0.040		122	30-140	6.75	40	
Benzo(g,h,i)perylene	<b>0.0398</b>	0.010	mg/kg	0.040		99.5	30-140	10.0	40	
Benzo(k)fluoranthene	<b>0.0284</b>	0.010	mg/kg	0.040		71.0	30-140	21.4	40	
Chrysene	<b>0.0552</b>	0.010	mg/kg	0.040		138	30-140	22.1	40	
Dibenzo(a,h)anthracene	<b>0.0468</b>	0.010	mg/kg	0.040		117	30-140	4.81	40	
Fluoranthene	<b>0.0416</b>	0.010	mg/kg	0.040		104	30-140	10.6	40	
Fluorene	<b>0.0318</b>	0.010	mg/kg	0.040		79.5	30-140	23.2	40	
Indeno (1,2,3-cd) pyrene	<b>0.0626</b>	0.040	mg/kg	0.040		156	30-140	5.92	40	
Naphthalene	<b>0.0332</b>	0.010	mg/kg	0.040		83.0	30-140	12.8	40	
Phenanthrene	<b>0.0366</b>	0.010	mg/kg	0.040		91.5	30-140	11.0	40	
Pyrene	<b>0.0404</b>	0.010	mg/kg	0.040		101	30-140	23.8	40	
<i>Surrogate: 2-Fluorobiphenyl</i>	0.0198		mg/kg	0.040		49.5	43-116			
<i>Surrogate: Terphenyl-dl4</i>	0.0360		mg/kg	0.040		90.0	33-141			
<b>VOCs by GC/MS - Quality Control</b>										
<i>Batch B5C1005 - EPA 5035</i>										
<b>Blank (B5C1005-BLK1)</b>										
Prepared & Analyzed: 03/10/15										
Acetone	<50	50	ug/kg							
Benzene	<2.0	2.0	ug/kg							
Bromobenzene	<5.0	5.0	ug/kg							
Bromochloromethane	<5.0	5.0	ug/kg							
Bromodichloromethane	<5.0	5.0	ug/kg							
Bromoform	<5.0	5.0	ug/kg							
Bromomethane	<5.0	5.0	ug/kg							

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager





## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs by GC/MS - Quality Control</b>										
<i>Batch B5C1005 - EPA 5035</i>										
<b>Blank (B5C1005-BLK1) Continued</b>										
Prepared & Analyzed: 03/10/15										
2-Butanone (MEK)	<50	50	ug/kg							
sec-Butylbenzene	<5.0	5.0	ug/kg							
n-Butylbenzene	<5.0	5.0	ug/kg							
tert-Butylbenzene	<5.0	5.0	ug/kg							
Carbon Disulfide	<5.0	5.0	ug/kg							
Carbon Tetrachloride	<5.0	5.0	ug/kg							
Chlorobenzene	<5.0	5.0	ug/kg							
Chloroethane	<5.0	5.0	ug/kg							
Chloroform	<5.0	5.0	ug/kg							
Chloromethane	<5.0	5.0	ug/kg							
4-Chlorotoluene	<5.0	5.0	ug/kg							
2-Chlorotoluene	<5.0	5.0	ug/kg							
1,2-Dibromo-3-chloropropane	<10	10	ug/kg							
Dibromochloromethane	<5.0	5.0	ug/kg							
1,2-Dibromoethane (EDB)	<5.0	5.0	ug/kg							
Dibromomethane	<5.0	5.0	ug/kg							
1,3-Dichlorobenzene	<5.0	5.0	ug/kg							
1,2-Dichlorobenzene	<5.0	5.0	ug/kg							
1,4-Dichlorobenzene	<5.0	5.0	ug/kg							
Dichlorodifluoromethane (R12)	<5.0	5.0	ug/kg							
1,1-Dichloroethane	<5.0	5.0	ug/kg							
1,2-Dichloroethane (EDC)	<5.0	5.0	ug/kg							
1,1-Dichloroethylene	<5.0	5.0	ug/kg							
trans-1,2-Dichloroethylene	<5.0	5.0	ug/kg							
cis-1,2-Dichloroethylene	<5.0	5.0	ug/kg							
2,2-Dichloropropane	<5.0	5.0	ug/kg							
1,2-Dichloropropane	<5.0	5.0	ug/kg							
1,3-Dichloropropane	<5.0	5.0	ug/kg							
1,1-Dichloropropylene	<5.0	5.0	ug/kg							
cis-1,3-Dichloropropylene	<5.0	5.0	ug/kg							
trans-1,3-Dichloropropylene	<5.0	5.0	ug/kg							
Ethylbenzene	<2.0	2.0	ug/kg							

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs by GC/MS - Quality Control</b>										
<i>Batch B5C1005 - EPA 5035</i>										
<b>Blank (B5C1005-BLK1) Continued</b>										
Prepared & Analyzed: 03/10/15										
Hexachlorobutadiene	<10	10	ug/kg							
2-Hexanone (MBK)	<50	50	ug/kg							
Isopropylbenzene	<5.0	5.0	ug/kg							
4-Isopropyltoluene	<5.0	5.0	ug/kg							
Methyl-tert-Butyl Ether (MTBE)	<5.0	5.0	ug/kg							
Methylene Chloride	<50	50	ug/kg							
4-Methyl-2-pentanone (MIBK)	<50	50	ug/kg							
Naphthalene	<10	10	ug/kg							
n-Propylbenzene	<5.0	5.0	ug/kg							
Styrene	<5.0	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	<5.0	5.0	ug/kg							
1,1,1,2-Tetrachloroethane	<5.0	5.0	ug/kg							
Tetrachloroethylene (PCE)	<5.0	5.0	ug/kg							
Toluene	<2.0	2.0	ug/kg							
1,2,4-Trichlorobenzene	<5.0	5.0	ug/kg							
1,2,3-Trichlorobenzene	<5.0	5.0	ug/kg							
1,1,2-Trichloroethane	<5.0	5.0	ug/kg							
1,1,1-Trichloroethane	<5.0	5.0	ug/kg							
Trichloroethylene (TCE)	<5.0	5.0	ug/kg							
Trichlorofluoromethane (R11)	<5.0	5.0	ug/kg							
1,2,3-Trichloropropane	<5.0	5.0	ug/kg							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<5.0	5.0	ug/kg							
1,2,4-Trimethylbenzene	<5.0	5.0	ug/kg							
1,3,5-Trimethylbenzene	<5.0	5.0	ug/kg							
Vinyl chloride	<5.0	5.0	ug/kg							
o-Xylene	<2.0	2.0	ug/kg							
m,p-Xylenes	<2.0	2.0	ug/kg							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>115</i>		<i>ug/kg</i>	<i>100</i>		<i>115</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>114</i>		<i>ug/kg</i>	<i>100</i>		<i>114</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>101</i>		<i>ug/kg</i>	<i>100</i>		<i>101</i>	<i>70-140</i>			

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs by GC/MS - Quality Control</b>										
<i>Batch B5C1005 - EPA 5035</i>										
<b>LCS (B5C1005-BS1)</b>										
Prepared & Analyzed: 03/10/15										
Benzene	38.1	2.0	ug/kg	40		95.4	75-125			
Bromodichloromethane	37.0	5.0	ug/kg	40		92.4	75-125			
Bromoform	44.2	5.0	ug/kg	40		111	75-125			
Carbon Tetrachloride	34.4	5.0	ug/kg	40		86.0	75-125			
Chlorobenzene	39.4	5.0	ug/kg	40		98.4	75-125			
Chloroethane	32.7	5.0	ug/kg	40		81.8	75-125			
Chloroform	35.9	5.0	ug/kg	40		89.8	75-125			
Chloromethane	36.0	5.0	ug/kg	40		90.0	65-125			
Dibromochloromethane	38.2	5.0	ug/kg	40		95.4	75-125			
1,4-Dichlorobenzene	39.2	5.0	ug/kg	40		98.0	75-125			
1,1-Dichloroethane	36.7	5.0	ug/kg	40		91.6	70-125			
1,2-Dichloroethane (EDC)	34.2	5.0	ug/kg	40		85.6	75-125			
1,1-Dichloroethylene	37.9	5.0	ug/kg	40		94.6	70-130			
trans-1,2-Dichloroethylene	39.4	5.0	ug/kg	40		98.5	75-125			
cis-1,2-Dichloroethylene	38.9	5.0	ug/kg	40		97.2	75-125			
1,2-Dichloropropane	42.8	5.0	ug/kg	40		107	75-130			
cis-1,3-Dichloropropylene	40.4	5.0	ug/kg	40		101	75-125			
Ethylbenzene	40.2	2.0	ug/kg	40		101	75-125			
Methyl-tert-Butyl Ether (MTBE)	35.2	5.0	ug/kg	40		87.9	75-125			
Methylene Chloride	43.4	50	ug/kg	40		109	75-130			
1,1,2,2-Tetrachloroethane	41.4	5.0	ug/kg	40		103	70-135			
Tetrachloroethylene (PCE)	39.4	5.0	ug/kg	40		98.6	75-125			
Toluene	40.2	2.0	ug/kg	40		101	75-125			
1,1,2-Trichloroethane	40.7	5.0	ug/kg	40		102	75-125			
1,1,1-Trichloroethane	35.2	5.0	ug/kg	40		88.1	75-125			
Trichloroethylene (TCE)	38.4	5.0	ug/kg	40		96.1	75-125			
Vinyl chloride	32.4	5.0	ug/kg	40		81.1	75-125			
o-Xylene	40.0	2.0	ug/kg	40		100	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>99.1</i>		<i>ug/kg</i>	<i>100</i>		<i>99.1</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>96.4</i>		<i>ug/kg</i>	<i>100</i>		<i>96.4</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>97.8</i>		<i>ug/kg</i>	<i>100</i>		<i>97.8</i>	<i>70-140</i>			

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs by GC/MS - Quality Control</b>										
<i>Batch B5C1005 - EPA 5035</i>										
<b>LCS Dup (B5C1005-BSD1)</b>										
					Prepared & Analyzed: 03/10/15					
Benzene	43.1	2.0	ug/kg	40	108	75-125	12.2	30		
Bromodichloromethane	40.8	5.0	ug/kg	40	102	75-125	9.72	30		
Bromoform	41.8	5.0	ug/kg	40	105	75-125	5.58	30		
Carbon Tetrachloride	36.7	5.0	ug/kg	40	91.8	75-125	6.58	30		
Chlorobenzene	38.6	5.0	ug/kg	40	96.5	75-125	1.95	30		
Chloroethane	43.6	5.0	ug/kg	40	109	75-125	28.5	30		
Chloroform	39.4	5.0	ug/kg	40	98.4	75-125	9.08	30		
Chloromethane	39.5	5.0	ug/kg	40	98.6	65-125	9.23	30		
Dibromochloromethane	38.4	5.0	ug/kg	40	96.0	75-125	0.522	30		
1,4-Dichlorobenzene	39.3	5.0	ug/kg	40	98.2	75-125	0.255	30		
1,1-Dichloroethane	33.1	5.0	ug/kg	40	82.8	70-125	10.1	30		
1,2-Dichloroethane (EDC)	37.0	5.0	ug/kg	40	92.6	75-125	7.86	30		
1,1-Dichloroethylene	41.9	5.0	ug/kg	40	105	70-130	10.0	30		
trans-1,2-Dichloroethylene	41.1	5.0	ug/kg	40	103	75-125	4.22	30		
cis-1,2-Dichloroethylene	37.9	5.0	ug/kg	40	94.8	75-125	2.55	30		
1,2-Dichloropropane	48.4	5.0	ug/kg	40	121	75-130	12.2	30		
cis-1,3-Dichloropropylene	45.6	5.0	ug/kg	40	114	75-125	12.1	30		
Ethylbenzene	42.7	2.0	ug/kg	40	107	75-125	5.84	30		
Methyl-tert-Butyl Ether (MTBE)	40.0	5.0	ug/kg	40	99.9	75-125	12.8	30		
Methylene Chloride	44.6	50	ug/kg	40	112	75-130	2.68	30		
1,1,2,2-Tetrachloroethane	46.9	5.0	ug/kg	40	117	70-135	12.6	30		
Tetrachloroethylene (PCE)	37.0	5.0	ug/kg	40	92.6	75-125	6.28	30		
Toluene	41.3	2.0	ug/kg	40	103	75-125	2.75	30		
1,1,2-Trichloroethane	44.0	5.0	ug/kg	40	110	75-125	7.79	30		
1,1,1-Trichloroethane	37.0	5.0	ug/kg	40	92.4	75-125	4.76	30		
Trichloroethylene (TCE)	42.8	5.0	ug/kg	40	107	75-125	10.7	30		
Vinyl chloride	41.2	5.0	ug/kg	40	103	75-125	23.9	30		
o-Xylene	41.1	2.0	ug/kg	40	103	75-125	2.66	30		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>107</i>		<i>ug/kg</i>	<i>100</i>	<i>107</i>	<i>70-140</i>				
<i>Surrogate: Dibromofluoromethane</i>	<i>101</i>		<i>ug/kg</i>	<i>100</i>	<i>101</i>	<i>70-140</i>				
<i>Surrogate: Toluene-d8</i>	<i>102</i>		<i>ug/kg</i>	<i>100</i>	<i>102</i>	<i>70-140</i>				

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**VOCs by GC/MS - Quality Control**

Batch B5C1005 - EPA 5035

**Matrix Spike (B5C1005-MS1)**                      **Source: 5C09028-15** Prepared & Analyzed: 03/10/15

Benzene	49.3	2.0	ug/kg	40	<2.0	123	70-130			
Bromoform	46.1	5.0	ug/kg	40	<5.0	115	70-130			
Chlorobenzene	39.5	5.0	ug/kg	40	<5.0	98.8	70-130			
Chloroform	48.0	5.0	ug/kg	40	<5.0	120	70-130			
1,1-Dichloroethane	46.6	5.0	ug/kg	40	<5.0	116	70-130			
1,1-Dichloroethylene	48.2	5.0	ug/kg	40	<5.0	121	70-130			
cis-1,2-Dichloroethylene	48.0	5.0	ug/kg	40	<5.0	120	70-130			
1,2-Dichloropropane	59.0	5.0	ug/kg	40	<5.0	148	70-130			QM-07
Ethylbenzene	45.2	2.0	ug/kg	40	<2.0	113	70-130			
Methyl-tert-Butyl Ether (MTBE)	48.8	5.0	ug/kg	40	<5.0	122	70-130			
n-Propylbenzene	44.2	5.0	ug/kg	40	<5.0	110	70-130			
Tetrachloroethylene (PCE)	36.1	5.0	ug/kg	40	<5.0	90.4	70-130			
Toluene	42.4	2.0	ug/kg	40	<2.0	106	70-130			
1,1,1-Trichloroethane	44.3	5.0	ug/kg	40	<5.0	111	70-130			
Trichloroethylene (TCE)	48.3	5.0	ug/kg	40	<5.0	121	70-130			
1,3,5-Trimethylbenzene	41.6	5.0	ug/kg	40	<5.0	104	70-130			
Vinyl chloride	46.2	5.0	ug/kg	40	<5.0	116	70-130			

Surrogate: 4-Bromofluorobenzene	105		ug/kg	100		105	70-140			
Surrogate: Dibromofluoromethane	116		ug/kg	100		116	70-140			
Surrogate: Toluene-d8	104		ug/kg	100		104	70-140			

**Matrix Spike Dup (B5C1005-MSD1)**                      **Source: 5C09028-15** Prepared & Analyzed: 03/10/15

Benzene	45.4	2.0	ug/kg	40	<2.0	113	70-130	8.24	40	
Bromoform	44.9	5.0	ug/kg	40	<5.0	112	70-130	2.68	40	
Chlorobenzene	40.8	5.0	ug/kg	40	<5.0	102	70-130	3.14	40	
Chloroform	44.2	5.0	ug/kg	40	<5.0	110	70-130	8.29	40	
1,1-Dichloroethane	40.2	5.0	ug/kg	40	<5.0	100	70-130	14.7	40	
1,1-Dichloroethylene	45.3	5.0	ug/kg	40	<5.0	113	70-130	6.24	40	
cis-1,2-Dichloroethylene	45.1	5.0	ug/kg	40	<5.0	113	70-130	6.27	40	
1,2-Dichloropropane	52.4	5.0	ug/kg	40	<5.0	131	70-130	11.9	40	QM-07
Ethylbenzene	44.7	2.0	ug/kg	40	<2.0	112	70-130	1.16	40	
Methyl-tert-Butyl Ether (MTBE)	43.2	5.0	ug/kg	40	<5.0	108	70-130	12.2	40	

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs by GC/MS - Quality Control</b>										
<i>Batch B5C1005 - EPA 5035</i>										
<b>Matrix Spike Dup (B5C1005-MSD1) Source: 5C09028-15 Prepared &amp; Analyzed: 03/10/15</b>										
<b>Continued</b>										
n-Propylbenzene	44.9	5.0	ug/kg	40	<5.0	112	70-130	1.62	40	
Tetrachloroethylene (PCE)	38.6	5.0	ug/kg	40	<5.0	96.6	70-130	6.63	40	
Toluene	43.3	2.0	ug/kg	40	<2.0	108	70-130	2.29	40	
1,1,1-Trichloroethane	40.0	5.0	ug/kg	40	<5.0	99.9	70-130	10.3	40	
Trichloroethylene (TCE)	44.8	5.0	ug/kg	40	<5.0	112	70-130	7.43	40	
1,3,5-Trimethylbenzene	42.3	5.0	ug/kg	40	<5.0	106	70-130	1.81	40	
Vinyl chloride	42.5	5.0	ug/kg	40	<5.0	106	70-130	8.29	40	
<i>Surrogate: 4-Bromofluorobenzene</i>	106		ug/kg	100		106	70-140			
<i>Surrogate: Dibromofluoromethane</i>	108		ug/kg	100		108	70-140			
<i>Surrogate: Toluene-d8</i>	105		ug/kg	100		105	70-140			
<i>Batch B5C1006 - EPA 5035</i>										
<b>Blank (B5C1006-BLK1) Prepared &amp; Analyzed: 03/10/15</b>										
Acetone	<5.0	50	ug/kg							
Benzene	<2.0	2.0	ug/kg							
Bromobenzene	<5.0	5.0	ug/kg							
Bromochloromethane	<5.0	5.0	ug/kg							
Bromodichloromethane	<5.0	5.0	ug/kg							
Bromoform	<5.0	5.0	ug/kg							
Bromomethane	<5.0	5.0	ug/kg							
2-Butanone (MEK)	<5.0	50	ug/kg							
sec-Butylbenzene	<5.0	5.0	ug/kg							
n-Butylbenzene	<5.0	5.0	ug/kg							
tert-Butylbenzene	<5.0	5.0	ug/kg							
Carbon Disulfide	<5.0	5.0	ug/kg							
Carbon Tetrachloride	<5.0	5.0	ug/kg							
Chlorobenzene	<5.0	5.0	ug/kg							
Chloroethane	<5.0	5.0	ug/kg							
Chloroform	<5.0	5.0	ug/kg							
Chloromethane	<5.0	5.0	ug/kg							
4-Chlorotoluene	<5.0	5.0	ug/kg							

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs by GC/MS - Quality Control</b>										
<i>Batch B5C1006 - EPA 5035</i>										
<b>Blank (B5C1006-BLK1) Continued</b>										
Prepared & Analyzed: 03/10/15										
2-Chlorotoluene	<5.0	5.0	ug/kg							
1,2-Dibromo-3-chloropropane	<10	10	ug/kg							
Dibromochloromethane	<5.0	5.0	ug/kg							
1,2-Dibromoethane (EDB)	<5.0	5.0	ug/kg							
Dibromomethane	<5.0	5.0	ug/kg							
1,3-Dichlorobenzene	<5.0	5.0	ug/kg							
1,2-Dichlorobenzene	<5.0	5.0	ug/kg							
1,4-Dichlorobenzene	<5.0	5.0	ug/kg							
Dichlorodifluoromethane (R12)	<5.0	5.0	ug/kg							
1,1-Dichloroethane	<5.0	5.0	ug/kg							
1,2-Dichloroethane (EDC)	<5.0	5.0	ug/kg							
1,1-Dichloroethylene	<5.0	5.0	ug/kg							
trans-1,2-Dichloroethylene	<5.0	5.0	ug/kg							
cis-1,2-Dichloroethylene	<5.0	5.0	ug/kg							
2,2-Dichloropropane	<5.0	5.0	ug/kg							
1,2-Dichloropropane	<5.0	5.0	ug/kg							
1,3-Dichloropropane	<5.0	5.0	ug/kg							
1,1-Dichloropropylene	<5.0	5.0	ug/kg							
cis-1,3-Dichloropropylene	<5.0	5.0	ug/kg							
trans-1,3-Dichloropropylene	<5.0	5.0	ug/kg							
Ethylbenzene	<2.0	2.0	ug/kg							
Hexachlorobutadiene	<10	10	ug/kg							
2-Hexanone (MBK)	<50	50	ug/kg							
Isopropylbenzene	<5.0	5.0	ug/kg							
4-Isopropyltoluene	<5.0	5.0	ug/kg							
Methyl-tert-Butyl Ether (MTBE)	<5.0	5.0	ug/kg							
Methylene Chloride	<50	50	ug/kg							
4-Methyl-2-pentanone (MIBK)	<50	50	ug/kg							
Naphthalene	<10	10	ug/kg							
n-Propylbenzene	<5.0	5.0	ug/kg							
Styrene	<5.0	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	<5.0	5.0	ug/kg							

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs by GC/MS - Quality Control</b>										
<i>Batch B5C1006 - EPA 5035</i>										
<b>Blank (B5C1006-BLK1) Continued</b>										
Prepared & Analyzed: 03/10/15										
1,1,1,2-Tetrachloroethane	<5.0	5.0	ug/kg							
Tetrachloroethylene (PCE)	<5.0	5.0	ug/kg							
Toluene	<2.0	2.0	ug/kg							
1,2,4-Trichlorobenzene	<5.0	5.0	ug/kg							
1,2,3-Trichlorobenzene	<5.0	5.0	ug/kg							
1,1,2-Trichloroethane	<5.0	5.0	ug/kg							
1,1,1-Trichloroethane	<5.0	5.0	ug/kg							
Trichloroethylene (TCE)	<5.0	5.0	ug/kg							
Trichlorofluoromethane (R11)	<5.0	5.0	ug/kg							
1,2,3-Trichloropropane	<5.0	5.0	ug/kg							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<5.0	5.0	ug/kg							
1,2,4-Trimethylbenzene	<5.0	5.0	ug/kg							
1,3,5-Trimethylbenzene	<5.0	5.0	ug/kg							
Vinyl chloride	<5.0	5.0	ug/kg							
o-Xylene	<2.0	2.0	ug/kg							
m,p-Xylenes	<2.0	2.0	ug/kg							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>117</i>		<i>ug/kg</i>	<i>100</i>		<i>117</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>97.1</i>		<i>ug/kg</i>	<i>100</i>		<i>97.1</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>113</i>		<i>ug/kg</i>	<i>100</i>		<i>113</i>	<i>70-140</i>			
<b>LCS (B5C1006-BS1)</b>										
Prepared & Analyzed: 03/10/15										
Benzene	<b>34.3</b>	2.0	ug/kg	40		85.6	75-125			
Bromodichloromethane	<b>37.0</b>	5.0	ug/kg	40		92.6	75-125			
Bromoform	<b>38.2</b>	5.0	ug/kg	40		95.6	75-125			
Carbon Tetrachloride	<b>34.6</b>	5.0	ug/kg	40		86.6	75-125			
Chlorobenzene	<b>37.7</b>	5.0	ug/kg	40		94.2	75-125			
Chloroethane	<b>30.4</b>	5.0	ug/kg	40		76.0	75-125			
Chloroform	<b>37.1</b>	5.0	ug/kg	40		92.8	75-125			
Chloromethane	<b>30.5</b>	5.0	ug/kg	40		76.3	65-125			
Dibromochloromethane	<b>40.9</b>	5.0	ug/kg	40		102	75-125			
1,4-Dichlorobenzene	<b>40.2</b>	5.0	ug/kg	40		100	75-125			

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager





## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs by GC/MS - Quality Control</b>										
<i>Batch B5C1006 - EPA 5035</i>										
<b>LCS (B5C1006-BS1) Continued</b>										
Prepared & Analyzed: 03/10/15										
1,1-Dichloroethane	37.7	5.0	ug/kg	40		94.2	70-125			
1,2-Dichloroethane (EDC)	37.8	5.0	ug/kg	40		94.5	75-125			
1,1-Dichloroethylene	35.8	5.0	ug/kg	40		89.4	70-130			
trans-1,2-Dichloroethylene	38.9	5.0	ug/kg	40		97.2	75-125			
cis-1,2-Dichloroethylene	36.9	5.0	ug/kg	40		92.3	75-125			
1,2-Dichloropropane	35.6	5.0	ug/kg	40		89.0	75-130			
cis-1,3-Dichloropropylene	36.2	5.0	ug/kg	40		90.6	75-125			
Ethylbenzene	37.8	2.0	ug/kg	40		94.6	75-125			
Methyl-tert-Butyl Ether (MTBE)	40.8	5.0	ug/kg	40		102	75-125			
Methylene Chloride	38.5	50	ug/kg	40		96.2	75-130			
1,1,2,2-Tetrachloroethane	39.3	5.0	ug/kg	40		98.2	70-135			
Tetrachloroethylene (PCE)	39.8	5.0	ug/kg	40		99.5	75-125			
Toluene	37.9	2.0	ug/kg	40		94.8	75-125			
1,1,2-Trichloroethane	40.6	5.0	ug/kg	40		101	75-125			
1,1,1-Trichloroethane	35.5	5.0	ug/kg	40		88.7	75-125			
Trichloroethylene (TCE)	34.6	5.0	ug/kg	40		86.5	75-125			
Vinyl chloride	39.5	5.0	ug/kg	40		98.8	75-125			
o-Xylene	36.5	2.0	ug/kg	40		91.3	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>105</i>		<i>ug/kg</i>	<i>100</i>		<i>105</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>94.7</i>		<i>ug/kg</i>	<i>100</i>		<i>94.7</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>104</i>		<i>ug/kg</i>	<i>100</i>		<i>104</i>	<i>70-140</i>			
<b>LCS Dup (B5C1006-BSD1)</b>										
Prepared & Analyzed: 03/10/15										
Benzene	40.9	2.0	ug/kg	40		102	75-125	17.6	30	
Bromodichloromethane	44.1	5.0	ug/kg	40		110	75-125	17.3	30	
Bromoform	35.7	5.0	ug/kg	40		89.2	75-125	6.93	30	
Carbon Tetrachloride	36.6	5.0	ug/kg	40		91.4	75-125	5.45	30	
Chlorobenzene	38.8	5.0	ug/kg	40		97.0	75-125	3.03	30	
Chloroethane	34.6	5.0	ug/kg	40		86.4	75-125	12.9	30	
Chloroform	44.2	5.0	ug/kg	40		111	75-125	17.4	30	
Chloromethane	42.9	5.0	ug/kg	40		107	65-125	33.7	30	QR-02
Dibromochloromethane	41.2	5.0	ug/kg	40		103	75-125	0.828	30	

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs by GC/MS - Quality Control</b>										
<i>Batch B5C1006 - EPA 5035</i>										
<b>LCS Dup (B5C1006-BSD1) Continued</b>										
Prepared & Analyzed: 03/10/15										
1,4-Dichlorobenzene	40.5	5.0	ug/kg	40	101	75-125	0.842	30		
1,1-Dichloroethane	42.7	5.0	ug/kg	40	107	70-125	12.5	30		
1,2-Dichloroethane (EDC)	44.0	5.0	ug/kg	40	110	75-125	15.1	30		
1,1-Dichloroethylene	43.9	5.0	ug/kg	40	110	70-130	20.4	30		
trans-1,2-Dichloroethylene	46.1	5.0	ug/kg	40	115	75-125	17.0	30		
cis-1,2-Dichloroethylene	45.5	5.0	ug/kg	40	114	75-125	20.7	30		
1,2-Dichloropropane	40.7	5.0	ug/kg	40	102	75-130	13.4	30		
cis-1,3-Dichloropropylene	38.8	5.0	ug/kg	40	97.0	75-125	6.88	30		
Ethylbenzene	35.2	2.0	ug/kg	40	87.9	75-125	7.34	30		
Methyl-tert-Butyl Ether (MTBE)	45.6	5.0	ug/kg	40	114	75-125	11.1	30		
Methylene Chloride	46.6	50	ug/kg	40	117	75-130	19.2	30		
1,1,2,2-Tetrachloroethane	39.5	5.0	ug/kg	40	98.8	70-135	0.660	30		
Tetrachloroethylene (PCE)	35.6	5.0	ug/kg	40	89.0	75-125	11.1	30		
Toluene	38.7	2.0	ug/kg	40	96.6	75-125	1.93	30		
1,1,2-Trichloroethane	43.1	5.0	ug/kg	40	108	75-125	5.93	30		
1,1,1-Trichloroethane	36.3	5.0	ug/kg	40	90.7	75-125	2.23	30		
Trichloroethylene (TCE)	40.4	5.0	ug/kg	40	101	75-125	15.4	30		
Vinyl chloride	55.9	5.0	ug/kg	40	140	75-125	34.4	30		AA-C1
o-Xylene	33.5	2.0	ug/kg	40	83.8	75-125	8.63	30		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.9</i>		<i>ug/kg</i>	<i>100</i>	<i>98.9</i>	<i>70-140</i>				
<i>Surrogate: Dibromofluoromethane</i>	<i>119</i>		<i>ug/kg</i>	<i>100</i>	<i>119</i>	<i>70-140</i>				
<i>Surrogate: Toluene-d8</i>	<i>103</i>		<i>ug/kg</i>	<i>100</i>	<i>103</i>	<i>70-140</i>				
<b>Matrix Spike (B5C1006-MS1)</b>										
Source: 5C09028-01 Prepared & Analyzed: 03/10/15										
Benzene	38.0	2.0	ug/kg	40	<2.0	94.9	70-130			
Bromoform	35.2	5.0	ug/kg	40	<5.0	88.0	70-130			
Chlorobenzene	36.8	5.0	ug/kg	40	<5.0	91.9	70-130			
Chloroform	41.1	5.0	ug/kg	40	<5.0	103	70-130			
1,1-Dichloroethane	34.8	5.0	ug/kg	40	<5.0	87.0	70-130			
1,1-Dichloroethylene	41.0	5.0	ug/kg	40	<5.0	103	70-130			
cis-1,2-Dichloroethylene	40.5	5.0	ug/kg	40	<5.0	101	70-130			
1,2-Dichloropropane	37.4	5.0	ug/kg	40	<5.0	93.5	70-130			

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**VOCs by GC/MS - Quality Control**

Batch B5C1006 - EPA 5035

**Matrix Spike (B5C1006-MS1) Continued Source: 5C09028-01** Prepared & Analyzed: 03/10/15

Ethylbenzene	34.1	2.0	ug/kg	40	<2.0	85.2	70-130			
Methyl-tert-Butyl Ether (MTBE)	45.1	5.0	ug/kg	40	<5.0	113	70-130			
n-Propylbenzene	35.1	5.0	ug/kg	40	<5.0	87.8	70-130			
Tetrachloroethylene (PCE)	36.6	5.0	ug/kg	40	<5.0	91.5	70-130			
Toluene	36.8	2.0	ug/kg	40	<2.0	92.0	70-130			
1,1,1-Trichloroethane	35.5	5.0	ug/kg	40	<5.0	88.6	70-130			
Trichloroethylene (TCE)	37.6	5.0	ug/kg	40	<5.0	93.9	70-130			
1,3,5-Trimethylbenzene	37.0	5.0	ug/kg	40	<5.0	92.6	70-130			
Vinyl chloride	56.2	5.0	ug/kg	40	<5.0	140	70-130			QM-07
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>101</i>		<i>ug/kg</i>	<i>100</i>		<i>101</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>107</i>		<i>ug/kg</i>	<i>100</i>		<i>107</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>105</i>		<i>ug/kg</i>	<i>100</i>		<i>105</i>	<i>70-140</i>			

**Matrix Spike Dup (B5C1006-MSD1) Source: 5C09028-01** Prepared & Analyzed: 03/10/15

Benzene	36.3	2.0	ug/kg	40	<2.0	90.8	70-130	4.36	40	
Bromoform	34.5	5.0	ug/kg	40	<5.0	86.2	70-130	2.07	40	
Chlorobenzene	36.6	5.0	ug/kg	40	<5.0	91.4	70-130	0.491	40	
Chloroform	39.6	5.0	ug/kg	40	<5.0	99.0	70-130	3.77	40	
1,1-Dichloroethane	34.6	5.0	ug/kg	40	<5.0	86.4	70-130	0.749	40	
1,1-Dichloroethylene	38.3	5.0	ug/kg	40	<5.0	95.8	70-130	6.86	40	
cis-1,2-Dichloroethylene	39.3	5.0	ug/kg	40	<5.0	98.2	70-130	3.01	40	
1,2-Dichloropropane	36.4	5.0	ug/kg	40	<5.0	91.0	70-130	2.66	40	
Ethylbenzene	33.9	2.0	ug/kg	40	<2.0	84.7	70-130	0.530	40	
Methyl-tert-Butyl Ether (MTBE)	43.3	5.0	ug/kg	40	<5.0	108	70-130	4.07	40	
n-Propylbenzene	33.4	5.0	ug/kg	40	<5.0	83.6	70-130	4.90	40	
Tetrachloroethylene (PCE)	36.6	5.0	ug/kg	40	<5.0	91.6	70-130	0.109	40	
Toluene	37.3	2.0	ug/kg	40	<2.0	93.2	70-130	1.24	40	
1,1,1-Trichloroethane	34.8	5.0	ug/kg	40	<5.0	86.9	70-130	1.99	40	
Trichloroethylene (TCE)	37.1	5.0	ug/kg	40	<5.0	92.8	70-130	1.18	40	
1,3,5-Trimethylbenzene	34.7	5.0	ug/kg	40	<5.0	86.8	70-130	6.47	40	
Vinyl chloride	53.2	5.0	ug/kg	40	<5.0	133	70-130	5.45	40	QM-07
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.7</i>		<i>ug/kg</i>	<i>100</i>		<i>96.7</i>	<i>70-140</i>			

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs by GC/MS - Quality Control</b>										
<i>Batch B5C1006 - EPA 5035</i>										
<b>Matrix Spike Dup (B5C1006-MSD1) Source: 5C09028-01 Prepared &amp; Analyzed: 03/10/15</b>										
<b>Continued</b>										
<i>Surrogate: Dibromofluoromethane</i>	107		ug/kg	100		107	70-140			
<i>Surrogate: Toluene-d8</i>	109		ug/kg	100		109	70-140			
<b>Carbon Chain by GC/FID - Quality Control</b>										
<i>Batch B5C0920 - EPA 3550B</i>										
<b>Blank (B5C0920-BLK1) Prepared &amp; Analyzed: 03/09/15</b>										
C6-C8	<1.0	1.0	mg/kg							
C8-C10	<1.0	1.0	mg/kg							
C10-C12	<1.0	1.0	mg/kg							
C12-C14	<1.0	1.0	mg/kg							
C14-C16	<1.0	1.0	mg/kg							
C16-C18	<1.0	1.0	mg/kg							
C18-C20	<1.0	1.0	mg/kg							
C20-C22	<1.0	1.0	mg/kg							
C22-C24	<1.0	1.0	mg/kg							
C24-C26	<1.0	1.0	mg/kg							
C26-C28	<1.0	1.0	mg/kg							
C28-C32	<1.0	1.0	mg/kg							
C32-C34	<1.0	1.0	mg/kg							
C34-C36	<1.0	1.0	mg/kg							
C36-C40	<1.0	1.0	mg/kg							
C40-C44	<1.0	1.0	mg/kg							
TPH (C6-C44)	<10	10	mg/kg							
<i>Surrogate: o-Terphenyl</i>	9.53		mg/kg	10		95.3	50-150			
<b>LCS (B5C0920-BS1) Prepared &amp; Analyzed: 03/09/15</b>										
Diesel Range Organics as Diesel	<b>214</b>	10	mg/kg	200		107	75-125			
<i>Surrogate: o-Terphenyl</i>	10.8		mg/kg	10		108	50-150			
<b>LCS Dup (B5C0920-BSD1) Prepared &amp; Analyzed: 03/09/15</b>										
Diesel Range Organics as Diesel	<b>215</b>	10	mg/kg	200		107	75-125	0.275	40	
<i>Surrogate: o-Terphenyl</i>	11.1		mg/kg	10		111	50-150			

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Carbon Chain by GC/FID - Quality Control</b>										
<i>Batch B5C0920 - EPA 3550B</i>										
<b>Matrix Spike (B5C0920-MS1)</b>			<b>Source: 5C09028-08</b> Prepared: 03/09/15 Analyzed: 03/10/15							
Diesel Range Organics as Diesel	205	10	mg/kg	200		102	70-130			
<i>Surrogate: o-Terphenyl</i>	10.9		mg/kg	10		109	50-150			
<b>Matrix Spike Dup (B5C0920-MSD1)</b>			<b>Source: 5C09028-08</b> Prepared: 03/09/15 Analyzed: 03/10/15							
Diesel Range Organics as Diesel	200	10	mg/kg	190		103	70-130	2.23	40	
<i>Surrogate: o-Terphenyl</i>	10.7		mg/kg	9.7		110	50-150			
<i>Batch B5C0921 - EPA 3550B</i>										
<b>Blank (B5C0921-BLK1)</b>			Prepared: 03/09/15 Analyzed: 03/10/15							
C6-C8	<1.0	1.0	mg/kg							
C8-C10	<1.0	1.0	mg/kg							
C10-C12	<1.0	1.0	mg/kg							
C12-C14	<1.0	1.0	mg/kg							
C14-C16	<1.0	1.0	mg/kg							
C16-C18	<1.0	1.0	mg/kg							
C18-C20	<1.0	1.0	mg/kg							
C20-C22	<1.0	1.0	mg/kg							
C22-C24	<1.0	1.0	mg/kg							
C24-C26	<1.0	1.0	mg/kg							
C26-C28	<1.0	1.0	mg/kg							
C28-C32	<1.0	1.0	mg/kg							
C32-C34	<1.0	1.0	mg/kg							
C34-C36	<1.0	1.0	mg/kg							
C36-C40	<1.0	1.0	mg/kg							
C40-C44	<1.0	1.0	mg/kg							
TPH (C6-C44)	<10	10	mg/kg							
<i>Surrogate: o-Terphenyl</i>	9.11		mg/kg	10		91.1	50-150			
<b>LCS (B5C0921-BS1)</b>			Prepared: 03/09/15 Analyzed: 03/10/15							
Diesel Range Organics as Diesel	210	10	mg/kg	200		105	75-125			
<i>Surrogate: o-Terphenyl</i>	10.9		mg/kg	10		109	50-150			
<b>LCS Dup (B5C0921-BSD1)</b>			Prepared: 03/09/15 Analyzed: 03/10/15							
Diesel Range Organics as Diesel	229	10	mg/kg	200		115	75-125	8.80	40	

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



### LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Carbon Chain by GC/FID - Quality Control</b>										
<i>Batch B5C0921 - EPA 3550B</i>										
<b>LCS Dup (B5C0921-BSD1) Continued</b> Prepared: 03/09/15 Analyzed: 03/10/15										
<i>Surrogate: o-Terphenyl</i>	11.9		mg/kg	10		119	50-150			
<b>Matrix Spike (B5C0921-MS1) Source: 5C09028-25</b> Prepared: 03/09/15 Analyzed: 03/10/15										
Diesel Range Organics as Diesel	227	10	mg/kg	200		113	70-130			
<i>Surrogate: o-Terphenyl</i>	12.4		mg/kg	10		124	50-150			
<b>Matrix Spike Dup (B5C0921-MSD1) Source: 5C09028-25</b> Prepared: 03/09/15 Analyzed: 03/10/15										
Diesel Range Organics as Diesel	219	10	mg/kg	200		109	70-130	3.77	40	
<i>Surrogate: o-Terphenyl</i>	11.0		mg/kg	10		110	50-150			
<b>Total Metals CAM 17 - Quality Control</b>										
<i>Batch B5C0917 - EPA 3050B</i>										
<b>Blank (B5C0917-BLK1)</b> Prepared & Analyzed: 03/09/15										
Antimony	<10	10	mg/kg							
Arsenic	<0.50	0.50	mg/kg							
Barium	<10	10	mg/kg							
Beryllium	<1.0	1.0	mg/kg							
Cadmium	<1.0	1.0	mg/kg							
Chromium	<3.0	3.0	mg/kg							
Cobalt	<3.0	3.0	mg/kg							
Copper	<3.0	3.0	mg/kg							
Lead	<3.0	3.0	mg/kg							
Molybdenum	<5.0	5.0	mg/kg							
Nickel	<3.0	3.0	mg/kg							
Selenium	<0.50	0.50	mg/kg							
Silver	<1.0	1.0	mg/kg							
Thallium	<5.0	5.0	mg/kg							
Vanadium	<10	10	mg/kg							
Zinc	<3.0	3.0	mg/kg							
<b>LCS (B5C0917-BS1)</b> Prepared & Analyzed: 03/09/15										
Antimony	55.4	10	mg/kg	50		111	80-120			
Arsenic	55.0	0.50	mg/kg	50		110	80-120			
Barium	55.6	10	mg/kg	50		111	80-120			

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



### LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Total Metals CAM 17 - Quality Control</b>										
<i>Batch B5C0917 - EPA 3050B</i>										
<b>LCS (B5C0917-BS1) Continued</b>						Prepared & Analyzed: 03/09/15				
Beryllium	53.7	1.0	mg/kg	50		107	80-120			
Cadmium	54.7	1.0	mg/kg	50		109	80-120			
Chromium	54.4	3.0	mg/kg	50		109	80-120			
Cobalt	54.8	3.0	mg/kg	50		110	80-120			
Copper	55.2	3.0	mg/kg	50		110	80-120			
Lead	56.0	3.0	mg/kg	50		112	80-120			
Molybdenum	53.6	5.0	mg/kg	50		107	80-120			
Nickel	55.3	3.0	mg/kg	50		111	80-120			
Selenium	55.8	0.50	mg/kg	50		112	80-120			
Silver	54.8	1.0	mg/kg	50		110	80-120			
Thallium	50.2	5.0	mg/kg	50		100	80-120			
Vanadium	53.8	10	mg/kg	50		108	80-120			
Zinc	57.0	3.0	mg/kg	50		114	80-120			
<b>LCS Dup (B5C0917-BSD1)</b>						Prepared & Analyzed: 03/09/15				
Antimony	52.8	10	mg/kg	50		106	80-120	4.80	20	
Arsenic	53.4	0.50	mg/kg	50		107	80-120	2.77	20	
Barium	51.8	10	mg/kg	50		104	80-120	7.08	20	
Beryllium	52.5	1.0	mg/kg	50		105	80-120	2.26	20	
Cadmium	54.1	1.0	mg/kg	50		108	80-120	1.10	20	
Chromium	53.0	3.0	mg/kg	50		106	80-120	2.60	20	
Cobalt	53.2	3.0	mg/kg	50		106	80-120	2.87	20	
Copper	51.4	3.0	mg/kg	50		103	80-120	7.04	20	
Lead	54.2	3.0	mg/kg	50		108	80-120	3.27	20	
Molybdenum	54.3	5.0	mg/kg	50		109	80-120	1.20	20	
Nickel	53.8	3.0	mg/kg	50		108	80-120	2.66	20	
Selenium	54.8	0.50	mg/kg	50		110	80-120	1.99	20	
Silver	52.1	1.0	mg/kg	50		104	80-120	5.14	20	
Thallium	51.3	5.0	mg/kg	50		103	80-120	2.07	20	
Vanadium	52.0	10	mg/kg	50		104	80-120	3.50	20	
Zinc	57.0	3.0	mg/kg	50		114	80-120	0.00	20	

**Total Metals CAM 17 - Quality Control**

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Total Metals CAM 17 - Quality Control</b>										
<i>Batch B5C0918 - EPA 7471A Prep</i>										
<b>Blank (B5C0918-BLK1)</b>				Prepared & Analyzed: 03/09/15						
Mercury	<0.020	0.020	mg/kg							
<b>LCS (B5C0918-BS1)</b>				Prepared & Analyzed: 03/09/15						
Mercury	<b>0.504</b>	0.020	mg/kg	0.50		101	80-120			
<b>LCS Dup (B5C0918-BSD1)</b>				Prepared & Analyzed: 03/09/15						
Mercury	<b>0.510</b>	0.020	mg/kg	0.50		102	80-120	1.18	25	
<b>Matrix Spike (B5C0918-MS1)</b>				<b>Source: 5C09028-01</b> Prepared & Analyzed: 03/09/15						
Mercury	<b>0.440</b>	0.020	mg/kg	0.50	0.0495	78.2	75-125			
<b>Matrix Spike Dup (B5C0918-MSD1)</b>				<b>Source: 5C09028-01</b> Prepared & Analyzed: 03/09/15						
Mercury	<b>0.502</b>	0.020	mg/kg	0.50	0.0495	90.4	75-125	13.0	25	

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager





## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** A93102  
**Date Received:** 03/09/15  
**Date Reported:** 03/13/15

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### Special Notes

- [1] = **AA-C1** : The percent recovery for this analyte exceeds acceptance criteria.
- [2] = **QM-07** : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- [3] = **QR-02** : The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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*Eydie Schwartz*

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**Eydie Schwartz**  
Project Manager



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

A.A. COC No.: 122619  
70042482  
Page 1 of 2

Client: Leighton + Associates Project Name / No.: SKMF, LLC Sampler's Name: A. Ries  
 Project Manager: Robin Ferber Site Address: 1206-1330 E 6th St. Sampler's Signature: [Signature]  
 Phone: 661-705-3025 City: Los Angeles P.O. No.: 10960.001  
 Fax: NA rferber@leightongroup.com State & Zip: CA Quote No.:

### TAT Turnaround Codes \*\*

- ① = Same Day Rush
- ② = 24 Hour Rush
- ③ = 48 Hour Rush
- ④ = 72 Hour Rush
- ⑤ = 5 Day Rush
- X = 10 Working Days (Standard TAT)

### ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Please enter the TAT Turnaround Codes ** below										Special Instructions				
						VOCs	TPHcc	Metals	PAH											
LB-1-5	<del>5009028</del> -01	3.7.15	1106	SOIL	1	3	3	3												IF any 5-foot sample exceed CAM 17 levels the 10-foot sample will be analyzed for Hflerz metals + PAHs
LB-1-10	2	3.7.15	1108	SOIL	1	3	3													
LB-1-15	3	3.7.15	1111	SOIL	1	3	3													
LB-1-20	4	3.7.15	1112	SOIL	1	3	3													
LB-2-5	5	3.7.15	1209	SOIL	1	3	3	3												
LB-2-10	6	3.7.15	1210	SOIL	1	3	3													
LB-2-15	7	3.7.15	1212	SOIL	1	3	3													
LB-2-20	8	3.7.15	1216	SOIL	1	3	3													
LB-3-5	9	3.7.15	1259	SOIL	1	3	3	3												
LB-3-10	10	3.7.15	1300	SOIL	1	3	3													
LB-3-15	11	3.7.15	1302	SOIL	1	3	3													
LB-3-20	12	3.7.15	1306	SOIL	1	3	3													
LB-4-5	13	3.7.15	1347	SOIL	1	3	3	3												
LB-4-10	14	3.7.15	1348	SOIL	1	3	3													
LB-4-15	15	3.7.15	1349	SOIL	1	3	3													

<p>For Laboratory Use</p> <p style="text-align: center;"><b>PRIORITY</b></p> <p>Rush <u>46</u> Hrs          Date <u>3/7/15</u> Time <u>0950</u> Sign <u>E. Schwarz</u></p>	Relinquished by <u>A. Ries</u>	Date <u>3/7/15</u>	Time <u>1655</u>	Received by <u>[Signature]</u>
	Relinquished by	Date	Time	Received by
A.A. Project No.: <u>A93102 / 5009028</u>	Relinquished by	Date	Time	Received by

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

A.A. COC No.: 122080  
70042483  
Page 2 of 2

Client: Leighton + Associates Project Name / No.: SKMF, LLC Sampler's Name: A. Ries  
 Project Manager: Robin Ferber Site Address: 1206-1330 E 6th St. Sampler's Signature: [Signature]  
 Phone: 661-705-3025 City: Los Angeles P.O. No.: 10960.001  
 Fax: rferber@leightongroup.com State & Zip: CA Quote No.:

### TAT Turnaround Codes \*\*

- ① = Same Day Rush
- ② = 24 Hour Rush
- ③ = 48 Hour Rush
- ④ = 72 Hour Rush
- ⑤ = 5 Day Rush
- X = 10 Working Days (Standard TAT)

### ANALYSIS REQUESTED (Test Name)

VOCs	TPH/C	HHC/22	Metals	PAH															
------	-------	--------	--------	-----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Please enter the TAT Turnaround Codes ** below														Special Instructions	
						①	②	③	④	⑤	X										
LB-4-20	SC03028-14	3.7.15	1354	SOIL	1	3	3														
LB-5-25	17	3.7.15	0937	SOIL	1	3	3	3	3	added 2.5 foot 3.11.15											if the 2.5 foot samples exceed waste criteria the 5 foot samples will be analyzed for till 22 metals and PAHs
LB-5-5	18	3.7.15	0943	SOIL	1	3	3														
LB-5-10	19	3.7.15	1014	SOIL	1	3	3														
LB-5-15	20	3.7.15	1019	SOIL	1	3	3														
LB-5-20	21	3.7.15	1022	SOIL	1	3	3														
LB-6-25	22	3.7.15	0839	SOIL	1	3	3	3	3												
LB-6-5	23	3.7.15	0843	SOIL	1	3	3														
LB-6-10	24	3.7.15	0846	SOIL	1	3	3														
LB-6-15	25	3.7.15	0849	SOIL	1	3	3														
LB-6-20	26	3.7.15	0853	SOIL	1	3	3														

For Laboratory Use  
**PRIORITY**  
 Rush 48 Hrs SH 9  
 Date 3/9/15 Time 0950 Sign [Signature]

Relinquished by <u>A. Ries</u>	Date <u>3.7.15</u>	Time <u>1655</u>	Received by <u>[Signature]</u>
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



9765 Eton Avenue  
Chatsworth  
California 91311  
Tel: (818) 998-5547  
Fax: (818) 998-7258

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March 13, 2015

Robin Ferber  
Leighton & Associates, Inc.. [SC]  
25570 Rye Canyon Rd.,  
Santa Clarita, CA 91355

**Re : 6th and Alameda**  
**MB93101 / 5C09027**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 03/07/15 17:00 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

A handwritten signature in black ink that reads 'Eydie Schwartz'.

Eydie Schwartz  
Project Manager



### LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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**Fixed Gases - Field**

SVP-6-5 PV1	5C09027-02	Vapor	0	03/07/15 11:07	03/07/15 17:00
SVP-6-5 PV3	5C09027-03	Vapor	0	03/07/15 11:34	03/07/15 17:00
SVP-6-5 PV10	5C09027-04	Vapor	0	03/07/15 12:00	03/07/15 17:00
SVP-6-10 PV1	5C09027-05	Vapor	0	03/07/15 12:32	03/07/15 17:00
SVP-6-20 PV1	5C09027-06	Vapor	0	03/07/15 12:34	03/07/15 17:00
SVP-1-5 PV1	5C09027-10	Vapor	0	03/07/15 13:30	03/07/15 17:00
SVP-1-5 PV1 DUP	5C09027-11	Vapor	0	03/07/15 13:30	03/07/15 17:00
SVP-1-10 PV1	5C09027-12	Vapor	0	03/07/15 13:51	03/07/15 17:00
SVP-1-20 PV1	5C09027-13	Vapor	0	03/07/15 14:19	03/07/15 17:00
SVP-2-10 PV1	5C09027-15	Vapor	0	03/07/15 14:45	03/07/15 17:00
SVP-2-10 PV1 DUP	5C09027-16	Vapor	0	03/07/15 14:45	03/07/15 17:00
SVP-2-20 PV1	5C09027-17	Vapor	0	03/07/15 15:10	03/07/15 17:00
SVP-3-10 PV1	5C09027-19	Vapor	0	03/07/15 15:35	03/07/15 17:00
SVP-3-20 PV1	5C09027-20	Vapor	0	03/07/15 16:05	03/07/15 17:00
SVP-4-10 PV1	5C09027-22	Vapor	0	03/07/15 16:32	03/07/15 17:00
SVP-4-20 PV1	5C09027-23	Vapor	0	03/07/15 16:51	03/07/15 17:00

**VOCs by GC/MS Vapor - FIELD**

Ambient Air	5C09027-01	Vapor	0	03/07/15 10:16	03/07/15 17:00
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*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
SVP-6-5 PV1	5C09027-02	Vapor	0	03/07/15 11:07	03/07/15 17:00
SVP-6-5 PV3	5C09027-03	Vapor	0	03/07/15 11:34	03/07/15 17:00
SVP-6-5 PV10	5C09027-04	Vapor	0	03/07/15 12:00	03/07/15 17:00
SVP-6-10 PV1	5C09027-05	Vapor	0	03/07/15 12:32	03/07/15 17:00
SVP-6-20 PV1	5C09027-06	Vapor	0	03/07/15 12:34	03/07/15 17:00
SVP-5-5 PV1	5C09027-07	Vapor	0	03/07/15 12:53	03/07/15 17:00
SVP-5-10 PV1	5C09027-08	Vapor	0	03/07/15 13:03	03/07/15 17:00
SVP-5-20 PV1	5C09027-09	Vapor	0	03/07/15 13:08	03/07/15 17:00
SVP-1-5 PV1	5C09027-10	Vapor	0	03/07/15 13:30	03/07/15 17:00
SVP-1-5 PV1 DUP	5C09027-11	Vapor	0	03/07/15 13:30	03/07/15 17:00
SVP-1-10 PV1	5C09027-12	Vapor	0	03/07/15 13:51	03/07/15 17:00
SVP-1-20 PV1	5C09027-13	Vapor	0	03/07/15 14:19	03/07/15 17:00
SVP-2-5 PV1	5C09027-14	Vapor	0	03/07/15 14:35	03/07/15 17:00
SVP-2-10 PV1	5C09027-15	Vapor	0	03/07/15 14:45	03/07/15 17:00
SVP-2-10 PV1 DUP	5C09027-16	Vapor	0	03/07/15 14:45	03/07/15 17:00
SVP-2-20 PV1	5C09027-17	Vapor	0	03/07/15 15:10	03/07/15 17:00
SVP-3-5 PV1	5C09027-18	Vapor	0	03/07/15 15:34	03/07/15 17:00
SVP-3-10 PV1	5C09027-19	Vapor	0	03/07/15 15:35	03/07/15 17:00
SVP-3-20 PV1	5C09027-20	Vapor	0	03/07/15 16:05	03/07/15 17:00
SVP-4-5 PV1	5C09027-21	Vapor	0	03/07/15 16:22	03/07/15 17:00

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**Eydie Schwartz**  
Project Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
SVP-4-10 PV1	5C09027-22	Vapor	0	03/07/15 16:32	03/07/15 17:00
SVP-4-20 PV1	5C09027-23	Vapor	0	03/07/15 16:51	03/07/15 17:00

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*Eydie Schwartz*

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**Eydie Schwartz**  
Project Manager



### LABORATORY ANALYSIS RESULTS

Client: Leighton & Associates, Inc.. [SC]  
Project No: NA  
Project Name: 6th and Alameda

AA Project No: MB93101  
Date Received: 03/07/15  
Date Reported: 03/13/15

#### ANALYTICAL DATA SUMMARY

Analyte	Sample Name	Result	MRL	Units	Dilution	Prepared	Analyzed	Method
<b>Fixed Gases by TCD</b>								
<b>VOCs in Vapor by GC/MS - Field</b>								
Trichlorofluoromethane (R11)	SVP-6-5 PV1	0.23	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
Trichlorofluoromethane (R11)	SVP-6-5 PV3	0.21	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
Trichlorofluoromethane (R11)	SVP-6-5 PV10	0.19	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
Trichlorofluoromethane (R11)	SVP-6-10 PV1	0.21	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
Trichlorofluoromethane (R11)	SVP-6-20 PV1	0.25	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
Trichlorofluoromethane (R11)	SVP-5-5 PV1	0.20	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
Trichlorofluoromethane (R11)	SVP-5-10 PV1	0.31	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
Trichlorofluoromethane (R11)	SVP-5-20 PV1	0.43	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
Trichlorofluoromethane (R11)	SVP-1-5 PV1	1.8	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
Trichlorofluoromethane (R11)	SVP-1-5 PV1 DUP	2.3	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
Trichlorofluoromethane (R11)	SVP-1-10 PV1	2.5	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
Trichlorofluoromethane (R11)	SVP-1-20 PV1	2.8	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
Trichlorofluoromethane (R11)	SVP-2-5 PV1	0.26	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
Toluene	SVP-2-10 PV1	0.17	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



**LABORATORY ANALYSIS RESULTS**

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

**ANALYTICAL DATA SUMMARY**

Analyte	Sample Name	Result	MRL	Units	Dilution	Prepared	Analyzed	Method
Trichlorofluoromethane (R11)	SVP-2-10 PV1	<b>0.24</b>	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
m,p-Xylenes	SVP-2-10 PV1	<b>0.20</b>	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
Toluene	SVP-2-10 PV1 DUP	<b>0.18</b>	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
Trichlorofluoromethane (R11)	SVP-2-10 PV1 DUP	<b>0.25</b>	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
m,p-Xylenes	SVP-2-10 PV1 DUP	<b>0.21</b>	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M
Trichlorofluoromethane (R11)	SVP-2-20 PV1	<b>0.34</b>	0.050	ug/L	0.05	03/07/15	03/07/15	EPA 8260M

**Eydie Schwartz**  
Project Manager



### LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** Fixed Gases by TCD

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** % by Volume

<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Analyzed:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>AA ID No:</b>	5C09027-02	5C09027-03	5C09027-04	5C09027-05	
<b>Client ID No:</b>	SVP-6-5 PV1	SVP-6-5 PV3	SVP-6-5 PV10	SVP-6-10 PV1	
<b>Matrix:</b>	Vapor	Vapor	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	1	1	MRL

**Fixed Gases - Field (VOCs by GC/TCD)**

Methane	<0.10	<0.10	<0.10	<0.10	0.10
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*Eydie Schwartz*

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**Eydie Schwartz**  
 Project Manager



### LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** Fixed Gases by TCD

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** % by Volume

<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Analyzed:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>AA ID No:</b>	5C09027-06	5C09027-10	5C09027-11	5C09027-12	
<b>Client ID No:</b>	SVP-6-20 PV1	SVP-1-5 PV1	SVP-1-5 PV1	SVP-1-10 PV1	
<b>Matrix:</b>	Vapor	Vapor	DUP Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	1	1	MRL

**Fixed Gases - Field (VOCs by GC/TCD)**

Methane	<0.10	<0.10	<0.10	<0.10	0.10
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*Eydie Schwartz*

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**Eydie Schwartz**  
 Project Manager



### LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** Fixed Gases by TCD

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** % by Volume

<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Analyzed:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>AA ID No:</b>	5C09027-13	5C09027-15	5C09027-16	5C09027-17	
<b>Client ID No:</b>	SVP-1-20 PV1	SVP-2-10 PV1	SVP-2-10 PV1 DUP	SVP-2-20 PV1	
<b>Matrix:</b>	Vapor	Vapor	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	1	1	MRL

**Fixed Gases - Field (VOCs by GC/TCD)**

Methane	<0.10	<0.10	<0.10	<0.10	0.10
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*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** Fixed Gases by TCD

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** % by Volume

<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Analyzed:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>AA ID No:</b>	5C09027-19	5C09027-20	5C09027-22	5C09027-23	
<b>Client ID No:</b>	SVP-3-10 PV1	SVP-3-20 PV1	SVP-4-10 PV1	SVP-4-20 PV1	
<b>Matrix:</b>	Vapor	Vapor	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	1	1	MRL

### Fixed Gases - Field (VOCs by GC/TCD)

Methane	<0.10	<0.10	<0.10	<0.10	0.10
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*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Analyzed:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>AA ID No:</b>	5C09027-01	5C09027-02	5C09027-03	5C09027-04	
<b>Client ID No:</b>	Ambient Air	SVP-6-5 PV1	SVP-6-5 PV3	SVP-6-5 PV10	
<b>Matrix:</b>	Vapor	Vapor	Vapor	Vapor	
<b>Dilution Factor:</b>	0.05	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M)

Acetone	<0.50	<0.50	<0.50	<0.50	10
Benzene	<0.030	<0.030	<0.030	<0.030	0.60
Bromobenzene	<0.050	<0.050	<0.050	<0.050	1.0
Bromochloromethane	<0.050	<0.050	<0.050	<0.050	1.0
Bromodichloromethane	<10	<0.050	<0.050	<0.050	1.0
Bromoform	<0.050	<0.050	<0.050	<0.050	1.0
Bromomethane	<0.050	<0.050	<0.050	<0.050	1.0
2-Butanone (MEK)	<0.50	<0.50	<0.50	<0.50	10
n-Butylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
sec-Butylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
tert-Butylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Carbon Disulfide	<0.050	<0.050	<0.050	<0.050	1.0
Carbon Tetrachloride	<0.020	<0.020	<0.020	<0.020	0.40
Chlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
Chloroethane	<0.050	<0.050	<0.050	<0.050	1.0
Chloroform	<0.050	<0.050	<0.050	<0.050	1.0
Chloromethane	<0.050	<0.050	<0.050	<0.050	1.0
2-Chlorotoluene	<0.050	<0.050	<0.050	<0.050	1.0
4-Chlorotoluene	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dibromo-3-chloropropane	<0.050	<0.050	<0.050	<0.050	1.0
Dibromochloromethane	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dibromoethane (EDB)	<0.050	<0.050	<0.050	<0.050	1.0
Dibromomethane	<0.050	<0.050	<0.050	<0.050	1.0
1,3-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,4-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
Dichlorodifluoromethane (R12)	<0.050	<0.050	<0.050	<0.050	1.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

Date Sampled:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Analyzed:	03/07/15	03/07/15	03/07/15	03/07/15	
AA ID No:	5C09027-01	5C09027-02	5C09027-03	5C09027-04	
Client ID No:	Ambient Air	SVP-6-5 PV1	SVP-6-5 PV3	SVP-6-5 PV10	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	0.05	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,1-Dichloroethane	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dichloroethane (EDC)	<0.040	<0.040	<0.040	<0.040	0.80
1,1-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	1.0
cis-1,2-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	1.0
trans-1,2-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	1.0
2,2-Dichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
1,3-Dichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
trans-1,3-Dichloropropylene	<0.050	<0.050	<0.050	<0.050	1.0
cis-1,3-Dichloropropylene	<0.050	<0.050	<0.050	<0.050	1.0
1,1-Dichloropropylene	<0.050	<0.050	<0.050	<0.050	1.0
Ethylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Hexachlorobutadiene	<0.050	<0.050	<0.050	<0.050	1.0
2-Hexanone (MBK)	<0.50	<0.50	<0.50	<0.50	10
Isopropylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
4-Isopropyltoluene	<0.050	<0.050	<0.050	<0.050	1.0
Methyl-tert-Butyl Ether (MTBE)	<0.25	<0.25	<0.25	<0.25	5.0
Methylene Chloride	<0.25	<0.25	<0.25	<0.25	5.0
4-Methyl-2-pentanone (MIBK)	<0.50	<0.50	<0.50	<0.50	10
Naphthalene	<0.030	<0.030	<0.030	<0.030	0.60
n-Propylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Styrene	<0.050	<0.050	<0.050	<0.050	1.0
1,1,2,2-Tetrachloroethane	<0.050	<0.050	<0.050	<0.050	1.0
1,1,1,2-Tetrachloroethane	<0.050	<0.050	<0.050	<0.050	1.0
Tetrachloroethylene (PCE)	<0.050	<0.050	<0.050	<0.050	1.0
Toluene	<0.050	<0.050	<0.050	<0.050	1.0
1,2,4-Trichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Analyzed:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>AA ID No:</b>	5C09027-01	5C09027-02	5C09027-03	5C09027-04	
<b>Client ID No:</b>	Ambient Air	SVP-6-5 PV1	SVP-6-5 PV3	SVP-6-5 PV10	
<b>Matrix:</b>	Vapor	Vapor	Vapor	Vapor	
<b>Dilution Factor:</b>	0.05	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,2,3-Trichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,1,2-Trichloroethane	<0.050	<0.050	<0.050	<0.050	1.0
1,1,1-Trichloroethane	<0.050	<0.050	<0.050	<0.050	1.0
Trichloroethylene (TCE)	<0.050	<0.050	<0.050	<0.050	1.0
Trichlorofluoromethane (R11)	<0.050	<b>0.23</b>	<b>0.21</b>	<b>0.19</b>	1.0
1,2,3-Trichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.25	<0.25	<0.25	<0.25	5.0
1,3,5-Trimethylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,2,4-Trimethylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Vinyl chloride	<0.010	<0.010	<0.010	<0.010	0.20
o-Xylene	<0.050	<0.050	<0.050	<0.050	1.0
m,p-Xylenes	<0.050	<0.050	<0.050	<0.050	1.0
Isopropanol (IPA)	<0.50	<0.50	<0.50	<0.50	10

<u>Surrogates</u>					<u>%REC Limits</u>
4-Bromofluorobenzene	98%	97%	95%	95%	70-130
Dibromofluoromethane	103%	120%	117%	115%	70-130
Toluene-d8	99%	94%	95%	94%	70-130

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager





## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Analyzed:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>AA ID No:</b>	5C09027-05	5C09027-06	5C09027-07	5C09027-08	
<b>Client ID No:</b>	SVP-6-10 PV1	SVP-6-20 PV1	SVP-5-5 PV1	SVP-5-10 PV1	
<b>Matrix:</b>	Vapor	Vapor	Vapor	Vapor	
<b>Dilution Factor:</b>	0.05	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M)

Acetone	<0.50	<0.50	<0.50	<0.50	10
Benzene	<0.030	<0.030	<0.030	<0.030	0.60
Bromobenzene	<0.050	<0.050	<0.050	<0.050	1.0
Bromochloromethane	<0.050	<0.050	<0.050	<0.050	1.0
Bromodichloromethane	<0.050	<0.050	<0.050	<0.050	1.0
Bromoform	<0.050	<0.050	<0.050	<0.050	1.0
Bromomethane	<0.050	<0.050	<0.050	<0.050	1.0
2-Butanone (MEK)	<0.50	<0.50	<0.50	<0.50	10
n-Butylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
sec-Butylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
tert-Butylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Carbon Disulfide	<0.050	<0.050	<0.050	<0.050	1.0
Carbon Tetrachloride	<0.020	<0.020	<0.020	<0.020	0.40
Chlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
Chloroethane	<0.050	<0.050	<0.050	<0.050	1.0
Chloroform	<0.050	<0.050	<0.050	<0.050	1.0
Chloromethane	<0.050	<0.050	<0.050	<0.050	1.0
2-Chlorotoluene	<0.050	<0.050	<0.050	<0.050	1.0
4-Chlorotoluene	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dibromo-3-chloropropane	<0.050	<0.050	<0.050	<0.050	1.0
Dibromochloromethane	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dibromoethane (EDB)	<0.050	<0.050	<0.050	<0.050	1.0
Dibromomethane	<0.050	<0.050	<0.050	<0.050	1.0
1,3-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,4-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
Dichlorodifluoromethane (R12)	<0.050	<0.050	<0.050	<0.050	1.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

Date Sampled:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Analyzed:	03/07/15	03/07/15	03/07/15	03/07/15	
AA ID No:	5C09027-05	5C09027-06	5C09027-07	5C09027-08	
Client ID No:	SVP-6-10 PV1	SVP-6-20 PV1	SVP-5-5 PV1	SVP-5-10 PV1	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	0.05	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,1-Dichloroethane	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dichloroethane (EDC)	<0.040	<0.040	<0.040	<0.040	0.80
1,1-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	1.0
cis-1,2-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	1.0
trans-1,2-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	1.0
2,2-Dichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
1,3-Dichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
trans-1,3-Dichloropropylene	<0.050	<0.050	<0.050	<0.050	1.0
cis-1,3-Dichloropropylene	<0.050	<0.050	<0.050	<0.050	1.0
1,1-Dichloropropylene	<0.050	<0.050	<0.050	<0.050	1.0
Ethylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Hexachlorobutadiene	<0.050	<0.050	<0.050	<0.050	1.0
2-Hexanone (MBK)	<0.50	<0.50	<0.50	<0.50	10
Isopropylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
4-Isopropyltoluene	<0.050	<0.050	<0.050	<0.050	1.0
Methyl-tert-Butyl Ether (MTBE)	<0.25	<0.25	<0.25	<0.25	5.0
Methylene Chloride	<0.25	<0.25	<0.25	<0.25	5.0
4-Methyl-2-pentanone (MIBK)	<0.50	<0.50	<0.50	<0.50	10
Naphthalene	<0.030	<0.030	<0.030	<0.030	0.60
n-Propylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Styrene	<0.050	<0.050	<0.050	<0.050	1.0
1,1,2,2-Tetrachloroethane	<0.050	<0.050	<0.050	<0.050	1.0
1,1,1,2-Tetrachloroethane	<0.050	<0.050	<0.050	<0.050	1.0
Tetrachloroethylene (PCE)	<0.050	<0.050	<0.050	<0.050	1.0
Toluene	<0.050	<0.050	<0.050	<0.050	1.0
1,2,4-Trichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Analyzed:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>AA ID No:</b>	5C09027-05	5C09027-06	5C09027-07	5C09027-08	
<b>Client ID No:</b>	SVP-6-10 PV1	SVP-6-20 PV1	SVP-5-5 PV1	SVP-5-10 PV1	
<b>Matrix:</b>	Vapor	Vapor	Vapor	Vapor	
<b>Dilution Factor:</b>	0.05	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,2,3-Trichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,1,2-Trichloroethane	<0.050	<0.050	<0.050	<0.050	1.0
1,1,1-Trichloroethane	<0.050	<0.050	<0.050	<0.050	1.0
Trichloroethylene (TCE)	<0.050	<0.050	<0.050	<0.050	1.0
Trichlorofluoromethane (R11)	<b>0.21</b>	<b>0.25</b>	<b>0.20</b>	<b>0.31</b>	1.0
1,2,3-Trichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.25	<0.25	<0.25	<0.25	5.0
1,3,5-Trimethylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,2,4-Trimethylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Vinyl chloride	<0.010	<0.010	<0.010	<0.010	0.20
o-Xylene	<0.050	<0.050	<0.050	<0.050	1.0
m,p-Xylenes	<0.050	<0.050	<0.050	<0.050	1.0
Isopropanol (IPA)	<0.50	<0.50	<0.50	<0.50	10

<u>Surrogates</u>					<u>%REC Limits</u>
4-Bromofluorobenzene	97%	96%	95%	96%	70-130
Dibromofluoromethane	113%	84%	113%	88%	70-130
Toluene-d8	99%	108%	100%	104%	70-130

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

Date Sampled:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Analyzed:	03/07/15	03/07/15	03/07/15	03/07/15	
AA ID No:	5C09027-09	5C09027-10	5C09027-11	5C09027-12	
Client ID No:	SVP-5-20 PV1	SVP-1-5 PV1	SVP-1-5 PV1	SVP-1-10 PV1	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	0.05	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M)

Acetone	<0.50	<0.50	<0.50	<0.50	10
Benzene	<0.030	<0.030	<0.030	<0.030	0.60
Bromobenzene	<0.050	<0.050	<0.050	<0.050	1.0
Bromochloromethane	<0.050	<0.050	<0.050	<0.050	1.0
Bromodichloromethane	<0.050	<0.050	<0.050	<0.050	1.0
Bromoform	<0.050	<0.050	<0.050	<0.050	1.0
Bromomethane	<0.050	<0.050	<0.050	<0.050	1.0
2-Butanone (MEK)	<0.50	<0.50	<0.50	<0.50	10
n-Butylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
sec-Butylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
tert-Butylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Carbon Disulfide	<0.050	<0.050	<0.050	<0.050	1.0
Carbon Tetrachloride	<0.020	<0.020	<0.020	<0.020	0.40
Chlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
Chloroethane	<0.050	<0.050	<0.050	<0.050	1.0
Chloroform	<0.050	<0.050	<0.050	<0.050	1.0
Chloromethane	<0.050	<0.050	<0.050	<0.050	1.0
2-Chlorotoluene	<0.050	<0.050	<0.050	<0.050	1.0
4-Chlorotoluene	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dibromo-3-chloropropane	<0.050	<0.050	<0.050	<0.050	1.0
Dibromochloromethane	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dibromoethane (EDB)	<0.050	<0.050	<0.050	<0.050	1.0
Dibromomethane	<0.050	<0.050	<0.050	<0.050	1.0
1,3-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,4-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

Date Sampled:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Analyzed:	03/07/15	03/07/15	03/07/15	03/07/15	
AA ID No:	5C09027-09	5C09027-10	5C09027-11	5C09027-12	
Client ID No:	SVP-5-20 PV1	SVP-1-5 PV1	SVP-1-5 PV1	SVP-1-10 PV1	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	0.05	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

Dichlorodifluoromethane (R12)	<0.050	<0.050	<0.050	<0.050	1.0
1,1-Dichloroethane	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dichloroethane (EDC)	<0.040	<0.040	<0.040	<0.040	0.80
1,1-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	1.0
cis-1,2-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	1.0
trans-1,2-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	1.0
2,2-Dichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
1,3-Dichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
trans-1,3-Dichloropropylene	<0.050	<0.050	<0.050	<0.050	1.0
cis-1,3-Dichloropropylene	<0.050	<0.050	<0.050	<0.050	1.0
1,1-Dichloropropylene	<0.050	<0.050	<0.050	<0.050	1.0
Ethylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Hexachlorobutadiene	<0.050	<0.050	<0.050	<0.050	1.0
2-Hexanone (MBK)	<0.50	<0.50	<0.50	<0.50	10
Isopropylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
4-Isopropyltoluene	<0.050	<0.050	<0.050	<0.050	1.0
Methyl-tert-Butyl Ether (MTBE)	<0.25	<0.25	<0.25	<0.25	5.0
Methylene Chloride	<0.25	<0.25	<0.25	<0.25	5.0
4-Methyl-2-pentanone (MIBK)	<0.50	<0.50	<0.50	<0.50	10
Naphthalene	<0.030	<0.030	<0.030	<0.030	0.60
n-Propylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Styrene	<0.050	<0.050	<0.050	<0.050	1.0
1,1,2,2-Tetrachloroethane	<0.050	<0.050	<0.050	<0.050	1.0
1,1,1,2-Tetrachloroethane	<0.050	<0.050	<0.050	<0.050	1.0
Tetrachloroethylene (PCE)	<0.050	<0.050	<0.050	<0.050	1.0
Toluene	<0.050	<0.050	<0.050	<0.050	1.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Analyzed:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>AA ID No:</b>	5C09027-09	5C09027-10	5C09027-11	5C09027-12	
<b>Client ID No:</b>	SVP-5-20 PV1	SVP-1-5 PV1	SVP-1-5 PV1	SVP-1-10 PV1	
<b>Matrix:</b>	Vapor	Vapor	Vapor	Vapor	
<b>Dilution Factor:</b>	0.05	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,2,4-Trichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,2,3-Trichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,1,2-Trichloroethane	<0.050	<0.050	<0.050	<0.050	1.0
1,1,1-Trichloroethane	<0.050	<0.050	<0.050	<0.050	1.0
Trichloroethylene (TCE)	<0.050	<0.050	<0.050	<0.050	1.0
Trichlorofluoromethane (R11)	<b>0.43</b>	<b>1.8</b>	<b>2.3</b>	<b>2.5</b>	1.0
1,2,3-Trichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.25	<0.25	<0.25	<0.25	5.0
1,3,5-Trimethylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,2,4-Trimethylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Vinyl chloride	<0.010	<0.010	<0.010	<0.010	0.20
o-Xylene	<0.050	<0.050	<0.050	<0.050	1.0
m,p-Xylenes	<0.050	<0.050	<0.050	<0.050	1.0
Isopropanol (IPA)	<0.50	<0.50	<0.50	<0.50	10

<u>Surrogates</u>					<u>%REC Limits</u>
4-Bromofluorobenzene	95%	95%	95%	95%	70-130
Dibromofluoromethane	112%	126%	128%	108%	70-130
Toluene-d8	100%	103%	102%	100%	70-130

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

Date Sampled:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Analyzed:	03/07/15	03/07/15	03/07/15	03/07/15	
AA ID No:	5C09027-13	5C09027-14	5C09027-15	5C09027-16	
Client ID No:	SVP-1-20 PV1	SVP-2-5 PV1	SVP-2-10 PV1	SVP-2-10 PV1 DUP	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	0.05	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M)

Acetone	<0.50	<0.50	<0.50	<0.50	10
Benzene	<0.030	<0.030	<0.030	<0.030	0.60
Bromobenzene	<0.050	<0.050	<0.050	<0.050	1.0
Bromochloromethane	<0.050	<0.050	<0.050	<0.050	1.0
Bromodichloromethane	<0.050	<0.050	<0.050	<0.050	1.0
Bromoform	<0.050	<0.050	<0.050	<0.050	1.0
Bromomethane	<0.050	<0.050	<0.050	<0.050	1.0
2-Butanone (MEK)	<0.50	<0.50	<0.50	<0.50	10
n-Butylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
sec-Butylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
tert-Butylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Carbon Disulfide	<0.050	<0.050	<0.050	<0.050	1.0
Carbon Tetrachloride	<0.020	<0.020	<0.020	<0.020	0.40
Chlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
Chloroethane	<0.050	<0.050	<0.050	<0.050	1.0
Chloroform	<0.050	<0.050	<0.050	<0.050	1.0
Chloromethane	<0.050	<0.050	<0.050	<0.050	1.0
2-Chlorotoluene	<0.050	<0.050	<0.050	<0.050	1.0
4-Chlorotoluene	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dibromo-3-chloropropane	<0.050	<0.050	<0.050	<0.050	1.0
Dibromochloromethane	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dibromoethane (EDB)	<0.050	<0.050	<0.050	<0.050	1.0
Dibromomethane	<0.050	<0.050	<0.050	<0.050	1.0
1,3-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,4-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

Date Sampled:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/07/15	03/07/15	03/07/15	03/07/15	
Date Analyzed:	03/07/15	03/07/15	03/07/15	03/07/15	
AA ID No:	5C09027-13	5C09027-14	5C09027-15	5C09027-16	
Client ID No:	SVP-1-20 PV1	SVP-2-5 PV1	SVP-2-10 PV1	SVP-2-10 PV1 DUP	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	0.05	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

Dichlorodifluoromethane (R12)	<0.050	<0.050	<0.050	<0.050	1.0
1,1-Dichloroethane	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dichloroethane (EDC)	<0.040	<0.040	<0.040	<0.040	0.80
1,1-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	1.0
cis-1,2-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	1.0
trans-1,2-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	1.0
2,2-Dichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
1,3-Dichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
trans-1,3-Dichloropropylene	<0.050	<0.050	<0.050	<0.050	1.0
cis-1,3-Dichloropropylene	<0.050	<0.050	<0.050	<0.050	1.0
1,1-Dichloropropylene	<0.050	<0.050	<0.050	<0.050	1.0
Ethylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Hexachlorobutadiene	<0.050	<0.050	<0.050	<0.050	1.0
2-Hexanone (MBK)	<0.50	<0.50	<0.50	<0.50	10
Isopropylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
4-Isopropyltoluene	<0.050	<0.050	<0.050	<0.050	1.0
Methyl-tert-Butyl Ether (MTBE)	<0.25	<0.25	<0.25	<0.25	5.0
Methylene Chloride	<0.25	<0.25	<0.25	<0.25	5.0
4-Methyl-2-pentanone (MIBK)	<0.50	<0.50	<0.50	<0.50	10
Naphthalene	<0.030	<0.030	<0.030	<0.030	0.60
n-Propylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Styrene	<0.050	<0.050	<0.050	<0.050	1.0
1,1,2,2-Tetrachloroethane	<0.050	<0.050	<0.050	<0.050	1.0
1,1,1,2-Tetrachloroethane	<0.050	<0.050	<0.050	<0.050	1.0
Tetrachloroethylene (PCE)	<0.050	<0.050	<0.050	<0.050	1.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager





## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Analyzed:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>AA ID No:</b>	5C09027-13	5C09027-14	5C09027-15	5C09027-16	
<b>Client ID No:</b>	SVP-1-20 PV1	SVP-2-5 PV1	SVP-2-10 PV1	SVP-2-10 PV1 DUP	
<b>Matrix:</b>	Vapor	Vapor	Vapor	Vapor	
<b>Dilution Factor:</b>	0.05	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

Toluene	<0.050	<0.050	<b>0.17</b>	<b>0.18</b>	1.0
1,2,4-Trichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,2,3-Trichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,1,2-Trichloroethane	<0.050	<0.050	<0.050	<0.050	1.0
1,1,1-Trichloroethane	<0.050	<0.050	<0.050	<0.050	1.0
Trichloroethylene (TCE)	<0.050	<0.050	<0.050	<0.050	1.0
Trichlorofluoromethane (R11)	<b>2.8</b>	<b>0.26</b>	<b>0.24</b>	<b>0.25</b>	1.0
1,2,3-Trichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.25	<0.25	<0.25	<0.25	5.0
1,3,5-Trimethylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,2,4-Trimethylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Vinyl chloride	<0.010	<0.010	<0.010	<0.010	0.20
o-Xylene	<0.050	<0.050	<0.050	<0.050	1.0
m,p-Xylenes	<0.050	<0.050	<b>0.20</b>	<b>0.21</b>	1.0
Isopropanol (IPA)	<0.50	<0.50	<0.50	<0.50	10

<u>Surrogates</u>					<u>%REC Limits</u>
4-Bromofluorobenzene	95%	95%	94%	93%	70-130
Dibromofluoromethane	111%	125%	110%	109%	70-130
Toluene-d8	101%	102%	100%	101%	70-130

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

	03/07/2015	03/07/2015	03/07/2015	03/07/2015	
<b>Date Sampled:</b>	03/07/2015	03/07/2015	03/07/2015	03/07/2015	
<b>Date Prepared:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Analyzed:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>AA ID No:</b>	5C09027-17	5C09027-18	5C09027-19	5C09027-20	
<b>Client ID No:</b>	SVP-2-20 PV1	SVP-3-5 PV1	SVP-3-10 PV1	SVP-3-20 PV1	
<b>Matrix:</b>	Vapor	Vapor	Vapor	Vapor	
<b>Dilution Factor:</b>	0.05	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M)

Acetone	<0.50	<0.50	<0.50	<0.50	10
Benzene	<0.030	<0.030	<0.030	<0.030	0.60
Bromobenzene	<0.050	<0.050	<0.050	<0.050	1.0
Bromochloromethane	<0.050	<0.050	<0.050	<0.050	1.0
Bromodichloromethane	<0.050	<0.050	<0.050	<0.050	1.0
Bromoform	<0.050	<0.050	<0.050	<0.050	1.0
Bromomethane	<0.050	<0.050	<0.050	<0.050	1.0
2-Butanone (MEK)	<0.50	<0.50	<0.50	<0.50	10
n-Butylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
sec-Butylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
tert-Butylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Carbon Disulfide	<0.050	<0.050	<0.050	<0.050	1.0
Carbon Tetrachloride	<0.020	<0.020	<0.020	<0.020	0.40
Chlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
Chloroethane	<0.050	<0.050	<0.050	<0.050	1.0
Chloroform	<0.050	<0.050	<0.050	<0.050	1.0
Chloromethane	<0.050	<0.050	<0.050	<0.050	1.0
2-Chlorotoluene	<0.050	<0.050	<0.050	<0.050	1.0
4-Chlorotoluene	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dibromo-3-chloropropane	<0.050	<0.050	<0.050	<0.050	1.0
Dibromochloromethane	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dibromoethane (EDB)	<0.050	<0.050	<0.050	<0.050	1.0
Dibromomethane	<0.050	<0.050	<0.050	<0.050	1.0
1,3-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,4-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
Dichlorodifluoromethane (R12)	<0.050	<0.050	<0.050	<0.050	1.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

<b>Date Sampled:</b>	03/07/2015	03/07/2015	03/07/2015	03/07/2015	
<b>Date Prepared:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Analyzed:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>AA ID No:</b>	5C09027-17	5C09027-18	5C09027-19	5C09027-20	
<b>Client ID No:</b>	SVP-2-20 PV1	SVP-3-5 PV1	SVP-3-10 PV1	SVP-3-20 PV1	
<b>Matrix:</b>	Vapor	Vapor	Vapor	Vapor	
<b>Dilution Factor:</b>	0.05	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,1-Dichloroethane	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dichloroethane (EDC)	<0.040	<0.040	<0.040	<0.040	0.80
1,1-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	1.0
cis-1,2-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	1.0
trans-1,2-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	1.0
2,2-Dichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
1,2-Dichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
1,3-Dichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
trans-1,3-Dichloropropylene	<0.050	<0.050	<0.050	<0.050	1.0
cis-1,3-Dichloropropylene	<0.050	<0.050	<0.050	<0.050	1.0
1,1-Dichloropropylene	<0.050	<0.050	<0.050	<0.050	1.0
Ethylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Hexachlorobutadiene	<0.050	<0.050	<0.050	<0.050	1.0
2-Hexanone (MBK)	<0.50	<0.50	<0.50	<0.50	10
Isopropylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
4-Isopropyltoluene	<0.050	<0.050	<0.050	<0.050	1.0
Methyl-tert-Butyl Ether (MTBE)	<0.25	<0.25	<0.25	<0.25	5.0
Methylene Chloride	<0.25	<0.25	<0.25	<0.25	5.0
4-Methyl-2-pentanone (MIBK)	<0.50	<0.50	<0.50	<0.50	10
Naphthalene	<0.030	<0.030	<0.030	<0.030	0.60
n-Propylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Styrene	<0.050	<0.050	<0.050	<0.050	1.0
1,1,2,2-Tetrachloroethane	<0.050	<0.050	<0.050	<0.050	1.0
1,1,1,2-Tetrachloroethane	<0.050	<0.050	<0.050	<0.050	1.0
Tetrachloroethylene (PCE)	<0.050	<0.050	<0.050	<0.050	1.0
Toluene	<0.050	<0.050	<0.050	<0.050	1.0
1,2,4-Trichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

	03/07/2015	03/07/2015	03/07/2015	03/07/2015	
<b>Date Sampled:</b>	03/07/2015	03/07/2015	03/07/2015	03/07/2015	
<b>Date Prepared:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>Date Analyzed:</b>	03/07/15	03/07/15	03/07/15	03/07/15	
<b>AA ID No:</b>	5C09027-17	5C09027-18	5C09027-19	5C09027-20	
<b>Client ID No:</b>	SVP-2-20 PV1	SVP-3-5 PV1	SVP-3-10 PV1	SVP-3-20 PV1	
<b>Matrix:</b>	Vapor	Vapor	Vapor	Vapor	
<b>Dilution Factor:</b>	0.05	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,2,3-Trichlorobenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,1,2-Trichloroethane	<0.050	<0.050	<0.050	<0.050	1.0
1,1,1-Trichloroethane	<0.050	<0.050	<0.050	<0.050	1.0
Trichloroethylene (TCE)	<0.050	<0.050	<0.050	<0.050	1.0
Trichlorofluoromethane (R11)	<b>0.34</b>	<0.050	<0.050	<0.050	1.0
1,2,3-Trichloropropane	<0.050	<0.050	<0.050	<0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.25	<0.25	<0.25	<0.25	5.0
1,3,5-Trimethylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
1,2,4-Trimethylbenzene	<0.050	<0.050	<0.050	<0.050	1.0
Vinyl chloride	<0.010	<0.010	<0.010	<0.010	0.20
o-Xylene	<0.050	<0.050	<0.050	<0.050	1.0
m,p-Xylenes	<0.050	<0.050	<0.050	<0.050	1.0
Isopropanol (IPA)	<0.50	<0.50	<0.50	<0.50	10

<u>Surrogates</u>					<u>%REC Limits</u>
4-Bromofluorobenzene	95%	95%	95%	94%	70-130
Dibromofluoromethane	125%	112%	125%	111%	70-130
Toluene-d8	101%	101%	101%	101%	70-130

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

Date Sampled:	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/07/15	03/07/15	03/07/15	
Date Analyzed:	03/07/15	03/07/15	03/07/15	
AA ID No:	5C09027-21	5C09027-22	5C09027-23	
Client ID No:	SVP-4-5 PV1	SVP-4-10 PV1	SVP-4-20 PV1	
Matrix:	Vapor	Vapor	Vapor	
Dilution Factor:	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M)

Compound	03/07/15	03/07/15	03/07/15	MRL
Acetone	<0.50	<0.50	<0.50	10
Benzene	<0.030	<0.030	<0.030	0.60
Bromobenzene	<0.050	<0.050	<0.050	1.0
Bromochloromethane	<0.050	<0.050	<0.050	1.0
Bromodichloromethane	<0.050	<0.050	<0.050	1.0
Bromoform	<0.050	<0.050	<0.050	1.0
Bromomethane	<0.050	<0.050	<0.050	1.0
2-Butanone (MEK)	<0.50	<0.50	<0.50	10
n-Butylbenzene	<0.050	<0.050	<0.050	1.0
sec-Butylbenzene	<0.050	<0.050	<0.050	1.0
tert-Butylbenzene	<0.050	<0.050	<0.050	1.0
Carbon Disulfide	<0.050	<0.050	<0.050	1.0
Carbon Tetrachloride	<0.020	<0.020	<0.020	0.40
Chlorobenzene	<0.050	<0.050	<0.050	1.0
Chloroethane	<0.050	<0.050	<0.050	1.0
Chloroform	<0.050	<0.050	<0.050	1.0
Chloromethane	<0.050	<0.050	<0.050	1.0
2-Chlorotoluene	<0.050	<0.050	<0.050	1.0
4-Chlorotoluene	<0.050	<0.050	<0.050	1.0
1,2-Dibromo-3-chloropropane	<0.050	<0.050	<0.050	1.0
Dibromochloromethane	<0.050	<0.050	<0.050	1.0
1,2-Dibromoethane (EDB)	<0.050	<0.050	<0.050	1.0
Dibromomethane	<0.050	<0.050	<0.050	1.0
1,3-Dichlorobenzene	<0.050	<0.050	<0.050	1.0
1,2-Dichlorobenzene	<0.050	<0.050	<0.050	1.0
1,4-Dichlorobenzene	<0.050	<0.050	<0.050	1.0
Dichlorodifluoromethane (R12)	<0.050	<0.050	<0.050	1.0

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

Date Sampled:	03/07/15	03/07/15	03/07/15	
Date Prepared:	03/07/15	03/07/15	03/07/15	
Date Analyzed:	03/07/15	03/07/15	03/07/15	
AA ID No:	5C09027-21	5C09027-22	5C09027-23	
Client ID No:	SVP-4-5 PV1	SVP-4-10 PV1	SVP-4-20 PV1	
Matrix:	Vapor	Vapor	Vapor	
Dilution Factor:	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,1-Dichloroethane	<0.050	<0.050	<0.050	1.0
1,2-Dichloroethane (EDC)	<0.040	<0.040	<0.040	0.80
1,1-Dichloroethylene	<0.050	<0.050	<0.050	1.0
cis-1,2-Dichloroethylene	<0.050	<0.050	<0.050	1.0
trans-1,2-Dichloroethylene	<0.050	<0.050	<0.050	1.0
2,2-Dichloropropane	<0.050	<0.050	<0.050	1.0
1,2-Dichloropropane	<0.050	<0.050	<0.050	1.0
1,3-Dichloropropane	<0.050	<0.050	<0.050	1.0
trans-1,3-Dichloropropylene	<0.050	<0.050	<0.050	1.0
cis-1,3-Dichloropropylene	<0.050	<0.050	<0.050	1.0
1,1-Dichloropropylene	<0.050	<0.050	<0.050	1.0
Ethylbenzene	<0.050	<0.050	<0.050	1.0
Hexachlorobutadiene	<0.050	<0.050	<0.050	1.0
2-Hexanone (MBK)	<0.50	<0.50	<0.50	10
Isopropylbenzene	<0.050	<0.050	<0.050	1.0
4-Isopropyltoluene	<0.050	<0.050	<0.050	1.0
Methyl-tert-Butyl Ether (MTBE)	<0.25	<0.25	<0.25	5.0
Methylene Chloride	<0.25	<0.25	<0.25	5.0
4-Methyl-2-pentanone (MIBK)	<0.50	<0.50	<0.50	10
Naphthalene	<0.030	<0.030	<0.030	0.60
n-Propylbenzene	<0.050	<0.050	<0.050	1.0
Styrene	<0.050	<0.050	<0.050	1.0
1,1,2,2-Tetrachloroethane	<0.050	<0.050	<0.050	1.0
1,1,1,2-Tetrachloroethane	<0.050	<0.050	<0.050	1.0
Tetrachloroethylene (PCE)	<0.050	<0.050	<0.050	1.0
Toluene	<0.050	<0.050	<0.050	1.0
1,2,4-Trichlorobenzene	<0.050	<0.050	<0.050	1.0

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda  
**Method:** VOCs in Vapor by GC/MS - Field

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15  
**Units:** ug/L

<b>Date Sampled:</b>	03/07/15	03/07/15	03/07/15	
<b>Date Prepared:</b>	03/07/15	03/07/15	03/07/15	
<b>Date Analyzed:</b>	03/07/15	03/07/15	03/07/15	
<b>AA ID No:</b>	5C09027-21	5C09027-22	5C09027-23	
<b>Client ID No:</b>	SVP-4-5 PV1	SVP-4-10 PV1	SVP-4-20 PV1	
<b>Matrix:</b>	Vapor	Vapor	Vapor	
<b>Dilution Factor:</b>	0.05	0.05	0.05	MRL

### VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,2,3-Trichlorobenzene	<0.050	<0.050	<0.050	1.0
1,1,2-Trichloroethane	<0.050	<0.050	<0.050	1.0
1,1,1-Trichloroethane	<0.050	<0.050	<0.050	1.0
Trichloroethylene (TCE)	<0.050	<0.050	<0.050	1.0
Trichlorofluoromethane (R11)	<0.050	<0.050	<0.050	1.0
1,2,3-Trichloropropane	<0.050	<0.050	<0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.25	<0.25	<0.25	5.0
1,3,5-Trimethylbenzene	<0.050	<0.050	<0.050	1.0
1,2,4-Trimethylbenzene	<0.050	<0.050	<0.050	1.0
Vinyl chloride	<0.010	<0.010	<0.010	0.20
o-Xylene	<0.050	<0.050	<0.050	1.0
m,p-Xylenes	<0.050	<0.050	<0.050	1.0
Isopropanol (IPA)	<0.50	<0.50	<0.50	10

<u>Surrogates</u>				<u>%REC Limits</u>
4-Bromofluorobenzene	94%	96%	95%	70-130
Dibromofluoromethane	122%	107%	109%	70-130
Toluene-d8	100%	100%	100%	70-130

*Eydie Schwartz*

**Eydie Schwartz**  
 Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Fixed Gases by TCD - Quality Control</b>										
<i>Batch B5C1116 - *** DEFAULT PREP ***</i>										
<b>Blank (B5C1116-BLK1)</b> Prepared & Analyzed: 03/07/15										
Methane	<0.10	0.10	% by Volume							
<b>LCS (B5C1116-BS1)</b> Prepared & Analyzed: 03/07/15										
Methane	<b>4.60</b>	0.10	% by Volume	4.5	102	75-125				
<b>LCS Dup (B5C1116-BSD1)</b> Prepared & Analyzed: 03/07/15										
Methane	<b>4.61</b>	0.10	% by Volume	4.5	102	75-125	0.261	30		
<b>LCS Dup (B5C1116-BSD2)</b> Prepared & Analyzed: 03/07/15										
Methane	<b>ND</b>	0.10	% by Volume	4.5		75-125			30	
<b>Duplicate (B5C1116-DUP1)</b> Source: 5C09027-10 Prepared & Analyzed: 03/07/15										
Methane	<b>&lt;0.10</b>	0.10	% by Volume		<0.10				30	
<b>Duplicate (B5C1116-DUP2)</b> Source: 5C09027-15 Prepared & Analyzed: 03/07/15										
Methane	<b>&lt;0.10</b>	0.10	% by Volume		<0.10				30	

### VOCs in Vapor by GC/MS - Field - Quality Control

*Batch B5C1114 - \*\*\* DEFAULT PREP \*\*\**

#### Blank (B5C1114-BLK1)

Prepared & Analyzed: 03/07/15

Acetone	<0.50	0.50	ug/L
Benzene	<0.030	0.030	ug/L
Bromobenzene	<0.050	0.050	ug/L
Bromochloromethane	<0.050	0.050	ug/L
Bromodichloromethane	<0.050	0.050	ug/L
Bromoform	<0.050	0.050	ug/L
Bromomethane	<0.050	0.050	ug/L
2-Butanone (MEK)	<0.50	0.50	ug/L
n-Butylbenzene	<0.050	0.050	ug/L
sec-Butylbenzene	<0.050	0.050	ug/L

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager





## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1114 - *** DEFAULT PREP ***</i>										
<b>Blank (B5C1114-BLK1) Continued</b>										
Prepared & Analyzed: 03/07/15										
tert-Butylbenzene	<0.050	0.050	ug/L							
Carbon Disulfide	<0.050	0.050	ug/L							
Carbon Tetrachloride	<0.020	0.020	ug/L							
Chlorobenzene	<0.050	0.050	ug/L							
Chloroethane	<0.050	0.050	ug/L							
Chloroform	<0.050	0.050	ug/L							
Chloromethane	<0.050	0.050	ug/L							
2-Chlorotoluene	<0.050	0.050	ug/L							
4-Chlorotoluene	<0.050	0.050	ug/L							
1,2-Dibromo-3-chloropropane	<0.050	0.050	ug/L							
Dibromochloromethane	<0.050	0.050	ug/L							
1,2-Dibromoethane (EDB)	<0.050	0.050	ug/L							
Dibromomethane	<0.050	0.050	ug/L							
1,3-Dichlorobenzene	<0.050	0.050	ug/L							
1,2-Dichlorobenzene	<0.050	0.050	ug/L							
1,4-Dichlorobenzene	<0.050	0.050	ug/L							
Dichlorodifluoromethane (R12)	<0.050	0.050	ug/L							
1,1-Dichloroethane	<0.050	0.050	ug/L							
1,2-Dichloroethane (EDC)	<0.040	0.040	ug/L							
1,1-Dichloroethylene	<0.050	0.050	ug/L							
cis-1,2-Dichloroethylene	<0.050	0.050	ug/L							
trans-1,2-Dichloroethylene	<0.050	0.050	ug/L							
2,2-Dichloropropane	<0.050	0.050	ug/L							
1,2-Dichloropropane	<0.050	0.050	ug/L							
1,3-Dichloropropane	<0.050	0.050	ug/L							
trans-1,3-Dichloropropylene	<0.050	0.050	ug/L							
cis-1,3-Dichloropropylene	<0.050	0.050	ug/L							
1,1-Dichloropropylene	<0.050	0.050	ug/L							
Ethylbenzene	<0.050	0.050	ug/L							
Hexachlorobutadiene	<0.050	0.050	ug/L							
2-Hexanone (MBK)	<0.50	0.50	ug/L							
Isopropylbenzene	<0.050	0.050	ug/L							

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1114 - *** DEFAULT PREP ***</i>										
<b>Blank (B5C1114-BLK1) Continued</b>										
Prepared & Analyzed: 03/07/15										
4-Isopropyltoluene	<0.050	0.050	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<0.25	0.25	ug/L							
Methylene Chloride	<0.25	0.25	ug/L							
4-Methyl-2-pentanone (MIBK)	<0.50	0.50	ug/L							
Naphthalene	<0.030	0.030	ug/L							
n-Propylbenzene	<0.050	0.050	ug/L							
Styrene	<0.050	0.050	ug/L							
1,1,2,2-Tetrachloroethane	<0.050	0.050	ug/L							
1,1,1,2-Tetrachloroethane	<0.050	0.050	ug/L							
Tetrachloroethylene (PCE)	<0.050	0.050	ug/L							
Toluene	<0.050	0.050	ug/L							
1,2,4-Trichlorobenzene	<0.050	0.050	ug/L							
1,2,3-Trichlorobenzene	<0.050	0.050	ug/L							
1,1,2-Trichloroethane	<0.050	0.050	ug/L							
1,1,1-Trichloroethane	<0.050	0.050	ug/L							
Trichloroethylene (TCE)	<0.050	0.050	ug/L							
Trichlorofluoromethane (R11)	<0.050	0.050	ug/L							
1,2,3-Trichloropropane	<0.050	0.050	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.25	0.25	ug/L							
1,3,5-Trimethylbenzene	<0.050	0.050	ug/L							
1,2,4-Trimethylbenzene	<0.050	0.050	ug/L							
Vinyl chloride	<0.010	0.010	ug/L							
o-Xylene	<0.050	0.050	ug/L							
m,p-Xylenes	<0.050	0.050	ug/L							
Isopropanol (IPA)	<10	10	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.3</i>		<i>ug/L</i>	<i>50</i>		<i>94.6</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>60.1</i>		<i>ug/L</i>	<i>50</i>		<i>120</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.3</i>		<i>ug/L</i>	<i>50</i>		<i>103</i>	<i>70-130</i>			
<b>LCS (B5C1114-BS1)</b>										
Prepared & Analyzed: 03/07/15										
Acetone	<b>20.2</b>	10	ug/L	20		101	75-125		30	

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
Batch B5C1114 - *** DEFAULT PREP ***										
<b>LCS (B5C1114-BS1) Continued</b>										
Prepared & Analyzed: 03/07/15										
Benzene	18.2	0.60	ug/L	20		91.2	75-125		30	
Bromobenzene	19.6	1.0	ug/L	20		97.8	75-125		30	
Bromochloromethane	19.3	1.0	ug/L	20		96.4	75-125		30	
Bromodichloromethane	20.5	1.0	ug/L	20		102	75-125		30	
Bromoform	20.2	1.0	ug/L	20		101	75-125		30	
Bromomethane	16.0	1.0	ug/L	20		80.1	75-125		30	
2-Butanone (MEK)	26.9	10	ug/L	20		135	75-125		30	AA-C1
n-Butylbenzene	21.8	1.0	ug/L	20		109	75-125		30	
sec-Butylbenzene	20.3	1.0	ug/L	20		102	75-125		30	
tert-Butylbenzene	20.2	1.0	ug/L	20		101	75-125		30	
Carbon Disulfide	16.2	1.0	ug/L	20		81.2	75-125		30	
Carbon Tetrachloride	18.2	0.40	ug/L	20		91.0	75-125		30	
Chlorobenzene	19.8	1.0	ug/L	20		98.8	75-125		30	
Chloroethane	20.3	1.0	ug/L	20		102	75-125		30	
Chloroform	19.5	1.0	ug/L	20		97.3	75-125		30	
Chloromethane	18.3	1.0	ug/L	20		91.6	75-125		30	
2-Chlorotoluene	19.3	1.0	ug/L	20		96.6	75-125		30	
4-Chlorotoluene	20.1	1.0	ug/L	20		100	75-125		30	
1,2-Dibromo-3-chloropropane	18.7	1.0	ug/L	20		93.6	75-125		30	
Dibromochloromethane	20.9	1.0	ug/L	20		104	75-125		30	
1,2-Dibromoethane (EDB)	19.2	1.0	ug/L	20		96.2	75-125		30	
Dibromomethane	19.8	1.0	ug/L	20		99.0	75-125		30	
1,3-Dichlorobenzene	20.4	1.0	ug/L	20		102	75-125		30	
1,2-Dichlorobenzene	20.4	1.0	ug/L	20		102	75-125		30	
1,4-Dichlorobenzene	20.5	1.0	ug/L	20		102	75-125		30	
Dichlorodifluoromethane (R12)	15.3	1.0	ug/L	20		76.5	75-125		30	
1,1-Dichloroethane	24.2	1.0	ug/L	20		121	75-125		30	
1,2-Dichloroethane (EDC)	20.0	0.80	ug/L	20		99.8	75-125		30	
1,1-Dichloroethylene	17.2	1.0	ug/L	20		85.8	75-125		30	
cis-1,2-Dichloroethylene	19.3	1.0	ug/L	20		96.4	75-125		30	
trans-1,2-Dichloroethylene	23.9	1.0	ug/L	20		120	75-125		30	
2,2-Dichloropropane	17.2	1.0	ug/L	20		86.0	75-125		30	

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1114 - *** DEFAULT PREP ***</i>										
<b>LCS (B5C1114-BS1) Continued</b>										
Prepared & Analyzed: 03/07/15										
1,2-Dichloropropane	22.3	1.0	ug/L	20		112	75-125		30	
1,3-Dichloropropane	17.4	1.0	ug/L	20		86.9	75-125		30	
trans-1,3-Dichloropropylene	20.2	1.0	ug/L	20		101	75-125		30	
cis-1,3-Dichloropropylene	20.5	1.0	ug/L	20		103	75-125		30	
1,1-Dichloropropylene	18.8	1.0	ug/L	20		94.2	75-125		30	
Ethylbenzene	18.8	1.0	ug/L	20		94.2	75-125		30	
Hexachlorobutadiene	19.1	1.0	ug/L	20		95.4	75-125		30	
2-Hexanone (MBK)	18.5	10	ug/L	20		92.6	75-125		30	
Isopropylbenzene	20.8	1.0	ug/L	20		104	75-125		30	
4-Isopropyltoluene	21.1	1.0	ug/L	20		106	75-125		30	
Methyl-tert-Butyl Ether (MTBE)	29.5	5.0	ug/L	20		147	75-125		30	AA-C1
Methylene Chloride	20.2	5.0	ug/L	20		101	75-125		30	
4-Methyl-2-pentanone (MIBK)	21.4	10	ug/L	20		107	75-125		30	
Naphthalene	17.5	0.60	ug/L	20		87.4	75-125		30	
n-Propylbenzene	19.9	1.0	ug/L	20		99.3	75-125		30	
Styrene	20.5	1.0	ug/L	20		102	75-125		30	
1,1,2,2-Tetrachloroethane	20.1	1.0	ug/L	20		100	75-125		30	
1,1,1,2-Tetrachloroethane	20.2	1.0	ug/L	20		101	75-125		30	
Tetrachloroethylene (PCE)	17.1	1.0	ug/L	20		85.5	75-125		30	
Toluene	19.5	1.0	ug/L	20		97.6	75-125		30	
1,2,3-Trichlorobenzene	18.8	1.0	ug/L	20		93.9	75-125		30	
1,1,2-Trichloroethane	18.1	1.0	ug/L	20		90.7	75-125		30	
1,1,1-Trichloroethane	19.5	1.0	ug/L	20		97.4	75-125		30	
Trichloroethylene (TCE)	18.9	1.0	ug/L	20		94.4	75-125		30	
Trichlorofluoromethane (R11)	19.4	1.0	ug/L	20		96.8	75-125		30	
1,2,3-Trichloropropane	19.3	1.0	ug/L	20		96.6	75-125		30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	16.0	5.0	ug/L	20		80.0	75-125		30	
1,3,5-Trimethylbenzene	20.6	1.0	ug/L	20		103	75-125		30	
1,2,4-Trimethylbenzene	20.3	1.0	ug/L	20		102	75-125		30	
Vinyl chloride	16.5	0.20	ug/L	20		82.4	75-125		30	
o-Xylene	18.5	1.0	ug/L	20		92.6	75-125		30	

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

Client: Leighton & Associates, Inc.. [SC]  
 Project No: NA  
 Project Name: 6th and Alameda

AA Project No: MB93101  
 Date Received: 03/07/15  
 Date Reported: 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1114 - *** DEFAULT PREP ***</i>										
<b>LCS (B5C1114-BS1) Continued</b>					Prepared & Analyzed: 03/07/15					
m,p-Xylenes	36.9	1.0	ug/L	40		92.2	75-125		30	
Surrogate: 4-Bromofluorobenzene	51.5		ug/L	50		103	70-130			
Surrogate: Dibromofluoromethane	49.5		ug/L	50		99.0	70-130			
Surrogate: Toluene-d8	49.7		ug/L	50		99.4	70-130			
<b>LCS Dup (B5C1114-BSD1)</b>					Prepared & Analyzed: 03/07/15					
Acetone	34.2	10	ug/L	20		171	75-125	51.4	30	AA-C1
Benzene	19.6	0.60	ug/L	20		98.1	75-125	7.29	30	
Bromobenzene	21.5	1.0	ug/L	20		107	75-125	9.31	30	
Bromochloromethane	22.5	1.0	ug/L	20		112	75-125	15.2	30	
Bromodichloromethane	22.5	1.0	ug/L	20		113	75-125	9.39	30	
Bromoform	25.0	1.0	ug/L	20		125	75-125	21.4	30	
Bromomethane	16.9	1.0	ug/L	20		84.5	75-125	5.35	30	
2-Butanone (MEK)	20.3	10	ug/L	20		102	75-125	28.0	30	
n-Butylbenzene	22.3	1.0	ug/L	20		112	75-125	2.40	30	
sec-Butylbenzene	20.5	1.0	ug/L	20		103	75-125	1.03	30	
tert-Butylbenzene	20.8	1.0	ug/L	20		104	75-125	2.93	30	
Carbon Disulfide	16.3	1.0	ug/L	20		81.3	75-125	0.185	30	
Carbon Tetrachloride	21.4	0.40	ug/L	20		107	75-125	16.2	30	
Chlorobenzene	21.7	1.0	ug/L	20		109	75-125	9.54	30	
Chloroethane	19.7	1.0	ug/L	20		98.4	75-125	3.25	30	
Chloroform	20.9	1.0	ug/L	20		105	75-125	7.28	30	
Chloromethane	20.8	1.0	ug/L	20		104	75-125	12.5	30	
2-Chlorotoluene	19.3	1.0	ug/L	20		96.5	75-125	0.104	30	
4-Chlorotoluene	22.0	1.0	ug/L	20		110	75-125	9.00	30	
1,2-Dibromo-3-chloropropane	28.1	1.0	ug/L	20		141	75-125	40.2	30	AA-C1
Dibromochloromethane	23.7	1.0	ug/L	20		118	75-125	12.5	30	
1,2-Dibromoethane (EDB)	23.8	1.0	ug/L	20		119	75-125	21.2	30	
Dibromomethane	23.8	1.0	ug/L	20		119	75-125	18.4	30	
1,3-Dichlorobenzene	21.7	1.0	ug/L	20		108	75-125	6.18	30	
1,2-Dichlorobenzene	23.0	1.0	ug/L	20		115	75-125	11.7	30	
1,4-Dichlorobenzene	22.5	1.0	ug/L	20		112	75-125	9.26	30	

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1114 - *** DEFAULT PREP ***</i>										
<b>LCS Dup (B5C1114-BSD1) Continued</b>					Prepared & Analyzed: 03/07/15					
Dichlorodifluoromethane (R12)	14.3	1.0	ug/L	20		71.4	75-125	6.90	30	AA-C2
1,1-Dichloroethane	16.0	1.0	ug/L	20		80.0	75-125	40.7	30	AA-C3
1,2-Dichloroethane (EDC)	22.2	0.80	ug/L	20		111	75-125	10.8	30	
1,1-Dichloroethylene	17.1	1.0	ug/L	20		85.7	75-125	0.175	30	
cis-1,2-Dichloroethylene	20.5	1.0	ug/L	20		102	75-125	6.13	30	
trans-1,2-Dichloroethylene	16.0	1.0	ug/L	20		80.0	75-125	39.7	30	AA-C3
2,2-Dichloropropane	18.5	1.0	ug/L	20		92.6	75-125	7.39	30	
1,2-Dichloropropane	25.0	1.0	ug/L	20		125	75-125	11.2	30	
1,3-Dichloropropane	20.3	1.0	ug/L	20		102	75-125	15.6	30	
trans-1,3-Dichloropropylene	23.6	1.0	ug/L	20		118	75-125	15.4	30	
cis-1,3-Dichloropropylene	22.9	1.0	ug/L	20		115	75-125	11.0	30	
1,1-Dichloropropylene	20.7	1.0	ug/L	20		104	75-125	9.55	30	
Ethylbenzene	19.8	1.0	ug/L	20		98.9	75-125	4.81	30	
Hexachlorobutadiene	20.8	1.0	ug/L	20		104	75-125	8.67	30	
2-Hexanone (MBK)	28.1	10	ug/L	20		141	75-125	41.3	30	AA-C1
Isopropylbenzene	21.0	1.0	ug/L	20		105	75-125	1.10	30	
4-Isopropyltoluene	22.0	1.0	ug/L	20		110	75-125	4.31	30	
Methyl-tert-Butyl Ether (MTBE)	22.5	5.0	ug/L	20		112	75-125	26.8	30	
Methylene Chloride	20.9	5.0	ug/L	20		104	75-125	3.21	30	
4-Methyl-2-pentanone (MIBK)	27.6	10	ug/L	20		138	75-125	25.4	30	AA-C1
Naphthalene	28.3	0.60	ug/L	20		141	75-125	47.2	30	AA-C1
n-Propylbenzene	20.6	1.0	ug/L	20		103	75-125	3.51	30	
Styrene	22.5	1.0	ug/L	20		113	75-125	9.49	30	
1,1,2,2-Tetrachloroethane	26.4	1.0	ug/L	20		132	75-125	27.1	30	AA-C1
1,1,1,2-Tetrachloroethane	22.0	1.0	ug/L	20		110	75-125	8.59	30	
Tetrachloroethylene (PCE)	18.1	1.0	ug/L	20		90.6	75-125	5.74	30	
Toluene	20.9	1.0	ug/L	20		105	75-125	7.02	30	
1,2,3-Trichlorobenzene	25.0	1.0	ug/L	20		125	75-125	28.4	30	
1,1,2-Trichloroethane	20.6	1.0	ug/L	20		103	75-125	12.8	30	
1,1,1-Trichloroethane	20.4	1.0	ug/L	20		102	75-125	4.71	30	
Trichloroethylene (TCE)	20.2	1.0	ug/L	20		101	75-125	6.66	30	
Trichlorofluoromethane (R11)	18.2	1.0	ug/L	20		90.8	75-125	6.40	30	

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1114 - *** DEFAULT PREP ***</i>										
<b>LCS Dup (B5C1114-BSD1) Continued</b>					Prepared & Analyzed: 03/07/15					
1,2,3-Trichloropropane	24.9	1.0	ug/L	20	125	75-125	25.4	30		
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	16.4	5.0	ug/L	20	81.8	75-125	2.22	30		
1,3,5-Trimethylbenzene	21.6	1.0	ug/L	20	108	75-125	4.45	30		
1,2,4-Trimethylbenzene	20.5	1.0	ug/L	20	103	75-125	1.03	30		
Vinyl chloride	18.2	0.20	ug/L	20	91.1	75-125	9.97	30		
o-Xylene	19.6	1.0	ug/L	20	98.2	75-125	5.82	30		
m,p-Xylenes	39.2	1.0	ug/L	40	97.9	75-125	6.08	30		
Surrogate: 4-Bromofluorobenzene	49.8		ug/L	50	99.6	70-130				
Surrogate: Dibromofluoromethane	49.8		ug/L	50	99.6	70-130				
Surrogate: Toluene-d8	50.5		ug/L	50	101	70-130				
<b>Duplicate (B5C1114-DUP1)</b>					Source: 5C09027-10 Prepared & Analyzed: 03/07/15					
Acetone	<0.50	0.50	ug/L		<0.50			30		
Benzene	<0.030	0.030	ug/L		<0.030			30		
Bromobenzene	<0.050	0.050	ug/L		<0.050			30		
Bromochloromethane	<0.050	0.050	ug/L		<0.050			30		
Bromodichloromethane	<0.050	0.050	ug/L		<0.050			30		
Bromoform	<0.050	0.050	ug/L		<0.050			30		
Bromomethane	<0.050	0.050	ug/L		<0.050			30		
2-Butanone (MEK)	<0.50	0.50	ug/L		<0.50			30		
n-Butylbenzene	<0.050	0.050	ug/L		<0.050			30		
sec-Butylbenzene	<0.050	0.050	ug/L		<0.050			30		
tert-Butylbenzene	<0.050	0.050	ug/L		<0.050			30		
Carbon Disulfide	<0.050	0.050	ug/L		<0.050			30		
Carbon Tetrachloride	<0.020	0.020	ug/L		<0.020			30		
Chlorobenzene	<0.050	0.050	ug/L		<0.050			30		
Chloroethane	<0.050	0.050	ug/L		<0.050			30		
Chloroform	<0.050	0.050	ug/L		<0.050			30		
Chloromethane	<0.050	0.050	ug/L		<0.050			30		
2-Chlorotoluene	<0.050	0.050	ug/L		<0.050			30		
4-Chlorotoluene	<0.050	0.050	ug/L		<0.050			30		

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1114 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B5C1114-DUP1) Continued Source: 5C09027-10 Prepared &amp; Analyzed: 03/07/15</b>										
1,2-Dibromo-3-chloropropane	<0.050	0.050	ug/L		<0.050				30	
Dibromochloromethane	<0.050	0.050	ug/L		<0.050				30	
1,2-Dibromoethane (EDB)	<0.050	0.050	ug/L		<0.050				30	
Dibromomethane	<0.050	0.050	ug/L		<0.050				30	
1,3-Dichlorobenzene	<0.050	0.050	ug/L		<0.050				30	
1,2-Dichlorobenzene	<0.050	0.050	ug/L		<0.050				30	
1,4-Dichlorobenzene	<0.050	0.050	ug/L		<0.050				30	
Dichlorodifluoromethane (R12)	<0.050	0.050	ug/L		<0.050				30	
1,1-Dichloroethane	<0.050	0.050	ug/L		<0.050				30	
1,2-Dichloroethane (EDC)	<0.040	0.040	ug/L		<0.040				30	
1,1-Dichloroethylene	<0.050	0.050	ug/L		<0.050				30	
cis-1,2-Dichloroethylene	<0.050	0.050	ug/L		<0.050				30	
trans-1,2-Dichloroethylene	<0.050	0.050	ug/L		<0.050				30	
2,2-Dichloropropane	<0.050	0.050	ug/L		<0.050				30	
1,2-Dichloropropane	<0.050	0.050	ug/L		<0.050				30	
1,3-Dichloropropane	<0.050	0.050	ug/L		<0.050				30	
trans-1,3-Dichloropropylene	<0.050	0.050	ug/L		<0.050				30	
cis-1,3-Dichloropropylene	<0.050	0.050	ug/L		<0.050				30	
1,1-Dichloropropylene	<0.050	0.050	ug/L		<0.050				30	
Ethylbenzene	<0.050	0.050	ug/L		<0.050				30	
Hexachlorobutadiene	<0.050	0.050	ug/L		<0.050				30	
2-Hexanone (MBK)	<0.50	0.50	ug/L		<0.50				30	
Isopropylbenzene	<0.050	0.050	ug/L		<0.050				30	
4-Isopropyltoluene	<0.050	0.050	ug/L		<0.050				30	
Methyl-tert-Butyl Ether (MTBE)	<0.25	0.25	ug/L		<0.25				30	
Methylene Chloride	<0.25	0.25	ug/L		<0.25				30	
4-Methyl-2-pentanone (MIBK)	<0.50	0.50	ug/L		<0.50				30	
Naphthalene	<0.030	0.030	ug/L		<0.030				30	
n-Propylbenzene	<0.050	0.050	ug/L		<0.050				30	
Styrene	<0.050	0.050	ug/L		<0.050				30	
1,1,2,2-Tetrachloroethane	<0.050	0.050	ug/L		<0.050				30	
1,1,1,2-Tetrachloroethane	<0.050	0.050	ug/L		<0.050				30	

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager





## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1114 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B5C1114-DUP1) Continued Source: 5C09027-10 Prepared &amp; Analyzed: 03/07/15</b>										
Tetrachloroethylene (PCE)	<0.050	0.050	ug/L		<0.050				30	
Toluene	<0.050	0.050	ug/L		<0.050				30	
1,2,4-Trichlorobenzene	<0.050	0.050	ug/L		<0.050				30	
1,2,3-Trichlorobenzene	<0.050	0.050	ug/L		<0.050				30	
1,1,2-Trichloroethane	<0.050	0.050	ug/L		<0.050				30	
1,1,1-Trichloroethane	<0.050	0.050	ug/L		<0.050				30	
Trichloroethylene (TCE)	<0.050	0.050	ug/L		<0.050				30	
Trichlorofluoromethane (R11)	2.31	0.050	ug/L		1.81			23.9	30	
1,2,3-Trichloropropane	<0.050	0.050	ug/L		<0.050				30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.25	0.25	ug/L		<0.25				30	
1,3,5-Trimethylbenzene	<0.050	0.050	ug/L		<0.050				30	
1,2,4-Trimethylbenzene	<0.050	0.050	ug/L		<0.050				30	
Vinyl chloride	<0.010	0.010	ug/L		<0.010				30	
o-Xylene	<0.050	0.050	ug/L		<0.050				30	
m,p-Xylenes	<0.050	0.050	ug/L		<0.050				30	
Isopropanol (IPA)	<10	10	ug/L		<0.50					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.6</i>		<i>ug/L</i>	<i>50</i>		<i>95.3</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>64.2</i>		<i>ug/L</i>	<i>50</i>		<i>128</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.9</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-130</i>			
<i>Batch B5C1115 - *** DEFAULT PREP ***</i>										
<b>Blank (B5C1115-BLK1) Prepared &amp; Analyzed: 03/07/15</b>										
Acetone	<0.50	0.50	ug/L							
Benzene	<0.030	0.030	ug/L							
Bromobenzene	<0.050	0.050	ug/L							
Bromochloromethane	<0.050	0.050	ug/L							
Bromodichloromethane	<0.050	0.050	ug/L							
Bromoform	<0.050	0.050	ug/L							
Bromomethane	<0.050	0.050	ug/L							
2-Butanone (MEK)	<0.50	0.50	ug/L							
n-Butylbenzene	<0.050	0.050	ug/L							

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1115 - *** DEFAULT PREP ***</i>										
<b>Blank (B5C1115-BLK1) Continued</b>										
Prepared & Analyzed: 03/07/15										
sec-Butylbenzene	<0.050	0.050	ug/L							
tert-Butylbenzene	<0.050	0.050	ug/L							
Carbon Disulfide	<0.050	0.050	ug/L							
Carbon Tetrachloride	<0.020	0.020	ug/L							
Chlorobenzene	<0.050	0.050	ug/L							
Chloroethane	<0.050	0.050	ug/L							
Chloroform	<0.050	0.050	ug/L							
Chloromethane	<0.050	0.050	ug/L							
2-Chlorotoluene	<0.050	0.050	ug/L							
4-Chlorotoluene	<0.050	0.050	ug/L							
1,2-Dibromo-3-chloropropane	<0.050	0.050	ug/L							
Dibromochloromethane	<0.050	0.050	ug/L							
1,2-Dibromoethane (EDB)	<0.050	0.050	ug/L							
Dibromomethane	<0.050	0.050	ug/L							
1,3-Dichlorobenzene	<0.050	0.050	ug/L							
1,2-Dichlorobenzene	<0.050	0.050	ug/L							
1,4-Dichlorobenzene	<0.050	0.050	ug/L							
Dichlorodifluoromethane (R12)	<0.050	0.050	ug/L							
1,1-Dichloroethane	<0.050	0.050	ug/L							
1,2-Dichloroethane (EDC)	<0.040	0.040	ug/L							
1,1-Dichloroethylene	<0.050	0.050	ug/L							
cis-1,2-Dichloroethylene	<0.050	0.050	ug/L							
trans-1,2-Dichloroethylene	<0.050	0.050	ug/L							
2,2-Dichloropropane	<0.050	0.050	ug/L							
1,2-Dichloropropane	<0.050	0.050	ug/L							
1,3-Dichloropropane	<0.050	0.050	ug/L							
trans-1,3-Dichloropropylene	<0.050	0.050	ug/L							
cis-1,3-Dichloropropylene	<0.050	0.050	ug/L							
1,1-Dichloropropylene	<0.050	0.050	ug/L							
Ethylbenzene	<0.050	0.050	ug/L							
Hexachlorobutadiene	<0.050	0.050	ug/L							
2-Hexanone (MBK)	<0.50	0.50	ug/L							

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1115 - *** DEFAULT PREP ***</i>										
<b>Blank (B5C1115-BLK1) Continued</b>										
Prepared & Analyzed: 03/07/15										
Isopropylbenzene	<0.050	0.050	ug/L							
4-Isopropyltoluene	<0.050	0.050	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<0.25	0.25	ug/L							
Methylene Chloride	<0.25	0.25	ug/L							
4-Methyl-2-pentanone (MIBK)	<0.50	0.50	ug/L							
Naphthalene	<0.030	0.030	ug/L							
n-Propylbenzene	<0.050	0.050	ug/L							
Styrene	<0.050	0.050	ug/L							
1,1,2,2-Tetrachloroethane	<0.050	0.050	ug/L							
1,1,1,2-Tetrachloroethane	<0.050	0.050	ug/L							
Tetrachloroethylene (PCE)	<0.050	0.050	ug/L							
Toluene	<0.050	0.050	ug/L							
1,2,4-Trichlorobenzene	<0.050	0.050	ug/L							
1,2,3-Trichlorobenzene	<0.050	0.050	ug/L							
1,1,2-Trichloroethane	<0.050	0.050	ug/L							
1,1,1-Trichloroethane	<0.050	0.050	ug/L							
Trichloroethylene (TCE)	<0.050	0.050	ug/L							
Trichlorofluoromethane (R11)	<0.050	0.050	ug/L							
1,2,3-Trichloropropane	<0.050	0.050	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.25	0.25	ug/L							
1,3,5-Trimethylbenzene	<0.050	0.050	ug/L							
1,2,4-Trimethylbenzene	<0.050	0.050	ug/L							
Vinyl chloride	<0.010	0.010	ug/L							
o-Xylene	<0.050	0.050	ug/L							
m,p-Xylenes	<0.050	0.050	ug/L							
Isopropanol (IPA)	<10	10	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.0</i>		<i>ug/L</i>	<i>50</i>		<i>93.9</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53.2</i>		<i>ug/L</i>	<i>50</i>		<i>106</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.1</i>		<i>ug/L</i>	<i>50</i>		<i>96.2</i>	<i>70-130</i>			
<b>LCS (B5C1115-BS1)</b>										
Prepared & Analyzed: 03/07/15										

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1115 - *** DEFAULT PREP ***</i>										
<b>LCS (B5C1115-BS1) Continued</b>						Prepared & Analyzed: 03/07/15				
Acetone	23.9	10	ug/L	20		119	75-125		30	
Benzene	19.0	0.60	ug/L	20		95.1	75-125		30	
Bromobenzene	18.4	1.0	ug/L	20		91.8	75-125		30	
Bromochloromethane	17.7	1.0	ug/L	20		88.7	75-125		30	
Bromodichloromethane	20.8	1.0	ug/L	20		104	75-125		30	
Bromoform	20.1	1.0	ug/L	20		101	75-125		30	
Bromomethane	17.3	1.0	ug/L	20		86.3	75-125		30	
2-Butanone (MEK)	24.3	10	ug/L	20		121	75-125		30	
n-Butylbenzene	21.6	1.0	ug/L	20		108	75-125		30	
sec-Butylbenzene	19.1	1.0	ug/L	20		95.4	75-125		30	
tert-Butylbenzene	18.5	1.0	ug/L	20		92.4	75-125		30	
Carbon Disulfide	19.4	1.0	ug/L	20		97.0	75-125		30	
Carbon Tetrachloride	16.4	0.40	ug/L	20		81.8	75-125		30	
Chlorobenzene	18.5	1.0	ug/L	20		92.3	75-125		30	
Chloroethane	18.1	1.0	ug/L	20		90.4	75-125		30	
Chloroform	20.2	1.0	ug/L	20		101	75-125		30	
Chloromethane	16.9	1.0	ug/L	20		84.3	75-125		30	
2-Chlorotoluene	19.2	1.0	ug/L	20		96.2	75-125		30	
4-Chlorotoluene	19.0	1.0	ug/L	20		94.9	75-125		30	
1,2-Dibromo-3-chloropropane	22.8	1.0	ug/L	20		114	75-125		30	
Dibromochloromethane	19.8	1.0	ug/L	20		99.1	75-125		30	
1,2-Dibromoethane (EDB)	19.9	1.0	ug/L	20		99.6	75-125		30	
Dibromomethane	22.0	1.0	ug/L	20		110	75-125		30	
1,3-Dichlorobenzene	19.8	1.0	ug/L	20		99.0	75-125		30	
1,2-Dichlorobenzene	19.5	1.0	ug/L	20		97.6	75-125		30	
1,4-Dichlorobenzene	19.5	1.0	ug/L	20		97.6	75-125		30	
Dichlorodifluoromethane (R12)	15.0	1.0	ug/L	20		75.0	75-125		30	
1,1-Dichloroethane	18.7	1.0	ug/L	20		93.4	75-125		30	
1,2-Dichloroethane (EDC)	21.2	0.80	ug/L	20		106	75-125		30	
1,1-Dichloroethylene	18.9	1.0	ug/L	20		94.6	75-125		30	
cis-1,2-Dichloroethylene	21.3	1.0	ug/L	20		106	75-125		30	
trans-1,2-Dichloroethylene	17.1	1.0	ug/L	20		85.4	75-125		30	

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1115 - *** DEFAULT PREP ***</i>										
<b>LCS (B5C1115-BS1) Continued</b>						Prepared & Analyzed: 03/07/15				
2,2-Dichloropropane	18.1	1.0	ug/L	20		90.3	75-125		30	
1,2-Dichloropropane	20.2	1.0	ug/L	20		101	75-125		30	
1,3-Dichloropropane	19.3	1.0	ug/L	20		96.7	75-125		30	
trans-1,3-Dichloropropylene	19.2	1.0	ug/L	20		96.0	75-125		30	
cis-1,3-Dichloropropylene	20.6	1.0	ug/L	20		103	75-125		30	
1,1-Dichloropropylene	19.4	1.0	ug/L	20		97.0	75-125		30	
Ethylbenzene	21.2	1.0	ug/L	20		106	75-125		30	
Hexachlorobutadiene	18.6	1.0	ug/L	20		92.8	75-125		30	
2-Hexanone (MBK)	21.3	10	ug/L	20		107	75-125		30	
Isopropylbenzene	18.5	1.0	ug/L	20		92.4	75-125		30	
4-Isopropyltoluene	19.4	1.0	ug/L	20		96.8	75-125		30	
Methyl-tert-Butyl Ether (MTBE)	27.3	5.0	ug/L	20		136	75-125		30	AA-C1
Methylene Chloride	18.4	5.0	ug/L	20		92.2	75-125		30	
4-Methyl-2-pentanone (MIBK)	22.9	10	ug/L	20		114	75-125		30	
Naphthalene	16.1	0.60	ug/L	20		80.5	75-125		30	
n-Propylbenzene	19.4	1.0	ug/L	20		96.8	75-125		30	
Styrene	18.2	1.0	ug/L	20		90.8	75-125		30	
1,1,2,2-Tetrachloroethane	22.5	1.0	ug/L	20		113	75-125		30	
1,1,1,2-Tetrachloroethane	18.8	1.0	ug/L	20		93.8	75-125		30	
Tetrachloroethylene (PCE)	16.9	1.0	ug/L	20		84.6	75-125		30	
Toluene	18.1	1.0	ug/L	20		90.6	75-125		30	
1,2,3-Trichlorobenzene	19.9	1.0	ug/L	20		99.6	75-125		30	
1,1,2-Trichloroethane	20.9	1.0	ug/L	20		104	75-125		30	
1,1,1-Trichloroethane	19.8	1.0	ug/L	20		98.8	75-125		30	
Trichloroethylene (TCE)	19.7	1.0	ug/L	20		98.3	75-125		30	
Trichlorofluoromethane (R11)	18.1	1.0	ug/L	20		90.4	75-125		30	
1,2,3-Trichloropropane	20.4	1.0	ug/L	20		102	75-125		30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	16.0	5.0	ug/L	20		80.2	75-125		30	
1,3,5-Trimethylbenzene	19.1	1.0	ug/L	20		95.7	75-125		30	
1,2,4-Trimethylbenzene	18.9	1.0	ug/L	20		94.6	75-125		30	
Vinyl chloride	17.5	0.20	ug/L	20		87.4	75-125		30	

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1115 - *** DEFAULT PREP ***</i>										
<b>LCS (B5C1115-BS1) Continued</b>					Prepared & Analyzed: 03/07/15					
o-Xylene	18.4	1.0	ug/L	20		92.0	75-125		30	
m,p-Xylenes	36.9	1.0	ug/L	40		92.2	75-125		30	
Surrogate: 4-Bromofluorobenzene	49.5		ug/L	50		98.9	70-130			
Surrogate: Dibromofluoromethane	55.6		ug/L	50		111	70-130			
Surrogate: Toluene-d8	46.7		ug/L	50		93.3	70-130			
<b>LCS Dup (B5C1115-BS1)</b>					Prepared & Analyzed: 03/07/15					
Acetone	24.5	10	ug/L	20		122	75-125	2.48	30	
Benzene	19.1	0.60	ug/L	20		95.3	75-125	0.252	30	
Bromobenzene	17.8	1.0	ug/L	20		89.1	75-125	3.04	30	
Bromochloromethane	18.0	1.0	ug/L	20		89.9	75-125	1.34	30	
Bromodichloromethane	21.0	1.0	ug/L	20		105	75-125	0.957	30	
Bromoform	20.6	1.0	ug/L	20		103	75-125	2.40	30	
Bromomethane	17.3	1.0	ug/L	20		86.5	75-125	0.231	30	
2-Butanone (MEK)	23.0	10	ug/L	20		115	75-125	5.42	30	
n-Butylbenzene	20.8	1.0	ug/L	20		104	75-125	3.87	30	
sec-Butylbenzene	18.6	1.0	ug/L	20		92.8	75-125	2.66	30	
tert-Butylbenzene	18.0	1.0	ug/L	20		90.1	75-125	2.52	30	
Carbon Disulfide	18.4	1.0	ug/L	20		92.0	75-125	5.40	30	
Carbon Tetrachloride	18.4	0.40	ug/L	20		92.2	75-125	11.9	30	
Chlorobenzene	18.3	1.0	ug/L	20		91.5	75-125	0.871	30	
Chloroethane	18.5	1.0	ug/L	20		92.7	75-125	2.51	30	
Chloroform	19.6	1.0	ug/L	20		98.0	75-125	3.16	30	
Chloromethane	19.4	1.0	ug/L	20		97.1	75-125	14.1	30	
2-Chlorotoluene	18.5	1.0	ug/L	20		92.5	75-125	3.87	30	
4-Chlorotoluene	19.5	1.0	ug/L	20		97.6	75-125	2.86	30	
1,2-Dibromo-3-chloropropane	23.3	1.0	ug/L	20		117	75-125	2.17	30	
Dibromochloromethane	20.7	1.0	ug/L	20		104	75-125	4.44	30	
1,2-Dibromoethane (EDB)	20.3	1.0	ug/L	20		102	75-125	2.09	30	
Dibromomethane	22.2	1.0	ug/L	20		111	75-125	0.725	30	
1,3-Dichlorobenzene	19.6	1.0	ug/L	20		98.0	75-125	0.914	30	
1,2-Dichlorobenzene	19.1	1.0	ug/L	20		95.6	75-125	2.07	30	

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1115 - *** DEFAULT PREP ***</i>										
<b>LCS Dup (B5C1115-BSD1) Continued</b>					Prepared & Analyzed: 03/07/15					
1,4-Dichlorobenzene	23.2	1.0	ug/L	20		116	75-125	17.3	30	
Dichlorodifluoromethane (R12)	15.4	1.0	ug/L	20		76.8	75-125	2.37	30	
1,1-Dichloroethane	18.9	1.0	ug/L	20		94.4	75-125	1.01	30	
1,2-Dichloroethane (EDC)	20.8	0.80	ug/L	20		104	75-125	2.05	30	
1,1-Dichloroethylene	18.9	1.0	ug/L	20		94.4	75-125	0.265	30	
cis-1,2-Dichloroethylene	21.4	1.0	ug/L	20		107	75-125	0.422	30	
trans-1,2-Dichloroethylene	16.4	1.0	ug/L	20		82.0	75-125	4.00	30	
2,2-Dichloropropane	16.6	1.0	ug/L	20		83.0	75-125	8.48	30	
1,2-Dichloropropane	20.0	1.0	ug/L	20		100	75-125	1.19	30	
1,3-Dichloropropane	20.3	1.0	ug/L	20		101	75-125	4.65	30	
trans-1,3-Dichloropropylene	19.5	1.0	ug/L	20		97.6	75-125	1.60	30	
cis-1,3-Dichloropropylene	20.5	1.0	ug/L	20		103	75-125	0.146	30	
1,1-Dichloropropylene	18.3	1.0	ug/L	20		91.5	75-125	5.89	30	
Ethylbenzene	20.0	1.0	ug/L	20		99.8	75-125	6.12	30	
Hexachlorobutadiene	17.3	1.0	ug/L	20		86.4	75-125	7.03	30	
2-Hexanone (MBK)	22.7	10	ug/L	20		114	75-125	6.36	30	
Isopropylbenzene	17.9	1.0	ug/L	20		89.4	75-125	3.41	30	
4-Isopropyltoluene	18.8	1.0	ug/L	20		93.8	75-125	3.15	30	
Methyl-tert-Butyl Ether (MTBE)	27.1	5.0	ug/L	20		135	75-125	0.773	30	AA-C1
Methylene Chloride	18.3	5.0	ug/L	20		91.5	75-125	0.708	30	
4-Methyl-2-pentanone (MIBK)	23.4	10	ug/L	20		117	75-125	2.12	30	
Naphthalene	21.2	0.60	ug/L	20		106	75-125	27.2	30	
n-Propylbenzene	18.7	1.0	ug/L	20		93.6	75-125	3.31	30	
Styrene	19.0	1.0	ug/L	20		94.8	75-125	4.20	30	
1,1,2,2-Tetrachloroethane	23.3	1.0	ug/L	20		117	75-125	3.49	30	
1,1,1,2-Tetrachloroethane	19.1	1.0	ug/L	20		95.6	75-125	1.80	30	
Tetrachloroethylene (PCE)	17.4	1.0	ug/L	20		86.8	75-125	2.68	30	
Toluene	18.3	1.0	ug/L	20		91.6	75-125	1.15	30	
1,2,3-Trichlorobenzene	20.9	1.0	ug/L	20		104	75-125	4.61	30	
1,1,2-Trichloroethane	20.8	1.0	ug/L	20		104	75-125	0.335	30	
1,1,1-Trichloroethane	18.6	1.0	ug/L	20		93.0	75-125	5.99	30	
Trichloroethylene (TCE)	19.4	1.0	ug/L	20		97.1	75-125	1.23	30	

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1115 - *** DEFAULT PREP ***</i>										
<b>LCS Dup (B5C1115-BSD1) Continued</b>					Prepared & Analyzed: 03/07/15					
Trichlorofluoromethane (R11)	19.4	1.0	ug/L	20		96.8	75-125	6.89	30	
1,2,3-Trichloropropane	21.7	1.0	ug/L	20		109	75-125	6.46	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	16.2	5.0	ug/L	20		81.0	75-125	1.05	30	
1,3,5-Trimethylbenzene	18.7	1.0	ug/L	20		93.4	75-125	2.38	30	
1,2,4-Trimethylbenzene	18.5	1.0	ug/L	20		92.4	75-125	2.41	30	
Vinyl chloride	18.4	0.20	ug/L	20		91.9	75-125	4.96	30	
o-Xylene	18.9	1.0	ug/L	20		94.4	75-125	2.47	30	
m,p-Xylenes	37.4	1.0	ug/L	40		93.5	75-125	1.40	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	49.6		ug/L	50		99.2	70-130			
<i>Surrogate: Dibromofluoromethane</i>	56.8		ug/L	50		114	70-130			
<i>Surrogate: Toluene-d8</i>	47.4		ug/L	50		94.7	70-130			
<b>Duplicate (B5C1115-DUP1)</b>					Source: 5C09027-15 Prepared & Analyzed: 03/07/15					
Acetone	<0.50	0.50	ug/L			<0.50			30	
Benzene	<0.030	0.030	ug/L			<0.030			30	
Bromobenzene	<0.050	0.050	ug/L			<0.050			30	
Bromochloromethane	<0.050	0.050	ug/L			<0.050			30	
Bromodichloromethane	<0.050	0.050	ug/L			<0.050			30	
Bromoform	<0.050	0.050	ug/L			<0.050			30	
Bromomethane	<0.050	0.050	ug/L			<0.050			30	
2-Butanone (MEK)	<0.50	0.50	ug/L			<0.50			30	
n-Butylbenzene	<0.050	0.050	ug/L			<0.050			30	
sec-Butylbenzene	<0.050	0.050	ug/L			<0.050			30	
tert-Butylbenzene	<0.050	0.050	ug/L			<0.050			30	
Carbon Disulfide	<0.050	0.050	ug/L			<0.050			30	
Carbon Tetrachloride	<0.020	0.020	ug/L			<0.020			30	
Chlorobenzene	<0.050	0.050	ug/L			<0.050			30	
Chloroethane	<0.050	0.050	ug/L			<0.050			30	
Chloroform	<0.050	0.050	ug/L			<0.050			30	
Chloromethane	<0.050	0.050	ug/L			<0.050			30	
2-Chlorotoluene	<0.050	0.050	ug/L			<0.050			30	

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager





## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1115 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B5C1115-DUP1) Continued Source: 5C09027-15 Prepared &amp; Analyzed: 03/07/15</b>										
4-Chlorotoluene	<0.050	0.050	ug/L		<0.050				30	
1,2-Dibromo-3-chloropropane	<0.050	0.050	ug/L		<0.050				30	
Dibromochloromethane	<0.050	0.050	ug/L		<0.050				30	
1,2-Dibromoethane (EDB)	<0.050	0.050	ug/L		<0.050				30	
Dibromomethane	<0.050	0.050	ug/L		<0.050				30	
1,3-Dichlorobenzene	<0.050	0.050	ug/L		<0.050				30	
1,2-Dichlorobenzene	<0.050	0.050	ug/L		<0.050				30	
1,4-Dichlorobenzene	<0.050	0.050	ug/L		<0.050				30	
Dichlorodifluoromethane (R12)	<0.050	0.050	ug/L		<0.050				30	
1,1-Dichloroethane	<0.050	0.050	ug/L		<0.050				30	
1,2-Dichloroethane (EDC)	<0.040	0.040	ug/L		<0.040				30	
1,1-Dichloroethylene	<0.050	0.050	ug/L		<0.050				30	
cis-1,2-Dichloroethylene	<0.050	0.050	ug/L		<0.050				30	
trans-1,2-Dichloroethylene	<0.050	0.050	ug/L		<0.050				30	
2,2-Dichloropropane	<0.050	0.050	ug/L		<0.050				30	
1,2-Dichloropropane	<0.050	0.050	ug/L		<0.050				30	
1,3-Dichloropropane	<0.050	0.050	ug/L		<0.050				30	
trans-1,3-Dichloropropylene	<0.050	0.050	ug/L		<0.050				30	
cis-1,3-Dichloropropylene	<0.050	0.050	ug/L		<0.050				30	
1,1-Dichloropropylene	<0.050	0.050	ug/L		<0.050				30	
Ethylbenzene	<0.050	0.050	ug/L		<0.050				30	
Hexachlorobutadiene	<0.050	0.050	ug/L		<0.050				30	
2-Hexanone (MBK)	<0.50	0.50	ug/L		<0.50				30	
Isopropylbenzene	<0.050	0.050	ug/L		<0.050				30	
4-Isopropyltoluene	<0.050	0.050	ug/L		<0.050				30	
Methyl-tert-Butyl Ether (MTBE)	<0.25	0.25	ug/L		<0.25				30	
Methylene Chloride	<0.25	0.25	ug/L		<0.25				30	
4-Methyl-2-pentanone (MIBK)	<0.50	0.50	ug/L		<0.50				30	
Naphthalene	<0.030	0.030	ug/L		<0.030				30	
n-Propylbenzene	<0.050	0.050	ug/L		<0.050				30	
Styrene	<0.050	0.050	ug/L		<0.050				30	
1,1,2,2-Tetrachloroethane	<0.050	0.050	ug/L		<0.050				30	

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor by GC/MS - Field - Quality Control</b>										
<i>Batch B5C1115 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B5C1115-DUP1) Continued Source: 5C09027-15 Prepared &amp; Analyzed: 03/07/15</b>										
1,1,1,2-Tetrachloroethane	<0.050	0.050	ug/L		<0.050				30	
Tetrachloroethylene (PCE)	<0.050	0.050	ug/L		<0.050				30	
Toluene	0.182	0.050	ug/L		0.172			5.63	30	
1,2,4-Trichlorobenzene	<0.050	0.050	ug/L		<0.050				30	
1,2,3-Trichlorobenzene	<0.050	0.050	ug/L		<0.050				30	
1,1,2-Trichloroethane	<0.050	0.050	ug/L		<0.050				30	
1,1,1-Trichloroethane	<0.050	0.050	ug/L		<0.050				30	
Trichloroethylene (TCE)	<0.050	0.050	ug/L		<0.050				30	
Trichlorofluoromethane (R11)	0.248	0.050	ug/L		0.238			4.11	30	
1,2,3-Trichloropropane	<0.050	0.050	ug/L		<0.050				30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.25	0.25	ug/L		<0.25				30	
1,3,5-Trimethylbenzene	<0.050	0.050	ug/L		<0.050				30	
1,2,4-Trimethylbenzene	<0.050	0.050	ug/L		<0.050				30	
Vinyl chloride	<0.010	0.010	ug/L		<0.010				30	
o-Xylene	<0.050	0.050	ug/L		<0.050				30	
m,p-Xylenes	0.208	0.050	ug/L		0.200			3.68	30	
Isopropanol (IPA)	<10	10	ug/L		<0.50					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>46.4</i>		<i>ug/L</i>	<i>50</i>		<i>92.9</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>54.6</i>		<i>ug/L</i>	<i>50</i>		<i>109</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.7</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-130</i>			

*Eydie Schwartz*

**Eydie Schwartz**  
Project Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Leighton & Associates, Inc.. [SC]  
**Project No:** NA  
**Project Name:** 6th and Alameda

**AA Project No:** MB93101  
**Date Received:** 03/07/15  
**Date Reported:** 03/13/15

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### Special Notes

- [1] = **AA-C1** : The percent recovery for this analyte exceeds acceptance criteria.
- [2] = **AA-C2** : The percent recovery for this analyte was below acceptance criteria.
- [3] = **AA-C3** : The RPD value for this analyte exceeds acceptance criteria.

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*Eydie Schwartz*

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**Eydie Schwartz**  
Project Manager



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

A.A. COC No.: 122017

70042484

Page 1 of 2

Client: <u>LEIGHTON (SC)</u>	Project Name / No.: <u>UNION PLAZA</u>	Sampler's Name: <u>Jorge Peraza</u>
Project Manager: <u>ROBIN POLBON</u>	Site Address: <u>1706 E. 6TH ST</u>	Sampler's Signature: <u>[Signature]</u>
Phone:	City: <u>LOS ANGELES</u>	P.O. No.:
Fax:	State & Zip: <u>CA</u>	Quote No.:

### TAT Turnaround Codes \*\*

- ① = Same Day Rush
- ② = 24 Hour Rush
- ③ = 48 Hour Rush
- ④ = 72 Hour Rush
- ⑤ = 5 Day Rush
- X = 10 Working Days (Standard TAT)

### ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	ANALYSIS REQUESTED (Test Name)		Special Instructions
						PLEASE	METHANES	
						Please enter the TAT Turnaround Codes ** below		
AMBIENT AA	5009027-01		1016	V	2	X		
SVP-6-5	2		1107	V	4	X	X	PVI
SVP-6-5	3		1134	V	4	X	X	PV3
SVP-6-5	4		1200	V	4	X	X	PV10
SVP-6-10	5		1232	V	4	X	X	PVI
SVP-6-20	6		1234	V	5	X	X	PVI
SVP-5-5	7		1253	V	9	X	X	PVI
SVP-5-10	8		1303	V	2	X	X	PVI
SVP-5-20	9		1308	V	2	X	X	PVI
SVP-1-5	10		1330	V	4	X	X	PVI
SVP-1-5 DUP	11		1330	V	3	X	X	PVI
SVP-1-10	12		1357	V	7	X	X	PVI
SVP-1-20	13		1419	V	3	X	X	PVI
SVP-2-5	14		1435	V	3	X	X	PVI
SVP-2-10	15		1445	V	3	X	X	PVI

REVIEWED

Date 3/9/15 Time 0941  
 TAT    Days Sign: E. Schwan

Relinquished by

[Signature]

Date

3-7-15

Time

1700

Received by

[Signature]

Relinquished by

[Signature]

Date

3/9/15

Time

0815

Received by

Eydie Schwan

Relinquished by

Date

Time

Received by

A.A. Project No.: MB913101/5009027

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

A.A. COC No.: 22018

70042481

Page 2 of 2

Client: LEIGHTON (SC) Project Name / No.: UNION PLANT Sampler's Name: Jorge Peraza  
 Project Manager: ROBIN FARSON Site Address: 1206 E 6TH ST Sampler's Signature: [Signature]  
 Phone: City: LOS ANGELES P.O. No.:  
 Fax: State & Zip: CA Quote No.:

### TAT Turnaround Codes \*\*

- ① = Same Day Rush
- ② = 24 Hour Rush
- ③ = 48 Hour Rush
- ④ = 72 Hour Rush
- ⑤ = 5 Day Rush
- X = 10 Working Days (Standard TAT)

### ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	ANALYSIS REQUESTED (Test Name)										Special Instructions				
						Please enter the TAT Turnaround Codes ** below														
SVP-2-10 DUB	SC09027-14	3-7-15	1445	V	3	X	X													
SVP-2-20	17	3-7-15	1510	V	3	X	X													
SVP-3-5	18	↓	1534	V	3	X	X													
SVP-3-10	19		1555	V	3	X	X													
SVP-3-20	20		1605	V	3	X	X													
SVP-4-5	21		1622	V	3	X	X													
SVP-4-10	22		1632	V	3	X	X													
SVP-4-20	23		1651	V	3	X	X													

**For Laboratory Use**

<b>REVIEWED</b> Date 3/9/15 Time 0941 TAT Days Sign: [Signature]	Relinquished by [Signature]	Date 3-7-15	Time 1700	Received by [Signature]
	Relinquished by [Signature]	Date 3/9/15	Time 0815	Received by [Signature]
	Relinquished by	Date	Time	Received by

A.A. Project No.: MB9310/SC09027

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.

APPENDIX D

DTSC VAPOR INTRUSION SCREENING MODEL –  
SOIL GAS SPREADSHEET

## Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

**Scenario:** Residential  
**Chemical:** Trichlorofluoromethane

### DATA ENTRY SHEET

Results Summary				
Soil Gas Conc. ( $\mu\text{g}/\text{m}^3$ )	Attenuation Factor (unitless)	Indoor Air Conc. ( $\mu\text{g}/\text{m}^3$ )	Cancer Risk	Noncancer Hazard
<b>2.30E+03</b>	<b>1.2E-03</b>	<b>2.7E+00</b>	<b>NA</b>	<b>3.7E-03</b>

Reset to

Soil Gas Concentration Data				
ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., $C_g$ ( $\mu\text{g}/\text{m}^3$ )	OR	ENTER Soil gas conc., $C_g$ (ppmv)	Chemical
75694	2.30E+03			Trichlorofluoromethane

MORE  
↓

ENTER Depth below grade to bottom of enclosed space floor, $L_F$ (15 or 200 cm)	ENTER Soil gas sampling depth below grade, $L_s$ (cm)	ENTER Average soil temperature, $T_s$ ( $^{\circ}\text{C}$ )	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, $k_v$ ( $\text{cm}^2$ )
15	152	24	S		

MORE  
↓

ENTER Vadose zone SCS soil type  Lookup Soil	ENTER Vadose zone soil dry bulk density, $\rho_b^A$ ( $\text{g}/\text{cm}^3$ )	ENTER Vadose zone soil total porosity, $n^V$ (unitless)	ENTER Vadose zone soil water-filled porosity, $\theta_w^V$ ( $\text{cm}^3/\text{cm}^3$ )	ENTER Average vapor flow rate into bldg. (Leave blank to calculate)  $Q_{\text{soil}}$ (L/m)
S	1.66	0.375	0.054	5

MORE  
↓

Lookup  
Receptor

ENTER Averaging time for carcinogens, $AT_C$ (yrs)	ENTER Averaging time for noncarcinogens, $AT_{NC}$ (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)	ENTER Exposure Time ET (hrs/day)	ENTER Air Exchange Rate ACH ( $\text{hour}^{-1}$ )
70	26	26	350	24 <b>(NEW)</b>	0.5 <b>(NEW)</b>

**NEW=>** Residential  
**END**

## Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

**Scenario:** Residential  
**Chemical:** Trichlorofluoromethane

### DATA ENTRY SHEET

Results Summary				
Soil Gas Conc. ( $\mu\text{g}/\text{m}^3$ )	Attenuation Factor (unitless)	Indoor Air Conc. ( $\mu\text{g}/\text{m}^3$ )	Cancer Risk	Noncancer Hazard
<b>2.50E+03</b>	<b>7.5E-04</b>	<b>1.9E+00</b>	<b>NA</b>	<b>2.6E-03</b>

Reset to

Soil Gas Concentration Data				
ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., $C_g$ ( $\mu\text{g}/\text{m}^3$ )	OR	ENTER Soil gas conc., $C_g$ (ppmv)	Chemical
75694	2.50E+03			Trichlorofluoromethane

MORE  
↓

ENTER Depth below grade to bottom of enclosed space floor, $L_F$ (15 or 200 cm)	ENTER Soil gas sampling depth below grade, $L_s$ (cm)	ENTER Average soil temperature, $T_s$ ( $^{\circ}\text{C}$ )	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, $k_v$ ( $\text{cm}^2$ )
15	305	24	S		

MORE  
↓

ENTER Vadose zone SCS soil type  Lookup Soil	ENTER Vadose zone soil dry bulk density, $\rho_b^A$ ( $\text{g}/\text{cm}^3$ )	ENTER Vadose zone soil total porosity, $n^V$ (unitless)	ENTER Vadose zone soil water-filled porosity, $\theta_w^V$ ( $\text{cm}^3/\text{cm}^3$ )	ENTER Average vapor flow rate into bldg. (Leave blank to calculate)  $Q_{\text{soil}}$ (L/m)
S	1.66	0.375	0.054	5

MORE  
↓

Lookup  
Receptor

ENTER Averaging time for carcinogens, $AT_C$ (yrs)	ENTER Averaging time for noncarcinogens, $AT_{NC}$ (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)	ENTER Exposure Time ET (hrs/day)	ENTER Air Exchange Rate ACH (hour) <sup>-1</sup>
70	26	26	350	24 <b>(NEW)</b>	0.5 <b>(NEW)</b>

**NEW=>** Residential  
**END**



## Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Residential  
Chemical: Trichlorofluoromethane

### DATA ENTRY SHEET

Results Summary				
Soil Gas Conc. ( $\mu\text{g}/\text{m}^3$ )	Attenuation Factor (unitless)	Indoor Air Conc. ( $\mu\text{g}/\text{m}^3$ )	Cancer Risk	Noncancer Hazard
2.70E+03	4.3E-04	1.2E+00	NA	1.6E-03

Reset to

Soil Gas Concentration Data				
ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., $C_g$ ( $\mu\text{g}/\text{m}^3$ )	OR	ENTER Soil gas conc., $C_g$ (ppmv)	Chemical
75694	2.70E+03			Trichlorofluoromethane

MORE  
↓

ENTER Depth below grade to bottom of enclosed space floor, $L_F$ (15 or 200 cm)	ENTER Soil gas sampling depth below grade, $L_s$ (cm)	ENTER Average soil temperature, $T_s$ ( $^{\circ}\text{C}$ )	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, $k_v$ ( $\text{cm}^2$ )
15	607	24	S		

MORE  
↓

ENTER Vadose zone SCS soil type Lookup Soil	ENTER Vadose zone soil dry bulk density, $\rho_b^A$ ( $\text{g}/\text{cm}^3$ )	ENTER Vadose zone soil total porosity, $n^V$ (unitless)	ENTER Vadose zone soil water-filled porosity, $\theta_w^V$ ( $\text{cm}^3/\text{cm}^3$ )	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) $Q_{\text{soil}}$ (L/m)
S	1.66	0.375	0.054	5

MORE  
↓

Lookup  
Receptor

ENTER Averaging time for carcinogens, $AT_C$ (yrs)	ENTER Averaging time for noncarcinogens, $AT_{NC}$ (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)	ENTER Exposure Time ET (hrs/day)	ENTER Air Exchange Rate ACH ( $\text{hour}^{-1}$ )
70	26	26	350	24 (NEW)	0.5 (NEW)

NEW=> Residential

END

## Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Residential  
Chemical: Toluene

### DATA ENTRY SHEET

Results Summary				
Soil Gas Conc. ( $\mu\text{g}/\text{m}^3$ )	Attenuation Factor (unitless)	Indoor Air Conc. ( $\mu\text{g}/\text{m}^3$ )	Cancer Risk	Noncancer Hazard
1.80E+02	8.4E-04	1.5E-01	NA	4.8E-04

Reset to

Soil Gas Concentration Data				
ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., $C_g$ ( $\mu\text{g}/\text{m}^3$ )	OR	ENTER Soil gas conc., $C_g$ (ppmv)	Chemical
108883	1.80E+02			Toluene

MORE  
↓

ENTER Depth below grade to bottom of enclosed space floor, $L_F$ (15 or 200 cm)	ENTER Soil gas sampling depth below grade, $L_s$ (cm)	ENTER Average soil temperature, $T_s$ ( $^{\circ}\text{C}$ )	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, $k_v$ ( $\text{cm}^2$ )
15	305	24	S		

MORE  
↓

ENTER Vadose zone SCS soil type Lookup Soil	ENTER Vadose zone soil dry bulk density, $\rho_b^A$ ( $\text{g}/\text{cm}^3$ )	ENTER Vadose zone soil total porosity, $n^V$ (unitless)	ENTER Vadose zone soil water-filled porosity, $\theta_w^V$ ( $\text{cm}^3/\text{cm}^3$ )	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) $Q_{\text{soil}}$ (L/m)
S	1.66	0.375	0.054	5

MORE  
↓

Lookup  
Receptor

ENTER Averaging time for carcinogens, $AT_C$ (yrs)	ENTER Averaging time for noncarcinogens, $AT_{NC}$ (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)	ENTER Exposure Time ET (hrs/day)	ENTER Air Exchange Rate ACH ( $\text{hour}^{-1}$ )
70	26	26	350	24 (NEW)	0.5 (NEW)

NEW=> Residential

END

## Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Residential  
Chemical: m-Xylene

### DATA ENTRY SHEET

Results Summary				
Soil Gas Conc. ( $\mu\text{g}/\text{m}^3$ )	Attenuation Factor (unitless)	Indoor Air Conc. ( $\mu\text{g}/\text{m}^3$ )	Cancer Risk	Noncancer Hazard
2.10E+02	7.7E-04	1.6E-01	NA	1.6E-03

Reset to

Soil Gas Concentration Data				
ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., $C_g$ ( $\mu\text{g}/\text{m}^3$ )	OR	ENTER Soil gas conc., $C_g$ (ppmv)	Chemical
108383	2.10E+02			m-Xylene

MORE  
↓

ENTER Depth below grade to bottom of enclosed space floor, $L_F$ (15 or 200 cm)	ENTER Soil gas sampling depth below grade, $L_s$ (cm)	ENTER Average soil temperature, $T_s$ ( $^{\circ}\text{C}$ )	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, $k_v$ ( $\text{cm}^2$ )
15	305	24	S		

MORE  
↓

ENTER Vadose zone SCS soil type  Lookup Soil	ENTER Vadose zone soil dry bulk density, $\rho_b^A$ ( $\text{g}/\text{cm}^3$ )	ENTER Vadose zone soil total porosity, $n^V$ (unitless)	ENTER Vadose zone soil water-filled porosity, $\theta_w^V$ ( $\text{cm}^3/\text{cm}^3$ )	ENTER Average vapor flow rate into bldg. (Leave blank to calculate)  $Q_{\text{soil}}$ (L/m)
S	1.66	0.375	0.054	5

MORE  
↓

Lookup  
Receptor

ENTER Averaging time for carcinogens, $AT_C$ (yrs)	ENTER Averaging time for noncarcinogens, $AT_{NC}$ (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)	ENTER Exposure Time ET (hrs/day)	ENTER Air Exchange Rate ACH ( $\text{hour}^{-1}$ )
70	26	26	350	24 (NEW)	0.5 (NEW)

NEW=> Residential  
END

## Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Residential  
Chemical: p-Xylene

### DATA ENTRY SHEET

Results Summary				
Soil Gas Conc. ( $\mu\text{g}/\text{m}^3$ )	Attenuation Factor (unitless)	Indoor Air Conc. ( $\mu\text{g}/\text{m}^3$ )	Cancer Risk	Noncancer Hazard
2.10E+02	7.7E-04	1.6E-01	NA	1.6E-03

Reset to

Soil Gas Concentration Data				
ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., $C_g$ ( $\mu\text{g}/\text{m}^3$ )	OR	ENTER Soil gas conc., $C_g$ (ppmv)	Chemical
106423	2.10E+02			p-Xylene

MORE  
↓

ENTER Depth below grade to bottom of enclosed space floor, $L_F$ (15 or 200 cm)	ENTER Soil gas sampling depth below grade, $L_s$ (cm)	ENTER Average soil temperature, $T_s$ ( $^{\circ}\text{C}$ )	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, $k_v$ ( $\text{cm}^2$ )
15	305	24	S		

MORE  
↓

ENTER Vadose zone SCS soil type  Lookup Soil	ENTER Vadose zone soil dry bulk density, $\rho_b^A$ ( $\text{g}/\text{cm}^3$ )	ENTER Vadose zone soil total porosity, $n^V$ (unitless)	ENTER Vadose zone soil water-filled porosity, $\theta_w^V$ ( $\text{cm}^3/\text{cm}^3$ )	ENTER Average vapor flow rate into bldg. (Leave blank to calculate)  $Q_{\text{soil}}$ (L/m)
S	1.66	0.375	0.054	5

MORE  
↓

Lookup  
Receptor

ENTER Averaging time for carcinogens, $AT_C$ (yrs)	ENTER Averaging time for noncarcinogens, $AT_{NC}$ (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)	ENTER Exposure Time ET (hrs/day)	ENTER Air Exchange Rate ACH ( $\text{hour}^{-1}$ )
70	26	26	350	24 (NEW)	0.5 (NEW)

NEW=> Residential  
END

METHANE GAS SCREENING SURVEY REPORT  
SIXTH AND ALAMEDA LLC DEVELOPMENT SITE  
1206-1338 EAST 6<sup>th</sup> STREET AND  
1205-1321 WHOLESALE STREET  
LOS ANGELES, CALIFORNIA

Prepared For:

**Sixth and Alameda LLC**

2392 Morse Avenue  
Irvine, California 92614

Project No. 11723.001

January 23, 2018



Leighton and Associates, Inc.

A LEIGHTON GROUP COMPANY



Leighton and Associates, Inc.  
A LEIGHTON GROUP COMPANY

January 23, 2018

Project No. 11723.001

Sixth and Alameda LLC  
2392 Morse Avenue  
Irvine, California 92614

Attention: Mr. Jeffrey I. Sofferman, Senior Vice President, Multifamily

**Subject: Methane Gas Screening Survey Report  
Sixth and Alameda LLC Development Site  
1206-1338 East 6<sup>th</sup> Street and 1205-1321 Wholesale Street  
Los Angeles, California**

## **INTRODUCTION**

Leighton and Associates, Inc. (Leighton) is pleased to present Sixth and Alameda LLC (6AM) this report summarizing the results of a methane gas screening survey for the property located at 1206-1338 East 6<sup>th</sup> Street and 1205-1321 Wholesale Street in the City of Los Angeles, California (the Site or subject property) (Figure 1). The Site is located within the City of Los Angeles Methane Buffer Zone based on the City of Los Angeles, Department of Building and Safety (LADBS), Methane and Methane Buffer Zones Map. Leighton understands that 6AM intends to develop the site into a mixed-use residential and commercial property with multi-level subterranean parking.

The methane gas screening survey was completed to comply with the site testing requirements established in the LADBS *Site Testing Standards for Methane* (January 1, 2004; Document Number: P/BC 2014-101) (hereinafter, the LADBS Methane Standard). The LADBS Methane Standard establishes the standard protocol for site testing that provides design input data for methane mitigation systems required by Division 71 of the Los Angeles Building Code. Appendix A presents a list of the References reviewed for this report.

## **SITE DESCRIPTION**

The Site is an approximately 14.57-acre property located southeast of the intersection of East 6<sup>th</sup> Street and South Alameda Street, at the addresses of 1206 through 1338 East 6<sup>th</sup> Street and 1205 through 1338 Wholesale Street in Los Angeles, California. The Los Angeles County Assessor's Office designates the Site as Assessor Identification Numbers (AINs) 5164-010-003, 5164-010-004, and 5164-010-005. The Site is developed with two east-west oriented and elongate rectangular warehouse buildings that are primarily occupied by tenants in the produce distribution industry. The buildings house multiple truck loading docks, and have a combined area of approximately 287,376 square feet. The existing buildings are surrounded by loading zones and paved parking areas.

6AM's planned redevelopment project will include 1,305 apartments, 431 condominiums, 412 hotel rooms, 250,000 square feet of offices, 23,000 square feet of gallery space, 128,000 square feet of shops and restaurants, as well as a school. Six 110-foot concrete structures are proposed for the eastern portion of the property and will be arranged in rows to mimic the industrial setting of the Los Angeles Arts District. The project will also include two 58-story towers on the western portion of the Site. Subterranean parking at the site will be constructed at five levels which will involve the removal of soils beneath the construction areas. The methane gas screening survey was designed to address the LADBS sampling requirements for methane based on the depth of each proposed parking level. In effect, the LADBS requires sampling for methane gas at depths 5 feet, 10 feet, and 20 feet beneath the base of the parking structure slabs. Figure 2 displays the multiple methane gas sampling locations at varying depths based on the 6AM projected parking level depths.

## **LADBS METHANE STANDARD TESTING REQUIREMENTS**

The LADBS Methane Standard requires methane gas concentrations and pressure measurements for the gas probe tests. These include the following:

- There shall be at least one soil gas probes that for every 20,000 ft.<sup>2</sup> or portion thereof of site area. Regardless of the area, all sites shall install a minimum of two gas probe sets.
- The site area of very large sites may be calculated as the area of the building footprint plus the area within 100 feet of the building perimeter.

- Each gas probes that shall consist of three probes, installed at approximate sampling depth of 5 feet, 10 feet, and 20 feet below the elevation of the lowest building slab or footing. Figure 2 shows the boring locations where the soil gas probe sets (i.e., three nested soil gas probes) were installed.
- Gas probe sets shall be installed a minimum of 12 inches above the groundwater level. Gas probe sets are not required to be installed below the ground water level.
- As it relates to recording methane and gas pressure data, the LADBS requires two sequential measurements taken with a minimum of 24-hour interval following placement of the gas probe sets. Soil gas samples shall not be collected during increasing barometric pressure from a pre-frontal weather condition.
- Site testing data shall be recorded on Form 1 - Certificate of Compliance for Methane Test Data and stamped by the California Professional Geologist or Engineer.

## **INVESTIGATIVE METHODOLOGY**

The investigative methodology for the methane survey was developed to comply with the LADBS Methane Standard and included, and was limited to, the activities summarized below.

### **Pre-field Activities**

#### **Health and Safety Plan**

A Site Specific Health and Safety Plan (HSP) was prepared for work performed at the Site. All onsite Leighton personnel signed the HSP acknowledging acceptance. The document was kept onsite at all times during the field activities. The HSP was prepared in compliance with the Occupational Safety and Health Administration (OSHA) Chapter 29 of the Code of Federal Regulations (29 CFR) 1910.120.

#### **Underground Services Alert Notification and Private Subsurface Utility Survey**

Underground Service Alert (USA; aka DigAlert) was contacted 48 hours prior to commencement of fieldwork to mark the location of public utilities that may enter the Site from nearby streets or public right-of-ways. The proposed boring locations were clearly marked in white paint prior to contacting USA. In addition, Spectrum Geophysics conducted a geophysical utility survey of the project area on August 3, 2017 to evaluate



for the presence of private subsurface utilities, anomalies, or structures near the proposed boring locations. The utility survey included the use of a Vivax transmitter with matched receiver, Schonstedt Mac Series hand-held magnetometer, Fisher TW-6 M-Scope shallow focus metal detector, Dynatel 500 Series transmitter with matched receiver, and a Noggin Cart Ground Penetrating Radar (GPR) unit. Systematic traverses with the aforementioned instruments were conducted to delineate the presence of detectable underground utilities in the vicinity of proposed boreholes. The findings of the survey were marked on the ground surface with paint. Boring locations that conflicted with underground utilities were relocated nearby. No utilities were encountered during the drilling associated with the methane survey.

## **Field Activities**

### **Multi-Nested Soil Gas Probe Installation**

Gas probe sets (hereinafter, multi-nested soil gas probes) at three depths were installed in 35 soil borings at the Site. As shown on Figure 2 and in accordance with LADBS requirements, the 35 soil borings were drilled based on the projected depths for the 6AM subterranean parking structure building slabs. Information provided by 6AM indicated that five different levels would be required for the subterranean parking structure. Accordingly and in accordance with LADBS requirements, the gas probes installed to evaluate for the presence of methane were required to be installed at depths of 5 feet, 10 feet, and 20 feet below the slab or mat footing. The depth of the nested probe installations ranged from 58 feet bgs to 93 feet bgs at the locations depicted on Figure 2.

The borings were advanced by BC2 Environmental using a truck-mounted roto-sonic drilling rig. Between August 16, 2017 and September 21, 2017, multi-nested soil gas probes B1 through B35, each containing three individual soil gas probes, were installed at the locations shown on Figure 2. The following table reflects the methane gas sampling approach recommended in the LADBS Methane Standard and presents the rationale for the probe installation depths and adjustments based on subsurface conditions encountered during drilling:

Boring/Probe ID	Nested Soil Gas Probe Sampling Depths	Rationale for Soil Gas Probe Sampling Depths
B1, B2, B11, B12, and B13	58, 63, and 73 feet bgs	Base of mat footing is 53 feet bgs
B14, and B27	63, 68, and 78 feet bgs	Base of mat footing is 58 feet bgs
B23 and B25	78, 83, and 93 feet bgs	Base of mat footing is 73 feet bgs
B4, B15, B16, B28, B29, B8, B9, B10, B20, B21, B22, B33, B34, and B35	43, 48 and 58 feet bgs	Base of mat footing is 38 feet bgs
B5, B6, B7, B17, B19, B30, B31, and B32	53, 58 and 68 feet bgs	Base of mat footing is 48 feet bgs
B3	63, 68, and 84 feet bgs	Fine-grained soil encountered at proposed sampling depth of 78 feet bgs
B18	53, 63, and 68 feet bgs	Fine-grained soil encountered at proposed sampling depth of 58 feet bgs
B24	78, 86, and 93 feet bgs	Fine-grained soil encountered at proposed sampling depth of 83 feet bgs
B26	52, 57, and 67 feet bgs	Perched/localized groundwater encountered at 73 feet bgs

The soil gas probes were constructed of ¼-inch Teflon tubing with a 1-inch polypropylene airstone implant at the terminus and a 3-way valve connected to the tubing at the surface. The probe implants were installed within 1 foot of clean sand at the target sampling depth within the 6-inch diameter borehole. One foot of dry granular bentonite was placed above the sand layer and 6 inches of hydrated bentonite was placed above the dry bentonite, with bentonite grout backfilled above the hydrated bentonite to the bottom of the next sand layer, repeating to the surface. Although the LADBS Methane Standard allows for the annular space in the boring to be backfilled with native soil, bentonite grout was used due to the quantity of gravel and cobbles present in the soil cuttings that could have increased the potential for bridging or voids within the annular space. The prevalence of gravelly/cobbly coarse-grained soils beneath the Site required the use of a rotasonic drilling rig to complete the soil gas probe installation, and as a result of the drilling methodology, the soil gas probes were allowed to equilibrate with existing soil conditions for a minimum of one week prior to sampling for methane gas. The locations of the soil gas probes are shown on Figure 2, and an example construction of the soil gas probes is presented in Figure 3.

## **Methane Gas Survey**

The soil gas probes were installed and sampled in general conformance with the "Advisory - Active Soil Gas Investigations," published by the California Environmental Protection Agency DTSC (DTSC, July 2015). As noted in the section above, the soil gas probes were allowed to equilibrate for a minimum of one week before sampling.

**Field Monitoring Instruments:** Soil gas probes were monitored for the potential presence of methane and probe pressure during these events by Leighton using a hand-held, LandTec™ gas monitoring instrument Model GEM 2000+™ (GEM). The GEM has a minimum gas detection limit of 0.1 percent (%) and is equipped with a barometric pressure sensor with a pressure accuracy of approximately 5 millibars which is equivalent to 0.15 inches of mercury. The GEM was calibrated to a 15.0% (150,000 parts per million by volume [ppmv]) methane gas standard in the field prior to use. The GEM readings can be influenced by other hydrocarbon gases present within the sample (e.g., ethane, propane, butane, etc.). Page 12 of the GEM manual (LandTec™, 2010) notes "...If there are other hydrocarbons present, the Methane reading will be higher (never lower) than the actual Methane concentration being monitored."

At each soil gas probe, differential soil gas pressure readings were obtained in the field using a Dwyer Series 475 Mark III digital manometer (0-20 inches of water column) prior to testing. Additionally, barometric pressure readings were noted at each nested probe location prior to monitoring using the GEM. At each soil gas probe location and in accordance with the LADBS Methane Standard, the same methane monitoring methodology was repeated a minimum of 24 hours after the initial measurement. A summary of the field measurements is presented in Table 1 and in the Investigative Results section of this report.

**Soil Gas Monitoring and Sampling Procedures:** Prior to monitoring and sampling, an electric vacuum pump (set to draw 0.200 liters/min of soil gas at a maximum vacuum of 100-inches of water) was attached to the probe and at least three volumes were purged from each soil gas probe. Soil gas measured with the GEM from the probes which indicated possible methane gas concentrations above 0.0% volume were subsequently sampled and analytically tested for the presence of methane by using a fixed laboratory. The soil gas samples were obtained by drawing the sample through a Luer lock connection into an air-tight glass syringe, which was then transferred into a Tedlar bag for sample containment pending transport to the analytical laboratory.

## Laboratory Analyses

An ELAP-certified analytical laboratory (Jones Environmental, Inc., Santa Fe Springs, CA) conducted soil gas sample analysis for methane from the Tedlar bags by using method ASTM D1946. The soil gas samples were analyzed within 6 hours of the collection time. Soil gas samples were collected for methane analysis from the following thirteen (13) probes which exhibited instrument response for possible methane above 0.0% volume:

- Probes B2 and B29 (each at 58 feet bgs),
- Probe B3 (at 63 feet, 68 feet, and 84 feet bgs),
- Probes B8 and B9 (each at 43 feet, 48 feet, and 58 feet bgs), and
- Probe B34 (at 48 feet and 58 feet bgs).

The soil gas samples collected from the three nested probes from probe B3 were also analyzed for volatile organic compounds (VOCs) by US EPA Method 8260B. This was performed after the laboratory reported that no methane was detected in the original sample. A summary of the analytical testing results is presented in the Investigative Results section of this report, and copies of the laboratory analytical reports and chain-of-custody documentation are presented in Appendix B.

## Investigation-Derived Wastes (IDW)

Fifty-six 55-gallon drums containing soil cuttings were produced during drilling activities that were completed between August 16, 2017 and September 21, 2017. All 56 drums were properly labeled, sealed and stored in a secure area designated by the property manager. On November 29, 2017, the 56 drums were removed by American Integrated Services, Inc. (AIS) and temporarily transferred to their storage yard on 30440 Agoura Road in Agoura Hills, California. On December 22, 2017, the drums were transported by AIS to the Soil Safe of California thermal desorption facility located at 12328 Hibiscus Avenue in Adelanto, California. Prior to removal of the drums, AIS collected soil samples from the drums for laboratory profiling purposes and submitted the soil samples to A & R Laboratories In Ontario, California (Appendix C). AIS noted in a November 27, 2017 email that the drummed soil cuttings would be managed as Nonhazardous Waste (Appendix C). AIS provided manifests documenting that the drummed soil cuttings were transported to their storage facility and subsequently transported and treated at the Soil Safe of California facility (Appendix D).

## **INVESTIGATIVE RESULTS**

### **Geologic and Hydrogeologic Conditions**

Soils encountered during the investigation consisted primarily of gravelly sands with some interbedded silty sand, fine to coarse grained sand and trace clay. Stained or odorous soil was not observed or noted. During boring advancement, boring B30 was moved approximately four feet northwest due to refusal encountered at the original B30 location at 4 feet bgs.

No groundwater was encountered in 34 of the 35 boring locations; however, perched groundwater was encountered at a depth of 73 feet bgs in Boring B26. To avoid installing the probes below the perched groundwater in Boring 26, the nested soil gas probes were installed at depths of 67 feet bgs, 57 feet bgs, and 52 feet bgs. Leighton researched records for highest measured groundwater elevation in the area of the Site. The highest groundwater elevation found was documented at an elevation of 157.89 feet above mean sea level, or approximately 96.5 feet bgs, in a 2009 study completed by Ami Adini & Associates, Inc. (AAA) for a facility located 0.2 miles north of the Site (AAA, 2009).

### **Field Pressure and Possible Methane Readings Using Field Instruments**

Field differential pressure and methane measurements from the multi-nested soil gas probes are summarized in Table 1. The locations and depths of the soil gas probes in accordance with the proposed parking structure footing depths are shown on Figure 2. The possible methane and pressure measurements for the field screening program are organized by depth interval and are summarized below:

#### **Footing Depth of 38 feet bgs (Probes B4, B8, B9, B10, B15, B16, B20, B21, B22, B28, B29, B33, B34, and B35):**

- Using the GEM, possible methane concentrations were detected at 0.1% volume in probes B8 (at 43, 48, and 58 feet bgs), B9 (at 43 and 48 feet bgs), B29 (at 58 feet bgs), and B34 (at 48 and 48 feet bgs). A possible methane concentration of 0.2% volume was detected in probe B9 (at 58 feet bgs). Methane was not detected in any other soil gas probe locations or depths.
- Differential pressures ranged from -0.41 inches of water in probe B20 at 58 feet bgs to +0.66 inches of water in probe B16 at 43 feet bgs.

**Footing Depth of 48 feet bgs (Probes B5, B6, B7, B17, B18, B19, B30, B31, and B32):**

- Using the GEM, methane was not detected in any soil gas probe locations or depths
- Differential pressures ranged from -0.50 inches of water to +0.05 inches of water in probe B19, both measured from the probe installed at 68 feet bgs.

**Footing Depth of 53 feet bgs (Probes B1, B2, B11, B12, and B13):**

- Using the GEM, a possible methane concentration was detected at 0.1% volume in probe B2 at 58 feet bgs. Methane was not detected in any other soil gas probe locations or depths.
- Differential pressures ranged from -0.40 inches of water in probe B2 at 73 feet bgs to +0.32 inches of water in probe B1 at 73 feet bgs.

**Footing Depth of 58 feet bgs (Probes B3, B14, and B27):**

- Using the GEM, the maximum possible methane concentrations in probe B3 were detected at 0.1% volume at 63 feet bgs, 0.2% volume at 68 feet bgs, and 0.4% volume at 84 feet bgs. Methane was not detected in any other soil gas probe locations or depths.
- Differential pressures ranged from -0.44 inches of water in probe B3 at 84 feet bgs to +2.00 inches of water in probe B27 at 78 feet bgs.

**Footing Depth of 73 feet bgs (Probes B23, B24, B25, and B26):**

- Using the GEM, methane was not detected in any soil gas probe locations or depths.
- Differential pressures ranged from -1.18 inches of water in probe B23 at 93 feet bgs to +0.22 inches of water in probe B26 at 67 feet bgs. A reading of +5.70 inches of water was measured from boring B25 at 78 feet bgs; however, no indications of methane were noted on the GEM and this pressure reading appears to have been an anomaly.

Of the 105 soil gas probes monitored for methane, 13 had indications of possible methane gas based on the GEM field instrument. Each of the 13 soil gas probes where possible methane was indicated were sampled in the field and submitted to an analytical laboratory to assess for the presence of methane.

## **Analytical Test Results from Soil Gas Sampling**

**Methane** - All 13 soil gas samples submitted for analytical testing were analyzed for methane by method ASTM D1946. Methane was not detected in any of the soil gas samples above the laboratory practical quantitation limit (PQL) of 0.01%, which is equivalent to 100 parts per million volume (ppmv).

LandTec, who manufactures the GEM, noted the following: “...Some gas sensors are sensitive to more than one type of gas. Methane sensors, for example, measure hydrocarbon bonds, which are present in all hydrocarbons, such as Ethane, Propane, Butane and others. So, if these other gases are present, your GEM will read them as Methane, and therefore report more Methane than is actually present.”

<http://www.landtecnica.com/faq/q-readings-cross-gas-effect/>.

**Other VOCs** - To evaluate for the potential presence of other VOCs that could interfere with the methane readings noted on the GEM field instrument, the analytical laboratory was directed by Leighton to analyze the soil gas samples from boring B3 (i.e., B3-63', B3-68', and B3-84') for VOCs by EPA Method 8260B. Information related to the presence of VOCs detected in the three boring B3 soil gas samples (Appendix B) and additional soil gas samples subsequently analyzed for VOCs is summarized in a memorandum prepared by Geosyntec Consultants (Santa Barbara) and presented in Appendix E.

**Discussion** - Based on review of the fixed laboratory analytical test results conducted for the presence of methane, none of the soil gas samples had detectable concentrations of methane above the PQL established for methane (i.e., commonly called non-detect). Based on the presence of VOCs detected in the boring B3 soil gas samples (Appendix B), it is considered likely that the instrument responses for methane using the GEM were associated with interferences caused by non-methane VOCs. Information pertinent to the non-methane VOCs detected in the boring B3 and other soil gas samples is presented in Appendices B and E.

Leighton reviewed the LADBS's Table 1B - Mitigation Requirements for Methane Buffer Zone (LADBS October 13, 2008; Revised February 10, 2010). No methane mitigation improvements (i.e., Site Design Levels I through V) are required by LADBS because:

1. Methane was not detected in the soil gas samples analyzed by the laboratory.
2. None of the probe locations exhibited pressure measurements exceeding 2 inches of water column. Even if the detections using the GEM were actually methane, the



pressure measurements were not significant enough to require LADBS mitigation Site Design Level.

A completed LADBS Certificate of Compliance for Methane Test Data (Form 1, Part 1) is presented in Appendix F.

## **CONCLUSIONS AND RECOMMENDATIONS**

The purpose of the methane gas screening survey was to comply with the LADBS Methane Standard and to evaluate for the presence of methane in soil gas due to the Site's location within the City of Los Angeles Methane Buffer Zone. Three nested soil gas probes were installed in 35 boring locations at the Site resulting in a total of 105 soil gas probes. In accordance with LADBS requirements, field instruments were utilized to measure for the presence of possible methane gas and gas pressures. A total of 13 soil gas samples monitored with the GEM field instrument indicated the possible presence of methane at concentrations ranging from 0.1 % to 0.4%; however, when soil gas samples were collected and analyzed by an independent laboratory, none of the 13 soil gas samples contained detectable methane above the laboratory PQL.

Three of the 13 soil gas samples analyzed by the fixed laboratory were selected and analyzed for VOCs to assess if hydrocarbon interferences may have caused the false positives in the GEM instrument. Review of the test results for the three soil gas samples indicated the presence of non-methane VOCs.

None of the gas pressures exceeded 2 inches of water column at the probe locations where the GEM field instrument indicated the presence of methane.

Based on the LADBS the Mitigation Requirements for Methane Buffer Zone, no methane mitigation improvements (i.e., Site Design Levels I through V) are required because:

- Methane was not detected in the soil gas samples analyzed by the laboratory and
- None of the probe locations exhibited pressure measurements exceeding 2 inches of water column. Even if the detections using the GEM field instrument were actually methane, the pressure measurements were not elevated enough to require LADBS mitigation site design levels.

As required by the LADBS, a Certificate of Compliance for Methane Test Data (Form 1, Part 1) by a California Professional Geologist is presented in Appendix F.

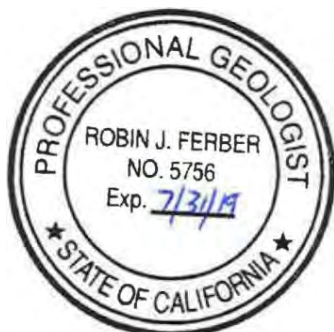


## **LIMITATIONS**

This methane gas screening survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions.

The observations and conclusions presented in this report are professional opinions based on the scope of activities, work schedule, and information obtained through the activities described herein, and are limited to the Site investigated. Opinions presented herein apply to property conditions existing at the time of our study and cannot necessarily be taken to apply to property conditions outside of the area investigated or changes that we are not aware of or have not had the opportunity to evaluate. It must be recognized that conclusions drawn from these data are limited to the site investigated, and the amount, type, distribution, and integrity of the information collected at the time of the investigation, and the methods utilized to collect and evaluate the data. Although Leighton has taken steps to obtain true copies of available information, we make no representation or warranty with respect to the accuracy or completeness of the information provided by others.

We appreciate the opportunity to assist Sixth and Alameda LLC on this important project. Please do not hesitate to call the undersigned if you have any questions regarding this report.



Respectfully submitted,

LEIGHTON AND ASSOCIATES, INC.

A handwritten signature in blue ink, appearing to be "Robin J. Ferber".

Robin J. Ferber, PG 5756  
Principal Geologist



A handwritten signature in blue ink, appearing to be "Wallace B. Sconiers, Jr.".

Wallace Sconiers, Jr., PG 9335  
Project Geologist

RJF/WBS/lr

Attachments:

Figure 1 – Site Location Map

Figure 2 – Multi-Nested Soil Gas Probe Location Map

Figure 3 – Multi-Nested Soil Gas Probe Construction Diagram

Table 1 – Multi-Nested Soil Gas Probe Monitoring Results

Appendix A – References

Appendix B – Laboratory Analytical Results and Chain-of-Custody Documentation

Appendix C – Profiling Analytical Test Data and AIS Email for Drummed Soil Cuttings

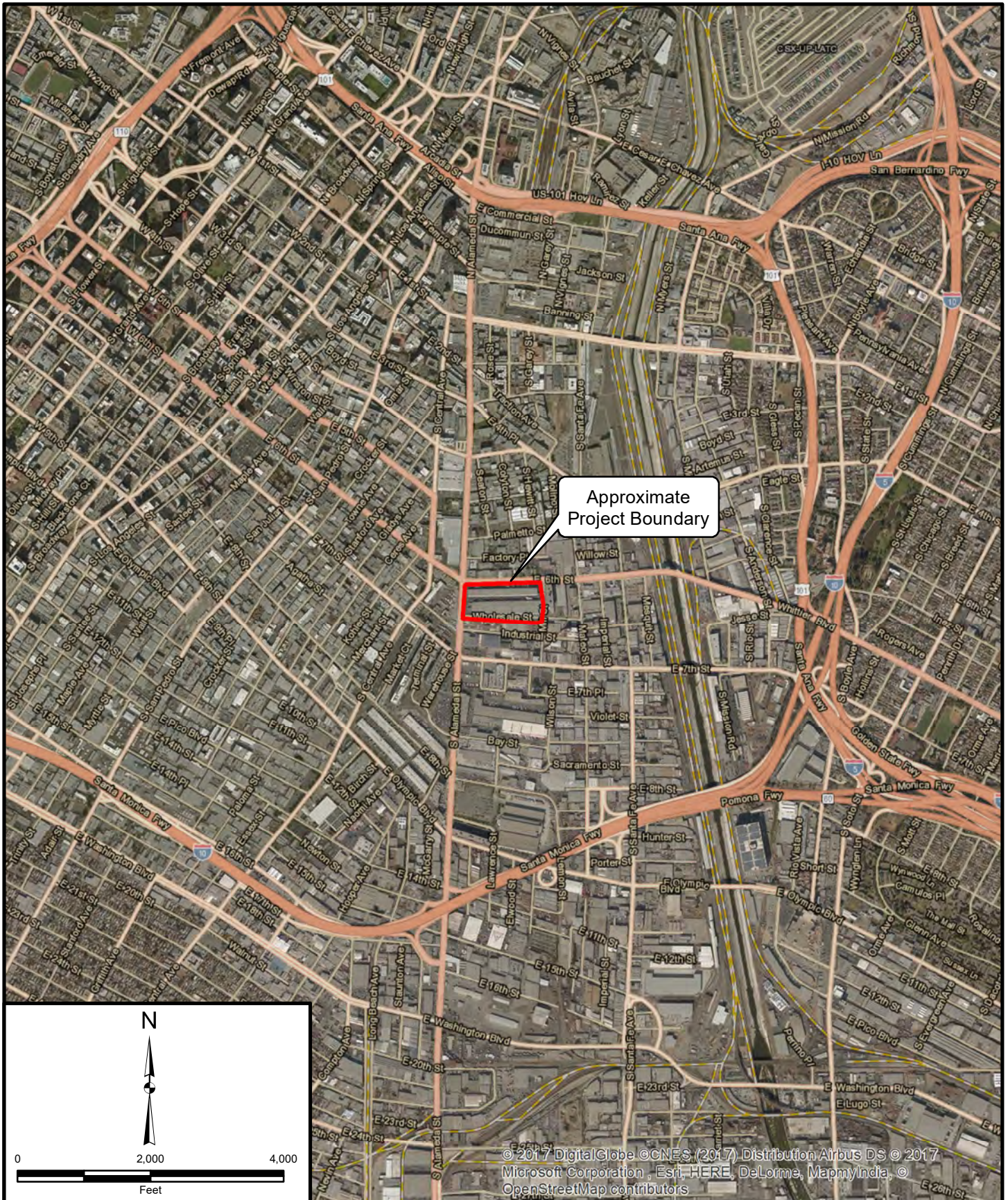
Appendix D - Disposal Manifests for Soil Safe of California

Appendix E – Geosyntec Consultants Memorandum

Appendix F – LADBS Certificate of Compliance for Methane Test Data Forms

Distribution: (Email) Addressee

(Email) Paul Singarella, Esq., Latham & Watkins LLP



Project: 11723.001	Eng/Geol: RJF
Scale: 1" = 2,000'	Date: October 2017
Base Map: ESRI ArcGIS Online 2017	
Thematic Information: Leighton	
Author: Leighton Geomatics (mmurphy)	

## SITE LOCATION MAP

6th and Alameda Methane Gas Survey  
1206-1338 E. 6th Street and 1205-1321 Wholesale Street  
Los Angeles, California

Figure 1



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**Legend**

- B29 Approximate Location of Multi-Nested Soil Gas Probe
  - Approximate Site Boundary
- Depth of Soil Gas Probes**
- 43', 48', 58'
  - 63', 68', 78'
  - 78', 83', 93'
  - 58', 63', 73'
  - 53', 58', 68'
- \* Probe installation depths were adjusted in the field to depths shown on map based on subsurface conditions.



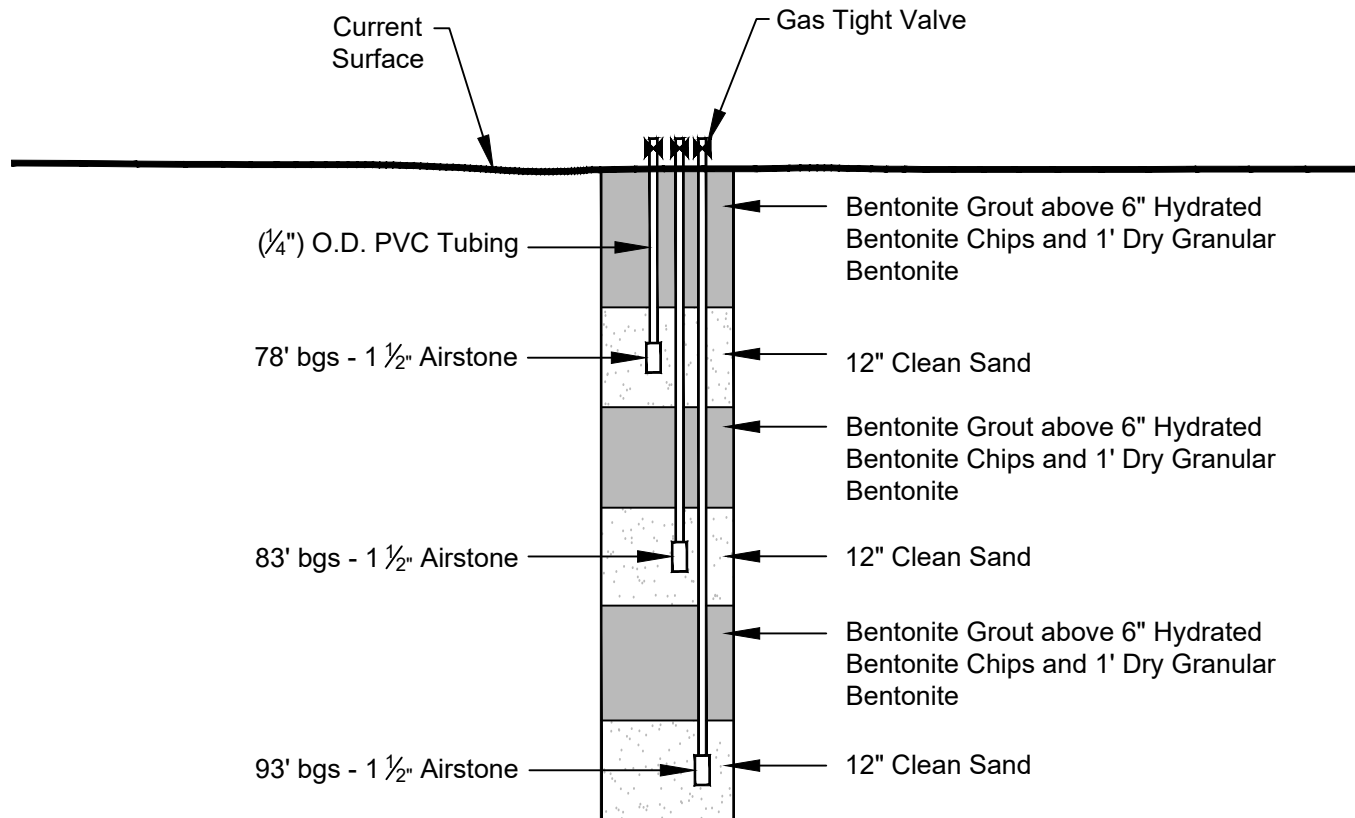
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Project: 11723.001	Eng/Geol: RJF
Scale: 1" = 100'	Date: October 2017
Base Map: Bing Maps, 2016 2017 Thematic Information: Leighton Author: Leighton Geomatics (mmurphy)	

**MULTI-NESTED SOIL GAS PROBE LOCATION MAP**  
 6th and Alameda Methane Gas Survey  
 1206-1338 E. 6th Street and 1205-1321 Wholesale Street  
 Los Angeles, California

Figure 2

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Boring Diameter: 6-inch  
 bgs: Below Ground Surface  
 O.D.: Outer Diameter

Project: 11723.001	Eng/Geol: RJF
Scale: Not to Scale	Date: October 2017
Reference:	
Author: MAM	

**MULTI-NESTED SOIL GAS PROBE CONSTRUCTION DIAGRAM**  
 6th and Alameda Methane Gas Survey  
 1206-1338 E. 6th Street and 1205-1321 Wholesale Street  
 Los Angeles, California

Figure 3



Leighton

**Table 1**  
**Multi-Nested Soil Gas Probe Monitoring Results**  
Methane Gas Screening Survey  
Sixth and Alameda LLC Development Site  
Los Angeles, California

Probe Location ID	Date	Time	Approximate Probe Depth (feet bgs)	Methane Concentration* (% volume)	Differential Pressure (inches water column)	Barometric Pressure (inches mercury)	Comments
B1	9/21/2017	13:30	58	ND (0.0)	-0.05	29.59	
	9/21/2017	13:32	63	ND (0.0)	0.00	29.59	
	9/21/2017	13:35	73	ND (0.0)	+0.32	29.59	
	9/26/2017	10:03	58	ND (0.0)	0.00	29.52	
	9/26/2017	10:05	63	ND (0.0)	-0.07	29.52	
	9/26/2017	10:06	73	ND (0.0)	-0.13	29.52	
B2	9/26/2017	12:20	58	<b>0.1</b>	-0.05	29.52	
	9/26/2017	12:25	63	ND (0.0)	-0.07	29.52	
	9/26/2017	12:30	73	ND (0.0)	-0.28	29.52	
	9/27/2017	11:20	58	ND (0.0)	-0.07	29.59	
	9/27/2017	11:25	63	ND (0.0)	-0.07	29.59	
	9/27/2017	11:27	73	ND (0.0)	-0.40	29.59	
	9/29/2017	14:41	58	ND (0.0)	0.00	29.59	Laboratory Sample Collected
B3	9/7/2017	13:25	63	<b>0.1</b>	-0.12	29.64	
	9/7/2017	13:26	68	<b>0.2</b>	-0.32	29.64	
	9/7/2017	13:28	84	<b>0.4</b>	-0.43	29.64	
	9/13/2017	14:00	63	ND (0.0)	-0.11	29.62	
	9/13/2017	14:02	68	ND (0.0)	-0.33	29.62	
	9/13/2017	14:03	84	<b>0.3</b>	-0.44	29.62	
	9/14/2017	13:40	63	ND (0.0)	-0.08	29.63	Laboratory Sample Collected
	9/14/2017	13:41	68	<b>0.1</b>	-0.19	29.63	Laboratory Sample Collected
	9/14/2017	13:42	84	<b>0.3</b>	+0.06	29.63	Laboratory Sample Collected
B4	8/23/2017	10:45	43	ND (0.0)	0.00	29.50	Control Laboratory Sample Collected
	8/23/2017	10:46	48	ND (0.0)	0.00	29.50	Control Laboratory Sample Collected
	8/23/2017	10:47	58	ND (0.0)	0.00	29.50	Control Laboratory Sample Collected
	8/24/2017	15:54	43	ND (0.0)	0.00	29.53	
	8/24/2017	15:55	48	ND (0.0)	0.00	29.53	
	8/24/2017	15:56	58	ND (0.0)	0.00	29.53	
B5	9/26/2017	13:05	53	ND (0.0)	0.00	29.52	
	9/26/2017	13:08	58	ND (0.0)	-0.05	29.52	
	9/26/2017	13:12	68	ND (0.0)	-0.05	29.52	
	9/28/2017	13:00	53	ND (0.0)	0.00	29.53	
	9/28/2017	13:02	58	ND (0.0)	0.00	29.53	
	9/28/2017	13:09	68	ND (0.0)	0.00	29.53	
B6	9/7/2017	13:45	53	ND (0.0)	0.00	29.59	
	9/7/2017	13:46	58	ND (0.0)	0.00	29.59	
	9/7/2017	13:47	68	ND (0.0)	0.00	29.59	
	9/13/2017	14:20	53	ND (0.0)	-0.06	29.60	
	9/13/2017	14:21	58	ND (0.0)	-0.08	29.60	
	9/13/2017	14:23	68	ND (0.0)	-0.08	29.60	
B7	9/27/2017	10:37	53	ND (0.0)	-0.07	29.59	
	9/27/2017	10:39	58	ND (0.0)	-0.07	29.59	
	9/27/2017	10:45	68	ND (0.0)	-0.08	29.59	
	9/28/2017	13:31	53	ND (0.0)	0.00	29.53	
	9/28/2017	13:33	58	ND (0.0)	0.00	29.53	
	9/28/2017	13:50	68	ND (0.0)	0.00	29.53	
B8	8/25/2017	16:41	43	ND (0.0)	0.00	29.51	
	8/25/2017	16:42	48	ND (0.0)	0.00	29.51	
	8/25/2017	16:43	58	ND (0.0)	0.00	29.51	
	8/28/2017	13:33	43	<b>0.1</b>	+0.42	29.54	
	8/28/2017	13:34	48	<b>0.1</b>	0.00	29.54	
	8/28/2017	13:35	58	<b>0.1</b>	0.00	29.54	
	8/30/2017	13:03	43	<b>0.1</b>	+0.14	29.45	Laboratory Sample Collected
	8/30/2017	13:05	48	ND (0.0)	-0.07	29.45	Laboratory Sample Collected
B9	8/25/2017	17:00	43	<b>0.1</b>	0.00	29.51	
	8/25/2017	17:01	48	<b>0.1</b>	+0.58	29.51	
	8/25/2017	17:02	58	<b>0.2</b>	+0.43	29.51	
	8/28/2017	13:50	43	ND (0.0)	-0.06	29.54	
	8/28/2017	13:54	48	ND (0.0)	+0.26	29.54	
	8/28/2017	13:57	58	<b>0.1</b>	-0.07	29.54	
	8/31/2017	12:59	43	ND (0.0)	-0.06	29.44	Laboratory Sample Collected
	8/31/2017	13:01	48	ND (0.0)	-0.06	29.44	Laboratory Sample Collected
	8/31/2017	13:03	58	<b>0.2</b>	-0.06	29.44	Laboratory Sample Collected

**Table 1**  
**Multi-Nested Soil Gas Probe Monitoring Results**  
Methane Gas Screening Survey  
Sixth and Alameda LLC Development Site  
Los Angeles, California

Probe Location ID	Date	Time	Approximate Probe Depth (feet bgs)	Methane Concentration* (% volume)	Differential Pressure (inches water column)	Barometric Pressure (inches mercury)	Comments
B10	8/28/2017	14:15	43	ND (0.0)	-0.06	29.54	
	8/28/2017	14:20	48	ND (0.0)	0.00	29.54	
	8/28/2017	14:23	58	ND (0.0)	-0.07	29.54	
	8/29/2017	13:26	43	ND (0.0)	0.00	29.53	
	8/29/2017	13:27	48	ND (0.0)	0.00	29.53	
	8/29/2017	13:29	58	ND (0.0)	-0.07	29.53	
B11	9/26/2017	11:10	58	ND (0.0)	-0.05	29.52	
	9/26/2017	11:15	63	ND (0.0)	-0.16	29.52	
	9/26/2017	11:17	73	ND (0.0)	-0.14	29.52	
	9/27/2017	11:10	58	ND (0.0)	-0.07	29.59	
	9/27/2017	11:13	63	ND (0.0)	-0.24	29.59	
	9/27/2017	11:15	73	ND (0.0)	-0.26	29.59	
B12	9/21/2017	13:22	58	ND (0.0)	0.00	29.59	
	9/21/2017	13:24	63	ND (0.0)	-0.07	29.59	
	9/21/2017	13:27	73	ND (0.0)	-0.12	29.59	
	9/26/2017	10:18	58	ND (0.0)	-0.07	29.52	
	9/26/2017	10:20	63	ND (0.0)	-0.07	29.52	
	9/26/2017	10:23	73	ND (0.0)	-0.13	29.52	
B13	9/21/2017	13:55	58	ND (0.0)	-0.05	29.59	
	9/21/2017	13:57	63	ND (0.0)	-0.09	29.59	
	9/21/2017	14:01	73	ND (0.0)	-0.08	29.59	
	9/27/2017	12:45	58	ND (0.0)	-0.06	29.59	
	9/27/2017	12:50	63	ND (0.0)	-0.09	29.59	
	9/27/2017	12:55	73	ND (0.0)	0.00	29.59	
B14	9/28/2017	14:07	63	ND (0.0)	-0.07	29.53	
	9/28/2017	14:10	68	ND (0.0)	-0.10	29.53	
	9/28/2017	14:15	78	ND (0.0)	+0.05	29.53	Low Flow
	9/29/2017	15:55	63	ND (0.0)	-0.13	29.53	
	9/29/2017	15:56	68	ND (0.0)	-0.16	29.53	
	9/29/2017	15:58	78	ND (0.0)	-0.12	29.53	Low Flow
B15	9/5/2017	16:40	43	ND (0.0)	-0.05	29.61	
	9/5/2017	16:41	48	ND (0.0)	-0.05	29.61	
	9/5/2017	16:42	58	ND (0.0)	-0.08	29.61	
	9/6/2017	13:10	43	ND (0.0)	-0.07	29.64	
	9/6/2017	13:12	48	ND (0.0)	-0.07	29.64	
	9/6/2017	13:14	58	ND (0.0)	-0.07	29.64	
B16	9/5/2017	16:00	43	ND (0.0)	+0.66	29.61	
	9/5/2017	16:00	48	ND (0.0)	0.00	29.61	
	9/5/2017	16:02	58	ND (0.0)	0.00	29.61	
	9/6/2017	12:40	43	ND (0.0)	-0.09	29.64	
	9/6/2017	12:41	48	ND (0.0)	-0.09	29.64	
	9/6/2017	12:43	58	ND (0.0)	-0.10	29.64	
B17	9/29/2017	16:15	53	ND (0.0)	0.00	29.53	
	9/29/2017	16:18	58	ND (0.0)	-0.07	29.53	
	9/29/2017	16:20	68	ND (0.0)	-0.11	29.53	
	10/2/2017	14:07	53	ND (0.0)	-0.13	29.50	
	10/2/2017	14:09	58	ND (0.0)	-0.30	29.50	
	10/2/2017	14:15	68	ND (0.0)	-0.40	29.50	
B18	9/29/2017	16:27	53	ND (0.0)	0.00	29.53	
	9/29/2017	16:30	63	ND (0.0)	0.00	29.53	
	9/29/2017	16:34	68	ND (0.0)	0.00	29.53	
	10/2/2017	14:30	53	ND (0.0)	-0.11	29.50	
	10/2/2017	14:35	63	ND (0.0)	-0.31	29.50	
	10/2/2017	14:45	68	ND (0.0)	-0.33	29.50	
B19	9/29/2017	16:42	53	ND (0.0)	0.00	29.53	
	9/29/2017	16:45	58	ND (0.0)	-0.05	29.53	
	9/29/2017	16:47	68	ND (0.0)	+0.05	29.53	
	10/2/2017	14:46	53	ND (0.0)	-0.13	29.50	
	10/2/2017	14:49	58	ND (0.0)	-0.16	29.50	
	10/2/2017	14:52	68	ND (0.0)	-0.50	29.50	
B20	9/1/2017	13:00	43	ND (0.0)	-0.06	29.51	
	9/1/2017	13:01	48	ND (0.0)	0.00	29.51	
	9/1/2017	13:03	58	ND (0.0)	-0.41	29.51	
	9/5/2017	14:47	43	ND (0.0)	0.00	29.67	
	9/5/2017	14:48	48	ND (0.0)	-0.09	29.67	
	9/5/2017	14:49	58	ND (0.0)	-0.07	29.67	

**Table 1**  
**Multi-Nested Soil Gas Probe Monitoring Results**  
Methane Gas Screening Survey  
Sixth and Alameda LLC Development Site  
Los Angeles, California

Probe Location ID	Date	Time	Approximate Probe Depth (feet bgs)	Methane Concentration* (% volume)	Differential Pressure (inches water column)	Barometric Pressure (inches mercury)	Comments
B21	9/1/2017	12:33	43	ND (0.0)	0.00	29.51	
	9/1/2017	12:34	48	ND (0.0)	0.00	29.51	
	9/1/2017	12:36	58	ND (0.0)	0.00	29.51	
	9/5/2017	14:22	43	ND (0.0)	-0.11	29.67	
	9/5/2017	14:23	48	ND (0.0)	-0.10	29.67	
	9/5/2017	14:24	58	ND (0.0)	-0.11	29.67	
B22	8/31/2017	16:05	43	ND (0.0)	-0.06	29.40	
	8/31/2017	16:06	48	ND (0.0)	0.00	29.40	
	8/31/2017	16:07	58	ND (0.0)	0.00	29.40	
	9/5/2017	14:00	43	ND (0.0)	-0.07	29.67	
	9/5/2017	14:02	48	ND (0.0)	-0.06	29.67	
	9/5/2017	14:03	58	ND (0.0)	-0.09	29.67	
B23	9/7/2017	15:30	78	ND (0.0)	-0.96	29.53	
	9/7/2017	15:32	83	ND (0.0)	-1.14	29.53	
	9/7/2017	15:34	93	ND (0.0)	-1.18	29.53	
	9/21/2017	13:01	78	ND (0.0)	-0.21	29.59	
	9/21/2017	13:03	83	ND (0.0)	-0.22	29.59	
	9/21/2017	13:06	93	ND (0.0)	-0.23	29.59	
B24	9/19/2017	16:30	78	ND (0.0)	-0.76	29.59	
	9/19/2017	16:33	86	ND (0.0)	-0.78	29.59	
	9/19/2017	16:36	93	ND (0.0)	-0.75	29.59	
	9/20/2017	14:25	78	ND (0.0)	-0.36	29.61	
	9/20/2017	14:27	86	ND (0.0)	-0.38	29.61	
	9/20/2017	14:30	93	ND (0.0)	-0.36	29.61	
B25	9/28/2017	11:30	78	ND (0.0)	-0.50	29.53	Low Flow
	9/28/2017	11:40	83	ND (0.0)	-0.91	29.53	
	9/28/2017	11:42	93	ND (0.0)	-0.90	29.53	
	9/29/2017	15:39	78	ND (0.0)	+5.7 <sup>1</sup>	29.53	Low Flow
	9/29/2017	15:42	83	ND (0.0)	-0.84	29.53	
	9/29/2017	15:44	93	ND (0.0)	-0.83	29.53	
B26	9/7/2017	15:15	52	ND (0.0)	-0.08	29.53	
	9/7/2017	15:16	57	ND (0.0)	-0.12	29.53	
	9/7/2017	15:17	67	ND (0.0)	+0.22	29.53	
	9/19/2017	15:52	52	ND (0.0)	-0.05	29.59	
	9/19/2017	15:54	57	ND (0.0)	-0.07	29.59	
	9/19/2017	15:55	67	ND (0.0)	-0.24	29.59	
B27	9/19/2017	15:36	63	ND (0.0)	+0.54	29.59	
	9/19/2017	15:37	68	ND (0.0)	-0.26	29.59	
	9/19/2017	15:39	78	ND (0.0)	+2.00	29.59	Low Flow
	9/20/2017	14:10	63	ND (0.0)	-0.14	29.61	
	9/20/2017	14:12	68	ND (0.0)	-0.26	29.61	
	9/20/2017	14:15	78	ND (0.0)	+0.17	29.61	Low Flow
B28	9/19/2017	15:06	43	ND (0.0)	-0.08	29.60	
	9/19/2017	15:07	48	ND (0.0)	-0.08	29.60	
	9/19/2017	15:09	58	ND (0.0)	-0.09	29.60	
	9/20/2017	14:00	43	ND (0.0)	-0.05	29.61	
	9/20/2017	14:02	48	ND (0.0)	-0.05	29.61	
	9/20/2017	14:04	58	ND (0.0)	-0.05	29.61	
B29	9/28/2017	10:17	43	ND (0.0)	0.00	29.53	
	9/28/2017	10:20	48	ND (0.0)	-0.05	29.53	
	9/28/2017	10:45	58	0.1	0.00	29.53	
	9/29/2017	13:12	43	ND (0.0)	-0.05	29.59	
	9/29/2017	13:13	48	ND (0.0)	0.00	29.59	
	9/29/2017	13:17	58	0.1	0.00	29.59	Laboratory Sample Collected
B30	9/7/2017	14:30	53	ND (0.0)	-0.12	29.56	
	9/7/2017	14:32	58	ND (0.0)	-0.16	29.56	
	9/7/2017	14:34	68	ND (0.0)	-0.24	29.56	
	9/18/2017	14:05	53	ND (0.0)	-0.08	29.66	
	9/18/2017	14:07	58	ND (0.0)	-0.10	29.66	
	9/18/2017	14:09	68	ND (0.0)	-0.18	29.66	
B31	9/7/2017	13:45	53	ND (0.0)	-0.10	29.56	
	9/7/2017	13:47	58	ND (0.0)	-0.11	29.56	
	9/7/2017	13:48	68	ND (0.0)	-0.10	29.56	
	9/18/2017	13:49	53	ND (0.0)	0.00	29.66	
	9/18/2017	13:50	58	ND (0.0)	0.00	29.66	
	9/18/2017	13:52	68	ND (0.0)	-0.05	29.66	



**Table 1**  
**Multi-Nested Soil Gas Probe Monitoring Results**  
Methane Gas Screening Survey  
Sixth and Alameda LLC Development Site  
Los Angeles, California

Probe Location ID	Date	Time	Approximate Probe Depth (feet bgs)	Methane Concentration* (% volume)	Differential Pressure (inches water column)	Barometric Pressure (inches mercury)	Comments
B32	9/27/2017	13:25	53	ND (0.0)	-0.06	29.59	
	9/27/2017	13:30	58	ND (0.0)	-0.05	29.59	
	9/27/2017	13:37	68	ND (0.0)	-0.06	29.59	
	9/29/2017	15:25	53	ND (0.0)	0.00	29.59	
	9/29/2017	15:30	58	ND (0.0)	0.00	29.59	
	9/29/2017	15:32	68	ND (0.0)	0.00	29.59	
B33	9/7/2017	12:45	43	ND (0.0)	-0.05	29.56	
	9/7/2017	12:46	48	ND (0.0)	0.00	29.56	
	9/7/2017	12:48	58	ND (0.0)	-0.05	29.56	
	9/15/2017	13:47	43	ND (0.0)	-0.07	29.64	
	9/15/2017	13:48	48	ND (0.0)	-0.07	29.64	
	9/15/2017	13:49	58	ND (0.0)	-0.08	29.64	
B34	9/15/2017	13:29	43	ND (0.0)	-0.08	29.64	
	9/15/2017	13:30	48	<b>0.1</b>	-0.40	29.64	
	9/15/2017	13:31	58	<b>0.1</b>	-0.09	29.64	
	9/19/2017	12:47	43	ND (0.0)	-0.05	29.67	
	9/19/2017	12:48	48	ND (0.0)	-0.05	29.67	Laboratory Sample Collected
	9/19/2017	12:50	58	<b>0.1</b>	-0.05	29.67	Laboratory Sample Collected
B35	9/7/2017	12:10	43	ND (0.0)	0.00	29.59	
	9/7/2017	12:15	48	ND (0.0)	0.00	29.59	
	9/7/2017	12:17	58	ND (0.0)	0.00	29.59	
	9/14/2017	13:06	43	ND (0.0)	0.00	29.66	
	9/14/2017	13:07	48	ND (0.0)	0.00	29.66	
	9/14/2017	13:09	58	ND (0.0)	0.00	29.66	

**Notes:**

- bgs = below ground surface
- ND = Not detected at instrument detection limit (in parentheses)
- 0.1** = Methane concentration recorded above instrument detection limit
- +5.7<sup>1</sup> = Anomalous differential pressure reading

Methane Concentration\* = As noted in the report, the GEM instrument can be influenced by non-methane hydrocarbons.

APPENDIX A  
REFERENCES



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## APPENDIX A

### References

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APPENDIX B

LABORATORY ANALYTICAL RESULTS AND  
CHAIN-OF-CUSTODY DOCUMENTATION



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

<b>Client:</b>	Leighton & Associates	<b>Report date:</b>	9/14/2017
<b>Client Address:</b>	17781 Cowan Irvine, CA 92614	<b>JEL Ref. No.:</b>	ST-11184
		<b>Client Ref. No.:</b>	11723.001
<b>Attn:</b>	Robin Ferber	<b>Date Sampled:</b>	9/14/2017
		<b>Date Received:</b>	9/14/2017
<b>Project Name:</b>	6th & Alameda Methane Gas Survey	<b>Date Analyzed:</b>	9/14/2017
<b>Project Address:</b>	6th & Alameda Los Angeles, CA	<b>Physical State:</b>	Soil Gas

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**ANALYSES REQUESTED**

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Analytical – Soil Gas samples were analyzed using EPA Method 8260B that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. All samples were injected into the GC/MS system within 6 hours of sampling.

2. ASTM D1946 – Methane

Analytical – Soil Gas samples were analyzed using ASTM D1946 by GC/TCD. All samples were injected into the GC/MS system within 6 hours of sampling.

**Approval:**

Carolyn Carroll  
Stationary Lab Manager



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### JONES ENVIRONMENTAL LABORATORY RESULTS

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
Irvine, CA 92614

**Report date:** 9/14/2017  
**JEL Ref. No.:** ST-11184  
**Client Ref. No.:** 11723.001

**Attn:** Robin Ferber  
**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
Los Angeles, CA

**Date Sampled:** 9/14/2017  
**Date Received:** 9/14/2017  
**Date Analyzed:** 9/14/2017  
**Physical State:** Soil Gas

#### EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	B3-63'	B3-68'	B3-84'	<u>Practical Quantitation Limit</u>	<u>Units</u>
<u>JEL ID:</u>	ST-11184-01	ST-11184-02	ST-11184-03		
<b>Analytes:</b>					
Benzene	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	0.008	µg/L
Bromodichloromethane	<b>0.032</b>	<b>0.033</b>	<b>0.066</b>	0.008	µg/L
Bromoform	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	<b>0.109</b>	<b>0.102</b>	<b>0.101</b>	0.008	µg/L
Chlorobenzene	ND	ND	ND	0.008	µg/L
Chloroform	ND	ND	<b>0.028</b>	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	<b>0.234</b>	<b>0.246</b>	<b>0.097</b>	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	<b>0.034</b>	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	0.008	µg/L

## JONES ENVIRONMENTAL LABORATORY RESULTS

### EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	<b>B3-63'</b>	<b>B3-68'</b>	<b>B3-84'</b>		
<u>JEL ID:</u>	<b>ST-11184-01</b>	<b>ST-11184-02</b>	<b>ST-11184-03</b>	<u>Practical</u>	<u>Units</u>
<u>Analytes:</u>				<u>Quantitation</u>	
				<u>Limit</u>	
cis-1,3-Dichloropropene	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	0.040	µg/L
n-Propylbenzene	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	<b>0.044</b>	<b>0.044</b>	ND	0.008	µg/L
Toluene	ND	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	0.040	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	0.008	µg/L
Trichloroethylene	ND	ND	<b>0.028</b>	0.008	µg/L
Trichlorofluoromethane	<b>1.72</b>	<b>1.69</b>	<b>1.02</b>	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	0.008	µg/L
m,p-Xylene	ND	ND	ND	0.008	µg/L
o-Xylene	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	<b>110*</b>	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	0.400	µg/L
<u>Dilution Factor</u>	1	1	1/20*		
<u>Surrogate Recoveries:</u>				<u>QC Limits</u>	
Dibromofluoromethane	129%	130%	121%	60 - 140	
Toluene-d <sub>8</sub>	111%	110%	110%	60 - 140	
4-Bromofluorobenzene	111%	110%	115%	60 - 140	

VOC4-091417-    VOC4-091417-    VOC4-091417-  
CHECKS            CHECKS            CHECKS

ND= Not Detected

\* = Dilutions for these compound(s); first number for all others



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### JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

<b>Client:</b>	Leighton & Associates	<b>Report date:</b>	9/14/2017
<b>Client Address:</b>	17781 Cowan Irvine, CA 92614	<b>JEL Ref. No.:</b>	ST-11184
		<b>Client Ref. No.:</b>	11723.001
<b>Attn:</b>	Robin Ferber	<b>Date Sampled:</b>	9/14/2017
		<b>Date Received:</b>	9/14/2017
<b>Project:</b>	6th & Alameda Methane Gas Survey	<b>Date Analyzed:</b>	9/14/2017
<b>Project Address:</b>	6th & Alameda Los Angeles, CA	<b>Physical State:</b>	Soil Gas

#### EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	<b>METHOD</b>	<b>SAMPLING</b>		
	<b>BLANK</b>	<b>BLANK</b>		
	<b>091417- V4MB1</b>	<b>091417- V4SB1</b>	<u>Practical</u>	<u>Units</u>
			<u>Quantitation</u>	
			<u>Limit</u>	
<b>Analytes:</b>				
Benzene	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	0.008	µg/L
Bromoform	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	0.008	µg/L
Chloroform	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	0.008	µg/L



**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

**EPA 8260B – Volatile Organics by GC/MS + Oxygenates**

<u>Sample ID:</u>	<b>METHOD</b>	<b>SAMPLING</b>		
	<b>BLANK</b>	<b>BLANK</b>		
<u>JEL ID:</u>	<b>091417- V4MB1</b>	<b>091417- V4SB1</b>	<u>Practical Quantitation</u>	<u>Units</u>
<u>Analytes:</u>			<u>Limit</u>	
cis-1,3-Dichloropropene	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	0.008	µg/L
Freon 113	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	0.008	µg/L
Naphthalene	ND	ND	0.040	µg/L
n-Propylbenzene	ND	ND	0.008	µg/L
Styrene	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	0.008	µg/L
Tetrachloroethylene	ND	ND	0.008	µg/L
Toluene	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	0.040	µg/L
1,2,4-Trichlorobenzene	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	0.008	µg/L
Trichloroethylene	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	0.008	µg/L
m,p-Xylene	ND	ND	0.008	µg/L
o-Xylene	ND	ND	0.008	µg/L
MTBE	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	0.400	µg/L
<u>Dilution Factor</u>	1	1		
<u>Surrogate Recoveries:</u>			<u>QC Limits</u>	
Dibromofluoromethane	128%	125%	60 - 140	
Toluene-d <sub>8</sub>	110%	108%	60 - 140	
4-Bromofluorobenzene	113%	110%	60 - 140	

VOC4-091417-    VOC4-091417-  
CHECKS            CHECKS

ND= Not Detected



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### JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

<b>Client:</b>	Leighton & Associates	<b>Report date:</b>	9/14/2017
<b>Client Address:</b>	17781 Cowan Irvine, CA 92614	<b>JEL Ref. No.:</b>	ST-11184
		<b>Client Ref. No.:</b>	11723.001
<b>Attn:</b>	Robin Ferber	<b>Date Sampled:</b>	9/14/2017
		<b>Date Received:</b>	9/14/2017
<b>Project:</b>	6th & Alameda Methane Gas Survey	<b>Date Analyzed:</b>	9/14/2017
<b>Project Address:</b>	6th & Alameda Los Angeles, CA	<b>Physical State:</b>	Soil Gas

#### EPA 8260B – Volatile Organics by GC/MS + Oxygenates

**Batch ID:** VOC4-091417-CHECKS

**JEL ID:**                    **091417-V4LCS1**    **091417-V4LCSD1**                    **091417-V4CCV1**

<u>Parameter</u>	LCS Recovery (%)	LCSD Recovery (%)	<u>RPD</u>	Acceptability Range (%)	<u>CCV</u>	Acceptability Range (%)
Vinyl Chloride	97%	98%	1.2%	70 - 130	84%	80 - 120
1,1-Dichloroethylene	72%	73%	1.3%	70 - 130	93%	80 - 120
Cis-1,2-Dichloroethene	104%	100%	3.3%	70 - 130	86%	80 - 120
1,1,1-Trichloroethane	117%	120%	2.3%	70 - 130	128%	80 - 120
Benzene	102%	102%	0.3%	70 - 130	113%	80 - 120
Trichloroethylene	97%	97%	0.4%	70 - 130	107%	80 - 120
Toluene	115%	117%	2.2%	70 - 130	105%	80 - 120
Tetrachloroethene	92%	91%	1.4%	70 - 130	108%	80 - 120
Chlorobenzene	105%	102%	2.7%	70 - 130	111%	80 - 120
Ethylbenzene	93%	91%	2.1%	70 - 130	100%	80 - 120
1,2,4 Trimethylbenzene	91%	88%	2.5%	70 - 130	94%	80 - 120
<b><u>Surrogate Recovery:</u></b>						
Dibromofluoromethane	122%	114%		60 - 140	125%	60 - 140
Toluene-d <sub>8</sub>	109%	106%		60 - 140	109%	60 - 140
4-Bromofluorobenzene	116%	109%		60 - 140	103%	60 - 140

LCS = Laboratory Control Sample  
 LCSD = Laboratory Control Sample Duplicate  
 CCV = Continuing Calibration Verification  
 RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
Irvine, CA 92614

**Report date:** 9/14/2017  
**JEL Ref. No.:** ST-11184  
**Client Ref. No.:** 11723.001

**Attn:** Robin Ferber

**Date Sampled:** 9/14/2017  
**Date Received:** 9/14/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
Los Angeles, CA

**Date Analyzed:** 9/14/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

<u>Sample ID:</u>	<b>B3-63'</b>	<b>B3-68'</b>	<b>B3-84'</b>		
<u>JEL ID:</u>	ST-11184-01	ST-11184-02	ST-11184-03		<u>Practical Quantitation Limit</u>
					<u>Units</u>
Methane (CH <sub>4</sub> )	ND	ND	ND	0.01	%
<b><u>Dilution Factor</u></b>	1	1	1		
	ASTM- 170914_01	ASTM- 170914_01	ASTM- 170914_01		

ND = Not Detected



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 562-646-1611  
 805-399-0060

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**JONES ENVIRONMENTAL  
 LABORATORY RESULTS**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
 Irvine, CA 92614

**Report date:** 9/14/2017  
**JEL Ref. No.:** ST-11184  
**Client Ref. No.:** 11723.001

**Attn:** Robin Ferber

**Date Sampled:** 9/14/2017  
**Date Received:** 9/14/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
 Los Angeles, CA

**Date Analyzed:** 9/14/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

**Sample ID:** Ambient Air

**JEL ID:** AA-170914\_01

Methane (CH<sub>4</sub>)

ND

<u>Practical Quantitation Limit</u>	<u>Units</u>
---	--------------

0.01

%

**Dilution Factor** 1

ASTM-170914\_01

ND = Not Detected



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**JONES ENVIRONMENTAL  
 QUALITY CONTROL INFORMATION**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
 Irvine, CA 92614

**Report date:** 9/14/2017  
**JEL Ref. No.:** ST-11184  
**Client Ref. No.:** 11723.001

**Attn:** Robin Ferber

**Date Sampled:** 9/14/2017  
**Date Received:** 9/14/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
 Los Angeles, CA

**Date Analyzed:** 9/14/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

**GC#:** ASTM-170914\_01

**JEL ID:**                    **CCV-170914\_01**    **CCV2-170914\_01**

<u>Parameter</u>	CCV Recovery (%)	CCV 2 Recovery (%)	<u>RPD</u>	Acceptability Range (%)
Methane (CH <sub>4</sub> )	94%	94%	0.2%	60 - 140

LCS = Lab Control Sample  
 LCSD = Lab Control Sample Duplicate  
 RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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# Chain-of-Custody Record

<b>Client</b> Leighton + Associates	<b>Date</b> 9-14-17	<b>SOIL GAS</b> Purge Number: <input type="checkbox"/> 1P <input checked="" type="checkbox"/> 3P <input type="checkbox"/> 7P <input type="checkbox"/> 10P Purge Rate: 2000 cc/min Shut in Test <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N Tracer: <input type="checkbox"/> n-propanol <input type="checkbox"/> n-pentane <input type="checkbox"/> 1,1-DFA <input type="checkbox"/> Helium <input type="checkbox"/> _____	<b>JEL Project #</b> ST-11184
<b>Project Name</b> 6th + Alameda Methane Gas Survey	<b>Client Project #</b> 11723.001	Analysis Requested Sample Matrix: Soil (S) _____ Sludge (SL) _____ Aqueous (A) _____ Soil Gas (SG) _____ Methane _____ VOCs (all) (sf) (Comm RL) _____ Magnetetic Vacuum (In/H <sub>2</sub> O) _____ Number of Containers _____	<b>Page</b> 1 of 1
<b>Project Address</b> 6th + Alameda, Los Angeles, CA	<b>Turn Around Requested:</b> <input type="checkbox"/> Immediate Attention <input type="checkbox"/> Rush 24-48 Hours <input type="checkbox"/> Rush 72-96 Hours <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Mobile Lab		<b>Lab Use Only</b> Sample Condition as Received: Chilled <input type="checkbox"/> yes <input type="checkbox"/> no Sealed <input type="checkbox"/> yes <input type="checkbox"/> no
<b>Project Contact</b> Robin Ferber - rferber@leightongroup.com			

Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	SG	Methane	VOCs (all) (sf)	Comm RL	Magnetetic Vacuum (In/H <sub>2</sub> O)	Number of Containers	Remarks/Special Instructions
B3-63'	3	5.96 5.69	9-14-17	14:55		ST-11184-01	X	X				2	Tedlarbags
B3-68'	3	6.00	"	15:12		ST-11184-02	X	X				2	"
B3-84'	3	6.13	"	15:47		ST-11184-03	X	X				2	"

<b>1</b> Relinquished by (signature) <i>[Signature]</i>	<b>Date</b> 9-14-17	<b>2</b> Received by (signature) <i>[Signature]</i> MARTIN YOUNG	<b>Date</b> 9/14/17	<b>Total Number of Containers</b> 6
<b>Company</b> Leighton + Associates	<b>Time</b> 15:50	<b>Company</b> JONES	<b>Time</b> 1550	
<b>3</b> Relinquished by (signature) <i>[Signature]</i>	<b>Date</b> 9/14	<b>4</b> Received by Laboratory (signature) <i>[Signature]</i>	<b>Date</b> 9/14	The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.
<b>Company</b> JONES	<b>Time</b> 1657	<b>Company</b> Jones Env.	<b>Time</b> 1657	

# Chromatogram Plot

File: c:\agilentw\w\_data\2017\09-2017\voc4-091417-checks\method blank.sms

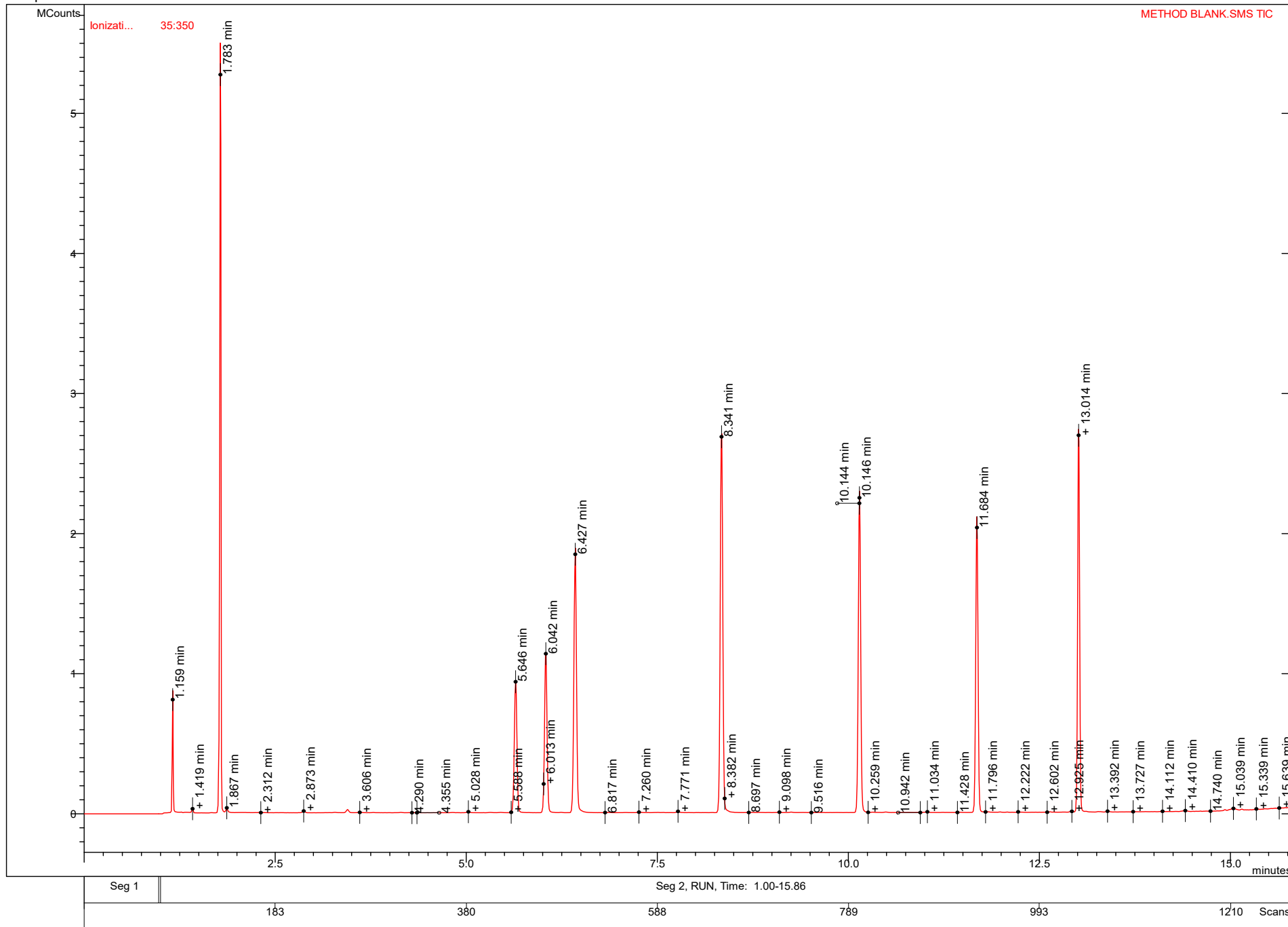
Sample: METHOD BLANK

Scan Range: 1 - 1299 Time Range: 0.00 - 15.85 min.

Sample Notes: RC

Operator: RC

Date: 9/14/2017 11:47 AM



# Chromatogram Plot

File: ...lentws\_data\2017\09-2017\voc4-091417-checks\b3-84' st-11184-03.sms

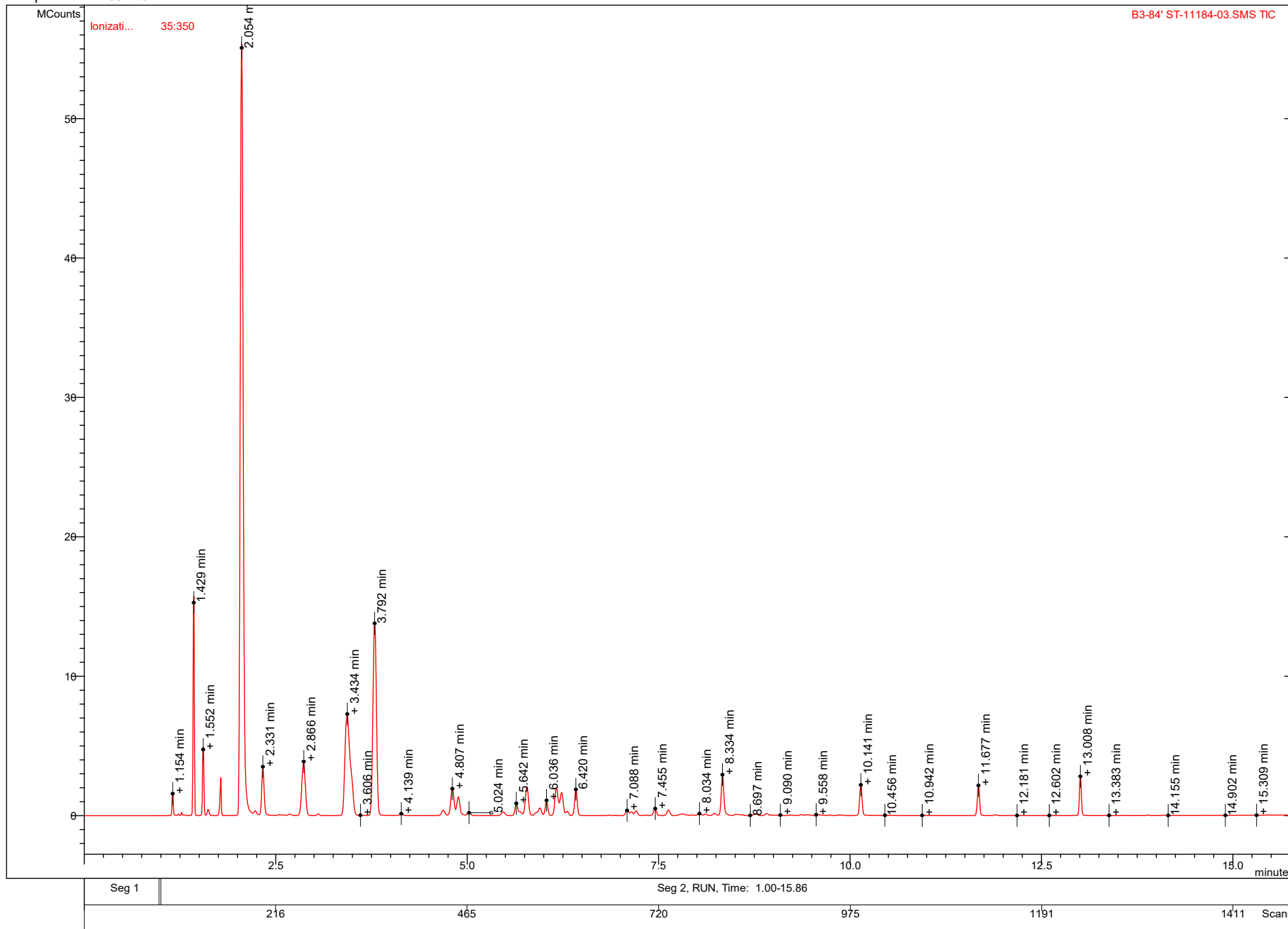
Sample: B3-84' ST-11184-03

Scan Range: 1 - 1500 Time Range: 0.00 - 15.85 min.

Sample Notes: 100cc JK

Operator: JK

Date: 9/14/2017 6:12 PM





# Chromatogram Plot

File: c:\agilentws\_data\2017\09-2017\voc4-091417-checks\b3-84' dil.sms

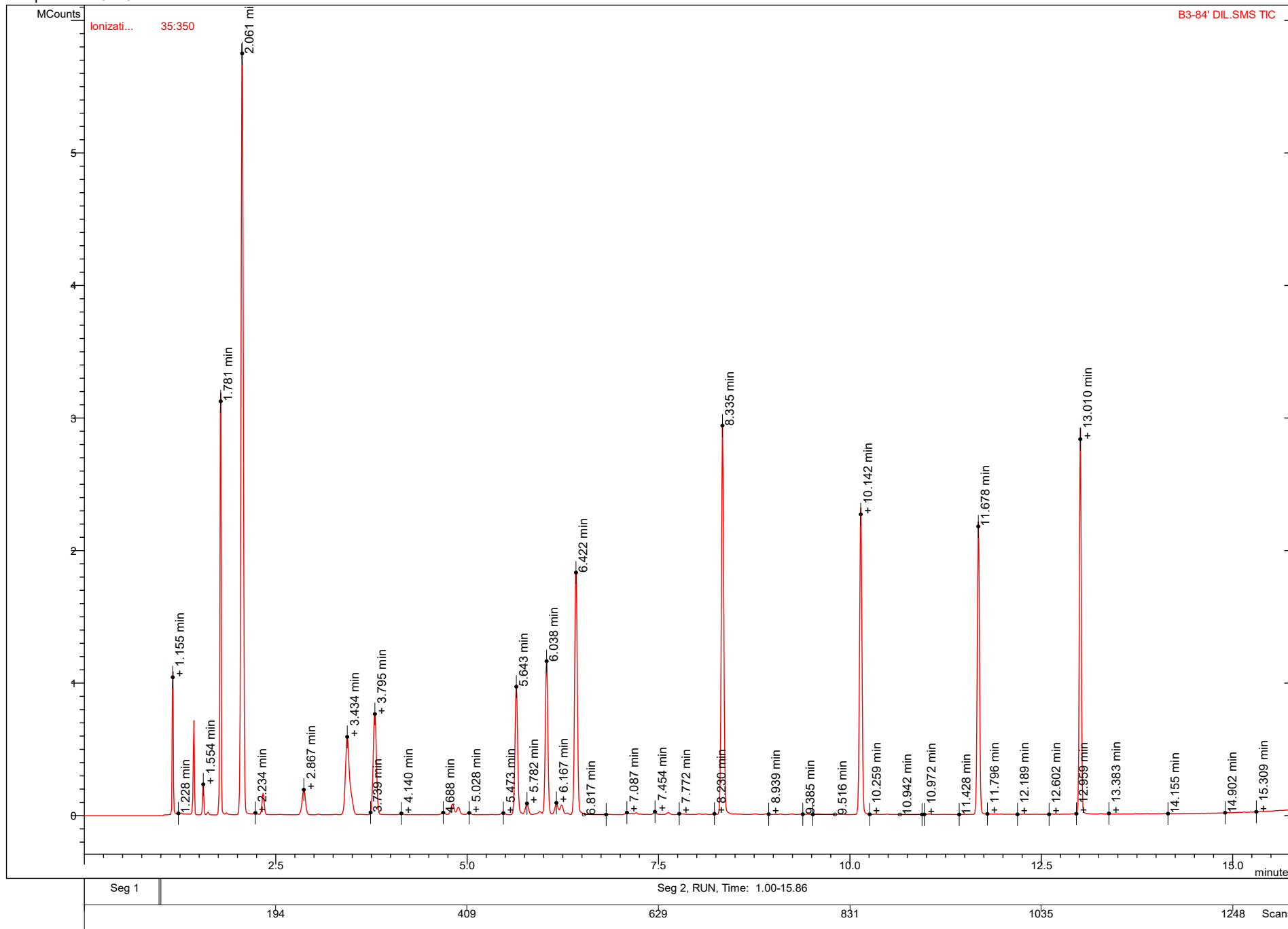
Sample: B3-84' DIL

Scan Range: 1 - 1336 Time Range: 0.00 - 15.85 min.

Sample Notes: 5cc JK

Operator: JK

Date: 9/14/2017 7:20 PM



# Chromatogram Plot

File: ...lentws\_data\2017\09-2017\voc4-091417-checks\b3-68' st-11184-02.sms

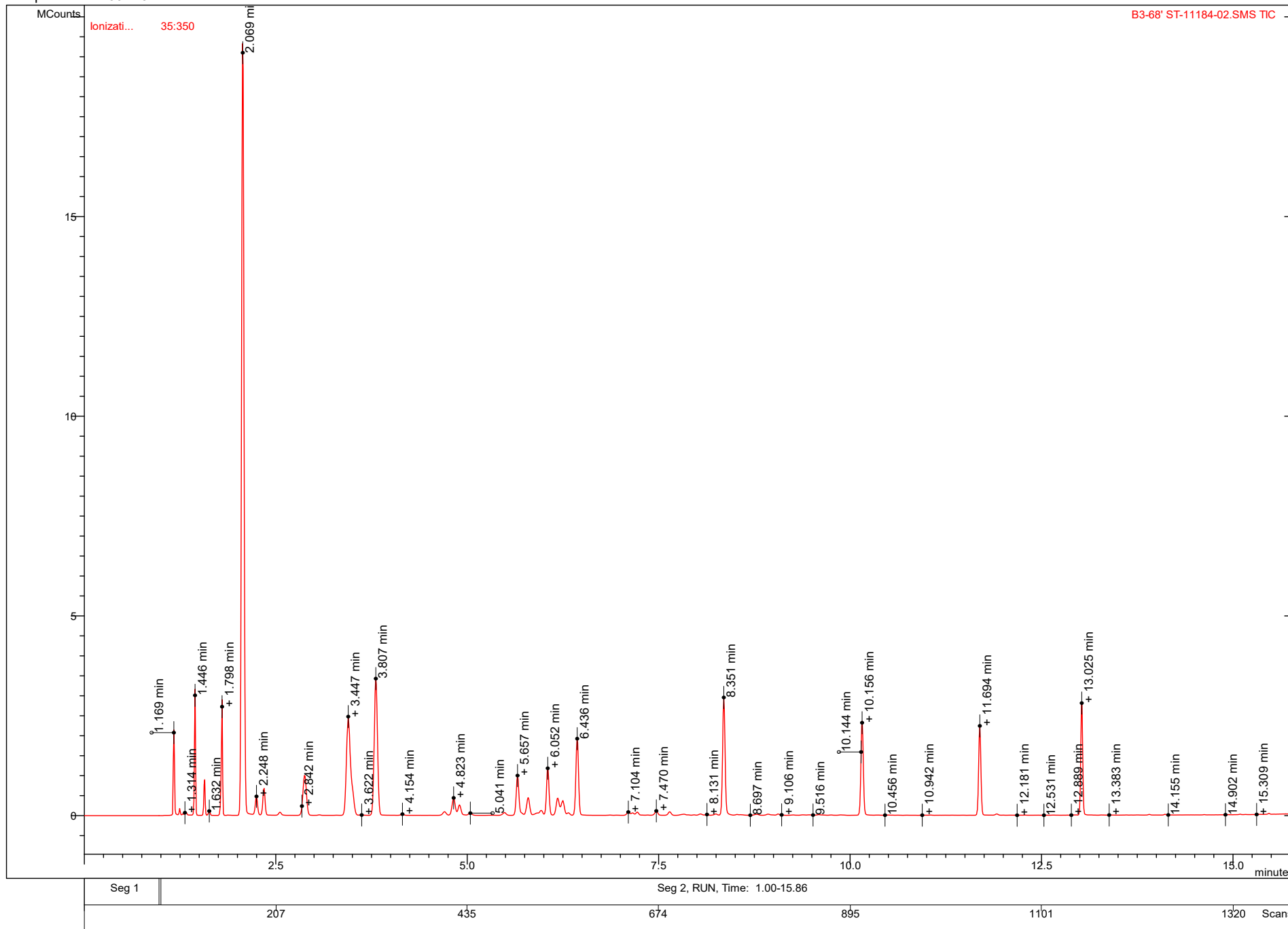
Sample: B3-68' ST-11184-02

Scan Range: 1 - 1408 Time Range: 0.00 - 15.85 min.

Sample Notes: 100cc JK

Operator: JK

Date: 9/14/2017 5:50 PM



# Chromatogram Plot

File: c:\agilentws\_data\2017\09-2017\voc4-091417-checks\b3-68' dil.sms

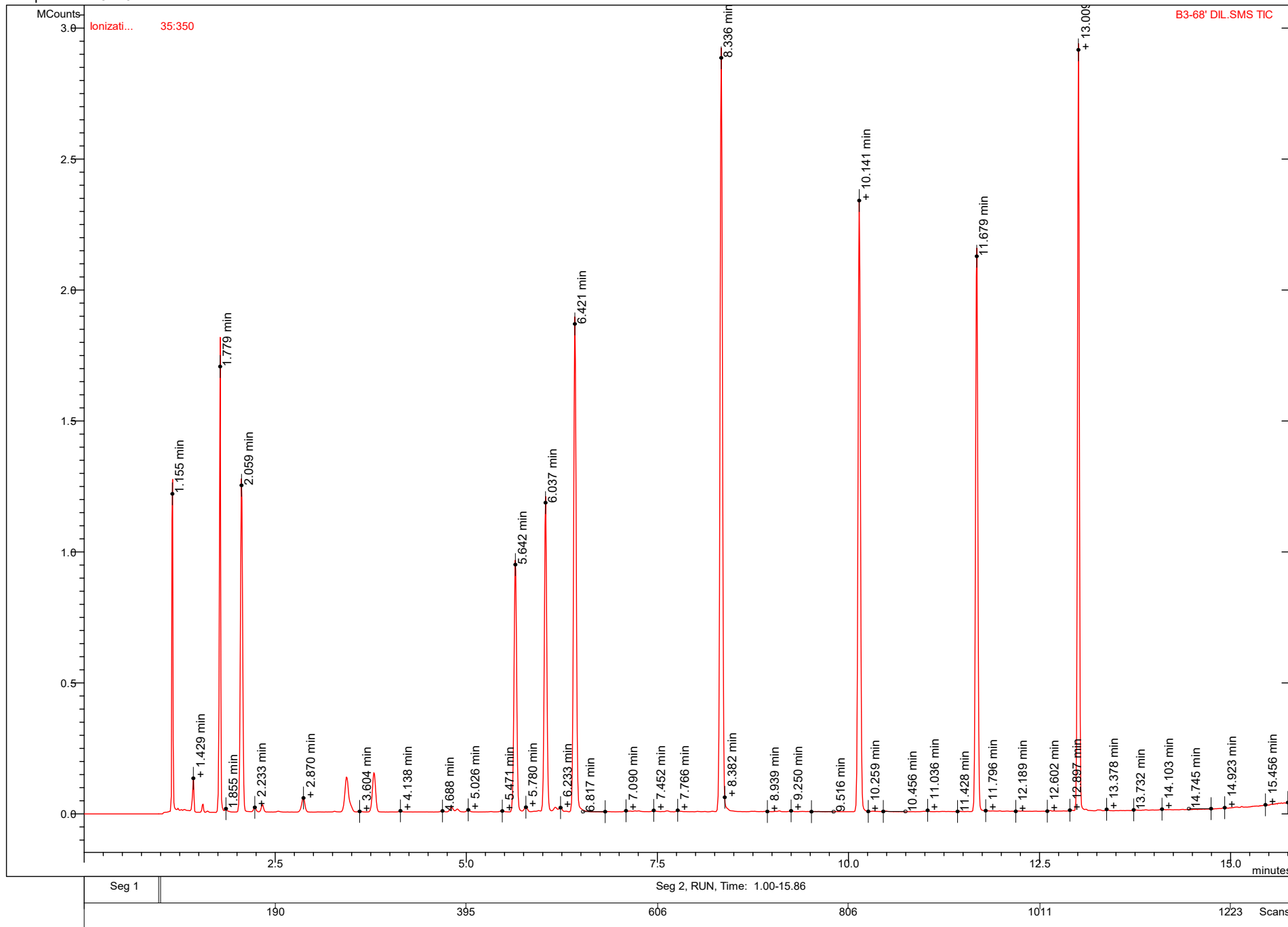
Sample: B3-68' DIL

Scan Range: 1 - 1311 Time Range: 0.00 - 15.84 min.

Sample Notes: 5cc JK

Operator: JK

Date: 9/14/2017 6:58 PM



# Chromatogram Plot

File: ...lentws\_data\2017\09-2017\voc4-091417-checks\b3-63' st-11184-01.sms

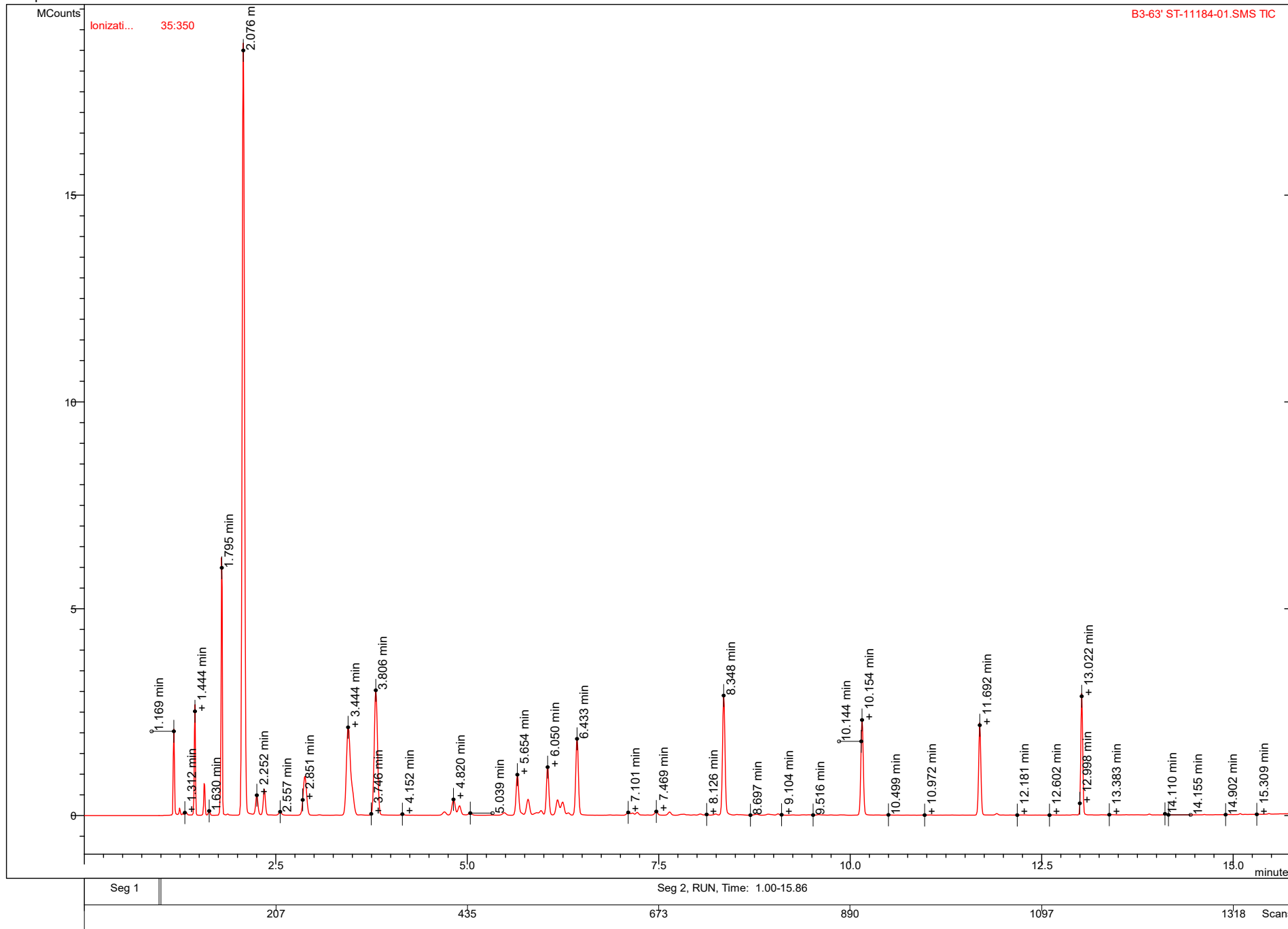
Sample: B3-63' ST-11184-01

Scan Range: 1 - 1406 Time Range: 0.00 - 15.84 min.

Sample Notes: 100cc JK

Operator: JK

Date: 9/14/2017 5:27 PM



# Chromatogram Plot

File: c:\agilentws\_data\2017\09-2017\voc4-091417-checksb3-63' dil.sms

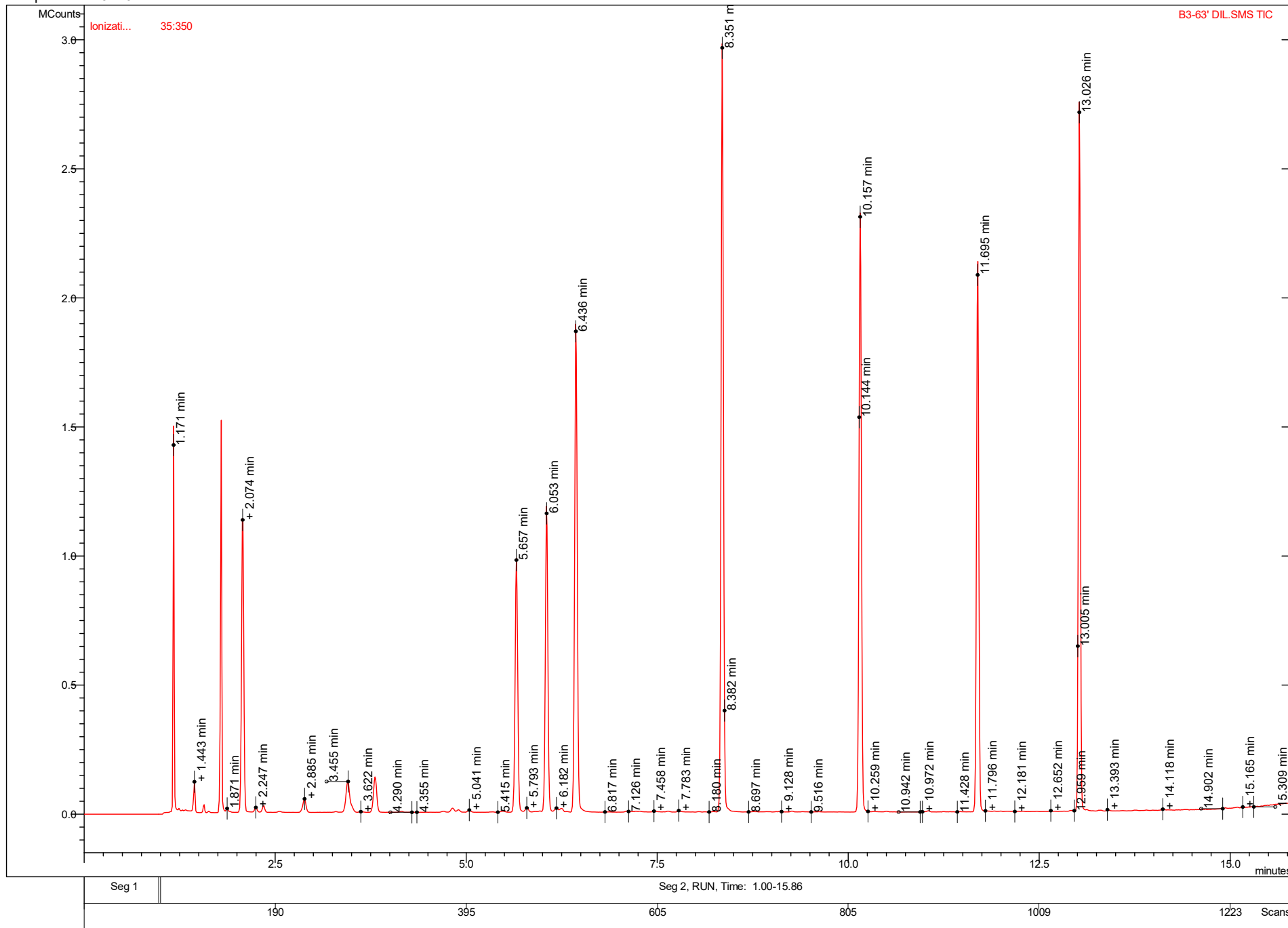
Sample: B3-63' DIL

Scan Range: 1 - 1311 Time Range: 0.00 - 15.85 min.

Sample Notes: 5cc JK

Operator: JK

Date: 9/14/2017 6:35 PM





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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

<b>Client:</b>	Leighton Consulting	<b>Report date:</b>	8/23/2017
<b>Client Address:</b>	17781 Cowan Irvine, CA 92614	<b>JEL Ref. No.:</b>	ST-11091
		<b>Client Ref. No.:</b>	11723.001
<b>Attn:</b>	Wallace Sconiers	<b>Date Sampled:</b>	8/23/2017
		<b>Date Received:</b>	8/23/2017
<b>Project:</b>	6th & Alameda Methane Gas Survey	<b>Date Analyzed:</b>	8/23/2017
<b>Project Address:</b>	6th & Alameda Los Angeles	<b>Physical State:</b>	Soil Gas

---

**ANALYSES REQUESTED**

1. ASTM D1946 – Methane

Sampling – Soil Gas samples were collected in Tedlar bags.

Analytical – Soil Gas samples were analyzed using ASTM D1946 by GC/TCD. All samples were injected into the GC/MS system within 6 hours of sampling.

**Approval:**

Carolyn Carroll  
Stationary Lab Manager



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

<b>Client:</b>	Leighton Consulting	<b>Report date:</b>	8/23/2017
<b>Client Address:</b>	17781 Cowan Irvine, CA 92614	<b>JEL Ref. No.:</b>	ST-11091
		<b>Client Ref. No.:</b>	11723.001
<b>Attn:</b>	Wallace Sconiers	<b>Date Sampled:</b>	8/23/2017
		<b>Date Received:</b>	8/23/2017
<b>Project:</b>	6th & Alameda Methane Gas Survey	<b>Date Analyzed:</b>	8/23/2017
<b>Project Address:</b>	6th & Alameda Los Angeles	<b>Physical State:</b>	Soil Gas

**ASTM D1946 – Methane**

<u>Sample ID:</u>	<b>B4-43'</b>	<b>B4-48'</b>	<b>B4-58'</b>		
<u>JEL ID:</u>	ST-11091-01	ST-11091-02	ST-11091-03		<u>Practical Quantitation Limit</u>
					<u>Units</u>
Methane (CH <sub>4</sub> )	ND	ND	ND	0.01	%
<b><u>Dilution Factor</u></b>	1	1	1		
	ASTM_ 170823_01	ASTM_ 170823_01	ASTM_ 170823_01		

ND = Not Detected



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**JONES ENVIRONMENTAL  
 LABORATORY RESULTS**

<b>Client:</b>	Leighton Consulting	<b>Report date:</b>	8/23/2017
<b>Client Address:</b>	17781 Cowan Irvine, CA 92614	<b>JEL Ref. No.:</b>	ST-11091
		<b>Client Ref. No.:</b>	11723.001
<b>Attn:</b>	Wallace Sconiers	<b>Date Sampled:</b>	8/23/2017
		<b>Date Received:</b>	8/23/2017
<b>Project:</b>	6th & Alameda Methane Gas Survey	<b>Date Analyzed:</b>	8/23/2017
<b>Project Address:</b>	6th & Alameda Los Angeles	<b>Physical State:</b>	Soil Gas

**ASTM D1946 – Methane**

<b><u>Sample ID:</u></b>	<b>METHOD BLANK</b>		
<b><u>JEL ID:</u></b>	<b>AA-170823</b>	<b><u>Practical Quantitation Limit</u></b>	<b><u>Units</u></b>
Methane (CH <sub>4</sub> )	ND	0.01	%
<b><u>Dilution Factor</u></b>	1		
	ASTM_ 170823_01		

ND = Not Detected





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**JONES ENVIRONMENTAL  
 QUALITY CONTROL INFORMATION**

**Client:** Leighton Consulting  
**Client Address:** 17781 Cowan  
 Irvine, CA 92614

**Report date:** 8/23/2017  
**JEL Ref. No.:** ST-11091  
**Client Ref. No.:** 11723.001

**Attn:** Wallace Sconiers

**Date Sampled:** 8/23/2017  
**Date Received:** 8/23/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
 Los Angeles

**Date Analyzed:** 8/23/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

**GC#:** ASTM\_170823\_01

**JEL ID:**                      **CCV-170823**                      **CCV2-170823**

<u>Parameter</u>	LCS Recovery (%)	LCSD Recovery (%)	<u>RPD</u>	Acceptability Range (%)
Methane (CH <sub>4</sub> )	92%	92%		60 - 140

LCS = Lab Control Sample  
 LCSD = Lab Control Sample Duplicate  
 RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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# Soil-Gas Chain of Custody Record

Client: Leighton Consulting, Inc.  
Project Name: Ch+Alameda Meliave Gas Survey  
Project Address: Ch+Alameda, Los Angeles, CA  
WBS # 2-23-17  
Email: rferber@leightongroup.com - Robin Ferber  
wscorners@leightongroup.com - Wallace Scorners  
Phone: Robin 661-705-3025  
Wallace 661-705-3324  
Report To: Wallace Scorners Sampler: Angela Haar

Date: 8/23/17  
Client Project #: 11723.001

Purge Number:  
 1P  3P  7P  10P

Report Options  
EDD \_\_\_\_\_  
EDF\* - 10% Surcharge \_\_\_\_\_

Project # ST-11091  
Page 1 of 1  
Lab Use Only  
Sample Condition as Received:  
Sealed  yes  no

Shut-In Test:  Y  N

\*Global ID \_\_\_\_\_

Turn Around Requested:

Tracer:

Analysis Requested

- Immediate Attention
- Rush 24 Hours
- Rush 48 Hours
- Rush 72 Hours
- Normal
- Mobile Lab

- n-pentane
- n-hexane
- n-heptane
- Helium
- 1,1-DFA
- \_\_\_\_\_

Sample Matrix:  
Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)

Methane

Magnehelic Vacuum (In/H<sub>2</sub>O)

Number of Containers

Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate	Pump Used	Magnehelic	Sample Matrix		Magnehelic Vacuum	Number of Containers	Remarks & Special Instructions	
B4-43'	3	9060	8/23	1058		ST-11091-01	~2000	BP2	M100.114	SG	X		6	1	tdar bag
B4-48'	3	9140	8/23	1106		ST-11091-02	~2000	BP2	M100.114	SG	X		8	1	
B4-58'	3	9300	8/23	1116		ST-11091-03	~2000	BP2	M100.114	SG	X		4	1	

Relinquished By (Signature): [Signature] Printed Name: Wallace Scorners  
Company: LCI Date: 8-23-17 Time: 11:22

Relinquished By (Signature): [Signature] Printed Name: Angela Haar  
Company: Jones Environmental Date: 8/23/17 Time: 1202

Received By (Signature): [Signature] Printed Name: Angela Haar  
Company: Jones Env. Date: 8/23/17 Time: 11:20

Received By Laboratory (Signature): [Signature] Printed Name: Chris Jones  
Company: Jones Env. Date: 08/23/17 Time: 1202

3 Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgment that the above analyses have been requested, and the information provided herein is correct and accurate.



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

<b>Client:</b>	Leighton & Associates	<b>Report date:</b>	8/30/2017
<b>Client Address:</b>	17781 Cowan Irvine, CA 92614	<b>JEL Ref. No.:</b>	ST-11127
		<b>Client Ref. No.:</b>	11723.001
<b>Attn:</b>	Wallace Sconiers	<b>Date Sampled:</b>	8/30/2017
		<b>Date Received:</b>	8/30/2017
<b>Project:</b>	6th & Alameda Methane Gas Survey	<b>Date Analyzed:</b>	8/30/2017
<b>Project Address:</b>	6th & Alameda Los Angeles, CA	<b>Physical State:</b>	Soil Gas

---

**ANALYSES REQUESTED**

1. ASTM D1946 – Methane

Analytical – Soil Gas samples were analyzed using ASTM D1946 by GC/TCD. All samples were injected into the GC/MS system within 6 hours of sampling.

**Approval:**

Carolyn Carroll  
Stationary Lab Manager



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
Irvine, CA 92614

**Report date:** 8/30/2017  
**JEL Ref. No.:** ST-11127  
**Client Ref. No.:** 11723.001

**Attn:** Wallace Sconiers

**Date Sampled:** 8/30/2017  
**Date Received:** 8/30/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
Los Angeles, CA

**Date Analyzed:** 8/30/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

<u>Sample ID:</u>	<b>B8-43'</b>	<b>B8-48'</b>	<b>B8-58'</b>		
<u>JEL ID:</u>	ST-11127-01	ST-11127-02	ST-11127-03		<u>Practical Quantitation Limit</u>
					<u>Units</u>
Methane (CH <sub>4</sub> )	ND	ND	ND	0.01	%
<b><u>Dilution Factor</u></b>	1	1	1		
	ASTM- 170830_01	ASTM- 170830_01	ASTM- 170830_01		

ND = Not Detected



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**JONES ENVIRONMENTAL  
 LABORATORY RESULTS**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
 Irvine, CA 92614

**Report date:** 8/30/2017  
**JEL Ref. No.:** ST-11127  
**Client Ref. No.:** 11723.001

**Attn:** Wallace Sconiers

**Date Sampled:** 8/30/2017  
**Date Received:** 8/30/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
 Los Angeles, CA

**Date Analyzed:** 8/30/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

<u>Sample ID:</u>	<b>METHOD</b>		
	<b>BLANK</b>		
<u>JEL ID:</u>	AA- 170830_01	<u>Practical</u>	<u>Units</u>
		<u>Quantitation</u>	
		<u>Limit</u>	
Methane (CH <sub>4</sub> )	ND	0.01	%
<b><u>Dilution Factor</u></b>	1		
	ASTM- 170830_01		

ND = Not Detected



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**JONES ENVIRONMENTAL  
 QUALITY CONTROL INFORMATION**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
 Irvine, CA 92614

**Report date:** 8/30/2017  
**JEL Ref. No.:** ST-11127  
**Client Ref. No.:** 11723.00

**Attn:** Wallace Sconiers

**Date Sampled:** 8/30/2017  
**Date Received:** 8/30/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
 Los Angeles, CA

**Date Analyzed:** 8/30/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

**GC#:** ASTM-170830\_01

**JEL ID:**                    **CCV1-170830\_01**    **CCV2-170830\_01**

<u>Parameter</u>	LCS Recovery (%)	LCSD Recovery (%)	<u>RPD</u>	Acceptability Range (%)
Methane (CH <sub>4</sub> )	107%	103%	3.6%	60 - 140

LCS = Lab Control Sample  
 LCSD = Lab Control Sample Duplicate  
 RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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# Soil-Gas Chain of Custody Record

Client: Leighton + Associates  
 Project Name: GM + Alameda Methane Gas Survey  
 Project Address: GM + Alameda, Los Angeles, CA  
 Email: rferber@leightongroup.com - Robin Ferber  
wscorniers@leightongroup.com - Wallace Scorniers  
 Phone: Wallace - 661-705-3324 Robin - 661-705-3025  
 Report To: Robin Ferber Sampler: W. Scorniers

Date: 8-30-17  
 Client Project #: 11723.001  
 Turn Around Requested:  
 Immediate Attention  
 Rush 24 Hours  
 Rush 48 Hours  
 Rush 72 Hours  
 Normal  
 Mobile Lab

Purge Number:  
 1P  3P  7P  10P  
 Shut-In Test: (Y) N

Report Options  
 EDD \_\_\_\_\_  
 EDF\* - 10% Surcharge \_\_\_\_\_  
 \*Global ID \_\_\_\_\_

Project # ST-11127  
 Page 1 of 1  
 Lab Use Only  
 Sample Condition as Received:  
 Sealed  yes  no

Tracer:  
 n-pentane  
 n-hexane  
 n-heptane  
 Helium  
 1,1-DFA  
 \_\_\_\_\_

Analysis Requested

Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Methane	Magnehelic Vacuum (In/H <sub>2</sub> O)	Number of Containers
SG	X		1
"	X		1
"	X		1

Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate	Pump Used	Magnehelic	Sample Matrix	Methane	Magnehelic Vacuum (In/H <sub>2</sub> O)	Number of Containers	Remarks & Special Instructions
B8-43'	3	9060	8-30-17	13:47		ST-11127-D1	~2000	BP2	M100119	SG	X		1	bedbar bag
B8-48'	3	9140	"	14:35		ST-11127-D2	~2000	BP2	"	"	X		1	"
B8-58'	3	9360	"	14:52		ST-11127-D3	~2000	BP2	"	"	X		1	"

Relinquished By (Signature): [Signature] Printed Name: Wallace Scorniers  
 Company: LA Date: 8-30-17 Time: 15:00

Relinquished By (Signature): [Signature] Printed Name: J Watkins  
 Company: Jones Date: 8/30 Time: 1555

Received By (Signature): [Signature] Printed Name: J Watkins  
 Company: JONES Date: 8/30 Time: 1500

Received By Laboratory (Signature): [Signature] Printed Name: Pandy Chan  
 Company: Jones Env Date: 8/30/17 Time: 1555

Total Number of Containers: \_\_\_\_\_  
 Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

<b>Client:</b>	Leighton & Associates	<b>Report date:</b>	8/31/2017
<b>Client Address:</b>	17781 Cowan Irvine, CA 92614	<b>JEL Ref. No.:</b>	ST-11137
		<b>Client Ref. No.:</b>	11723.001
<b>Attn:</b>	Wallace Sconiers	<b>Date Sampled:</b>	8/31/2017
		<b>Date Received:</b>	8/31/2017
<b>Project:</b>	6th & Alameda Methane Gas Survey	<b>Date Analyzed:</b>	8/31/2017
<b>Project Address:</b>	6th & Alameda Los Angeles, CA	<b>Physical State:</b>	Soil Gas

---

**ANALYSES REQUESTED**

1. ASTM D1946 – Methane

Analytical – Soil Gas samples were analyzed using ASTM D1946 by GC/TCD. All samples were injected into the GC/MS system within 6 hours of sampling.

Approval:

Colby Wakeman  
QA/QC Manager





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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
Irvine, CA 92614

**Report date:** 8/31/2017  
**JEL Ref. No.:** ST-11137  
**Client Ref. No.:** 11723.001

**Attn:** Wallace Sconiers

**Date Sampled:** 8/31/2017  
**Date Received:** 8/31/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
Los Angeles, CA

**Date Analyzed:** 8/31/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

<u>Sample ID:</u>	<b>B9-43'</b>	<b>B9-48'</b>	<b>B9-58'</b>		
<u>JEL ID:</u>	ST-11137-01	ST-11137-02	ST-11137-03		<u>Practical Quantitation Limit</u>
					<u>Units</u>
Methane (CH <sub>4</sub> )	ND	ND	ND	0.01	%
<b><u>Dilution Factor</u></b>	1	1	1		
	ASTM- 170831_01	ASTM- 170831_01	ASTM- 170831_01		

ND = Not Detected



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**JONES ENVIRONMENTAL  
 LABORATORY RESULTS**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
 Irvine, CA 92614

**Report date:** 8/31/2017  
**JEL Ref. No.:** ST-11137  
**Client Ref. No.:** 11723.001

**Attn:** Wallace Sconiers

**Date Sampled:** 8/31/2017  
**Date Received:** 8/31/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
 Los Angeles, CA

**Date Analyzed:** 8/31/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

<u>Sample ID:</u>	<b>METHOD</b>		
	<b>BLANK</b>		
<u>JEL ID:</u>	AA- 170831_01	<u>Practical</u>	<u>Units</u>
		<u>Quantitation</u>	
		<u>Limit</u>	
Methane (CH <sub>4</sub> )	ND	0.01	%
<b><u>Dilution Factor</u></b>	1		
	ASTM- 170831_01		

ND = Not Detected



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**JONES ENVIRONMENTAL  
 QUALITY CONTROL INFORMATION**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
 Irvine, CA 92614

**Report date:** 8/31/2017  
**JEL Ref. No.:** ST-11137  
**Client Ref. No.:** 11723.001

**Attn:** Wallace Sconiers

**Date Sampled:** 8/31/2017  
**Date Received:** 8/31/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
 Los Angeles, CA

**Date Analyzed:** 8/31/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

**GC#:** ASTM-170831\_01

**JEL ID:**            **CCV1-170831\_01**    **CCV2-170831\_01**

<u>Parameter</u>	LCS Recovery (%)	LCSD Recovery (%)	<u>RPD</u>	Acceptability Range (%)
Methane (CH <sub>4</sub> )	102%	101%	0.4%	60 - 140

LCS = Lab Control Sample  
 LCSD = Lab Control Sample Duplicate  
 RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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# Chain-of-Custody Record

<b>Client</b> Leighton + Associates	<b>Date</b> 8-31-17	<b>SOIL GAS</b> Purge Number: <input type="checkbox"/> 1P <input checked="" type="checkbox"/> 3P <input type="checkbox"/> 7P <input type="checkbox"/> 10P Purge Rate: _____ cc/min Shut in Test: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Tracer: <input type="checkbox"/> n-propanol <input type="checkbox"/> n-pentane <input type="checkbox"/> 1,1-DFA <input type="checkbox"/> Helium <input type="checkbox"/> _____		<b>JEL Project #</b> ST-11137
<b>Project Name</b> GHI + Alameda Methane Gas Survey	<b>Client Project #</b> 11723-001	<b>Analysis Requested</b> Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG) Methane Magnetohelic Vacuum (In/H <sub>2</sub> O) Number of Containers		<b>Page</b> 1 of 1
<b>Project Address</b> GHI + Alameda, Los Angeles, CA	<b>Turn Around Requested:</b> <input type="checkbox"/> Immediate Attention <input type="checkbox"/> Rush 24-48 Hours <input type="checkbox"/> Rush 72-96 Hours <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Mobile Lab			<b>Lab Use Only</b> Sample Condition as Received: Chilled <input type="checkbox"/> yes <input type="checkbox"/> no Sealed <input type="checkbox"/> yes <input type="checkbox"/> no
<b>Project Contact</b> Robin Ferber rferber@leighongroup.com	Wallace Scorniers wscorniers@leighongroup.com			

Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Methane	Magnetohelic Vacuum (In/H <sub>2</sub> O)	Number of Containers	Remarks/Special Instructions
B9-43'	3	9060	8-31-17	13:23		ST-11137-01	SG	X		1	redlar bag
B9-48'	3	9140	"	13:35		ST-11137-02	"	X		1	"
B9-58'	3	9300	"	13:45		ST-11137-03	"	X		1	"

<b>1</b> Relinquished by (signature) Wallace Scorniers	<b>Date</b> 8-31-17	<b>2</b> Received by (signature) MJE YG	<b>Date</b> 8/31/17	<b>Total Number of Containers</b>  The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.
<b>Company</b> LHA	<b>Time</b> 1502	<b>Company</b> JONES	<b>Time</b> 1503	
<b>3</b> Relinquished by (signature) MJE YG	<b>Date</b> 8/31/17	<b>4</b> Received by Laboratory (signature) Amy Chen	<b>Date</b> 8/31/17	
<b>Company</b> JONES	<b>Time</b> 1604	<b>Company</b> Jones Env	<b>Time</b> 1600	

EDD  EDF



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

<b>Client:</b>	Leighton & Associates	<b>Report date:</b>	10/2/2017
<b>Client Address:</b>	17781 Cowan Irvine, CA 92614	<b>JEL Ref. No.:</b>	ST-11268
		<b>Client Ref. No.:</b>	11723.001
<b>Attn:</b>	Wallace Sconiers	<b>Date Sampled:</b>	9/29/2017
		<b>Date Received:</b>	9/29/2017
<b>Project:</b>	6th & Alameda Methane Gas Survey	<b>Date Analyzed:</b>	9/29/2017
<b>Project Address:</b>	6th & Alameda Los Angeles, CA	<b>Physical State:</b>	Soil Gas

---

**ANALYSES REQUESTED**

1. ASTM D1946 – Methane

Analytical – Soil Gas samples were analyzed using ASTM D1946 by GC/TCD. All samples were injected into the GC/MS system within 6 hours of sampling.

**Approval:**

Carolyn Carroll  
Stationary Lab Manager



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**JONES ENVIRONMENTAL  
 LABORATORY RESULTS**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
 Irvine, CA 92614

**Report date:** 10/2/2017  
**JEL Ref. No.:** ST-11268  
**Client Ref. No.:** 11723.001

**Attn:** Wallace Sconiers

**Date Sampled:** 9/29/2017  
**Date Received:** 9/29/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
 Los Angeles, CA

**Date Analyzed:** 9/29/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

<u>Sample ID:</u>	<b>B29-58'</b>	<b>B2-58'</b>			
<u>JEL ID:</u>	<b>ST-11268-01</b>	<b>ST-11268-02</b>		<u>Practical Quantitation Limit</u>	
				<u>Units</u>	
Methane (CH <sub>4</sub> )	ND	ND		0.01	%
<u>Dilution Factor</u>	1	1			
	ASTM- 092917_01	ASTM- 092917_01			

ND = Not Detected



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**JONES ENVIRONMENTAL  
 LABORATORY RESULTS**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
 Irvine, CA 92614

**Report date:** 10/2/2017  
**JEL Ref. No.:** ST-11268  
**Client Ref. No.:** 11723.001

**Attn:** Wallace Sconiers

**Date Sampled:** 9/29/2017  
**Date Received:** 9/29/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
 Los Angeles, CA

**Date Analyzed:** 9/29/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

**Sample ID:** Ambient Air

**JEL ID:** AA-092917\_01

Methane (CH<sub>4</sub>)

ND

<u>Practical Quantitation Limit</u>	<u>Units</u>
---	--------------

0.01

%

**Dilution Factor** 1

ASTM-092917\_01

ND = Not Detected



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**JONES ENVIRONMENTAL  
 QUALITY CONTROL INFORMATION**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
 Irvine, CA 92614

**Report date:** 10/2/2017  
**JEL Ref. No.:** ST-11268  
**Client Ref. No.:** 11723.001

**Attn:** Wallace Sconiers

**Date Sampled:** 9/29/2017  
**Date Received:** 9/29/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
 Los Angeles, CA

**Date Analyzed:** 9/29/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

**GC#:** ASTM-092917\_01

**JEL ID:**                    **CCV-092917\_01**    **CCV2-092917\_01**

<u>Parameter</u>	CCV Recovery (%)	CCV 2 Recovery (%)	<u>RPD</u>	Acceptability Range (%)
Methane (CH <sub>4</sub> )	103%	103%	0.2%	60 - 140

LCS = Lab Control Sample  
 LCSD = Lab Control Sample Duplicate  
 RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%





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# Soil-Gas Chain of Custody Record

Client: Leighton + Associates  
 Project Name: City of Alameda Methane Gas Survey  
 Project Address: City of Alameda, Los Angeles, CA  
 Email: rferber@leightongroup.com - Robin Ferber  
 Phone: 661-705-3025  
 Report To: Robin Ferber Sampler: W. Scornics

Date: 9-29-17  
 Client Project #: 11723.001  
 Turn Around Requested:  
 Immediate Attention  
 Rush 24 Hours  
 Rush 48 Hours  
 Rush 72 Hours  
 Normal  
 Mobile Lab

Purge Number:  
 1P  3P  7P  10P  
 Shut-In Test: (Y) N

Report Options  
 EDD \_\_\_\_\_  
 EDF\* - 10% Surcharge \_\_\_\_\_  
 \*Global ID \_\_\_\_\_

Project # ST-11208  
 Page 1 of 1  
 Lab Use Only  
 Sample Condition as Received:  
 Sealed  yes  no

Tracer:  
 n-pentane  
 n-hexane  
 n-heptane  
 Helium  
 1,1-DFA  
 \_\_\_\_\_

### Analysis Requested

Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Methane	Magnehelic Vacuum (In/H <sub>2</sub> O)	Number of Containers
SG	X		1
SG	X		1

Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate	Pump Used	Magnehelic	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Methane	Magnehelic Vacuum (In/H <sub>2</sub> O)	Number of Containers	Remarks & Special Instructions
B29-58'	3	6.00 3	9-29-17	15:20		ST-11208-01	2000			SG	X		1	
B2-58'	3	6.00 3	11	15:52		ST-11208-02	2000			SG	X		1	

Relinquished By (Signature): [Signature] Printed Name: Wallace Scornics  
 Company: Leighton + Associates Date: 9-29-17 Time: 16:10

Received By (Signature): [Signature] Printed Name: MARTIN YOUNG  
 Company: JONES Date: 9/29/17 Time: 1812

2 Total Number of Containers

Relinquished By (Signature): [Signature] Printed Name: MARTIN YOUNG  
 Company: JONES Date: 9/29/17 Time: 1737

Received By Laboratory (Signature): [Signature] Printed Name: Tania Camacho  
 Company: Jones Env Date: 09-29-17 Time: 1737

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

<b>Client:</b>	Leighton & Associates	<b>Report date:</b>	9/19/2017
<b>Client Address:</b>	17781 Cowan Irvine, CA 92614	<b>JEL Ref. No.:</b>	ST-11204
		<b>Client Ref. No.:</b>	11723.001
<b>Attn:</b>	Wallace Sconiers	<b>Date Sampled:</b>	9/19/2017
		<b>Date Received:</b>	9/19/2017
<b>Project:</b>	6th & Alameda Methane Gas Survey	<b>Date Analyzed:</b>	9/19/2017
<b>Project Address:</b>	6th & Alameda Los Angeles, CA	<b>Physical State:</b>	Soil Gas

---

**ANALYSES REQUESTED**

1. ASTM D1946 – Methane

Analytical – Soil Gas samples were analyzed using ASTM D1946 by GC/TCD. All samples were injected into the GC/MS system within 6 hours of sampling.

Approval:

Colby Wakeman  
QA/QC Manager



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**JONES ENVIRONMENTAL  
 LABORATORY RESULTS**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
 Irvine, CA 92614

**Report date:** 9/19/2017  
**JEL Ref. No.:** ST-11204  
**Client Ref. No.:** 11723.001

**Attn:** Wallace Sconiers

**Date Sampled:** 9/19/2017  
**Date Received:** 9/19/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
 Los Angeles, CA

**Date Analyzed:** 9/19/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

**Sample ID:**                    **B34-48'**        **B34-58'**

**JEL ID:**                        **ST-11204-01**    **ST-11204-02**

Methane (CH<sub>4</sub>)

ND                    ND

**Practical**  
**Quantitation**  
**Limit**                    **Units**

0.01                    %

**Dilution Factor**                    1                    1

ASTM-                    ASTM-  
 170919\_01                170919\_01

ND = Not Detected



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**JONES ENVIRONMENTAL  
 LABORATORY RESULTS**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
 Irvine, CA 92614

**Report date:** 9/19/2017  
**JEL Ref. No.:** ST-11204  
**Client Ref. No.:** 11723.001

**Attn:** Wallace Sconiers

**Date Sampled:** 9/19/2017  
**Date Received:** 9/19/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
 Los Angeles, CA

**Date Analyzed:** 9/19/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

**Sample ID:** Ambient Air

**JEL ID:** AA-170919\_01

Methane (CH<sub>4</sub>)

ND

**Practical  
 Quantitation  
 Limit**      **Units**

0.01      %

**Dilution Factor**      1

ASTM-170919\_01

ND = Not Detected



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**JONES ENVIRONMENTAL  
 QUALITY CONTROL INFORMATION**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
 Irvine, CA 92614

**Report date:** 9/19/2017  
**JEL Ref. No.:** ST-11204  
**Client Ref. No.:** 11723.001

**Attn:** Wallace Sconiers

**Date Sampled:** 9/19/2017  
**Date Received:** 9/19/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
 Los Angeles, CA

**Date Analyzed:** 9/19/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

**GC#:** ASTM-170919\_01

**JEL ID:**            **CCV1-170919\_01**    **CCV2-170919\_01**

<u>Parameter</u>	CCV Recovery (%)	CCV 2 Recovery (%)	<u>RPD</u>	Acceptability Range (%)
Methane (CH <sub>4</sub> )	78%	78%	0.6%	60 - 140

LCS = Lab Control Sample  
 LCSD = Lab Control Sample Duplicate  
 RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

# Chain-of-Custody Record

<b>Client</b> Leighton+Associates (LTA)	<b>Date</b> 9-19-17	<b>SOIL GAS</b> Purge Number: <input type="checkbox"/> 1P <input checked="" type="checkbox"/> 3P <input type="checkbox"/> 7P <input type="checkbox"/> 10P Purge Rate: 2000 cc/min Shut in Test: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Tracer: <input type="checkbox"/> n-propanol <input type="checkbox"/> n-pentane <input type="checkbox"/> 1,1-DFA <input type="checkbox"/> Helium <input type="checkbox"/> _____	<b>JEL Project #</b> ST-11204
<b>Project Name</b> LTA + Alameda Methane Gas Survey	<b>Client Project #</b> 11723.001	<b>Analysis Requested</b>	<b>Page</b> 1 of 1
<b>Project Address</b> LTA + Alameda, Los Angeles, CA	<b>Turn Around Requested:</b> <input type="checkbox"/> Immediate Attention <input type="checkbox"/> Rush 24-48 Hours <input type="checkbox"/> Rush 72-96 Hours <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Mobile Lab	<b>Sample Matrix:</b> Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG) <b>Methane</b>	<b>Lab Use Only</b> Sample Condition as Received: Chilled <input type="checkbox"/> yes <input type="checkbox"/> no Sealed <input type="checkbox"/> yes <input type="checkbox"/> no
<b>Project Contact</b> rferber@leightongroup.com Robin Ferber		<b>Magnetic Vacuum (In H<sub>2</sub>O)</b>	
		<b>Number of Containers</b>	

Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	Sample Matrix	Methane	Magnetic Vacuum (In H <sub>2</sub> O)	Number of Containers	Remarks/Special Instructions
B34-48'	3	9140	9-19-17	13:10		ST-11204-01	SG	X		1	Tedlar bag
B34-58'	3	9300	"	13:25		ST-11204-02	SG	X		1	"

<b>1</b> Relinquished by (signature) <i>Wallace Somiers</i>	<b>Date</b> 9-19-17	<b>2</b> Received by (signature) <i>[Signature]</i>	<b>Date</b> 9/19	<b>2</b>	<b>Total Number of Containers</b>  The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.
<b>Company</b> LTA	<b>Time</b> 1433	<b>Company</b> Jones	<b>Time</b> 1433		
<b>3</b> Relinquished by (signature) <i>[Signature]</i>	<b>Date</b> 9/19	<b>4</b> Received by Laboratory (signature) <i>[Signature]</i>	<b>Date</b> 9/19		
<b>Company</b> Jones	<b>Time</b> 1525	<b>Company</b> Jones Env	<b>Time</b> 1530		

## APPENDIX C

### PROFILING ANALYTICAL TEST DATA AND AIS EMAIL FOR DRUMMED SOIL CUTTINGS



Leighton



# A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C

ONTARIO, CA 91761

951-779-0310

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FAX 951-779-0344

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FDA#	2030513
LA City#	10261
ELAP#s	2789
	2790
	2122

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## CASE NARRATIVE

Authorized Signature Name / Title (print)

Ken Zheng, President

Signature / Date

Ken Zheng, President  
11/27/2017 10:14:37

Laboratory Job No. (Certificate of Analysis No.)

1711-00187

Project Name / No.

1206 6th ST. LOS ANGELES, CA 37039-18

Dates Sampled (from/to)

11/21/17 To 11/21/17

Dates Received (from/to)

11/22/17 To 11/22/17

Dates Reported (from/to)

11/27/17 To 11/27/2017

Chains of Custody Received

Yes

Comments:

### Subcontracting

Organic Analyses

No analyses sub-contracted

Inorganic Analyses

No analyses sub-contracted

### Sample Condition(s)

All samples intact

### Positive Results (Organic Compounds)

None





# A & R Laboratories, Inc.

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## CERTIFICATE OF ANALYSIS

1711-00187

AMERICCAN INTEGRATED SERVICES  
M.BORREGO  
1502 E. OPP ST  
WILMINGTON, CA 90744

Date Reported 11/27/17  
Date Received 11/22/17  
Invoice No. 81139  
Cust # A183  
Permit Number  
Customer P.O. 37039-18

Project: 1206 6th ST. LOS ANGELES, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 <b>DRUM-001</b>							Date & Time Sampled: 11/21/17	
Sample Matrix: <b>Soil</b>								
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.20		mg/Kg	EPA 8015M	1.0	0.20	11/26/17	AR
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		11/22/17	VS
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	11/22/17	VS
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	11/22/17	VS
[Surrogate]								
o-Terphenyl (OTP)	84		%REC	EPA 8015B		50-150	11/22/17	VS
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		11/22/17	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	11/22/17	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	11/22/17	TLB
Barium	<b>42.1</b>		mg/Kg	EPA 6010B	1.0	0.500	11/22/17	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	11/22/17	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	11/22/17	TLB
Chromium	<b>13.3</b>		mg/Kg	EPA 6010B	1.0	0.500	11/22/17	TLB
Cobalt	<b>2.44</b>		mg/Kg	EPA 6010B	1.0	0.500	11/22/17	TLB
Copper	<b>5.05</b>		mg/Kg	EPA 6010B	1.0	0.500	11/22/17	TLB
Lead	<b>1.26</b>		mg/Kg	EPA 6010B	1.0	0.500	11/22/17	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	11/22/17	TLB
Nickel	<b>2.68</b>		mg/Kg	EPA 6010B	1.0	0.500	11/22/17	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	11/22/17	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	11/22/17	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	11/22/17	TLB
Vanadium	<b>19.1</b>		mg/Kg	EPA 6010B	1.0	0.500	11/22/17	TLB
Zinc	<b>15.3</b>		mg/Kg	EPA 6010B	1.0	5.00	11/22/17	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		11/24/17	JEN
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	11/24/17	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		11/26/17	AR
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	11/26/17	AR

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1502 E. OPP ST  
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Date Reported 11/27/17  
Date Received 11/22/17  
Invoice No. 81139  
Cust # A183  
Permit Number  
Customer P.O. 37039-18

Project: 1206 6th ST. LOS ANGELES, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 <b>DRUM-001</b>							Date & Time Sampled: 11/21/17	
Sample Matrix: <b>Soil</b>								
.....continued								
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	11/26/17	AR
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
t-Butanol (TBA)	<0.020		mg/Kg	EPA 8260B	1.0	0.020	11/26/17	AR
2-Butanone (MEK)	<0.010		mg/Kg	EPA 8260B	1.0	0.010	11/26/17	AR
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	11/26/17	AR
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	11/26/17	AR
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR

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## CERTIFICATE OF ANALYSIS

1711-00187

AMERICCAN INTEGRATED SERVICES  
M.BORREGO  
1502 E. OPP ST  
WILMINGTON, CA 90744

Date Reported 11/27/17  
Date Received 11/22/17  
Invoice No. 81139  
Cust # A183  
Permit Number  
Customer P.O. 37039-18

Project: 1206 6th ST. LOS ANGELES, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 <b>DRUM-001</b>							Date & Time Sampled: 11/21/17	
Sample Matrix: <b>Soil</b>								
.....continued								
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	11/26/17	AR
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Diisopropyl Ether (DIPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
2-Hexanone	<0.010		mg/Kg	EPA 8260B	1.0	0.010	11/26/17	AR
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
4-Methyl-2-Pentanone (MIBK)	<0.010		mg/Kg	EPA 8260B	1.0	0.010	11/26/17	AR
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Tetrachloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	11/26/17	AR
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Trichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	11/26/17	AR
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR

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Date Reported 11/27/17  
Date Received 11/22/17  
Invoice No. 81139  
Cust # A183  
Permit Number  
Customer P.O. 37039-18

Project: 1206 6th ST. LOS ANGELES, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 <b>DRUM-001</b>					Date & Time Sampled:		11/21/17	
Sample Matrix: <b>Soil</b>								
.....continued								
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	11/26/17	AR
[VOC Surrogates]								
Dibromofluoromethane	99		%REC	EPA 8260B		70-130	11/26/17	AR
Toluene-D8	90		%REC	EPA 8260B		70-130	11/26/17	AR
Bromofluorobenzene	106		%REC	EPA 8260B		70-130	11/26/17	AR

Respectfully Submitted:

Ken Zheng - Lab Director

### 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

AMERICCAN INTEGRATED SERVICES

1711-00187

M.BORREGO  
 1502 E. OPP ST  
 CERRITOS, CA 90703

Date Reported 11/27/2017  
 Date Received 11/22/2017  
 Date Sampled 11/21/2017  
 Invoice No. 81139  
 Customer # A183  
 Customer P.O. 37039-18

Project: 1206 6th ST. LOS ANGELES, CA

Method #	EPA 6010B									
QC Reference #	69568	Date Analyzed:	11/22/2017	Technician:	TLB					
Samples	001									
Results	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	Control Ranges	LCS %REC	LCS %RPD	SPIKE %RPD
Antimony	104	103	0.5	100	100	0.7	75 - 125	0 - 20	0 - 20	
Arsenic	101	101	0.7	101	100	0.1	75 - 125	0 - 20	0 - 20	
Barium	103	105	1.8	109	111	1.6	75 - 125	0 - 20	0 - 20	
Beryllium	101	103	1.4	103	103	0.1	75 - 125	0 - 20	0 - 20	
Cadmium	99	100	0.3	96	96	0.1	75 - 125	0 - 20	0 - 20	
Chromium	101	101	0.4	103	101	1.3	75 - 125	0 - 20	0 - 20	
Cobalt	99	99	0.2	100	100	0.5	75 - 125	0 - 20	0 - 20	
Copper	102	101	0.6	108	107	0.7	75 - 125	0 - 20	0 - 20	
Lead	100	100	0.2	99	98	1.0	75 - 125	0 - 20	0 - 20	
Molybdenum	101	101	0.3	78	77	0.4	75 - 125	0 - 20	0 - 20	
Nickel	100	100	0.5	99	99	0.4	75 - 125	0 - 20	0 - 20	
Selenium	99	100	1.1	92	92	0.1	75 - 125	0 - 20	0 - 20	
Silver	101	102	0.6	98	96	1.8	75 - 125	0 - 20	0 - 20	
Thallium	101	101	0.0	84	88	3.7	75 - 125	0 - 20	0 - 20	
Vanadium	102	101	0.2	107	108	0.7	75 - 125	0 - 20	0 - 20	
Zinc	100	100	0.4	69	67	1.2	75 - 125	0 - 20	0 - 20	

Method #	EPA 7471A									
QC Reference #	69608	Date Analyzed:	11/24/2017	Technician:	JEN					
Samples	001									
Results	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	Control Ranges	LCS %REC	LCS %RPD	SPIKE %RPD
Mercury	110	96	14	110	102	9	75 - 125	0 - 25	0 - 25	

Method #	EPA 8015B						
QC Reference #	69604	Date Analyzed:	11/22/2017	Technician:	VS		
Samples	001						
Results	LCS %REC	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	Control Ranges	LCS %REC	SPIKE %RPD
C13-C22	84	100	81	19	70 - 130	0 - 25	

Method #	EPA 8015M					
QC Reference #	69613	Date Analyzed:	11/26/2017	Technician:	AR	
Samples	001					
Results	LCS %REC	LCS %DUP	LCS %RPD	Control Ranges	LCS %REC	LCS %RPD
Gasoline (C4-C12)	90	88	2	70 - 130	0 - 25	



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## QUALITY CONTROL DATA REPORT

AMERICCAN INTEGRATED SERVICES  
 M.BORREGO

1711-00187

Date Reported 11/27/2017  
 Date Received 11/22/2017  
 Date Sampled 11/21/2017

Project: 1206 6th ST. LOS ANGELES, CA

Method # EPA 8260B

QC Reference # 69612 Date Analyzed: 11/26/2017 Technician: AR

Samples 001

### Results

LCS %REC

1,1-Dichloroethene	78
Benzene	75
Chlorobenzene	110
Toluene	85
Trichloroethene	95

### Control Ranges

LCS %REC

70 - 130
70 - 130
70 - 130
70 - 130
70 - 130

No method blank results were above reporting limit

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.

Chain of Custody **RUSH**

Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact		Project Manager: Melynda Borrego			Office Contact: Marcella Duran			11/21/2017		COC No: 1711-00187	
American Integrated Services, Inc.		Tel/Fax: 310-522-1168			Lab Contact: Ken Zheng			Carrier: American Integrated		_____ of _____ COCs	
1502 E. Opp Street		Analysis Turnaround Time			Type of Containers					For Lab Use Only:	
Wilmington, CA. 90744		Calendar ( C ) or Work Days (W) _____			Composite = C / Grab = G					Sample Conditions	
310-522-1168		7 days if different from Below _____			8015 M Gas, Diesel and Oil Range TPH					Chilled <input type="checkbox"/>	
AISAP@americanintegrated.com		<input type="checkbox"/> 8 hours			8260B VOC by GC/MS					Intact <input checked="" type="checkbox"/>	
Project Name:		<input checked="" type="checkbox"/> 24 hours			6010B Cam 17 Metals					Sample Seals <input checked="" type="checkbox"/>	
1206 6th St., Los Angeles, CA		<input type="checkbox"/> 48 hours			8081 A Organochlorine Pesticides					Type of Containers <input checked="" type="checkbox"/>	
Job / PO # 37039-18		<input type="checkbox"/> 4-5 days			8082 PCB's					Type of Containers 24oz Jar	
					8270C Semi VOC's by GC/MS						

Sample Identification	Lab Sample ID	Sample Date	Sample Time	Matrix	# of Cont.	Type of Containers	Composite = C / Grab = G	8015 M Gas, Diesel and Oil Range TPH	8260B VOC by GC/MS	6010B Cam 17 Metals	8081 A Organochlorine Pesticides	8082 PCB's	8270C Semi VOC's by GC/MS	Sample Specific Notes:
Drums-001		11/21/2017		Soil	1		C X	X	X					

Relinquished by: 	Company: American Integrated Services, Inc.	Date/Time: 11/22/17	Received by: 	Company: A&R	Date/Time: 11-22-17 9:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: 	Company: A&R	Date/Time: 11/22/17 9:00



# Sample Acceptance Checklist

CLIENT: American Integrated

WORK ORDER NUMBER: 1711-0087

**Temperature:** (Criteria: 0.0°C-6.0°C)  
 Sample Temp. (w/CF) °C(w/CF) 5.3°C

Sample(s) outside temperature criteria: PM 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

**CUSTODY SEAL:**  
 Cooler  Present and Intact  Present and Not Intact  Not Present  
 Sample(s)  Present and Intact  Present and Not Intact  Not Present

Sample Condition:	Yes	No	N/A
Was a COC received	✓		
Were sample IDs present?	✓		
Were sampling dates & times present?	✓		
Was a relinquished signature present?	✓		
Were the tests required clearly indicated?	✓		
Were all samples sealed in plastic bags?		✓	
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of samples sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓

**Explanations/Comments:**  
 \_\_\_\_\_  
 \_\_\_\_\_

**Notification:**  
 For discrepancies, how was the Project Manager notified? Verbal  
 Verbal: PM Initials: \_\_\_\_\_ Data/Time: \_\_\_\_\_  
 Email: Send to: \_\_\_\_\_ Data/Time: \_\_\_\_\_  
 Project Manager's response:  
 \_\_\_\_\_

Completed By: *Cynthia Bjo*

Date: 11-22-17



## Robin Ferber

---

**From:** Marcella Duran <mduran@americanintegrated.com>  
**Sent:** Monday, November 27, 2017 11:11 AM  
**To:** Melynda Borrego; Robin Ferber; Wallace Sconiers  
**Cc:** Betty Perez  
**Subject:** RE: 1711-00187-ALPHA SCI- 1206 6TH ST \*REPORT\*  
**Attachments:** 1711-00187-ALPHA SCI-1206 6TH ST-REPORT PACKAGE.PDF


Hi All,

Based on the attached lab results, the soil is good to ship as Non-Hazardous.

**Thank you,**

***Marcella Duran***  
***Technical Waste Supervisor***

***American Integrated Services, Inc.***  
***1502 E Opp St, Wilmington CA 90744***  
***Office: 310-522-1168 Cell: 424-230-4002***  
***Email: [mduran@americanintegrated.com](mailto:mduran@americanintegrated.com)***  
***24 Hour Emergency Response 888-423-6060***

The logo for American Integrated Services, Inc. features a stylized 'A' with a red and blue gradient, followed by the company name in a blue, cursive-style font.



---

**From:** Melynda Borrego  
**Sent:** Monday, November 27, 2017 10:52 AM  
**To:** Robin Ferber <[rferber@leightongroup.com](mailto:rferber@leightongroup.com)>; Wallace Sconiers <[wsconiers@leightongroup.com](mailto:wsconiers@leightongroup.com)>  
**Cc:** Betty Perez <[bperez@americanintegrated.com](mailto:bperez@americanintegrated.com)>; Marcella Duran <[mduran@americanintegrated.com](mailto:mduran@americanintegrated.com)>  
**Subject:** FW: 1711-00187-ALPHA SCI- 1206 6TH ST \*REPORT\*

Hi Robin,

The results are attached and are Non-hazardous for the 6<sup>th</sup> Street site.

Thank You,



Melynda Borrego

Senior Manager

Cell Phone:310-864-2489



Wilmington-Orange County-Inland Empire

Ventura County- Northern California

**From:** Jennifer Iniguez [<mailto:jennifer.iniguez@arlaboratories.com>]

**Sent:** Monday, November 27, 2017 10:38 AM

**To:** ASC Roger <[asc90703@gmail.com](mailto:asc90703@gmail.com)>; Melynda Borrego <[mborrego@americanintegrated.com](mailto:mborrego@americanintegrated.com)>

**Cc:** jenny jiang <[jenny.jiang@arlaboratories.com](mailto:jenny.jiang@arlaboratories.com)>

**Subject:** 1711-00187-ALPHA SCI- 1206 6TH ST \*REPORT\*

Dear Valued Customer,

The attachment to this email contains a pdf file of the Certificate of Analysis for the sample(s) submitted to A & R Laboratories.

If you have any questions regarding this file, please do not hesitate to contact us at: [951-779-0310](tel:951-779-0310); or email us at [office@arlaboratories.com](mailto:office@arlaboratories.com)

Thank you. We do appreciate your business.

**Jennifer Iniguez**

**A & R Laboratories**

1650 S. Grove Ave, Suite C

Ontario, CA 91761

**Ph:** [951-779-0310](tel:951-779-0310)

**Fax:** [951-779-0344](tel:951-779-0344)

\*\*\*\*\*

This electronic message contains information from A&R Laboratories that may be privileged or confidential. If you are not the intended recipient, you are asked to delete it without copying or forwarding the message. If you received this transmission in error, please immediately notify us by telephone or email.

Thank You. A&R Laboratories

\*\*\*\*\*

APPENDIX D  
DISPOSAL MANIFESTS FOR  
SOIL SAFE OF CALIFORNIA



Leighton

P.O. BOX 92316 LONG BEACH, CA. 90809  
 Office 310-522-1168 Fax 310-522-1182  
 24 Hour Emergency Hotline 888-423-6060

**TRANSPORTATION WORK ORDER**

CUSTOMER NAME: <b>LEIGHTON</b>		JOB # <b>37039-22</b>		DATE: <b>12.22.17</b>	
JOBSITE: <b>AIS RIV YARD</b>				CONTACT:	
ADDRESS: <b>30440 AGOURA RD</b>				CUSTOMER P.O.:	
CITY: <b>AGOURA HILLS, CA</b>					
EQUIPMENT:		Manifest# :		Disposal Location:	
<input type="checkbox"/> LOWBOY <input type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED <input checked="" type="checkbox"/> <b>P/R</b>		TRUCK # <b>561</b> TRAILER # <b>240</b>		<b>48174-0041</b> <b>002</b>	
				<b>SOIL SAFE</b>	
Bin #:	Pickup / Deliver <input checked="" type="checkbox"/>	Return / Destination <input checked="" type="checkbox"/>		BIN LINERS:	
<b>B-1610CP</b>	<b>P/R</b>	<b>(R) RIV YARD.</b>		<input type="checkbox"/> USED ___ How many <input type="checkbox"/> NOT USED	
				Tarps:	
				<input type="checkbox"/> Yes <input type="checkbox"/> No	
On Site		DESCRIPTION			
Start	Stop				
		<b>P/R FULL BIN FROM RIV YARD &amp; TRANS TO SOIL SAFE FOR DISPOSAL. OFFLOADED &amp; RETURNED EMPTY BACK TO RIV YARD.</b>			
REPORTING TIME	ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME	
<b>0630</b>	<b>1200</b>	<b>5.5</b>	<b>0</b>	<b>5.5</b>	

**X** Jose Pantopa Jr  
 DRIVER

**X**  
 CUSTOMER SIGNATURE

# Soil Safe of California, Inc.

12328 Hibiscus Ave. Adelanto, CA 92301

ADE 138779

## WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professional Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

**Manifest Number:** A4-8174 Load #: 2

12/22/2017

### Generator Site Information:

Sixth and Alameda, LLC.  
1206-1338 East Sixth Street &  
1205-1321 Wholesale Street  
Los Angeles, CA 90021

### Weighmaster Weighed at:

SOIL SAFE OF CALIFORNIA, INC..  
12328 HIBISCUS AVE  
ADELANTO, CA 92301

			<u>Lbs</u>	<u>Tons</u>
B Meek	<b>Time In:</b> 9:37:20 AM	<b>Gross Weight:</b>	52376	26.19 Manual Wt
B Meek	<b>Time out:</b> 9:38:17 AM	<b>Tare Weight:</b>	39880	19.94 Manual Wt
		<b>Net Weight:</b>	12496	6.248

**Truck Number:** 561

**Trailer Number:** 240

**Commodity:** Non Haz - Solids

**Driver on Gross and Tare Transporter:** AIS - LUIS

# Manifest

## SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/29/17 Responsible for Payment: Transporter Transport Truck #: 418 561 210 Facility #: A07 Approval Number: 48174 Load #: 01012

Generator's Name and Billing Address: **Sixth and Alameda LLC**  
2392 Morse Avenue  
Irvine, CA 92614

Generator's Phone #: \_\_\_\_\_  
Person to Contact: \_\_\_\_\_  
FAX#: \_\_\_\_\_ Customer Account Number: \_\_\_\_\_

Consultant's Name and Billing Address: \_\_\_\_\_  
Consultant's Phone #: \_\_\_\_\_  
Person to Contact: \_\_\_\_\_  
FAX#: \_\_\_\_\_ Customer Account Number: \_\_\_\_\_

Generation Site (Transport from): (name & address)  
**1206-1338 East 6th St. &  
1205-1321 Wholesale Street  
Los Angeles, CA 90021**

Site Phone #: \_\_\_\_\_  
Person to Contact: \_\_\_\_\_  
FAX#: \_\_\_\_\_

Designated Facility (Transport to): (name & address)  
**Soil Safe**  
12328 Hibiscus Rd.  
Adelanto, CA 92301-1700

Facility Phone #: \_\_\_\_\_  
Person to Contact: **(800) 862-8001**  
**Joe Provencal**  
FAX#: **(760) 246-8004**

Transporter Name and Mailing Address:  
**American Integrated Services, Inc.**  
P.O. Box 92316  
Long Beach, CA 90809-2316

Transporter's Phone #: \_\_\_\_\_  
Person to Contact: **(310) 522-1168**  
**Melynda Borrego**  
FAX#: **(310) 522-0474** Customer Account Number: **CAR000148338**  
**7704908**

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	<u>20</u>		<del>3980</del> <u>3980</u>		<u>12196</u>
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>			<u>52376</u>		<u>6.2</u>

List any exception to items listed above: AIS Project # 37029-22 B16106 Scale Ticket # 138779

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Wallace Seaman (L.A.) on behalf of Sixth and Alameda LLC Generator  Consultant  Signature and date: [Signature] Month, Day, Year: 11/29/17

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: USE TATE Signature and date: [Signature] Month, Day, Year: 11/29/17

Discrepancies: \_\_\_\_\_

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:  
Print or Type Name: J. Provencal Signature and date: [Signature] 12-22-17

Generator and/or Consultant

Transporter

Recycling Facility

Please print or type.

TRANSPORTER COPY

# Soil Safe of California, Inc.

# ADE 138778

12328 Hibiscus Ave. Adelanto, CA 92301

## WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professional Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

**Manifest Number:** A4-8174 Load #: 1

12/22/2017

**Generator Site Information:**

Sixth and Alameda, LLC.  
1206-1338 East Sixth Street &  
1205-1321 Wholesale Street  
Los Angeles, CA 90021

**Weighmaster Weighed at:**

SOIL SAFE OF CALIFORNIA, INC..  
12328 HIBISCUS AVE  
ADELANTO, CA 92301

			<u>Lbs</u>	<u>Tons</u>
B Meek	<b>Time In:</b> 9:18:50 AM	<b>Gross Weight:</b>	71120	35.56 Manual Wt
B Meek	<b>Time out:</b> 9:36:47 AM	<b>Tare Weight:</b>	52376	26.19 Manual Wt
		<b>Net Weight:</b>	18744	9.372

**Truck Number:** 561

**Trailer Number:** 240

**Commodity:** Non Haz - Solids

**Driver on Gross and Tare Transporter:** AIS - LUIS



# Manifest

## SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: <b>11/29/17</b>	Responsible for Payment: <b>Transporter</b>	Transport Truck #: <b>52150178</b>	Facility #: <b>A07</b>	Approval Number: <b>48174</b>	Load #: <b>001</b>
--------------------------------------	--	---------------------------------------	---------------------------	----------------------------------	-----------------------

Generator's Name and Billing Address: <b>Sixth and Alameda LLC</b> <b>2392 Morse Avenue</b> <b>Irvine, CA 92614</b>	Generator's Phone #:
	Person to Contact:
	FAX#: _____ Customer Account Number

Consultant's Name and Billing Address:	Consultant's Phone #:
	Person to Contact:
	FAX#: _____ Customer Account Number

Generation Site (Transport from): (name & address) <b>1206-1338 East 6th St. &amp;</b> <b>1205-1321 Wholesale Street</b> <b>Los Angeles, CA 90021</b>	Site Phone #:
	Person to Contact:
	FAX#: _____

Designated Facility (Transport to): (name & address) <b>Soil Safe</b> <b>12328 Hibiscus Rd.</b> <b>Adelanto, CA 92301-1700</b>	Facility Phone #:
	Person to Contact: <b>(800) 862-8001</b>
	FAX#: <b>Joe Provansal</b> <b>(760) 246-8004</b>

Transporter Name and Mailing Address: <b>American Integrated Services, Inc.</b> <b>P.O. Box 92316</b> <b>Long Beach, CA 90808-2316</b>	Transporter's Phone #:
	Person to Contact: <b>(310) 522-1180</b> <b>CAR000148338</b>
	FAX#: <b>Melynda Borrego</b> <b>(310) 522-0474</b> Customer Account Number <b>7704908</b>

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>	<b>36</b>		<b>11120</b>	<b>52376</b>	<b>1174</b>
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					<b>9.37</b>

List any exception to items listed above: **AIS Project # 37039-22** **B16106** Scale Ticket # **138-778**

Generator's and/or consultant's certification: *I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.*

Print or Type Name:	Generator <input checked="" type="checkbox"/> Consultant <input checked="" type="checkbox"/>	Signature and date:	Month Day Year
<b>Wallace Sconiers (L/A) on behalf of Sixth and Alameda LLC</b>	<b>WRS 11-29-17</b>	<b>Leighton and Associates, Inc.</b>	<b>11/29/17</b>

Transporter's certification: <i>I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.</i>	Signature and date: <b>Jose Hernandez</b> <b>11/29/17</b>
---	---

Recycling Facility Discrepancies: _____ Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:	Signature and date: <b>J. Provansal</b> <b>12-22-17</b>
--	---

APPENDIX E  
GEOSYNTEC CONSULTANTS MEMORANDUM



Leighton

## Memorandum

Date: 17 January 2018

To: Paul Singarella, Esq., Latham & Watkins (Latham)

Copies to: Jeffrey Sofferman, SunCal Management, LLC (SunCal)

From: Mike Reardon, P.E., Geosyntec Consultants (Geosyntec)  
Robert Ettinger, (Geosyntec)

Subject: Soil Vapor Volatile Organic Compound Data Evaluation  
Sixth Street and Alameda Development  
Los Angeles, California

---

### Introduction

This memorandum presents the results of soil vapor sample analyses for volatile organic compounds (VOCs) collected at the Sixth Street and Alameda development site in the City of Los Angeles, California (the Site). This memorandum was prepared by Geosyntec Consultants (Geosyntec) on behalf of SunCal Management, LLC (SunCal) at the direction of Latham and Watkins (Latham).

### Background

SunCal plans to redevelop the Site, comprised of approximately 15 acres (Figure 1) for mixed uses including the construction of seven buildings to support retail, office, hotel, residential and educational uses (Figure 1). Based on information provided by SunCal, each of the seven buildings will include between two and five levels of subterranean parking.

Three environmental assessments assessing the concentrations of VOCs in soil or soil vapor and/or methane in soil vapor have been conducted at the Site.

- In March 2015, six soil borings were drilled at the Site to assess conditions associated with former industrial activities as part of a Phase II investigation (Figure 2). The soil borings were drilled to depths of 20-feet below ground surface (bgs) for the collection of soil samples and soil vapor probes were installed at depths of 5, 10 and 15 feet bgs. Soil vapor samples were analyzed by an on-site mobile laboratory for VOCs. Detected VOCs were limited to

trichlorofluoromethane (Freon-11) and petroleum related chemicals toluene and m/p-xylenes. It was concluded that the detected concentrations of VOCs in soil vapor samples did not pose significant health risks for a residential setting [Leighton, 2015].

- In September 2017, soil vapor samples were collected to assess soil vapor conditions below the depths of the subterranean garages for the proposed development. This assessment included the drilling and installation of 35 multi-depth soil vapor probes (B1-B35) across the Site (Figure 3). At each location, three sampling ports were installed at depths ranging from 43 to 93 ft bgs. The sample depths were based on the proposed development plan in which the sample ports were constructed to represent soil vapor conditions at depths of 5, 10 and 20 feet below the future slab of the parking structure for each of the seven buildings. Samples were collected from each of the probes over a period of several days and the vapor samples were field screened for methane. Results of the field screening indicated low (0.1 to 0.4 percent by volume) concentrations of possible methane at six of the 35 locations (B2, B-3, B-8, B-9, B-21 and B-34). Based on the field screening results, samples were collected from the three soil vapor sampling points at location B-3 for VOC analysis. The analytical results of VOCs detected during this sampling event are summarized in Table 1 and the laboratory report is provided in Attachment A. Several VOCs including bromodichloromethane, carbon tetrachloride, chloroform, dichlorodifluoromethane, cis 1,2-dichloroethene, tetrachloroethene, trichloroethene, Freon-11, and methyl t-butyl ether (MTBE) were detected in these samples. The apparent detection of MTBE without the presence of other petroleum hydrocarbons (e.g., benzene, toluene, ethylbenzene, or xylene) is very unusual and as a result, the analytical results were suspect. Additionally, the low-level detections of carbon tetrachloride reported for these samples is not typically observed in deep soil gas at sites with no historical use of this compound. Consequently, resampling of these probes and additional soil vapor sampling was conducted to further explore the subsurface conditions.
- In November 2017, additional sampling was conducted. During this investigation, samples were collected from each of the depths at six soil vapor probe locations (B-2, B-3, B-8, B-9, B-29 and B-34). These locations were selected based on the field instrument readings from the September 2017 investigation. The November 2017 samples were collected in 1-liter summa canisters and were analyzed by a fixed laboratory for VOCs by EPA Method TO-

15. The analytical results of VOCs detected during this sampling event are summarized in Table 2 and the laboratory report is provided in Attachment A.

As shown in Table 3, the analytical results for some analytes for the November 2017 samples were significantly different from those collected from sample location B-3 in September 2017.

- MTBE was not detected in the second sampling event with fixed laboratory analysis. The laboratory that analyzed the November samples reported "an abundance of non-target analytes" in the sample collected from the location that previously reported the MTBE (B3-84, the deepest sample at location B-3). It is possible that this interference resulted in the anomalous result reported by Jones Environmental for the September 2017 sample.
- Carbon tetrachloride which was detected in each of the September 2017 samples was not detected in any of the November 2017 samples.

Based on these findings, the September 2017 results are considered anomalous and not representative of Site conditions. As such, the September 2017 VOC results are not appropriate for consideration in the site assessment and the data evaluation relied on the November 2017 results.

The environmental assessment of VOCs in soil vapor at the Site shows:

- Limited detections in the shallow soil vapor of Freon-11 and petroleum related chemicals toluene and m/p-xylenes.
- Detections in deep soil vapor of Freon-11 and low levels of other VOCs (generally less than 100  $\mu\text{g}/\text{m}^3$ ).

Collectively, these data do not indicate that the Site is a source of chlorinated solvent VOCs.

### **Vapor Intrusion Pathway Screening Evaluation**

Vapor intrusion considers the potential migration of subsurface VOCs from soil gas to an overlying structure. A screening-level evaluation of the vapor intrusion pathway is conducted by comparing concentrations measured at site to conservative risk-based screening levels. California Department of Toxic Substances Control (DTSC) guidance [DTSC, 2011] was followed in the preparation of this screening evaluation. If Site data

are below conservative screening values, no further evaluation of the vapor intrusion pathway is warranted.

Screening values were calculated for each of the detected VOCs in the November 2017 samples. The screening values are the target indoor air concentrations for residential land use for each of the individual compounds divided by a default attenuation factor for new construction recommended by the California Department of Toxic Substances Control (DTSC).

- Target indoor air concentrations were taken from DTSC guidance [DTSC, 2017] when available. If a DTSC value was not available, United States Environmental Protection Agency (EPA) regional screening levels (RSLs) [EPA, 2017] or a surrogate value was used. Residential indoor air screening levels were used to represent the most sensitive future receptors that may be occupying the Site (e.g. residential and educational uses).
- Given the proposed design of the future buildings with multiple levels of subterranean parking beneath the occupied spaces each of the structures, the DTSC default attenuation factor for commercial buildings [DTSC, 2011] was used as a conservative value in this screening evaluation.

Table 4 includes a statistical summary of the VOC analytical results and the risk-based screening levels calculated following DTSC guidance. As shown on Table 3, none of the detected VOCs in soil vapor exceeded the Site-specific screening values. The screening assessment results conclude that the chemicals detected in the November samples do not indicate a vapor intrusion concern for the proposed development.

## **Summary and Conclusions**

Soil vapor data was collected from the Site as part of three assessments. The first assessment focused on shallow (upper 20 ft) soil and soil vapor quality and the following assessments focused on deeper conditions (43-93 ft). Low levels of VOCs were detected in both the shallow and deeper assessments and these data do not indicate that the Site is a source of chlorinated solvent VOCs. Screening-level vapor intrusion pathway evaluations indicate that these concentrations do not indicate a vapor intrusion concern for the proposed development.

## REFERENCES

DTSC, 2011. Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance). October 2011.

DTSC, 2017. Human and Ecological Risk Office (HERO). Human Health Risk Assessment (HHRA). HERO HHRA Note Number: 3. Updated OEHHA Inhalation Cancer Toxicity Criteria and DTSC Recommended Ambient Air and Soil Gas Screening Levels (DTSC-SLs). August 2017.

Leighton and Associates, Inc (Leighton), 2015, *Focused Soil and Soil Gas Screening Survey Report, 1206-1338 East 6<sup>th</sup> Street and 1205-1321 Wholesale Street, Los Angeles, CA*, 18 March 2015.

United States Environmental Protection Agency (EPA) 2017. Regional Screening Levels for Chemical Contaminants at Superfund Sites. June. URL website <http://www.epa.gov/region9/superfund/prg/index.html>

\* \* \* \* \*

# **TABLES**



Table 1  
 Summary of September 2017 Soil Vapor Analytical Results  
 Sixth Street and Alameda Development  
 Los Angeles, California

Parameter	B3		
	63 ft bgs	68 ft bgs	84 ft bgs
Bromodichloromethane	<b>32</b>	<b>33</b>	<b>66</b>
Carbon tetrachloride	<b>109</b>	<b>102</b>	<b>101</b>
Chloroform	<8	<8	<b>28</b>
Dichlorodifluoromethane	<b>234</b>	<b>246</b>	<b>97</b>
cis-1,2-Dichloroethene	<8	<8	<b>34</b>
Tetrachloroethene	<b>44</b>	<b>44</b>	<8
Trichloroethene	<8	<8	<b>28</b>
Trichlorofluoromethane	<b>1720</b>	<b>1690</b>	<b>1020</b>
MtBE	<40	<40	<b>110000</b>

Notes:

All units in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).

"<": Less than the reporting limit listed.

Samples were collected on September 14, 2017.

Samples analyzed for VOCs by EPA Method 8260B.

Table 1 includes only detected VOCs.



Table 3  
 Comparison of Soil Vapor Results  
 6th and Alameda Development Project  
 Los Angeles, California

Parameter	B3					
	63 ft bgs		68 ft bgs		84 ft bgs	
	Sept	Nov	Sept	Nov	Sept	Nov
Bromodichloromethane	<b>32</b>	<17	<b>33</b>	<4.5	<b>66</b>	<44
Carbon tetrachloride	<b>109</b>	<41	<b>102</b>	<11	<b>101</b>	<110
Chloroform	<8	<12	<8	<b>4.1</b>	<b>28</b>	<32
Dichlorodifluoromethane	<b>234</b>	<b>36</b>	<b>246</b>	<b>89</b>	<b>97</b>	<44
cis-1,2-Dichloroethene	<8	<13	<8	<3.5	<b>34</b>	<b>97</b>
Tetrachloroethene	<b>44</b>	<b>46</b>	<b>44</b>	<b>48</b>	<8	<60
Trichloroethene	<8	<18	<8	<4.8	<b>28</b>	<48
Trichlorofluoromethane	<b>1720</b>	<b>2800</b>	<b>1690</b>	<b>710</b>	<b>1020</b>	<50
MtBE	<40	<24	<40	<6.4	<b>110000</b>	<64

Notes:

Includes VOCs detected in September 2017 samples.

Concentrations in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).

"<": Less than reporting limit listed for non-detect results

Table 4  
Soil Vapor Data Screening  
Sixth Street and Alameda Development  
Los Angeles, California

Parameter	Number of Samples	Number of Detects	FOD (%)	Minimum Detected Value	Average Detected Value	Maximum Detected Value	Location of Maximum Detected Value	Residential Soil Vapor Screening Value
1,1,1-Trichloroethane	20	11	55	1.6	6.33	11	B2-58'	2000000
1,1,2,2-Tetrachloroethane	20	1	5	8.3	8.30	8.3	B34-43'	96
1,1,2-Trichloro-1,2,2-trifluoroethane	20	7	35	4.9	19.20	55	B2-73'	10400000
1,1,2-Trichloroethane	20	2	10	2.8	4.55	6.3	B34-43'	360
1,1-Dichloroethane	20	2	10	2.3	4.60	6.9	B34-43'	3600
1,2-Dichloro-1,1,2,2-tetrafluoroethane	20	4	20	3.6	15.15	27	B3-68'	-
1,2-Dichlorobenzene	20	1	5	7	7.00	7	B34-43'	420000
1,2-Dichloropropane	20	2	10	2.9	4.65	6.4	B34-43'	1520
1,3,5-Trimethylbenzene	20	1	5	5.7	5.70	5.7	B34-43'	126000
1,3-Dichlorobenzene	20	1	5	6.6	6.60	6.6	B34-43'	260000
1,4-Dichlorobenzene	20	1	5	7.5	7.50	7.5	B34-43'	520
2-Butanone (MEK)	20	5	25	3.7	8.10	17	B8-43'	10400000
2-Hexanone	20	1	5	4.6	4.60	4.6	B34-43'	62000
4-Ethyltoluene	20	1	5	5.7	5.70	5.7	B34-43'	-
4-Methyl-2-pentanone (MIBK)	20	2	10	1.7	4.10	6.5	B34-43'	6200000
Acetone	20	9	45	13	44.11	110	B8-43'	64000000
Benzene	20	7	35	1.5	9.33	25	B8-48'	194
Bromodichloromethane	20	2	10	4.2	6.90	9.6	B34-43'	152
Bromoform	20	1	5	11	11.00	11	B34-43'	5200
Bromomethane	20	1	5	6.8	6.80	6.8	B34-43'	10400
Carbon disulfide	20	11	55	6.6	74.78	580	B34-43'	1460000
Chlorobenzene	20	1	5	5.6	5.60	5.6	B34-43'	104000
Chloroethane	20	1	5	5.8	5.80	5.8	B34-43'	-
Chloroform	20	6	30	2.2	4.37	8.4	B34-43'	240
Chloromethane	20	3	15	3.1	4.13	5	B34-43'	188000
cis-1,2-Dichloroethene	20	3	15	2.2	35.13	97	B3-84'	16600
cis-1,3-Dichloropropene	20	2	10	2	4.30	6.6	B34-43'	1400
Dibromochloromethane	20	2	10	4	6.70	9.4	B34-43'	-
Dichlorodifluoromethane	20	8	40	2	31.78	89	B3-68'	200000
Ethylbenzene	20	3	15	2.8	4.40	6.1	B34-43'	2200
m,p-Xylene	20	4	20	5.2	8.75	13	B34-43'	200000
Methylene Chloride	20	10	50	1.4	12.38	44	B8-43'	2000
							B8-48'	
o-Xylene	20	3	15	1.9	3.20	5.8	B34-43'	200000
Styrene	20	1	5	4.7	4.70	4.7	B34-43'	1880000
Tetrachloroethene	20	14	70	14	78.07	190	B34-43'	920
							B34-58'	
Toluene	20	11	55	1.8	8.05	32	B8-48'	620000
trans-1,2-Dichloroethene	20	2	10	2.1	4.30	6.5	B34-43'	166000
trans-1,3-Dichloropropene	20	2	10	2	3.70	5.4	B34-43'	1400
Trichloroethene	20	2	10	2.7	5.25	7.8	B34-43'	960
Trichlorofluoromethane	20	19	95	26	2366.05	10000	B29-58'-D	2600000
Vinyl chloride	20	2	10	1.8	3.60	5.4	B34-43'	19

Notes:

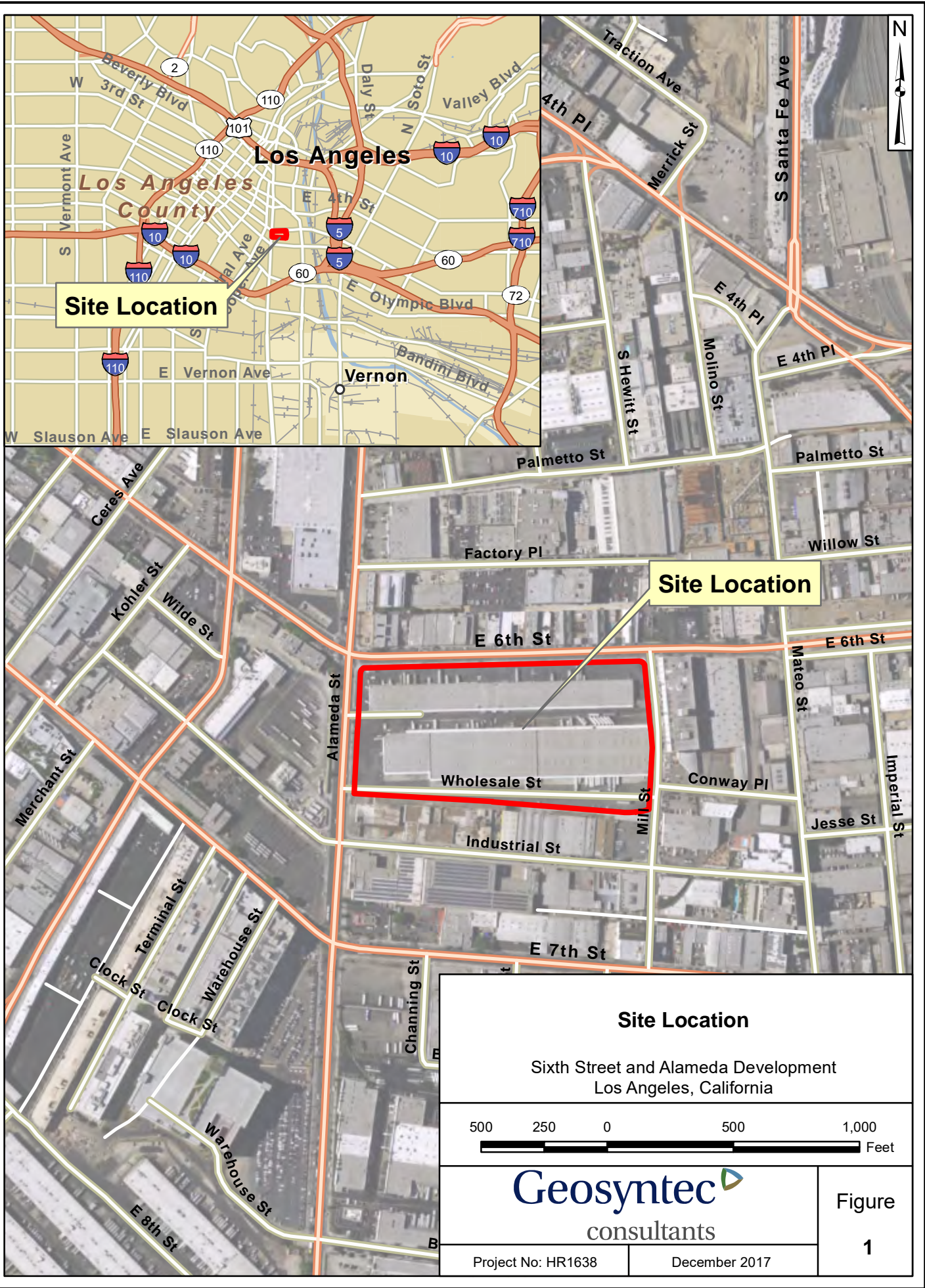
"-": Parameter does not have a screening level.

All units in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).

"FOD": Frequency of Detection.

Sample set includes duplicates.

## **FIGURES**



**Site Location**

**Site Location**

**Site Location**

Sixth Street and Alameda Development  
Los Angeles, California



**Geosyntec**  
consultants

Figure  
**1**

Project No: HR1638

December 2017



- Legend
- Approximate Site Boundary
  - Historical Usage Area
  - + Soil/Soil Gas Location

Map Data Source:  
 FOCUSED SOIL AND SOIL GAS SCREENING  
 SURVEY REPORT, 1206-1338 EAST 6th STREET AND 1205-1321  
 WHOLESALE STREET  
 Leighton and Associates, Inc., 18 March 2015

**Phase II Investigation Boring Locations**

Sixth Street and Alameda Development  
 Los Angeles, California

100 50 0 100 Feet

**Geosyntec**  
 consultants

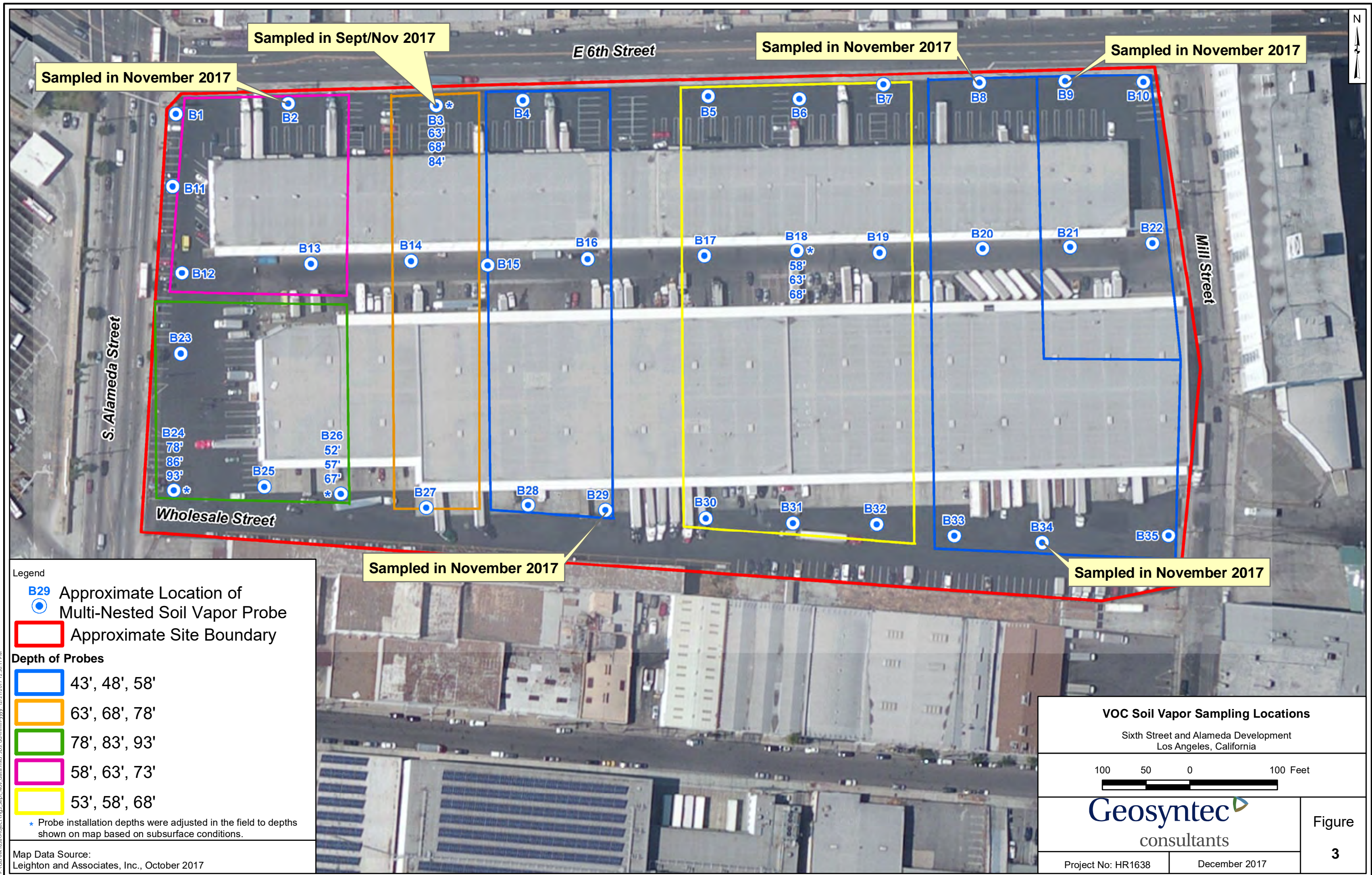
Figure

2

Project No: HR1638

December 2017

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Legend

- B29 Approximate Location of Multi-Nested Soil Vapor Probe
- Approximate Site Boundary

Depth of Probes

- 43', 48', 58'
- 63', 68', 78'
- 78', 83', 93'
- 58', 63', 73'
- 53', 58', 68'

\* Probe installation depths were adjusted in the field to depths shown on map based on subsurface conditions.

Map Data Source:  
Leighton and Associates, Inc., October 2017

<b>VOC Soil Vapor Sampling Locations</b>	
Sixth Street and Alameda Development Los Angeles, California	
<div style="display: flex; justify-content: space-between; width: 100%;"> <span>100</span> <span>50</span> <span>0</span> <span>100 Feet</span> </div>	
Project No: HR1638	December 2017
<b>Figure 3</b>	

P:\GIS\HR1638\Project\Map\_Sep17\_Nov\_data.mxd \_DSE.dwg 11/21/2017 12:30:11 PM



**ATTACHMENT A**

**LABORATORY DATA**



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

<b>Client:</b>	Leighton & Associates	<b>Report date:</b>	9/14/2017
<b>Client Address:</b>	17781 Cowan Irvine, CA 92614	<b>JEL Ref. No.:</b>	ST-11184
		<b>Client Ref. No.:</b>	11723.001
<b>Attn:</b>	Robin Ferber	<b>Date Sampled:</b>	9/14/2017
		<b>Date Received:</b>	9/14/2017
<b>Project Name:</b>	6th & Alameda Methane Gas Survey	<b>Date Analyzed:</b>	9/14/2017
<b>Project Address:</b>	6th & Alameda Los Angeles, CA	<b>Physical State:</b>	Soil Gas

---

**ANALYSES REQUESTED**

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Analytical – Soil Gas samples were analyzed using EPA Method 8260B that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. All samples were injected into the GC/MS system within 6 hours of sampling.

2. ASTM D1946 – Methane

Analytical – Soil Gas samples were analyzed using ASTM D1946 by GC/TCD. All samples were injected into the GC/MS system within 6 hours of sampling.

**Approval:**

Carolyn Carroll  
Stationary Lab Manager



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### JONES ENVIRONMENTAL LABORATORY RESULTS

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
Irvine, CA 92614

**Report date:** 9/14/2017  
**JEL Ref. No.:** ST-11184  
**Client Ref. No.:** 11723.001

**Attn:** Robin Ferber  
**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
Los Angeles, CA

**Date Sampled:** 9/14/2017  
**Date Received:** 9/14/2017  
**Date Analyzed:** 9/14/2017  
**Physical State:** Soil Gas

#### EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	B3-63'	B3-68'	B3-84'		
<u>JEL ID:</u>	ST-11184-01	ST-11184-02	ST-11184-03	<u>Practical</u>	<u>Units</u>
<u>Analytes:</u>				<u>Quantitation</u>	
				<u>Limit</u>	
Benzene	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	0.008	µg/L
Bromodichloromethane	<b>0.032</b>	<b>0.033</b>	<b>0.066</b>	0.008	µg/L
Bromoform	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	<b>0.109</b>	<b>0.102</b>	<b>0.101</b>	0.008	µg/L
Chlorobenzene	ND	ND	ND	0.008	µg/L
Chloroform	ND	ND	<b>0.028</b>	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	<b>0.234</b>	<b>0.246</b>	<b>0.097</b>	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	<b>0.034</b>	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	0.008	µg/L

## JONES ENVIRONMENTAL LABORATORY RESULTS

### EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	B3-63'	B3-68'	B3-84'		
<u>JEL ID:</u>	ST-11184-01	ST-11184-02	ST-11184-03	<u>Practical</u>	<u>Units</u>
<u>Analytes:</u>				<u>Quantitation</u>	
				<u>Limit</u>	
cis-1,3-Dichloropropene	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	0.040	µg/L
n-Propylbenzene	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	<b>0.044</b>	<b>0.044</b>	ND	0.008	µg/L
Toluene	ND	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	0.040	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	0.008	µg/L
Trichloroethylene	ND	ND	<b>0.028</b>	0.008	µg/L
Trichlorofluoromethane	<b>1.72</b>	<b>1.69</b>	<b>1.02</b>	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	0.008	µg/L
m,p-Xylene	ND	ND	ND	0.008	µg/L
o-Xylene	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	<b>110*</b>	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	0.400	µg/L
<u>Dilution Factor</u>	1	1	1/20*		
<u>Surrogate Recoveries:</u>				<u>QC Limits</u>	
Dibromofluoromethane	129%	130%	121%	60 - 140	
Toluene-d <sub>8</sub>	111%	110%	110%	60 - 140	
4-Bromofluorobenzene	111%	110%	115%	60 - 140	

VOC4-091417-    VOC4-091417-    VOC4-091417-  
CHECKS            CHECKS            CHECKS

ND= Not Detected

\* = Dilutions for these compound(s); first number for all others



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### JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

<b>Client:</b>	Leighton & Associates	<b>Report date:</b>	9/14/2017
<b>Client Address:</b>	17781 Cowan Irvine, CA 92614	<b>JEL Ref. No.:</b>	ST-11184
		<b>Client Ref. No.:</b>	11723.001
<b>Attn:</b>	Robin Ferber	<b>Date Sampled:</b>	9/14/2017
		<b>Date Received:</b>	9/14/2017
<b>Project:</b>	6th & Alameda Methane Gas Survey	<b>Date Analyzed:</b>	9/14/2017
<b>Project Address:</b>	6th & Alameda Los Angeles, CA	<b>Physical State:</b>	Soil Gas

#### EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	<b>METHOD</b>	<b>SAMPLING</b>		
	<b>BLANK</b>	<b>BLANK</b>		
	<b>091417- V4MB1</b>	<b>091417- V4SB1</b>	<u>Practical</u>	<u>Units</u>
			<u>Quantitation</u>	
			<u>Limit</u>	
<b>Analytes:</b>				
Benzene	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	0.008	µg/L
Bromoform	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	0.008	µg/L
Chloroform	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	0.008	µg/L

**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

**EPA 8260B – Volatile Organics by GC/MS + Oxygenates**

<u>Sample ID:</u>	<b>METHOD</b>	<b>SAMPLING</b>		
	<b>BLANK</b>	<b>BLANK</b>		
<u>JEL ID:</u>	<b>091417- V4MB1</b>	<b>091417- V4SB1</b>	<u>Practical Quantitation</u>	<u>Units</u>
<b>Analytes:</b>			<u>Limit</u>	
cis-1,3-Dichloropropene	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	0.008	µg/L
Freon 113	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	0.008	µg/L
Naphthalene	ND	ND	0.040	µg/L
n-Propylbenzene	ND	ND	0.008	µg/L
Styrene	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	0.008	µg/L
Tetrachloroethylene	ND	ND	0.008	µg/L
Toluene	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	0.040	µg/L
1,2,4-Trichlorobenzene	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	0.008	µg/L
Trichloroethylene	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	0.008	µg/L
m,p-Xylene	ND	ND	0.008	µg/L
o-Xylene	ND	ND	0.008	µg/L
MTBE	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	0.400	µg/L
<u>Dilution Factor</u>	1	1		
<u>Surrogate Recoveries:</u>			<u>QC Limits</u>	
Dibromofluoromethane	128%	125%	60 - 140	
Toluene-d <sub>8</sub>	110%	108%	60 - 140	
4-Bromofluorobenzene	113%	110%	60 - 140	

VOC4-091417-    VOC4-091417-  
CHECKS            CHECKS

ND= Not Detected



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	Leighton & Associates	<b>Report date:</b>	9/14/2017
<b>Client Address:</b>	17781 Cowan Irvine, CA 92614	<b>JEL Ref. No.:</b>	ST-11184
		<b>Client Ref. No.:</b>	11723.001
<b>Attn:</b>	Robin Ferber	<b>Date Sampled:</b>	9/14/2017
		<b>Date Received:</b>	9/14/2017
<b>Project:</b>	6th & Alameda Methane Gas Survey	<b>Date Analyzed:</b>	9/14/2017
<b>Project Address:</b>	6th & Alameda Los Angeles, CA	<b>Physical State:</b>	Soil Gas

**EPA 8260B – Volatile Organics by GC/MS + Oxygenates**

**Batch ID:** VOC4-091417-CHECKS

**JEL ID:**                    **091417-V4LCS1**      **091417-V4LCSD1**                    **091417-V4CCV1**

<u>Parameter</u>	LCS Recovery (%)	LCSD Recovery (%)	<u>RPD</u>	Acceptability Range (%)	<u>CCV</u>	Acceptability Range (%)
Vinyl Chloride	97%	98%	1.2%	70 - 130	84%	80 - 120
1,1-Dichloroethylene	72%	73%	1.3%	70 - 130	93%	80 - 120
Cis-1,2-Dichloroethene	104%	100%	3.3%	70 - 130	86%	80 - 120
1,1,1-Trichloroethane	117%	120%	2.3%	70 - 130	128%	80 - 120
Benzene	102%	102%	0.3%	70 - 130	113%	80 - 120
Trichloroethylene	97%	97%	0.4%	70 - 130	107%	80 - 120
Toluene	115%	117%	2.2%	70 - 130	105%	80 - 120
Tetrachloroethene	92%	91%	1.4%	70 - 130	108%	80 - 120
Chlorobenzene	105%	102%	2.7%	70 - 130	111%	80 - 120
Ethylbenzene	93%	91%	2.1%	70 - 130	100%	80 - 120
1,2,4 Trimethylbenzene	91%	88%	2.5%	70 - 130	94%	80 - 120
<b><u>Surrogate Recovery:</u></b>						
Dibromofluoromethane	122%	114%		60 - 140	125%	60 - 140
Toluene-d <sub>8</sub>	109%	106%		60 - 140	109%	60 - 140
4-Bromofluorobenzene	116%	109%		60 - 140	103%	60 - 140

LCS = Laboratory Control Sample  
 LCSD = Laboratory Control Sample Duplicate  
 CCV = Continuing Calibration Verification  
 RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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 562-646-1611  
 805-399-0060

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**JONES ENVIRONMENTAL  
 LABORATORY RESULTS**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
 Irvine, CA 92614

**Report date:** 9/14/2017  
**JEL Ref. No.:** ST-11184  
**Client Ref. No.:** 11723.001

**Attn:** Robin Ferber

**Date Sampled:** 9/14/2017  
**Date Received:** 9/14/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
 Los Angeles, CA

**Date Analyzed:** 9/14/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

<u>Sample ID:</u>	<b>B3-63'</b>	<b>B3-68'</b>	<b>B3-84'</b>		
<u>JEL ID:</u>	ST-11184-01	ST-11184-02	ST-11184-03		<u>Practical Quantitation Limit</u>
					<u>Units</u>
Methane (CH <sub>4</sub> )	ND	ND	ND	0.01	%
<u>Dilution Factor</u>	1	1	1		
	ASTM- 170914_01	ASTM- 170914_01	ASTM- 170914_01		

ND = Not Detected





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**JONES ENVIRONMENTAL  
 LABORATORY RESULTS**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
 Irvine, CA 92614

**Report date:** 9/14/2017  
**JEL Ref. No.:** ST-11184  
**Client Ref. No.:** 11723.001

**Attn:** Robin Ferber

**Date Sampled:** 9/14/2017  
**Date Received:** 9/14/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
 Los Angeles, CA

**Date Analyzed:** 9/14/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

**Sample ID:** Ambient Air

**JEL ID:** AA-170914\_01

Methane (CH<sub>4</sub>)

ND

<u>Practical Quantitation Limit</u>	<u>Units</u>
---	--------------

0.01

%

**Dilution Factor** 1

ASTM-170914\_01

ND = Not Detected



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**JONES ENVIRONMENTAL  
 QUALITY CONTROL INFORMATION**

**Client:** Leighton & Associates  
**Client Address:** 17781 Cowan  
 Irvine, CA 92614

**Report date:** 9/14/2017  
**JEL Ref. No.:** ST-11184  
**Client Ref. No.:** 11723.001

**Attn:** Robin Ferber

**Date Sampled:** 9/14/2017  
**Date Received:** 9/14/2017

**Project:** 6th & Alameda Methane Gas Survey  
**Project Address:** 6th & Alameda  
 Los Angeles, CA

**Date Analyzed:** 9/14/2017  
**Physical State:** Soil Gas

**ASTM D1946 – Methane**

**GC#:** ASTM-170914\_01

**JEL ID:**                    **CCV-170914\_01**    **CCV2-170914\_01**

<u>Parameter</u>	CCV Recovery (%)	CCV 2 Recovery (%)	<u>RPD</u>	Acceptability Range (%)
Methane (CH <sub>4</sub> )	94%	94%	0.2%	60 - 140

LCS = Lab Control Sample  
 LCSD = Lab Control Sample Duplicate  
 RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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# Chain-of-Custody Record

<b>Client</b> Leighton + Associates	<b>Date</b> 9-14-17	<b>SOIL GAS</b> Purge Number: <input type="checkbox"/> 1P <input checked="" type="checkbox"/> 3P <input type="checkbox"/> 7P <input type="checkbox"/> 10P Purge Rate: 2000 cc/min Shut in Test <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N Tracer: <input type="checkbox"/> n-propanol <input type="checkbox"/> n-pentane <input type="checkbox"/> 1,1-DFA <input type="checkbox"/> Helium <input type="checkbox"/> _____	<b>JEL Project #</b> ST-11184
<b>Project Name</b> 6th + Alameda Methane Gas Survey	<b>Client Project #</b> 11723.001	Analysis Requested Sample Matrix: Soil (S) _____ Sludge (SL) _____ Aqueous (A) _____ Soil Gas (SG) _____ Methane _____ VOCs (all) (sf) (Comm RL) _____ Magnetetic Vacuum (In/H <sub>2</sub> O) _____ Number of Containers _____	<b>Page</b> 1 of 1
<b>Project Address</b> 6th + Alameda, Los Angeles, CA	<b>Turn Around Requested:</b> <input type="checkbox"/> Immediate Attention <input type="checkbox"/> Rush 24-48 Hours <input type="checkbox"/> Rush 72-96 Hours <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Mobile Lab		<b>Lab Use Only</b> Sample Condition as Received: Chilled <input type="checkbox"/> yes <input type="checkbox"/> no Sealed <input type="checkbox"/> yes <input type="checkbox"/> no
<b>Project Contact</b> Robin Ferber - rferber@leightongroup.com			

Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	SG	Met	VOCs	Mag	Num	Remarks/Special Instructions
B3-63'	3	5.96 5.69	9-14-17	14:55		ST-11184-01	X	X			2	Tedlarbags
B3-68'	3	6.00	"	15:12		ST-11184-02	X	X			2	"
B3-84'	3	6.13	"	15:47		ST-11184-03	X	X			2	"

<b>1</b> Relinquished by (signature) <i>[Signature]</i>	<b>Date</b> 9-14-17	<b>2</b> Received by (signature) <i>[Signature]</i> MARTIN YOUNG	<b>Date</b> 9/14/17	<b>Total Number of Containers</b> 6
<b>Company</b> Leighton + Associates	<b>Time</b> 15:50	<b>Company</b> JONES	<b>Time</b> 1550	
<b>3</b> Relinquished by (signature) <i>[Signature]</i>	<b>Date</b> 9/14	<b>4</b> Received by Laboratory (signature) <i>[Signature]</i>	<b>Date</b> 9/14	The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.
<b>Company</b> JONES	<b>Time</b> 1657	<b>Company</b> Jones Env.	<b>Time</b> 1657	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Tel: (916)373-5600

TestAmerica Job ID: 320-33413-1  
Client Project/Site: 6AM Soil Gas Survey  
Revision: 1

For:  
Leighton Group  
26074 Avenue Hall  
Suite 21  
Santa Clarita, California 91355

Attn: Wallace Sconiers



Authorized for release by:  
12/7/2017 9:15:42 AM  
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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



### LINKS

Review your project  
results through  
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# Definitions/Glossary

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Qualifiers

### Air - GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survery

TestAmerica Job ID: 320-33413-1

---

**Job ID: 320-33413-1**

---

**Laboratory: TestAmerica Sacramento**

## Narrative

---

### Job Narrative 320-33413-1

#### Receipt

The samples were received on 11/17/2017 11:20 AM; the samples arrived in good condition.

#### Air - GC/MS VOA

Method(s) TO-15: The continuing calibration verification (CCV) associated with batch 196652 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Method(s) TO-15: The following sample was diluted due to the abundance of non-target analytes: B3-84' (320-33413-15). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Client Sample ID: B29-43'

## Lab Sample ID: 320-33413-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	60		59		ug/m3	21.9		TO-15	Total/NA
Trichlorofluoromethane	8800		49		ug/m3	21.9		TO-15	Total/NA

## Client Sample ID: B29-48'

## Lab Sample ID: 320-33413-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	7100		42		ug/m3	18.9		TO-15	Total/NA

## Client Sample ID: B29-58'

## Lab Sample ID: 320-33413-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	9900		51		ug/m3	22.8		TO-15	Total/NA

## Client Sample ID: B29-58'-D

## Lab Sample ID: 320-33413-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	10000		58		ug/m3	25.9		TO-15	Total/NA

## Client Sample ID: B8-58'

## Lab Sample ID: 320-33413-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.2		1.4		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	28		2.7		ug/m3	1		TO-15	Total/NA
Toluene	2.2		1.5		ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	6.6		1.6		ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	38		2.2		ug/m3	1		TO-15	Total/NA

## Client Sample ID: B2-58'

## Lab Sample ID: 320-33413-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	38		16		ug/m3	6.58		TO-15	Total/NA
Dichlorodifluoromethane	22		13		ug/m3	6.58		TO-15	Total/NA
Tetrachloroethene	82		18		ug/m3	6.58		TO-15	Total/NA
1,1,1-Trichloroethane	11		11		ug/m3	6.58		TO-15	Total/NA
Trichlorofluoromethane	2300		15		ug/m3	6.58		TO-15	Total/NA

## Client Sample ID: B2-63'

## Lab Sample ID: 320-33413-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15		12		ug/m3	1		TO-15	Total/NA
Benzene	1.5		1.3		ug/m3	1		TO-15	Total/NA
Carbon disulfide	9.0		2.5		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	15		2.0		ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.5		1.4		ug/m3	1		TO-15	Total/NA
m,p-Xylene	5.2		3.5		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	76		2.7		ug/m3	1		TO-15	Total/NA
Toluene	12		1.5		ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	9.9		1.6		ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane - DL	2100		13		ug/m3	5.97		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento



# Detection Summary

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Client Sample ID: B2-73'

## Lab Sample ID: 320-33413-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	77		4.8		ug/m3	2.44		TO-15	Total/NA
1,2-Dichloro-1,1,2,2-tetrafluoroethane	18		6.8		ug/m3	2.44		TO-15	Total/NA
Trichlorofluoromethane	720		5.5		ug/m3	2.44		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	55		7.5		ug/m3	2.44		TO-15	Total/NA

## Client Sample ID: B34-43'

## Lab Sample ID: 320-33413-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	52		26		ug/m3	2.18		TO-15	Total/NA
Benzene	6.1		2.8		ug/m3	2.18		TO-15	Total/NA
Bromodichloromethane	9.6		4.4		ug/m3	2.18		TO-15	Total/NA
Bromoform	11		9.0		ug/m3	2.18		TO-15	Total/NA
Bromomethane	6.8		6.8		ug/m3	2.18		TO-15	Total/NA
2-Butanone (MEK)	9.7		5.1		ug/m3	2.18		TO-15	Total/NA
Carbon disulfide	580		5.4		ug/m3	2.18		TO-15	Total/NA
Chlorobenzene	5.6		3.0		ug/m3	2.18		TO-15	Total/NA
Chloroethane	5.8		4.6		ug/m3	2.18		TO-15	Total/NA
Chloroform	8.4		3.2		ug/m3	2.18		TO-15	Total/NA
Chloromethane	5.0		3.6		ug/m3	2.18		TO-15	Total/NA
cis-1,2-Dichloroethene	6.2		3.5		ug/m3	2.18		TO-15	Total/NA
cis-1,3-Dichloropropene	6.6		4.0		ug/m3	2.18		TO-15	Total/NA
Dibromochloromethane	9.4		7.4		ug/m3	2.18		TO-15	Total/NA
1,2-Dichlorobenzene	7.0		5.2		ug/m3	2.18		TO-15	Total/NA
1,3-Dichlorobenzene	6.6		5.2		ug/m3	2.18		TO-15	Total/NA
1,4-Dichlorobenzene	7.5		5.2		ug/m3	2.18		TO-15	Total/NA
Dichlorodifluoromethane	8.9		4.3		ug/m3	2.18		TO-15	Total/NA
1,1-Dichloroethane	6.9		2.6		ug/m3	2.18		TO-15	Total/NA
1,2-Dichloropropane	6.4		4.0		ug/m3	2.18		TO-15	Total/NA
1,2-Dichloro-1,1,2,2-tetrafluoroethane	12		6.1		ug/m3	2.18		TO-15	Total/NA
Ethylbenzene	6.1		3.8		ug/m3	2.18		TO-15	Total/NA
4-Ethyltoluene	5.7		4.3		ug/m3	2.18		TO-15	Total/NA
2-Hexanone	4.6		3.6		ug/m3	2.18		TO-15	Total/NA
Methylene Chloride	8.0		3.0		ug/m3	2.18		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	6.5		3.6		ug/m3	2.18		TO-15	Total/NA
m,p-Xylene	13		7.6		ug/m3	2.18		TO-15	Total/NA
o-Xylene	5.8		3.8		ug/m3	2.18		TO-15	Total/NA
Styrene	4.7		3.7		ug/m3	2.18		TO-15	Total/NA
1,1,2,2-Tetrachloroethane	8.3		6.0		ug/m3	2.18		TO-15	Total/NA
Tetrachloroethene	190		5.9		ug/m3	2.18		TO-15	Total/NA
Toluene	8.3		3.3		ug/m3	2.18		TO-15	Total/NA
trans-1,2-Dichloroethene	6.5		3.5		ug/m3	2.18		TO-15	Total/NA
trans-1,3-Dichloropropene	5.4		4.0		ug/m3	2.18		TO-15	Total/NA
1,1,1-Trichloroethane	10		3.6		ug/m3	2.18		TO-15	Total/NA
1,1,2-Trichloroethane	6.3		4.8		ug/m3	2.18		TO-15	Total/NA
Trichloroethene	7.8		4.7		ug/m3	2.18		TO-15	Total/NA
Trichlorofluoromethane	110		4.9		ug/m3	2.18		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	14		6.7		ug/m3	2.18		TO-15	Total/NA
1,3,5-Trimethylbenzene	5.7		4.3		ug/m3	2.18		TO-15	Total/NA
Vinyl chloride	5.4		2.2		ug/m3	2.18		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

# Detection Summary

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Client Sample ID: B34-48'

## Lab Sample ID: 320-33413-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	62		12		ug/m3	1		TO-15	Total/NA
Benzene	13		1.3		ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	3.8		2.4		ug/m3	1		TO-15	Total/NA
Carbon disulfide	37		2.5		ug/m3	1		TO-15	Total/NA
Chloroform	2.2		1.5		ug/m3	1		TO-15	Total/NA
Ethylbenzene	4.3		1.7		ug/m3	1		TO-15	Total/NA
Methylene Chloride	15		1.4		ug/m3	1		TO-15	Total/NA
m,p-Xylene	11		3.5		ug/m3	1		TO-15	Total/NA
o-Xylene	1.9		1.7		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	140		2.7		ug/m3	1		TO-15	Total/NA
Toluene	11		1.5		ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	1.6		1.6		ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	85		2.2		ug/m3	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	6.0		3.1		ug/m3	1		TO-15	Total/NA

## Client Sample ID: B34-58'

## Lab Sample ID: 320-33413-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	17		12		ug/m3	1		TO-15	Total/NA
Benzene	3.1		1.3		ug/m3	1		TO-15	Total/NA
Carbon disulfide	23		2.5		ug/m3	1		TO-15	Total/NA
Chloromethane	3.1		1.7		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	190		2.7		ug/m3	1		TO-15	Total/NA
Toluene	3.6		1.5		ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	94		2.2		ug/m3	1		TO-15	Total/NA

## Client Sample ID: B8-43'

## Lab Sample ID: 320-33413-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	110		12		ug/m3	1		TO-15	Total/NA
Benzene	14		1.3		ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	17		2.4		ug/m3	1		TO-15	Total/NA
Carbon disulfide	26		2.5		ug/m3	1		TO-15	Total/NA
Methylene Chloride	44		1.4		ug/m3	1		TO-15	Total/NA
Toluene	1.8		1.5		ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	4.6		1.6		ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	31		2.2		ug/m3	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	9.8		3.1		ug/m3	1		TO-15	Total/NA

## Client Sample ID: B3-63'

## Lab Sample ID: 320-33413-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	36		16		ug/m3	8.24		TO-15	Total/NA
Tetrachloroethene	46		22		ug/m3	8.24		TO-15	Total/NA
Trichlorofluoromethane	2800		19		ug/m3	8.24		TO-15	Total/NA

## Client Sample ID: B3-68'

## Lab Sample ID: 320-33413-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	4.1		3.3		ug/m3	2.22		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

# Detection Summary

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Client Sample ID: B3-68' (Continued)

## Lab Sample ID: 320-33413-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	89		4.4		ug/m3	2.22		TO-15	Total/NA
1,2-Dichloro-1,1,2,2-tetrafluoroethane	27		6.2		ug/m3	2.22		TO-15	Total/NA
Tetrachloroethene	48		6.0		ug/m3	2.22		TO-15	Total/NA
Trichlorofluoromethane	710		5.0		ug/m3	2.22		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	36		6.8		ug/m3	2.22		TO-15	Total/NA

## Client Sample ID: B3-84'

## Lab Sample ID: 320-33413-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	97		35		ug/m3	22.1		TO-15	Total/NA

## Client Sample ID: B8-48'

## Lab Sample ID: 320-33413-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	90		12		ug/m3	1		TO-15	Total/NA
Benzene	25		1.3		ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	6.3		2.4		ug/m3	1		TO-15	Total/NA
Carbon disulfide	24		2.5		ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.8		1.7		ug/m3	1		TO-15	Total/NA
Methylene Chloride	44		1.4		ug/m3	1		TO-15	Total/NA
m,p-Xylene	5.8		3.5		ug/m3	1		TO-15	Total/NA
o-Xylene	1.9		1.7		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	14		2.7		ug/m3	1		TO-15	Total/NA
Toluene	32		1.5		ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	4.5		1.6		ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	28		2.2		ug/m3	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	8.7		3.1		ug/m3	1		TO-15	Total/NA

## Client Sample ID: B9-43'

## Lab Sample ID: 320-33413-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	15		2.5		ug/m3	1		TO-15	Total/NA
Chloroform	2.8		1.5		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.0		2.0		ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.5		1.4		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	60		2.7		ug/m3	1		TO-15	Total/NA
Toluene	4.4		1.5		ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	5.1		1.6		ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	37		2.2		ug/m3	1		TO-15	Total/NA

## Client Sample ID: B9-43'-D

## Lab Sample ID: 320-33413-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13		12		ug/m3	1		TO-15	Total/NA
Carbon disulfide	41		2.5		ug/m3	1		TO-15	Total/NA
Chloroform	3.0		1.5		ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.4		1.4		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	63		2.7		ug/m3	1		TO-15	Total/NA
Toluene	4.3		1.5		ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	5.4		1.6		ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

# Detection Summary

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Client Sample ID: B9-43'-D (Continued)

## Lab Sample ID: 320-33413-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	38		2.2		ug/m3	1		TO-15	Total/NA

## Client Sample ID: B9-48'

## Lab Sample ID: 320-33413-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	19		12		ug/m3	1		TO-15	Total/NA
Carbon disulfide	23		2.5		ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.7		1.4		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	48		2.7		ug/m3	1		TO-15	Total/NA
Toluene	3.9		1.5		ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	5.3		1.6		ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	38		2.2		ug/m3	1		TO-15	Total/NA

## Client Sample ID: B9-58'

## Lab Sample ID: 320-33413-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	19		12		ug/m3	1		TO-15	Total/NA
Benzene	2.6		1.3		ug/m3	1		TO-15	Total/NA
Bromodichloromethane	4.2		2.0		ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	3.7		2.4		ug/m3	1		TO-15	Total/NA
Carbon disulfide	6.6		2.5		ug/m3	1		TO-15	Total/NA
Chloroform	5.7		1.5		ug/m3	1		TO-15	Total/NA
Chloromethane	4.3		1.7		ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	2.2		1.6		ug/m3	1		TO-15	Total/NA
cis-1,3-Dichloropropene	2.0		1.8		ug/m3	1		TO-15	Total/NA
Dibromochloromethane	4.0		3.4		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	4.3		2.0		ug/m3	1		TO-15	Total/NA
1,1-Dichloroethane	2.3		1.2		ug/m3	1		TO-15	Total/NA
1,2-Dichloropropane	2.9		1.8		ug/m3	1		TO-15	Total/NA
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.6		2.8		ug/m3	1		TO-15	Total/NA
Methylene Chloride	4.5		1.4		ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.7		1.6		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	48		2.7		ug/m3	1		TO-15	Total/NA
Toluene	5.1		1.5		ug/m3	1		TO-15	Total/NA
trans-1,2-Dichloroethene	2.1		1.6		ug/m3	1		TO-15	Total/NA
trans-1,3-Dichloropropene	2.0		1.8		ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	5.6		1.6		ug/m3	1		TO-15	Total/NA
1,1,2-Trichloroethane	2.8		2.2		ug/m3	1		TO-15	Total/NA
Trichloroethene	2.7		2.1		ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	26		2.2		ug/m3	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	4.9		3.1		ug/m3	1		TO-15	Total/NA
Vinyl chloride	1.8		1.0		ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B29-43'**

**Date Collected: 11/09/17 16:15**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Lab Sample ID: 320-33413-1**

**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		260		ug/m3			11/24/17 16:11	21.9
Benzene	ND		28		ug/m3			11/24/17 16:11	21.9
Benzyl chloride	ND		91		ug/m3			11/24/17 16:11	21.9
Bromodichloromethane	ND		44		ug/m3			11/24/17 16:11	21.9
Bromoform	ND		91		ug/m3			11/24/17 16:11	21.9
Bromomethane	ND		68		ug/m3			11/24/17 16:11	21.9
2-Butanone (MEK)	ND		52		ug/m3			11/24/17 16:11	21.9
Carbon disulfide	ND		55		ug/m3			11/24/17 16:11	21.9
Carbon tetrachloride	ND		110		ug/m3			11/24/17 16:11	21.9
Chlorobenzene	ND		30		ug/m3			11/24/17 16:11	21.9
Chloroethane	ND		46		ug/m3			11/24/17 16:11	21.9
Chloroform	ND		32		ug/m3			11/24/17 16:11	21.9
Chloromethane	ND		36		ug/m3			11/24/17 16:11	21.9
cis-1,2-Dichloroethene	ND		35		ug/m3			11/24/17 16:11	21.9
cis-1,3-Dichloropropene	ND		40		ug/m3			11/24/17 16:11	21.9
Dibromochloromethane	ND		75		ug/m3			11/24/17 16:11	21.9
1,2-Dibromoethane (EDB)	ND		130		ug/m3			11/24/17 16:11	21.9
1,2-Dichlorobenzene	ND		53		ug/m3			11/24/17 16:11	21.9
1,3-Dichlorobenzene	ND		53		ug/m3			11/24/17 16:11	21.9
1,4-Dichlorobenzene	ND		53		ug/m3			11/24/17 16:11	21.9
Dichlorodifluoromethane	ND		43		ug/m3			11/24/17 16:11	21.9
1,1-Dichloroethane	ND		27		ug/m3			11/24/17 16:11	21.9
1,2-Dichloroethane	ND		71		ug/m3			11/24/17 16:11	21.9
1,1-Dichloroethene	ND		69		ug/m3			11/24/17 16:11	21.9
1,2-Dichloropropane	ND		40		ug/m3			11/24/17 16:11	21.9
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		61		ug/m3			11/24/17 16:11	21.9
Ethylbenzene	ND		38		ug/m3			11/24/17 16:11	21.9
4-Ethyltoluene	ND		43		ug/m3			11/24/17 16:11	21.9
Hexachlorobutadiene	ND		470		ug/m3			11/24/17 16:11	21.9
2-Hexanone	ND		36		ug/m3			11/24/17 16:11	21.9
Methylene Chloride	ND		30		ug/m3			11/24/17 16:11	21.9
4-Methyl-2-pentanone (MIBK)	ND		36		ug/m3			11/24/17 16:11	21.9
Methyl-t-Butyl Ether (MTBE)	ND		63		ug/m3			11/24/17 16:11	21.9
m,p-Xylene	ND		76		ug/m3			11/24/17 16:11	21.9
o-Xylene	ND		38		ug/m3			11/24/17 16:11	21.9
Styrene	ND		37		ug/m3			11/24/17 16:11	21.9
1,1,2,2-Tetrachloroethane	ND		60		ug/m3			11/24/17 16:11	21.9
<b>Tetrachloroethene</b>	<b>60</b>		59		ug/m3			11/24/17 16:11	21.9
Toluene	ND		33		ug/m3			11/24/17 16:11	21.9
trans-1,2-Dichloroethene	ND		35		ug/m3			11/24/17 16:11	21.9
trans-1,3-Dichloropropene	ND		40		ug/m3			11/24/17 16:11	21.9
1,2,4-Trichlorobenzene	ND		330		ug/m3			11/24/17 16:11	21.9
1,1,1-Trichloroethane	ND		36		ug/m3			11/24/17 16:11	21.9
1,1,2-Trichloroethane	ND		48		ug/m3			11/24/17 16:11	21.9
Trichloroethene	ND		47		ug/m3			11/24/17 16:11	21.9
<b>Trichlorofluoromethane</b>	<b>8800</b>		49		ug/m3			11/24/17 16:11	21.9
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		67		ug/m3			11/24/17 16:11	21.9
1,2,4-Trimethylbenzene	ND		86		ug/m3			11/24/17 16:11	21.9

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B29-43'**

**Lab Sample ID: 320-33413-1**

**Date Collected: 11/09/17 16:15**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		43		ug/m3			11/24/17 16:11	21.9
Vinyl acetate	ND		62		ug/m3			11/24/17 16:11	21.9
Vinyl chloride	ND		22		ug/m3			11/24/17 16:11	21.9
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130					11/24/17 16:11	21.9
1,2-Dichloroethane-d4 (Surr)	109		70 - 130					11/24/17 16:11	21.9
Toluene-d8 (Surr)	123		70 - 130					11/24/17 16:11	21.9

**Client Sample ID: B29-48'**

**Lab Sample ID: 320-33413-2**

**Date Collected: 11/09/17 16:23**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		220		ug/m3			11/24/17 17:03	18.9
Benzene	ND		24		ug/m3			11/24/17 17:03	18.9
Benzyl chloride	ND		78		ug/m3			11/24/17 17:03	18.9
Bromodichloromethane	ND		38		ug/m3			11/24/17 17:03	18.9
Bromoform	ND		78		ug/m3			11/24/17 17:03	18.9
Bromomethane	ND		59		ug/m3			11/24/17 17:03	18.9
2-Butanone (MEK)	ND		45		ug/m3			11/24/17 17:03	18.9
Carbon disulfide	ND		47		ug/m3			11/24/17 17:03	18.9
Carbon tetrachloride	ND		95		ug/m3			11/24/17 17:03	18.9
Chlorobenzene	ND		26		ug/m3			11/24/17 17:03	18.9
Chloroethane	ND		40		ug/m3			11/24/17 17:03	18.9
Chloroform	ND		28		ug/m3			11/24/17 17:03	18.9
Chloromethane	ND		31		ug/m3			11/24/17 17:03	18.9
cis-1,2-Dichloroethene	ND		30		ug/m3			11/24/17 17:03	18.9
cis-1,3-Dichloropropene	ND		34		ug/m3			11/24/17 17:03	18.9
Dibromochloromethane	ND		64		ug/m3			11/24/17 17:03	18.9
1,2-Dibromoethane (EDB)	ND		120		ug/m3			11/24/17 17:03	18.9
1,2-Dichlorobenzene	ND		45		ug/m3			11/24/17 17:03	18.9
1,3-Dichlorobenzene	ND		45		ug/m3			11/24/17 17:03	18.9
1,4-Dichlorobenzene	ND		45		ug/m3			11/24/17 17:03	18.9
Dichlorodifluoromethane	ND		37		ug/m3			11/24/17 17:03	18.9
1,1-Dichloroethane	ND		23		ug/m3			11/24/17 17:03	18.9
1,2-Dichloroethane	ND		61		ug/m3			11/24/17 17:03	18.9
1,1-Dichloroethene	ND		60		ug/m3			11/24/17 17:03	18.9
1,2-Dichloropropane	ND		35		ug/m3			11/24/17 17:03	18.9
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		53		ug/m3			11/24/17 17:03	18.9
Ethylbenzene	ND		33		ug/m3			11/24/17 17:03	18.9
4-Ethyltoluene	ND		37		ug/m3			11/24/17 17:03	18.9
Hexachlorobutadiene	ND		400		ug/m3			11/24/17 17:03	18.9
2-Hexanone	ND		31		ug/m3			11/24/17 17:03	18.9
Methylene Chloride	ND		26		ug/m3			11/24/17 17:03	18.9
4-Methyl-2-pentanone (MIBK)	ND		31		ug/m3			11/24/17 17:03	18.9
Methyl-t-Butyl Ether (MTBE)	ND		55		ug/m3			11/24/17 17:03	18.9

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B29-48'**

**Lab Sample ID: 320-33413-2**

Date Collected: 11/09/17 16:23

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		66		ug/m3			11/24/17 17:03	18.9
o-Xylene	ND		33		ug/m3			11/24/17 17:03	18.9
Styrene	ND		32		ug/m3			11/24/17 17:03	18.9
1,1,2,2-Tetrachloroethane	ND		52		ug/m3			11/24/17 17:03	18.9
Tetrachloroethene	ND		51		ug/m3			11/24/17 17:03	18.9
Toluene	ND		28		ug/m3			11/24/17 17:03	18.9
trans-1,2-Dichloroethene	ND		30		ug/m3			11/24/17 17:03	18.9
trans-1,3-Dichloropropene	ND		34		ug/m3			11/24/17 17:03	18.9
1,2,4-Trichlorobenzene	ND		280		ug/m3			11/24/17 17:03	18.9
1,1,1-Trichloroethane	ND		31		ug/m3			11/24/17 17:03	18.9
1,1,2-Trichloroethane	ND		41		ug/m3			11/24/17 17:03	18.9
Trichloroethene	ND		41		ug/m3			11/24/17 17:03	18.9
<b>Trichlorofluoromethane</b>	<b>7100</b>		42		ug/m3			11/24/17 17:03	18.9
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		58		ug/m3			11/24/17 17:03	18.9
1,2,4-Trimethylbenzene	ND		74		ug/m3			11/24/17 17:03	18.9
1,3,5-Trimethylbenzene	ND		37		ug/m3			11/24/17 17:03	18.9
Vinyl acetate	ND		53		ug/m3			11/24/17 17:03	18.9
Vinyl chloride	ND		19		ug/m3			11/24/17 17:03	18.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130		11/24/17 17:03	18.9
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		11/24/17 17:03	18.9
Toluene-d8 (Surr)	123		70 - 130		11/24/17 17:03	18.9

**Client Sample ID: B29-58'**

**Lab Sample ID: 320-33413-3**

Date Collected: 11/09/17 16:33

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		270		ug/m3			11/24/17 17:55	22.8
Benzene	ND		29		ug/m3			11/24/17 17:55	22.8
Benzyl chloride	ND		94		ug/m3			11/24/17 17:55	22.8
Bromodichloromethane	ND		46		ug/m3			11/24/17 17:55	22.8
Bromoform	ND		94		ug/m3			11/24/17 17:55	22.8
Bromomethane	ND		71		ug/m3			11/24/17 17:55	22.8
2-Butanone (MEK)	ND		54		ug/m3			11/24/17 17:55	22.8
Carbon disulfide	ND		57		ug/m3			11/24/17 17:55	22.8
Carbon tetrachloride	ND		110		ug/m3			11/24/17 17:55	22.8
Chlorobenzene	ND		31		ug/m3			11/24/17 17:55	22.8
Chloroethane	ND		48		ug/m3			11/24/17 17:55	22.8
Chloroform	ND		33		ug/m3			11/24/17 17:55	22.8
Chloromethane	ND		38		ug/m3			11/24/17 17:55	22.8
cis-1,2-Dichloroethene	ND		36		ug/m3			11/24/17 17:55	22.8
cis-1,3-Dichloropropene	ND		41		ug/m3			11/24/17 17:55	22.8
Dibromochloromethane	ND		78		ug/m3			11/24/17 17:55	22.8
1,2-Dibromoethane (EDB)	ND		140		ug/m3			11/24/17 17:55	22.8
1,2-Dichlorobenzene	ND		55		ug/m3			11/24/17 17:55	22.8

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B29-58'**

**Lab Sample ID: 320-33413-3**

Date Collected: 11/09/17 16:33

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		55		ug/m3			11/24/17 17:55	22.8
1,4-Dichlorobenzene	ND		55		ug/m3			11/24/17 17:55	22.8
Dichlorodifluoromethane	ND		45		ug/m3			11/24/17 17:55	22.8
1,1-Dichloroethane	ND		28		ug/m3			11/24/17 17:55	22.8
1,2-Dichloroethane	ND		74		ug/m3			11/24/17 17:55	22.8
1,1-Dichloroethene	ND		72		ug/m3			11/24/17 17:55	22.8
1,2-Dichloropropane	ND		42		ug/m3			11/24/17 17:55	22.8
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		64		ug/m3			11/24/17 17:55	22.8
Ethylbenzene	ND		40		ug/m3			11/24/17 17:55	22.8
4-Ethyltoluene	ND		45		ug/m3			11/24/17 17:55	22.8
Hexachlorobutadiene	ND		490		ug/m3			11/24/17 17:55	22.8
2-Hexanone	ND		37		ug/m3			11/24/17 17:55	22.8
Methylene Chloride	ND		32		ug/m3			11/24/17 17:55	22.8
4-Methyl-2-pentanone (MIBK)	ND		37		ug/m3			11/24/17 17:55	22.8
Methyl-t-Butyl Ether (MTBE)	ND		66		ug/m3			11/24/17 17:55	22.8
m,p-Xylene	ND		79		ug/m3			11/24/17 17:55	22.8
o-Xylene	ND		40		ug/m3			11/24/17 17:55	22.8
Styrene	ND		39		ug/m3			11/24/17 17:55	22.8
1,1,1,2-Tetrachloroethane	ND		63		ug/m3			11/24/17 17:55	22.8
Tetrachloroethene	ND		62		ug/m3			11/24/17 17:55	22.8
Toluene	ND		34		ug/m3			11/24/17 17:55	22.8
trans-1,2-Dichloroethene	ND		36		ug/m3			11/24/17 17:55	22.8
trans-1,3-Dichloropropene	ND		41		ug/m3			11/24/17 17:55	22.8
1,2,4-Trichlorobenzene	ND		340		ug/m3			11/24/17 17:55	22.8
1,1,1-Trichloroethane	ND		37		ug/m3			11/24/17 17:55	22.8
1,1,2-Trichloroethane	ND		50		ug/m3			11/24/17 17:55	22.8
Trichloroethene	ND		49		ug/m3			11/24/17 17:55	22.8
<b>Trichlorofluoromethane</b>	<b>9900</b>		51		ug/m3			11/24/17 17:55	22.8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		70		ug/m3			11/24/17 17:55	22.8
1,2,4-Trimethylbenzene	ND		90		ug/m3			11/24/17 17:55	22.8
1,3,5-Trimethylbenzene	ND		45		ug/m3			11/24/17 17:55	22.8
Vinyl acetate	ND		64		ug/m3			11/24/17 17:55	22.8
Vinyl chloride	ND		23		ug/m3			11/24/17 17:55	22.8
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130					11/24/17 17:55	22.8
1,2-Dichloroethane-d4 (Surr)	110		70 - 130					11/24/17 17:55	22.8
Toluene-d8 (Surr)	123		70 - 130					11/24/17 17:55	22.8

**Client Sample ID: B29-58'-D**

**Lab Sample ID: 320-33413-4**

Date Collected: 11/09/17 16:33

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		310		ug/m3			11/24/17 18:46	25.9
Benzene	ND		33		ug/m3			11/24/17 18:46	25.9
Benzyl chloride	ND		110		ug/m3			11/24/17 18:46	25.9

TestAmerica Sacramento



# Client Sample Results

Client: Leighton Group  
 Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B29-58'-D**

**Lab Sample ID: 320-33413-4**

**Date Collected: 11/09/17 16:33**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		52		ug/m3			11/24/17 18:46	25.9
Bromoform	ND		110		ug/m3			11/24/17 18:46	25.9
Bromomethane	ND		80		ug/m3			11/24/17 18:46	25.9
2-Butanone (MEK)	ND		61		ug/m3			11/24/17 18:46	25.9
Carbon disulfide	ND		65		ug/m3			11/24/17 18:46	25.9
Carbon tetrachloride	ND		130		ug/m3			11/24/17 18:46	25.9
Chlorobenzene	ND		36		ug/m3			11/24/17 18:46	25.9
Chloroethane	ND		55		ug/m3			11/24/17 18:46	25.9
Chloroform	ND		38		ug/m3			11/24/17 18:46	25.9
Chloromethane	ND		43		ug/m3			11/24/17 18:46	25.9
cis-1,2-Dichloroethene	ND		41		ug/m3			11/24/17 18:46	25.9
cis-1,3-Dichloropropene	ND		47		ug/m3			11/24/17 18:46	25.9
Dibromochloromethane	ND		88		ug/m3			11/24/17 18:46	25.9
1,2-Dibromoethane (EDB)	ND		160		ug/m3			11/24/17 18:46	25.9
1,2-Dichlorobenzene	ND		62		ug/m3			11/24/17 18:46	25.9
1,3-Dichlorobenzene	ND		62		ug/m3			11/24/17 18:46	25.9
1,4-Dichlorobenzene	ND		62		ug/m3			11/24/17 18:46	25.9
Dichlorodifluoromethane	ND		51		ug/m3			11/24/17 18:46	25.9
1,1-Dichloroethane	ND		31		ug/m3			11/24/17 18:46	25.9
1,2-Dichloroethane	ND		84		ug/m3			11/24/17 18:46	25.9
1,1-Dichloroethene	ND		82		ug/m3			11/24/17 18:46	25.9
1,2-Dichloropropane	ND		48		ug/m3			11/24/17 18:46	25.9
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		72		ug/m3			11/24/17 18:46	25.9
Ethylbenzene	ND		45		ug/m3			11/24/17 18:46	25.9
4-Ethyltoluene	ND		51		ug/m3			11/24/17 18:46	25.9
Hexachlorobutadiene	ND		550		ug/m3			11/24/17 18:46	25.9
2-Hexanone	ND		42		ug/m3			11/24/17 18:46	25.9
Methylene Chloride	ND		36		ug/m3			11/24/17 18:46	25.9
4-Methyl-2-pentanone (MIBK)	ND		42		ug/m3			11/24/17 18:46	25.9
Methyl-t-Butyl Ether (MTBE)	ND		75		ug/m3			11/24/17 18:46	25.9
m,p-Xylene	ND		90		ug/m3			11/24/17 18:46	25.9
o-Xylene	ND		45		ug/m3			11/24/17 18:46	25.9
Styrene	ND		44		ug/m3			11/24/17 18:46	25.9
1,1,2,2-Tetrachloroethane	ND		71		ug/m3			11/24/17 18:46	25.9
Tetrachloroethene	ND		70		ug/m3			11/24/17 18:46	25.9
Toluene	ND		39		ug/m3			11/24/17 18:46	25.9
trans-1,2-Dichloroethene	ND		41		ug/m3			11/24/17 18:46	25.9
trans-1,3-Dichloropropene	ND		47		ug/m3			11/24/17 18:46	25.9
1,2,4-Trichlorobenzene	ND		380		ug/m3			11/24/17 18:46	25.9
1,1,1-Trichloroethane	ND		42		ug/m3			11/24/17 18:46	25.9
1,1,2-Trichloroethane	ND		57		ug/m3			11/24/17 18:46	25.9
Trichloroethene	ND		56		ug/m3			11/24/17 18:46	25.9
<b>Trichlorofluoromethane</b>	<b>10000</b>		58		ug/m3			11/24/17 18:46	25.9
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		79		ug/m3			11/24/17 18:46	25.9
1,2,4-Trimethylbenzene	ND		100		ug/m3			11/24/17 18:46	25.9
1,3,5-Trimethylbenzene	ND		51		ug/m3			11/24/17 18:46	25.9
Vinyl acetate	ND		73		ug/m3			11/24/17 18:46	25.9
Vinyl chloride	ND		26		ug/m3			11/24/17 18:46	25.9

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B29-58'-D**

**Lab Sample ID: 320-33413-4**

Date Collected: 11/09/17 16:33

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130		11/24/17 18:46	25.9
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		11/24/17 18:46	25.9
Toluene-d8 (Surr)	120		70 - 130		11/24/17 18:46	25.9

**Client Sample ID: B8-58'**

**Lab Sample ID: 320-33413-5**

Date Collected: 11/09/17 17:25

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		12		ug/m3			11/24/17 19:43	1
Benzene	ND		1.3		ug/m3			11/24/17 19:43	1
Benzyl chloride	ND		4.1		ug/m3			11/24/17 19:43	1
Bromodichloromethane	ND		2.0		ug/m3			11/24/17 19:43	1
Bromoform	ND		4.1		ug/m3			11/24/17 19:43	1
Bromomethane	ND		3.1		ug/m3			11/24/17 19:43	1
2-Butanone (MEK)	ND		2.4		ug/m3			11/24/17 19:43	1
Carbon disulfide	ND		2.5		ug/m3			11/24/17 19:43	1
Carbon tetrachloride	ND		5.0		ug/m3			11/24/17 19:43	1
Chlorobenzene	ND		1.4		ug/m3			11/24/17 19:43	1
Chloroethane	ND		2.1		ug/m3			11/24/17 19:43	1
Chloroform	ND		1.5		ug/m3			11/24/17 19:43	1
Chloromethane	ND		1.7		ug/m3			11/24/17 19:43	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			11/24/17 19:43	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			11/24/17 19:43	1
Dibromochloromethane	ND		3.4		ug/m3			11/24/17 19:43	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			11/24/17 19:43	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			11/24/17 19:43	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			11/24/17 19:43	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			11/24/17 19:43	1
Dichlorodifluoromethane	ND		2.0		ug/m3			11/24/17 19:43	1
1,1-Dichloroethane	ND		1.2		ug/m3			11/24/17 19:43	1
1,2-Dichloroethane	ND		3.2		ug/m3			11/24/17 19:43	1
1,1-Dichloroethene	ND		3.2		ug/m3			11/24/17 19:43	1
1,2-Dichloropropane	ND		1.8		ug/m3			11/24/17 19:43	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m3			11/24/17 19:43	1
Ethylbenzene	ND		1.7		ug/m3			11/24/17 19:43	1
4-Ethyltoluene	ND		2.0		ug/m3			11/24/17 19:43	1
Hexachlorobutadiene	ND		21		ug/m3			11/24/17 19:43	1
2-Hexanone	ND		1.6		ug/m3			11/24/17 19:43	1
<b>Methylene Chloride</b>	<b>2.2</b>		1.4		ug/m3			11/24/17 19:43	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			11/24/17 19:43	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			11/24/17 19:43	1
m,p-Xylene	ND		3.5		ug/m3			11/24/17 19:43	1
o-Xylene	ND		1.7		ug/m3			11/24/17 19:43	1
Styrene	ND		1.7		ug/m3			11/24/17 19:43	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			11/24/17 19:43	1
<b>Tetrachloroethene</b>	<b>28</b>		2.7		ug/m3			11/24/17 19:43	1

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B8-58'**

**Lab Sample ID: 320-33413-5**

Date Collected: 11/09/17 17:25

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Toluene</b>	<b>2.2</b>		1.5		ug/m3			11/24/17 19:43	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			11/24/17 19:43	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			11/24/17 19:43	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			11/24/17 19:43	1
<b>1,1,1-Trichloroethane</b>	<b>6.6</b>		1.6		ug/m3			11/24/17 19:43	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			11/24/17 19:43	1
Trichloroethene	ND		2.1		ug/m3			11/24/17 19:43	1
<b>Trichlorofluoromethane</b>	<b>38</b>		2.2		ug/m3			11/24/17 19:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			11/24/17 19:43	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			11/24/17 19:43	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			11/24/17 19:43	1
Vinyl acetate	ND		2.8		ug/m3			11/24/17 19:43	1
Vinyl chloride	ND		1.0		ug/m3			11/24/17 19:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	112		70 - 130					11/24/17 19:43	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130					11/24/17 19:43	1
Toluene-d8 (Surr)	123		70 - 130					11/24/17 19:43	1

**Client Sample ID: B2-58'**

**Lab Sample ID: 320-33413-6**

Date Collected: 11/13/17 15:18

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		78		ug/m3			11/24/17 20:34	6.58
Benzene	ND		8.4		ug/m3			11/24/17 20:34	6.58
Benzyl chloride	ND		27		ug/m3			11/24/17 20:34	6.58
Bromodichloromethane	ND		13		ug/m3			11/24/17 20:34	6.58
Bromoform	ND		27		ug/m3			11/24/17 20:34	6.58
Bromomethane	ND		20		ug/m3			11/24/17 20:34	6.58
2-Butanone (MEK)	ND		16		ug/m3			11/24/17 20:34	6.58
<b>Carbon disulfide</b>	<b>38</b>		16		ug/m3			11/24/17 20:34	6.58
Carbon tetrachloride	ND		33		ug/m3			11/24/17 20:34	6.58
Chlorobenzene	ND		9.1		ug/m3			11/24/17 20:34	6.58
Chloroethane	ND		14		ug/m3			11/24/17 20:34	6.58
Chloroform	ND		9.6		ug/m3			11/24/17 20:34	6.58
Chloromethane	ND		11		ug/m3			11/24/17 20:34	6.58
cis-1,2-Dichloroethene	ND		10		ug/m3			11/24/17 20:34	6.58
cis-1,3-Dichloropropene	ND		12		ug/m3			11/24/17 20:34	6.58
Dibromochloromethane	ND		22		ug/m3			11/24/17 20:34	6.58
1,2-Dibromoethane (EDB)	ND		40		ug/m3			11/24/17 20:34	6.58
1,2-Dichlorobenzene	ND		16		ug/m3			11/24/17 20:34	6.58
1,3-Dichlorobenzene	ND		16		ug/m3			11/24/17 20:34	6.58
1,4-Dichlorobenzene	ND		16		ug/m3			11/24/17 20:34	6.58
<b>Dichlorodifluoromethane</b>	<b>22</b>		13		ug/m3			11/24/17 20:34	6.58
1,1-Dichloroethane	ND		8.0		ug/m3			11/24/17 20:34	6.58
1,2-Dichloroethane	ND		21		ug/m3			11/24/17 20:34	6.58

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B2-58'**

**Lab Sample ID: 320-33413-6**

**Date Collected: 11/13/17 15:18**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		21		ug/m3			11/24/17 20:34	6.58
1,2-Dichloropropane	ND		12		ug/m3			11/24/17 20:34	6.58
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		18		ug/m3			11/24/17 20:34	6.58
Ethylbenzene	ND		11		ug/m3			11/24/17 20:34	6.58
4-Ethyltoluene	ND		13		ug/m3			11/24/17 20:34	6.58
Hexachlorobutadiene	ND		140		ug/m3			11/24/17 20:34	6.58
2-Hexanone	ND		11		ug/m3			11/24/17 20:34	6.58
Methylene Chloride	ND		9.1		ug/m3			11/24/17 20:34	6.58
4-Methyl-2-pentanone (MIBK)	ND		11		ug/m3			11/24/17 20:34	6.58
Methyl-t-Butyl Ether (MTBE)	ND		19		ug/m3			11/24/17 20:34	6.58
m,p-Xylene	ND		23		ug/m3			11/24/17 20:34	6.58
o-Xylene	ND		11		ug/m3			11/24/17 20:34	6.58
Styrene	ND		11		ug/m3			11/24/17 20:34	6.58
1,1,2,2-Tetrachloroethane	ND		18		ug/m3			11/24/17 20:34	6.58
<b>Tetrachloroethene</b>	<b>82</b>		18		ug/m3			11/24/17 20:34	6.58
Toluene	ND		9.9		ug/m3			11/24/17 20:34	6.58
trans-1,2-Dichloroethene	ND		10		ug/m3			11/24/17 20:34	6.58
trans-1,3-Dichloropropene	ND		12		ug/m3			11/24/17 20:34	6.58
1,2,4-Trichlorobenzene	ND		98		ug/m3			11/24/17 20:34	6.58
<b>1,1,1-Trichloroethane</b>	<b>11</b>		11		ug/m3			11/24/17 20:34	6.58
1,1,2-Trichloroethane	ND		14		ug/m3			11/24/17 20:34	6.58
Trichloroethene	ND		14		ug/m3			11/24/17 20:34	6.58
<b>Trichlorofluoromethane</b>	<b>2300</b>		15		ug/m3			11/24/17 20:34	6.58
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20		ug/m3			11/24/17 20:34	6.58
1,2,4-Trimethylbenzene	ND		26		ug/m3			11/24/17 20:34	6.58
1,3,5-Trimethylbenzene	ND		13		ug/m3			11/24/17 20:34	6.58
Vinyl acetate	ND		19		ug/m3			11/24/17 20:34	6.58
Vinyl chloride	ND		6.7		ug/m3			11/24/17 20:34	6.58
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130					11/24/17 20:34	6.58
1,2-Dichloroethane-d4 (Surr)	110		70 - 130					11/24/17 20:34	6.58
Toluene-d8 (Surr)	121		70 - 130					11/24/17 20:34	6.58

**Client Sample ID: B2-63'**

**Lab Sample ID: 320-33413-7**

**Date Collected: 11/13/17 15:24**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>15</b>		12		ug/m3			11/24/17 21:32	1
<b>Benzene</b>	<b>1.5</b>		1.3		ug/m3			11/24/17 21:32	1
Benzyl chloride	ND		4.1		ug/m3			11/24/17 21:32	1
Bromodichloromethane	ND		2.0		ug/m3			11/24/17 21:32	1
Bromoform	ND		4.1		ug/m3			11/24/17 21:32	1
Bromomethane	ND		3.1		ug/m3			11/24/17 21:32	1
2-Butanone (MEK)	ND		2.4		ug/m3			11/24/17 21:32	1
<b>Carbon disulfide</b>	<b>9.0</b>		2.5		ug/m3			11/24/17 21:32	1

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B2-63'**

**Lab Sample ID: 320-33413-7**

Date Collected: 11/13/17 15:24

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		5.0		ug/m3			11/24/17 21:32	1
Chlorobenzene	ND		1.4		ug/m3			11/24/17 21:32	1
Chloroethane	ND		2.1		ug/m3			11/24/17 21:32	1
Chloroform	ND		1.5		ug/m3			11/24/17 21:32	1
Chloromethane	ND		1.7		ug/m3			11/24/17 21:32	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			11/24/17 21:32	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			11/24/17 21:32	1
Dibromochloromethane	ND		3.4		ug/m3			11/24/17 21:32	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			11/24/17 21:32	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			11/24/17 21:32	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			11/24/17 21:32	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			11/24/17 21:32	1
<b>Dichlorodifluoromethane</b>	<b>15</b>		2.0		ug/m3			11/24/17 21:32	1
1,1-Dichloroethane	ND		1.2		ug/m3			11/24/17 21:32	1
1,2-Dichloroethane	ND		3.2		ug/m3			11/24/17 21:32	1
1,1-Dichloroethene	ND		3.2		ug/m3			11/24/17 21:32	1
1,2-Dichloropropane	ND		1.8		ug/m3			11/24/17 21:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m3			11/24/17 21:32	1
Ethylbenzene	ND		1.7		ug/m3			11/24/17 21:32	1
4-Ethyltoluene	ND		2.0		ug/m3			11/24/17 21:32	1
Hexachlorobutadiene	ND		21		ug/m3			11/24/17 21:32	1
2-Hexanone	ND		1.6		ug/m3			11/24/17 21:32	1
<b>Methylene Chloride</b>	<b>1.5</b>		1.4		ug/m3			11/24/17 21:32	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			11/24/17 21:32	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			11/24/17 21:32	1
<b>m,p-Xylene</b>	<b>5.2</b>		3.5		ug/m3			11/24/17 21:32	1
o-Xylene	ND		1.7		ug/m3			11/24/17 21:32	1
Styrene	ND		1.7		ug/m3			11/24/17 21:32	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			11/24/17 21:32	1
<b>Tetrachloroethene</b>	<b>76</b>		2.7		ug/m3			11/24/17 21:32	1
<b>Toluene</b>	<b>12</b>		1.5		ug/m3			11/24/17 21:32	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			11/24/17 21:32	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			11/24/17 21:32	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			11/24/17 21:32	1
<b>1,1,1-Trichloroethane</b>	<b>9.9</b>		1.6		ug/m3			11/24/17 21:32	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			11/24/17 21:32	1
Trichloroethene	ND		2.1		ug/m3			11/24/17 21:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			11/24/17 21:32	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			11/24/17 21:32	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			11/24/17 21:32	1
Vinyl acetate	ND		2.8		ug/m3			11/24/17 21:32	1
Vinyl chloride	ND		1.0		ug/m3			11/24/17 21:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130					11/24/17 21:32	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130					11/24/17 21:32	1
Toluene-d8 (Surr)	125		70 - 130					11/24/17 21:32	1

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B2-63'**

**Lab Sample ID: 320-33413-7**

Date Collected: 11/13/17 15:24

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	2100		13		ug/m3			11/27/17 15:57	5.97
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	112		70 - 130					11/27/17 15:57	5.97
1,2-Dichloroethane-d4 (Surr)	107		70 - 130					11/27/17 15:57	5.97
Toluene-d8 (Surr)	123		70 - 130					11/27/17 15:57	5.97

**Client Sample ID: B2-73'**

**Lab Sample ID: 320-33413-8**

Date Collected: 11/13/17 15:34

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		29		ug/m3			11/27/17 16:49	2.44
Benzene	ND		3.1		ug/m3			11/27/17 16:49	2.44
Benzyl chloride	ND		10		ug/m3			11/27/17 16:49	2.44
Bromodichloromethane	ND		4.9		ug/m3			11/27/17 16:49	2.44
Bromoform	ND		10		ug/m3			11/27/17 16:49	2.44
Bromomethane	ND		7.6		ug/m3			11/27/17 16:49	2.44
2-Butanone (MEK)	ND		5.8		ug/m3			11/27/17 16:49	2.44
Carbon disulfide	ND		6.1		ug/m3			11/27/17 16:49	2.44
Carbon tetrachloride	ND		12		ug/m3			11/27/17 16:49	2.44
Chlorobenzene	ND		3.4		ug/m3			11/27/17 16:49	2.44
Chloroethane	ND		5.2		ug/m3			11/27/17 16:49	2.44
Chloroform	ND		3.6		ug/m3			11/27/17 16:49	2.44
Chloromethane	ND		4.0		ug/m3			11/27/17 16:49	2.44
cis-1,2-Dichloroethene	ND		3.9		ug/m3			11/27/17 16:49	2.44
cis-1,3-Dichloropropene	ND		4.4		ug/m3			11/27/17 16:49	2.44
Dibromochloromethane	ND		8.3		ug/m3			11/27/17 16:49	2.44
1,2-Dibromoethane (EDB)	ND		15		ug/m3			11/27/17 16:49	2.44
1,2-Dichlorobenzene	ND		5.9		ug/m3			11/27/17 16:49	2.44
1,3-Dichlorobenzene	ND		5.9		ug/m3			11/27/17 16:49	2.44
1,4-Dichlorobenzene	ND		5.9		ug/m3			11/27/17 16:49	2.44
Dichlorodifluoromethane	77		4.8		ug/m3			11/27/17 16:49	2.44
1,1-Dichloroethane	ND		3.0		ug/m3			11/27/17 16:49	2.44
1,2-Dichloroethane	ND		7.9		ug/m3			11/27/17 16:49	2.44
1,1-Dichloroethene	ND		7.7		ug/m3			11/27/17 16:49	2.44
1,2-Dichloropropane	ND		4.5		ug/m3			11/27/17 16:49	2.44
1,2-Dichloro-1,1,2,2-tetrafluoroethane	18		6.8		ug/m3			11/27/17 16:49	2.44
Ethylbenzene	ND		4.2		ug/m3			11/27/17 16:49	2.44
4-Ethyltoluene	ND		4.8		ug/m3			11/27/17 16:49	2.44
Hexachlorobutadiene	ND		52		ug/m3			11/27/17 16:49	2.44
2-Hexanone	ND		4.0		ug/m3			11/27/17 16:49	2.44
Methylene Chloride	ND		3.4		ug/m3			11/27/17 16:49	2.44
4-Methyl-2-pentanone (MIBK)	ND		4.0		ug/m3			11/27/17 16:49	2.44
Methyl-t-Butyl Ether (MTBE)	ND		7.0		ug/m3			11/27/17 16:49	2.44
m,p-Xylene	ND		8.5		ug/m3			11/27/17 16:49	2.44

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B2-73'**

**Lab Sample ID: 320-33413-8**

**Date Collected: 11/13/17 15:34**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		4.2		ug/m3			11/27/17 16:49	2.44
Styrene	ND		4.2		ug/m3			11/27/17 16:49	2.44
1,1,2,2-Tetrachloroethane	ND		6.7		ug/m3			11/27/17 16:49	2.44
Tetrachloroethene	ND		6.6		ug/m3			11/27/17 16:49	2.44
Toluene	ND		3.7		ug/m3			11/27/17 16:49	2.44
trans-1,2-Dichloroethene	ND		3.9		ug/m3			11/27/17 16:49	2.44
trans-1,3-Dichloropropene	ND		4.4		ug/m3			11/27/17 16:49	2.44
1,2,4-Trichlorobenzene	ND		36		ug/m3			11/27/17 16:49	2.44
1,1,1-Trichloroethane	ND		4.0		ug/m3			11/27/17 16:49	2.44
1,1,2-Trichloroethane	ND		5.3		ug/m3			11/27/17 16:49	2.44
Trichloroethene	ND		5.2		ug/m3			11/27/17 16:49	2.44
<b>Trichlorofluoromethane</b>	<b>720</b>		5.5		ug/m3			11/27/17 16:49	2.44
<b>1,1,2-Trichloro-1,2,2-trifluoroethane</b>	<b>55</b>		7.5		ug/m3			11/27/17 16:49	2.44
1,2,4-Trimethylbenzene	ND		9.6		ug/m3			11/27/17 16:49	2.44
1,3,5-Trimethylbenzene	ND		4.8		ug/m3			11/27/17 16:49	2.44
Vinyl acetate	ND *		6.9		ug/m3			11/27/17 16:49	2.44
Vinyl chloride	ND		2.5		ug/m3			11/27/17 16:49	2.44
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130					11/27/17 16:49	2.44
1,2-Dichloroethane-d4 (Surr)	110		70 - 130					11/27/17 16:49	2.44
Toluene-d8 (Surr)	123		70 - 130					11/27/17 16:49	2.44

**Client Sample ID: B34-43'**

**Lab Sample ID: 320-33413-9**

**Date Collected: 11/13/17 16:46**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>52</b>		26		ug/m3			11/27/17 17:42	2.18
<b>Benzene</b>	<b>6.1</b>		2.8		ug/m3			11/27/17 17:42	2.18
Benzyl chloride	ND		9.0		ug/m3			11/27/17 17:42	2.18
<b>Bromodichloromethane</b>	<b>9.6</b>		4.4		ug/m3			11/27/17 17:42	2.18
<b>Bromoform</b>	<b>11</b>		9.0		ug/m3			11/27/17 17:42	2.18
<b>Bromomethane</b>	<b>6.8</b>		6.8		ug/m3			11/27/17 17:42	2.18
<b>2-Butanone (MEK)</b>	<b>9.7</b>		5.1		ug/m3			11/27/17 17:42	2.18
<b>Carbon disulfide</b>	<b>580</b>		5.4		ug/m3			11/27/17 17:42	2.18
Carbon tetrachloride	ND		11		ug/m3			11/27/17 17:42	2.18
<b>Chlorobenzene</b>	<b>5.6</b>		3.0		ug/m3			11/27/17 17:42	2.18
<b>Chloroethane</b>	<b>5.8</b>		4.6		ug/m3			11/27/17 17:42	2.18
<b>Chloroform</b>	<b>8.4</b>		3.2		ug/m3			11/27/17 17:42	2.18
<b>Chloromethane</b>	<b>5.0</b>		3.6		ug/m3			11/27/17 17:42	2.18
<b>cis-1,2-Dichloroethene</b>	<b>6.2</b>		3.5		ug/m3			11/27/17 17:42	2.18
<b>cis-1,3-Dichloropropene</b>	<b>6.6</b>		4.0		ug/m3			11/27/17 17:42	2.18
<b>Dibromochloromethane</b>	<b>9.4</b>		7.4		ug/m3			11/27/17 17:42	2.18
1,2-Dibromoethane (EDB)	ND		13		ug/m3			11/27/17 17:42	2.18
<b>1,2-Dichlorobenzene</b>	<b>7.0</b>		5.2		ug/m3			11/27/17 17:42	2.18

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B34-43'**

**Lab Sample ID: 320-33413-9**

Date Collected: 11/13/17 16:46

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	6.6		5.2		ug/m3			11/27/17 17:42	2.18
1,4-Dichlorobenzene	7.5		5.2		ug/m3			11/27/17 17:42	2.18
Dichlorodifluoromethane	8.9		4.3		ug/m3			11/27/17 17:42	2.18
1,1-Dichloroethane	6.9		2.6		ug/m3			11/27/17 17:42	2.18
1,2-Dichloroethane	ND		7.1		ug/m3			11/27/17 17:42	2.18
1,1-Dichloroethene	ND		6.9		ug/m3			11/27/17 17:42	2.18
1,2-Dichloropropane	6.4		4.0		ug/m3			11/27/17 17:42	2.18
1,2-Dichloro-1,1,2,2-tetrafluoroethane	12		6.1		ug/m3			11/27/17 17:42	2.18
Ethylbenzene	6.1		3.8		ug/m3			11/27/17 17:42	2.18
4-Ethyltoluene	5.7		4.3		ug/m3			11/27/17 17:42	2.18
Hexachlorobutadiene	ND		46		ug/m3			11/27/17 17:42	2.18
2-Hexanone	4.6		3.6		ug/m3			11/27/17 17:42	2.18
Methylene Chloride	8.0		3.0		ug/m3			11/27/17 17:42	2.18
4-Methyl-2-pentanone (MIBK)	6.5		3.6		ug/m3			11/27/17 17:42	2.18
Methyl-t-Butyl Ether (MTBE)	ND		6.3		ug/m3			11/27/17 17:42	2.18
m,p-Xylene	13		7.6		ug/m3			11/27/17 17:42	2.18
o-Xylene	5.8		3.8		ug/m3			11/27/17 17:42	2.18
Styrene	4.7		3.7		ug/m3			11/27/17 17:42	2.18
1,1,2,2-Tetrachloroethane	8.3		6.0		ug/m3			11/27/17 17:42	2.18
Tetrachloroethene	190		5.9		ug/m3			11/27/17 17:42	2.18
Toluene	8.3		3.3		ug/m3			11/27/17 17:42	2.18
trans-1,2-Dichloroethene	6.5		3.5		ug/m3			11/27/17 17:42	2.18
trans-1,3-Dichloropropene	5.4		4.0		ug/m3			11/27/17 17:42	2.18
1,2,4-Trichlorobenzene	ND		32		ug/m3			11/27/17 17:42	2.18
1,1,1-Trichloroethane	10		3.6		ug/m3			11/27/17 17:42	2.18
1,1,2-Trichloroethane	6.3		4.8		ug/m3			11/27/17 17:42	2.18
Trichloroethene	7.8		4.7		ug/m3			11/27/17 17:42	2.18
Trichlorofluoromethane	110		4.9		ug/m3			11/27/17 17:42	2.18
1,1,2-Trichloro-1,2,2-trifluoroethane	14		6.7		ug/m3			11/27/17 17:42	2.18
1,2,4-Trimethylbenzene	ND		8.6		ug/m3			11/27/17 17:42	2.18
1,3,5-Trimethylbenzene	5.7		4.3		ug/m3			11/27/17 17:42	2.18
Vinyl chloride	5.4		2.2		ug/m3			11/27/17 17:42	2.18
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130					11/27/17 17:42	2.18
1,2-Dichloroethane-d4 (Surr)	110		70 - 130					11/27/17 17:42	2.18
Toluene-d8 (Surr)	124		70 - 130					11/27/17 17:42	2.18

## Method: TO-15 - Volatile Organic Compounds in Ambient Air - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		6.1		ug/m3			11/30/17 04:11	2.18
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130					11/30/17 04:11	2.18
1,2-Dichloroethane-d4 (Surr)	103		70 - 130					11/30/17 04:11	2.18
Toluene-d8 (Surr)	92		70 - 130					11/30/17 04:11	2.18

TestAmerica Sacramento



# Client Sample Results

Client: Leighton Group  
 Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B34-48'**

**Lab Sample ID: 320-33413-10**

**Date Collected: 11/13/17 16:52**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>62</b>		12		ug/m3			11/27/17 18:39	1
<b>Benzene</b>	<b>13</b>		1.3		ug/m3			11/27/17 18:39	1
Benzyl chloride	ND		4.1		ug/m3			11/27/17 18:39	1
Bromodichloromethane	ND		2.0		ug/m3			11/27/17 18:39	1
Bromoform	ND		4.1		ug/m3			11/27/17 18:39	1
Bromomethane	ND		3.1		ug/m3			11/27/17 18:39	1
<b>2-Butanone (MEK)</b>	<b>3.8</b>		2.4		ug/m3			11/27/17 18:39	1
<b>Carbon disulfide</b>	<b>37</b>		2.5		ug/m3			11/27/17 18:39	1
Carbon tetrachloride	ND		5.0		ug/m3			11/27/17 18:39	1
Chlorobenzene	ND		1.4		ug/m3			11/27/17 18:39	1
Chloroethane	ND		2.1		ug/m3			11/27/17 18:39	1
<b>Chloroform</b>	<b>2.2</b>		1.5		ug/m3			11/27/17 18:39	1
Chloromethane	ND		1.7		ug/m3			11/27/17 18:39	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			11/27/17 18:39	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			11/27/17 18:39	1
Dibromochloromethane	ND		3.4		ug/m3			11/27/17 18:39	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			11/27/17 18:39	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			11/27/17 18:39	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			11/27/17 18:39	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			11/27/17 18:39	1
Dichlorodifluoromethane	ND		2.0		ug/m3			11/27/17 18:39	1
1,1-Dichloroethane	ND		1.2		ug/m3			11/27/17 18:39	1
1,2-Dichloroethane	ND		3.2		ug/m3			11/27/17 18:39	1
1,1-Dichloroethene	ND		3.2		ug/m3			11/27/17 18:39	1
1,2-Dichloropropane	ND		1.8		ug/m3			11/27/17 18:39	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m3			11/27/17 18:39	1
<b>Ethylbenzene</b>	<b>4.3</b>		1.7		ug/m3			11/27/17 18:39	1
4-Ethyltoluene	ND		2.0		ug/m3			11/27/17 18:39	1
Hexachlorobutadiene	ND		21		ug/m3			11/27/17 18:39	1
2-Hexanone	ND		1.6		ug/m3			11/27/17 18:39	1
<b>Methylene Chloride</b>	<b>15</b>		1.4		ug/m3			11/27/17 18:39	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			11/27/17 18:39	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			11/27/17 18:39	1
<b>m,p-Xylene</b>	<b>11</b>		3.5		ug/m3			11/27/17 18:39	1
<b>o-Xylene</b>	<b>1.9</b>		1.7		ug/m3			11/27/17 18:39	1
Styrene	ND		1.7		ug/m3			11/27/17 18:39	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			11/27/17 18:39	1
<b>Tetrachloroethene</b>	<b>140</b>		2.7		ug/m3			11/27/17 18:39	1
<b>Toluene</b>	<b>11</b>		1.5		ug/m3			11/27/17 18:39	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			11/27/17 18:39	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			11/27/17 18:39	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			11/27/17 18:39	1
<b>1,1,1-Trichloroethane</b>	<b>1.6</b>		1.6		ug/m3			11/27/17 18:39	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			11/27/17 18:39	1
Trichloroethene	ND		2.1		ug/m3			11/27/17 18:39	1
<b>Trichlorofluoromethane</b>	<b>85</b>		2.2		ug/m3			11/27/17 18:39	1
<b>1,1,2-Trichloro-1,2,2-trifluoroethane</b>	<b>6.0</b>		3.1		ug/m3			11/27/17 18:39	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			11/27/17 18:39	1

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B34-48'**

**Lab Sample ID: 320-33413-10**

Date Collected: 11/13/17 16:52

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			11/27/17 18:39	1
Vinyl acetate	ND	*	2.8		ug/m3			11/27/17 18:39	1
Vinyl chloride	ND		1.0		ug/m3			11/27/17 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130					11/27/17 18:39	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130					11/27/17 18:39	1
Toluene-d8 (Surr)	122		70 - 130					11/27/17 18:39	1

**Client Sample ID: B34-58'**

**Lab Sample ID: 320-33413-11**

Date Collected: 11/13/17 17:01

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	17		12		ug/m3			11/27/17 19:34	1
Benzene	3.1		1.3		ug/m3			11/27/17 19:34	1
Benzyl chloride	ND		4.1		ug/m3			11/27/17 19:34	1
Bromodichloromethane	ND		2.0		ug/m3			11/27/17 19:34	1
Bromoform	ND		4.1		ug/m3			11/27/17 19:34	1
Bromomethane	ND		3.1		ug/m3			11/27/17 19:34	1
2-Butanone (MEK)	ND		2.4		ug/m3			11/27/17 19:34	1
Carbon disulfide	23		2.5		ug/m3			11/27/17 19:34	1
Carbon tetrachloride	ND		5.0		ug/m3			11/27/17 19:34	1
Chlorobenzene	ND		1.4		ug/m3			11/27/17 19:34	1
Chloroethane	ND		2.1		ug/m3			11/27/17 19:34	1
Chloroform	ND		1.5		ug/m3			11/27/17 19:34	1
Chloromethane	3.1		1.7		ug/m3			11/27/17 19:34	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			11/27/17 19:34	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			11/27/17 19:34	1
Dibromochloromethane	ND		3.4		ug/m3			11/27/17 19:34	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			11/27/17 19:34	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			11/27/17 19:34	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			11/27/17 19:34	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			11/27/17 19:34	1
Dichlorodifluoromethane	ND		2.0		ug/m3			11/27/17 19:34	1
1,1-Dichloroethane	ND		1.2		ug/m3			11/27/17 19:34	1
1,2-Dichloroethane	ND		3.2		ug/m3			11/27/17 19:34	1
1,1-Dichloroethene	ND		3.2		ug/m3			11/27/17 19:34	1
1,2-Dichloropropane	ND		1.8		ug/m3			11/27/17 19:34	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m3			11/27/17 19:34	1
Ethylbenzene	ND		1.7		ug/m3			11/27/17 19:34	1
4-Ethyltoluene	ND		2.0		ug/m3			11/27/17 19:34	1
Hexachlorobutadiene	ND		21		ug/m3			11/27/17 19:34	1
2-Hexanone	ND		1.6		ug/m3			11/27/17 19:34	1
Methylene Chloride	ND		1.4		ug/m3			11/27/17 19:34	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			11/27/17 19:34	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			11/27/17 19:34	1

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B34-58'**

**Lab Sample ID: 320-33413-11**

Date Collected: 11/13/17 17:01

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		3.5		ug/m3			11/27/17 19:34	1
o-Xylene	ND		1.7		ug/m3			11/27/17 19:34	1
Styrene	ND		1.7		ug/m3			11/27/17 19:34	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			11/27/17 19:34	1
<b>Tetrachloroethene</b>	<b>190</b>		2.7		ug/m3			11/27/17 19:34	1
<b>Toluene</b>	<b>3.6</b>		1.5		ug/m3			11/27/17 19:34	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			11/27/17 19:34	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			11/27/17 19:34	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			11/27/17 19:34	1
1,1,1-Trichloroethane	ND		1.6		ug/m3			11/27/17 19:34	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			11/27/17 19:34	1
Trichloroethene	ND		2.1		ug/m3			11/27/17 19:34	1
<b>Trichlorofluoromethane</b>	<b>94</b>		2.2		ug/m3			11/27/17 19:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			11/27/17 19:34	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			11/27/17 19:34	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			11/27/17 19:34	1
Vinyl acetate	ND *		2.8		ug/m3			11/27/17 19:34	1
Vinyl chloride	ND		1.0		ug/m3			11/27/17 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130		11/27/17 19:34	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		11/27/17 19:34	1
Toluene-d8 (Surr)	122		70 - 130		11/27/17 19:34	1

**Client Sample ID: B8-43'**

**Lab Sample ID: 320-33413-12**

Date Collected: 11/14/17 11:27

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>110</b>		12		ug/m3			11/27/17 20:30	1
<b>Benzene</b>	<b>14</b>		1.3		ug/m3			11/27/17 20:30	1
Benzyl chloride	ND		4.1		ug/m3			11/27/17 20:30	1
Bromodichloromethane	ND		2.0		ug/m3			11/27/17 20:30	1
Bromoform	ND		4.1		ug/m3			11/27/17 20:30	1
Bromomethane	ND		3.1		ug/m3			11/27/17 20:30	1
<b>2-Butanone (MEK)</b>	<b>17</b>		2.4		ug/m3			11/27/17 20:30	1
<b>Carbon disulfide</b>	<b>26</b>		2.5		ug/m3			11/27/17 20:30	1
Carbon tetrachloride	ND		5.0		ug/m3			11/27/17 20:30	1
Chlorobenzene	ND		1.4		ug/m3			11/27/17 20:30	1
Chloroethane	ND		2.1		ug/m3			11/27/17 20:30	1
Chloroform	ND		1.5		ug/m3			11/27/17 20:30	1
Chloromethane	ND		1.7		ug/m3			11/27/17 20:30	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			11/27/17 20:30	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			11/27/17 20:30	1
Dibromochloromethane	ND		3.4		ug/m3			11/27/17 20:30	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			11/27/17 20:30	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			11/27/17 20:30	1

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B8-43'**

**Lab Sample ID: 320-33413-12**

Date Collected: 11/14/17 11:27

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		2.4		ug/m3			11/27/17 20:30	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			11/27/17 20:30	1
Dichlorodifluoromethane	ND		2.0		ug/m3			11/27/17 20:30	1
1,1-Dichloroethane	ND		1.2		ug/m3			11/27/17 20:30	1
1,2-Dichloroethane	ND		3.2		ug/m3			11/27/17 20:30	1
1,1-Dichloroethene	ND		3.2		ug/m3			11/27/17 20:30	1
1,2-Dichloropropane	ND		1.8		ug/m3			11/27/17 20:30	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m3			11/27/17 20:30	1
Ethylbenzene	ND		1.7		ug/m3			11/27/17 20:30	1
4-Ethyltoluene	ND		2.0		ug/m3			11/27/17 20:30	1
Hexachlorobutadiene	ND		21		ug/m3			11/27/17 20:30	1
2-Hexanone	ND		1.6		ug/m3			11/27/17 20:30	1
<b>Methylene Chloride</b>	<b>44</b>		1.4		ug/m3			11/27/17 20:30	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			11/27/17 20:30	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			11/27/17 20:30	1
m,p-Xylene	ND		3.5		ug/m3			11/27/17 20:30	1
o-Xylene	ND		1.7		ug/m3			11/27/17 20:30	1
Styrene	ND		1.7		ug/m3			11/27/17 20:30	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			11/27/17 20:30	1
Tetrachloroethene	ND		2.7		ug/m3			11/27/17 20:30	1
<b>Toluene</b>	<b>1.8</b>		1.5		ug/m3			11/27/17 20:30	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			11/27/17 20:30	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			11/27/17 20:30	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			11/27/17 20:30	1
<b>1,1,1-Trichloroethane</b>	<b>4.6</b>		1.6		ug/m3			11/27/17 20:30	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			11/27/17 20:30	1
Trichloroethene	ND		2.1		ug/m3			11/27/17 20:30	1
<b>Trichlorofluoromethane</b>	<b>31</b>		2.2		ug/m3			11/27/17 20:30	1
<b>1,1,2-Trichloro-1,2,2-trifluoroethane</b>	<b>9.8</b>		3.1		ug/m3			11/27/17 20:30	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			11/27/17 20:30	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			11/27/17 20:30	1
Vinyl acetate	ND *		2.8		ug/m3			11/27/17 20:30	1
Vinyl chloride	ND		1.0		ug/m3			11/27/17 20:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130					11/27/17 20:30	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130					11/27/17 20:30	1
Toluene-d8 (Surr)	121		70 - 130					11/27/17 20:30	1

**Client Sample ID: B3-63'**

**Lab Sample ID: 320-33413-13**

Date Collected: 11/14/17 13:04

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		98		ug/m3			11/27/17 21:22	8.24
Benzene	ND		11		ug/m3			11/27/17 21:22	8.24

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B3-63'**

**Lab Sample ID: 320-33413-13**

**Date Collected: 11/14/17 13:04**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl chloride	ND		34		ug/m3			11/27/17 21:22	8.24
Bromodichloromethane	ND		17		ug/m3			11/27/17 21:22	8.24
Bromoform	ND		34		ug/m3			11/27/17 21:22	8.24
Bromomethane	ND		26		ug/m3			11/27/17 21:22	8.24
2-Butanone (MEK)	ND		19		ug/m3			11/27/17 21:22	8.24
Carbon disulfide	ND		21		ug/m3			11/27/17 21:22	8.24
Carbon tetrachloride	ND		41		ug/m3			11/27/17 21:22	8.24
Chlorobenzene	ND		11		ug/m3			11/27/17 21:22	8.24
Chloroethane	ND		17		ug/m3			11/27/17 21:22	8.24
Chloroform	ND		12		ug/m3			11/27/17 21:22	8.24
Chloromethane	ND		14		ug/m3			11/27/17 21:22	8.24
cis-1,2-Dichloroethene	ND		13		ug/m3			11/27/17 21:22	8.24
cis-1,3-Dichloropropene	ND		15		ug/m3			11/27/17 21:22	8.24
Dibromochloromethane	ND		28		ug/m3			11/27/17 21:22	8.24
1,2-Dibromoethane (EDB)	ND		51		ug/m3			11/27/17 21:22	8.24
1,2-Dichlorobenzene	ND		20		ug/m3			11/27/17 21:22	8.24
1,3-Dichlorobenzene	ND		20		ug/m3			11/27/17 21:22	8.24
1,4-Dichlorobenzene	ND		20		ug/m3			11/27/17 21:22	8.24
<b>Dichlorodifluoromethane</b>	<b>36</b>		16		ug/m3			11/27/17 21:22	8.24
1,1-Dichloroethane	ND		10		ug/m3			11/27/17 21:22	8.24
1,2-Dichloroethane	ND		27		ug/m3			11/27/17 21:22	8.24
1,1-Dichloroethene	ND		26		ug/m3			11/27/17 21:22	8.24
1,2-Dichloropropane	ND		15		ug/m3			11/27/17 21:22	8.24
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		23		ug/m3			11/27/17 21:22	8.24
Ethylbenzene	ND		14		ug/m3			11/27/17 21:22	8.24
4-Ethyltoluene	ND		16		ug/m3			11/27/17 21:22	8.24
Hexachlorobutadiene	ND		180		ug/m3			11/27/17 21:22	8.24
2-Hexanone	ND		14		ug/m3			11/27/17 21:22	8.24
Methylene Chloride	ND		11		ug/m3			11/27/17 21:22	8.24
4-Methyl-2-pentanone (MIBK)	ND		14		ug/m3			11/27/17 21:22	8.24
Methyl-t-Butyl Ether (MTBE)	ND		24		ug/m3			11/27/17 21:22	8.24
m,p-Xylene	ND		29		ug/m3			11/27/17 21:22	8.24
o-Xylene	ND		14		ug/m3			11/27/17 21:22	8.24
Styrene	ND		14		ug/m3			11/27/17 21:22	8.24
1,1,2,2-Tetrachloroethane	ND		23		ug/m3			11/27/17 21:22	8.24
<b>Tetrachloroethene</b>	<b>46</b>		22		ug/m3			11/27/17 21:22	8.24
Toluene	ND		12		ug/m3			11/27/17 21:22	8.24
trans-1,2-Dichloroethene	ND		13		ug/m3			11/27/17 21:22	8.24
trans-1,3-Dichloropropene	ND		15		ug/m3			11/27/17 21:22	8.24
1,2,4-Trichlorobenzene	ND		120		ug/m3			11/27/17 21:22	8.24
1,1,1-Trichloroethane	ND		13		ug/m3			11/27/17 21:22	8.24
1,1,2-Trichloroethane	ND		18		ug/m3			11/27/17 21:22	8.24
Trichloroethene	ND		18		ug/m3			11/27/17 21:22	8.24
<b>Trichlorofluoromethane</b>	<b>2800</b>		19		ug/m3			11/27/17 21:22	8.24
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25		ug/m3			11/27/17 21:22	8.24
1,2,4-Trimethylbenzene	ND		32		ug/m3			11/27/17 21:22	8.24
1,3,5-Trimethylbenzene	ND		16		ug/m3			11/27/17 21:22	8.24
Vinyl acetate	ND *		23		ug/m3			11/27/17 21:22	8.24

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B3-63'**

**Date Collected: 11/14/17 13:04**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Lab Sample ID: 320-33413-13**

**Matrix: Air**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		8.4		ug/m3			11/27/17 21:22	8.24
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	108		70 - 130					11/27/17 21:22	8.24
1,2-Dichloroethane-d4 (Surr)	110		70 - 130					11/27/17 21:22	8.24
Toluene-d8 (Surr)	120		70 - 130					11/27/17 21:22	8.24

**Client Sample ID: B3-68'**

**Date Collected: 11/14/17 13:14**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Lab Sample ID: 320-33413-14**

**Matrix: Air**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		26		ug/m3			11/27/17 22:14	2.22
Benzene	ND		2.8		ug/m3			11/27/17 22:14	2.22
Benzyl chloride	ND		9.2		ug/m3			11/27/17 22:14	2.22
Bromodichloromethane	ND		4.5		ug/m3			11/27/17 22:14	2.22
Bromoform	ND		9.2		ug/m3			11/27/17 22:14	2.22
Bromomethane	ND		6.9		ug/m3			11/27/17 22:14	2.22
2-Butanone (MEK)	ND		5.2		ug/m3			11/27/17 22:14	2.22
Carbon disulfide	ND		5.5		ug/m3			11/27/17 22:14	2.22
Carbon tetrachloride	ND		11		ug/m3			11/27/17 22:14	2.22
Chlorobenzene	ND		3.1		ug/m3			11/27/17 22:14	2.22
Chloroethane	ND		4.7		ug/m3			11/27/17 22:14	2.22
<b>Chloroform</b>	<b>4.1</b>		3.3		ug/m3			11/27/17 22:14	2.22
Chloromethane	ND		3.7		ug/m3			11/27/17 22:14	2.22
cis-1,2-Dichloroethene	ND		3.5		ug/m3			11/27/17 22:14	2.22
cis-1,3-Dichloropropene	ND		4.0		ug/m3			11/27/17 22:14	2.22
Dibromochloromethane	ND		7.6		ug/m3			11/27/17 22:14	2.22
1,2-Dibromoethane (EDB)	ND		14		ug/m3			11/27/17 22:14	2.22
1,2-Dichlorobenzene	ND		5.3		ug/m3			11/27/17 22:14	2.22
1,3-Dichlorobenzene	ND		5.3		ug/m3			11/27/17 22:14	2.22
1,4-Dichlorobenzene	ND		5.3		ug/m3			11/27/17 22:14	2.22
<b>Dichlorodifluoromethane</b>	<b>89</b>		4.4		ug/m3			11/27/17 22:14	2.22
1,1-Dichloroethane	ND		2.7		ug/m3			11/27/17 22:14	2.22
1,2-Dichloroethane	ND		7.2		ug/m3			11/27/17 22:14	2.22
1,1-Dichloroethene	ND		7.0		ug/m3			11/27/17 22:14	2.22
1,2-Dichloropropane	ND		4.1		ug/m3			11/27/17 22:14	2.22
<b>1,2-Dichloro-1,1,2,2-tetrafluoroethane</b>	<b>27</b>		6.2		ug/m3			11/27/17 22:14	2.22
Ethylbenzene	ND		3.9		ug/m3			11/27/17 22:14	2.22
4-Ethyltoluene	ND		4.4		ug/m3			11/27/17 22:14	2.22
Hexachlorobutadiene	ND		47		ug/m3			11/27/17 22:14	2.22
2-Hexanone	ND		3.6		ug/m3			11/27/17 22:14	2.22
Methylene Chloride	ND		3.1		ug/m3			11/27/17 22:14	2.22
4-Methyl-2-pentanone (MIBK)	ND		3.6		ug/m3			11/27/17 22:14	2.22
Methyl-t-Butyl Ether (MTBE)	ND		6.4		ug/m3			11/27/17 22:14	2.22
m,p-Xylene	ND		7.7		ug/m3			11/27/17 22:14	2.22

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B3-68'**

**Lab Sample ID: 320-33413-14**

**Date Collected: 11/14/17 13:14**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		3.9		ug/m3			11/27/17 22:14	2.22
Styrene	ND		3.8		ug/m3			11/27/17 22:14	2.22
1,1,2,2-Tetrachloroethane	ND		6.1		ug/m3			11/27/17 22:14	2.22
<b>Tetrachloroethene</b>	<b>48</b>		6.0		ug/m3			11/27/17 22:14	2.22
Toluene	ND		3.3		ug/m3			11/27/17 22:14	2.22
trans-1,2-Dichloroethene	ND		3.5		ug/m3			11/27/17 22:14	2.22
trans-1,3-Dichloropropene	ND		4.0		ug/m3			11/27/17 22:14	2.22
1,2,4-Trichlorobenzene	ND		33		ug/m3			11/27/17 22:14	2.22
1,1,1-Trichloroethane	ND		3.6		ug/m3			11/27/17 22:14	2.22
1,1,2-Trichloroethane	ND		4.8		ug/m3			11/27/17 22:14	2.22
Trichloroethene	ND		4.8		ug/m3			11/27/17 22:14	2.22
<b>Trichlorofluoromethane</b>	<b>710</b>		5.0		ug/m3			11/27/17 22:14	2.22
<b>1,1,2-Trichloro-1,2,2-trifluoroethane</b>	<b>36</b>		6.8		ug/m3			11/27/17 22:14	2.22
1,2,4-Trimethylbenzene	ND		8.7		ug/m3			11/27/17 22:14	2.22
1,3,5-Trimethylbenzene	ND		4.4		ug/m3			11/27/17 22:14	2.22
Vinyl acetate	ND *		6.3		ug/m3			11/27/17 22:14	2.22
Vinyl chloride	ND		2.3		ug/m3			11/27/17 22:14	2.22
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>4-Bromofluorobenzene (Surr)</i>	109		70 - 130					11/27/17 22:14	2.22
<i>1,2-Dichloroethane-d4 (Surr)</i>	112		70 - 130					11/27/17 22:14	2.22
<i>Toluene-d8 (Surr)</i>	121		70 - 130					11/27/17 22:14	2.22

**Client Sample ID: B3-84'**

**Lab Sample ID: 320-33413-15**

**Date Collected: 11/14/17 13:22**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		260		ug/m3			11/27/17 23:05	22.1
Benzene	ND		28		ug/m3			11/27/17 23:05	22.1
Benzyl chloride	ND		92		ug/m3			11/27/17 23:05	22.1
Bromodichloromethane	ND		44		ug/m3			11/27/17 23:05	22.1
Bromoform	ND		91		ug/m3			11/27/17 23:05	22.1
Bromomethane	ND		69		ug/m3			11/27/17 23:05	22.1
2-Butanone (MEK)	ND		52		ug/m3			11/27/17 23:05	22.1
Carbon disulfide	ND		55		ug/m3			11/27/17 23:05	22.1
Carbon tetrachloride	ND		110		ug/m3			11/27/17 23:05	22.1
Chlorobenzene	ND		31		ug/m3			11/27/17 23:05	22.1
Chloroethane	ND		47		ug/m3			11/27/17 23:05	22.1
Chloroform	ND		32		ug/m3			11/27/17 23:05	22.1
Chloromethane	ND		37		ug/m3			11/27/17 23:05	22.1
<b>cis-1,2-Dichloroethene</b>	<b>97</b>		35		ug/m3			11/27/17 23:05	22.1
cis-1,3-Dichloropropene	ND		40		ug/m3			11/27/17 23:05	22.1
Dibromochloromethane	ND		75		ug/m3			11/27/17 23:05	22.1
1,2-Dibromoethane (EDB)	ND		140		ug/m3			11/27/17 23:05	22.1
1,2-Dichlorobenzene	ND		53		ug/m3			11/27/17 23:05	22.1

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B3-84'**

**Lab Sample ID: 320-33413-15**

Date Collected: 11/14/17 13:22

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		53		ug/m3			11/27/17 23:05	22.1
1,4-Dichlorobenzene	ND		53		ug/m3			11/27/17 23:05	22.1
Dichlorodifluoromethane	ND		44		ug/m3			11/27/17 23:05	22.1
1,1-Dichloroethane	ND		27		ug/m3			11/27/17 23:05	22.1
1,2-Dichloroethane	ND		72		ug/m3			11/27/17 23:05	22.1
1,1-Dichloroethene	ND		70		ug/m3			11/27/17 23:05	22.1
1,2-Dichloropropane	ND		41		ug/m3			11/27/17 23:05	22.1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		62		ug/m3			11/27/17 23:05	22.1
Ethylbenzene	ND		38		ug/m3			11/27/17 23:05	22.1
4-Ethyltoluene	ND		43		ug/m3			11/27/17 23:05	22.1
Hexachlorobutadiene	ND		470		ug/m3			11/27/17 23:05	22.1
2-Hexanone	ND		36		ug/m3			11/27/17 23:05	22.1
Methylene Chloride	ND		31		ug/m3			11/27/17 23:05	22.1
4-Methyl-2-pentanone (MIBK)	ND		36		ug/m3			11/27/17 23:05	22.1
Methyl-t-Butyl Ether (MTBE)	ND		64		ug/m3			11/27/17 23:05	22.1
m,p-Xylene	ND		77		ug/m3			11/27/17 23:05	22.1
o-Xylene	ND		38		ug/m3			11/27/17 23:05	22.1
Styrene	ND		38		ug/m3			11/27/17 23:05	22.1
1,1,1,2-Tetrachloroethane	ND		61		ug/m3			11/27/17 23:05	22.1
Tetrachloroethene	ND		60		ug/m3			11/27/17 23:05	22.1
Toluene	ND		33		ug/m3			11/27/17 23:05	22.1
trans-1,2-Dichloroethene	ND		35		ug/m3			11/27/17 23:05	22.1
trans-1,3-Dichloropropene	ND		40		ug/m3			11/27/17 23:05	22.1
1,2,4-Trichlorobenzene	ND		330		ug/m3			11/27/17 23:05	22.1
1,1,1-Trichloroethane	ND		36		ug/m3			11/27/17 23:05	22.1
1,1,2-Trichloroethane	ND		48		ug/m3			11/27/17 23:05	22.1
Trichloroethene	ND		48		ug/m3			11/27/17 23:05	22.1
Trichlorofluoromethane	ND		50		ug/m3			11/27/17 23:05	22.1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		68		ug/m3			11/27/17 23:05	22.1
1,2,4-Trimethylbenzene	ND		87		ug/m3			11/27/17 23:05	22.1
1,3,5-Trimethylbenzene	ND		43		ug/m3			11/27/17 23:05	22.1
Vinyl acetate	ND *		62		ug/m3			11/27/17 23:05	22.1
Vinyl chloride	ND		23		ug/m3			11/27/17 23:05	22.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130		11/27/17 23:05	22.1
1,2-Dichloroethane-d4 (Surr)	119		70 - 130		11/27/17 23:05	22.1
Toluene-d8 (Surr)	122		70 - 130		11/27/17 23:05	22.1

**Client Sample ID: B8-48'**

**Lab Sample ID: 320-33413-16**

Date Collected: 11/15/17 15:22

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	90		12		ug/m3			11/28/17 00:01	1
Benzene	25		1.3		ug/m3			11/28/17 00:01	1
Benzyl chloride	ND		4.1		ug/m3			11/28/17 00:01	1

TestAmerica Sacramento



# Client Sample Results

Client: Leighton Group  
 Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B8-48'**

**Lab Sample ID: 320-33413-16**

**Date Collected: 11/15/17 15:22**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		2.0		ug/m3			11/28/17 00:01	1
Bromoform	ND		4.1		ug/m3			11/28/17 00:01	1
Bromomethane	ND		3.1		ug/m3			11/28/17 00:01	1
<b>2-Butanone (MEK)</b>	<b>6.3</b>		2.4		ug/m3			11/28/17 00:01	1
<b>Carbon disulfide</b>	<b>24</b>		2.5		ug/m3			11/28/17 00:01	1
Carbon tetrachloride	ND		5.0		ug/m3			11/28/17 00:01	1
Chlorobenzene	ND		1.4		ug/m3			11/28/17 00:01	1
Chloroethane	ND		2.1		ug/m3			11/28/17 00:01	1
Chloroform	ND		1.5		ug/m3			11/28/17 00:01	1
Chloromethane	ND		1.7		ug/m3			11/28/17 00:01	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			11/28/17 00:01	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			11/28/17 00:01	1
Dibromochloromethane	ND		3.4		ug/m3			11/28/17 00:01	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			11/28/17 00:01	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			11/28/17 00:01	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			11/28/17 00:01	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			11/28/17 00:01	1
Dichlorodifluoromethane	ND		2.0		ug/m3			11/28/17 00:01	1
1,1-Dichloroethane	ND		1.2		ug/m3			11/28/17 00:01	1
1,2-Dichloroethane	ND		3.2		ug/m3			11/28/17 00:01	1
1,1-Dichloroethene	ND		3.2		ug/m3			11/28/17 00:01	1
1,2-Dichloropropane	ND		1.8		ug/m3			11/28/17 00:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m3			11/28/17 00:01	1
<b>Ethylbenzene</b>	<b>2.8</b>		1.7		ug/m3			11/28/17 00:01	1
4-Ethyltoluene	ND		2.0		ug/m3			11/28/17 00:01	1
Hexachlorobutadiene	ND		21		ug/m3			11/28/17 00:01	1
2-Hexanone	ND		1.6		ug/m3			11/28/17 00:01	1
<b>Methylene Chloride</b>	<b>44</b>		1.4		ug/m3			11/28/17 00:01	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			11/28/17 00:01	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			11/28/17 00:01	1
<b>m,p-Xylene</b>	<b>5.8</b>		3.5		ug/m3			11/28/17 00:01	1
<b>o-Xylene</b>	<b>1.9</b>		1.7		ug/m3			11/28/17 00:01	1
Styrene	ND		1.7		ug/m3			11/28/17 00:01	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			11/28/17 00:01	1
<b>Tetrachloroethene</b>	<b>14</b>		2.7		ug/m3			11/28/17 00:01	1
<b>Toluene</b>	<b>32</b>		1.5		ug/m3			11/28/17 00:01	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			11/28/17 00:01	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			11/28/17 00:01	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			11/28/17 00:01	1
<b>1,1,1-Trichloroethane</b>	<b>4.5</b>		1.6		ug/m3			11/28/17 00:01	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			11/28/17 00:01	1
Trichloroethene	ND		2.1		ug/m3			11/28/17 00:01	1
<b>Trichlorofluoromethane</b>	<b>28</b>		2.2		ug/m3			11/28/17 00:01	1
<b>1,1,2-Trichloro-1,2,2-trifluoroethane</b>	<b>8.7</b>		3.1		ug/m3			11/28/17 00:01	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			11/28/17 00:01	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			11/28/17 00:01	1
Vinyl acetate	ND *		2.8		ug/m3			11/28/17 00:01	1
Vinyl chloride	ND		1.0		ug/m3			11/28/17 00:01	1

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
 Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130		11/28/17 00:01	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		11/28/17 00:01	1
Toluene-d8 (Surr)	123		70 - 130		11/28/17 00:01	1

**Client Sample ID: B9-43'**

**Lab Sample ID: 320-33413-17**

Date Collected: 11/15/17 16:35

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		12		ug/m3			11/28/17 00:57	1
Benzene	ND		1.3		ug/m3			11/28/17 00:57	1
Benzyl chloride	ND		4.1		ug/m3			11/28/17 00:57	1
Bromodichloromethane	ND		2.0		ug/m3			11/28/17 00:57	1
Bromoform	ND		4.1		ug/m3			11/28/17 00:57	1
Bromomethane	ND		3.1		ug/m3			11/28/17 00:57	1
2-Butanone (MEK)	ND		2.4		ug/m3			11/28/17 00:57	1
<b>Carbon disulfide</b>	<b>15</b>		2.5		ug/m3			11/28/17 00:57	1
Carbon tetrachloride	ND		5.0		ug/m3			11/28/17 00:57	1
Chlorobenzene	ND		1.4		ug/m3			11/28/17 00:57	1
Chloroethane	ND		2.1		ug/m3			11/28/17 00:57	1
<b>Chloroform</b>	<b>2.8</b>		1.5		ug/m3			11/28/17 00:57	1
Chloromethane	ND		1.7		ug/m3			11/28/17 00:57	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			11/28/17 00:57	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			11/28/17 00:57	1
Dibromochloromethane	ND		3.4		ug/m3			11/28/17 00:57	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			11/28/17 00:57	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			11/28/17 00:57	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			11/28/17 00:57	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			11/28/17 00:57	1
<b>Dichlorodifluoromethane</b>	<b>2.0</b>		2.0		ug/m3			11/28/17 00:57	1
1,1-Dichloroethane	ND		1.2		ug/m3			11/28/17 00:57	1
1,2-Dichloroethane	ND		3.2		ug/m3			11/28/17 00:57	1
1,1-Dichloroethene	ND		3.2		ug/m3			11/28/17 00:57	1
1,2-Dichloropropane	ND		1.8		ug/m3			11/28/17 00:57	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m3			11/28/17 00:57	1
Ethylbenzene	ND		1.7		ug/m3			11/28/17 00:57	1
4-Ethyltoluene	ND		2.0		ug/m3			11/28/17 00:57	1
Hexachlorobutadiene	ND		21		ug/m3			11/28/17 00:57	1
2-Hexanone	ND		1.6		ug/m3			11/28/17 00:57	1
<b>Methylene Chloride</b>	<b>1.5</b>		1.4		ug/m3			11/28/17 00:57	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			11/28/17 00:57	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			11/28/17 00:57	1
m,p-Xylene	ND		3.5		ug/m3			11/28/17 00:57	1
o-Xylene	ND		1.7		ug/m3			11/28/17 00:57	1
Styrene	ND		1.7		ug/m3			11/28/17 00:57	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			11/28/17 00:57	1
<b>Tetrachloroethene</b>	<b>60</b>		2.7		ug/m3			11/28/17 00:57	1
<b>Toluene</b>	<b>4.4</b>		1.5		ug/m3			11/28/17 00:57	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			11/28/17 00:57	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			11/28/17 00:57	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			11/28/17 00:57	1
<b>1,1,1-Trichloroethane</b>	<b>5.1</b>		1.6		ug/m3			11/28/17 00:57	1

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B9-43'**

**Lab Sample ID: 320-33413-17**

**Date Collected: 11/15/17 16:35**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.2		ug/m3			11/28/17 00:57	1
Trichloroethene	ND		2.1		ug/m3			11/28/17 00:57	1
<b>Trichlorofluoromethane</b>	<b>37</b>		2.2		ug/m3			11/28/17 00:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			11/28/17 00:57	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			11/28/17 00:57	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			11/28/17 00:57	1
Vinyl acetate	ND *		2.8		ug/m3			11/28/17 00:57	1
Vinyl chloride	ND		1.0		ug/m3			11/28/17 00:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	111		70 - 130					11/28/17 00:57	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130					11/28/17 00:57	1
Toluene-d8 (Surr)	121		70 - 130					11/28/17 00:57	1

**Client Sample ID: B9-43'-D**

**Lab Sample ID: 320-33413-18**

**Date Collected: 11/15/17 16:35**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>13</b>		12		ug/m3			11/28/17 08:38	1
Benzene	ND		1.3		ug/m3			11/28/17 08:38	1
Benzyl chloride	ND		4.1		ug/m3			11/28/17 08:38	1
Bromodichloromethane	ND		2.0		ug/m3			11/28/17 08:38	1
Bromoform	ND		4.1		ug/m3			11/28/17 08:38	1
Bromomethane	ND		3.1		ug/m3			11/28/17 08:38	1
2-Butanone (MEK)	ND		2.4		ug/m3			11/28/17 08:38	1
<b>Carbon disulfide</b>	<b>41</b>		2.5		ug/m3			11/28/17 08:38	1
Carbon tetrachloride	ND		5.0		ug/m3			11/28/17 08:38	1
Chlorobenzene	ND		1.4		ug/m3			11/28/17 08:38	1
Chloroethane	ND		2.1		ug/m3			11/28/17 08:38	1
<b>Chloroform</b>	<b>3.0</b>		1.5		ug/m3			11/28/17 08:38	1
Chloromethane	ND		1.7		ug/m3			11/28/17 08:38	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			11/28/17 08:38	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			11/28/17 08:38	1
Dibromochloromethane	ND		3.4		ug/m3			11/28/17 08:38	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			11/28/17 08:38	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			11/28/17 08:38	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			11/28/17 08:38	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			11/28/17 08:38	1
Dichlorodifluoromethane	ND		2.0		ug/m3			11/28/17 08:38	1
1,1-Dichloroethane	ND		1.2		ug/m3			11/28/17 08:38	1
1,2-Dichloroethane	ND		3.2		ug/m3			11/28/17 08:38	1
1,1-Dichloroethene	ND		3.2		ug/m3			11/28/17 08:38	1
1,2-Dichloropropane	ND		1.8		ug/m3			11/28/17 08:38	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m3			11/28/17 08:38	1
Ethylbenzene	ND		1.7		ug/m3			11/28/17 08:38	1
4-Ethyltoluene	ND		2.0		ug/m3			11/28/17 08:38	1

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B9-43'-D**

**Lab Sample ID: 320-33413-18**

Date Collected: 11/15/17 16:35

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		21		ug/m3			11/28/17 08:38	1
2-Hexanone	ND		1.6		ug/m3			11/28/17 08:38	1
<b>Methylene Chloride</b>	<b>1.4</b>		1.4		ug/m3			11/28/17 08:38	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			11/28/17 08:38	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			11/28/17 08:38	1
m,p-Xylene	ND		3.5		ug/m3			11/28/17 08:38	1
o-Xylene	ND		1.7		ug/m3			11/28/17 08:38	1
Styrene	ND		1.7		ug/m3			11/28/17 08:38	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			11/28/17 08:38	1
<b>Tetrachloroethene</b>	<b>63</b>		2.7		ug/m3			11/28/17 08:38	1
<b>Toluene</b>	<b>4.3</b>		1.5		ug/m3			11/28/17 08:38	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			11/28/17 08:38	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			11/28/17 08:38	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			11/28/17 08:38	1
<b>1,1,1-Trichloroethane</b>	<b>5.4</b>		1.6		ug/m3			11/28/17 08:38	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			11/28/17 08:38	1
Trichloroethene	ND		2.1		ug/m3			11/28/17 08:38	1
<b>Trichlorofluoromethane</b>	<b>38</b>		2.2		ug/m3			11/28/17 08:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			11/28/17 08:38	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			11/28/17 08:38	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			11/28/17 08:38	1
Vinyl acetate	ND *		2.8		ug/m3			11/28/17 08:38	1
Vinyl chloride	ND		1.0		ug/m3			11/28/17 08:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130		11/28/17 08:38	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		11/28/17 08:38	1
Toluene-d8 (Surr)	120		70 - 130		11/28/17 08:38	1

**Client Sample ID: B9-48'**

**Lab Sample ID: 320-33413-19**

Date Collected: 11/15/17 16:48

Matrix: Air

Date Received: 11/17/17 11:20

Sample Container: Summa Canister 1L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>19</b>		12		ug/m3			11/28/17 09:34	1
Benzene	ND		1.3		ug/m3			11/28/17 09:34	1
Benzyl chloride	ND		4.1		ug/m3			11/28/17 09:34	1
Bromodichloromethane	ND		2.0		ug/m3			11/28/17 09:34	1
Bromoform	ND		4.1		ug/m3			11/28/17 09:34	1
Bromomethane	ND		3.1		ug/m3			11/28/17 09:34	1
2-Butanone (MEK)	ND		2.4		ug/m3			11/28/17 09:34	1
<b>Carbon disulfide</b>	<b>23</b>		2.5		ug/m3			11/28/17 09:34	1
Carbon tetrachloride	ND		5.0		ug/m3			11/28/17 09:34	1
Chlorobenzene	ND		1.4		ug/m3			11/28/17 09:34	1
Chloroethane	ND		2.1		ug/m3			11/28/17 09:34	1
Chloroform	ND		1.5		ug/m3			11/28/17 09:34	1
Chloromethane	ND		1.7		ug/m3			11/28/17 09:34	1

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
 Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B9-48'**

**Lab Sample ID: 320-33413-19**

**Date Collected: 11/15/17 16:48**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6		ug/m3			11/28/17 09:34	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			11/28/17 09:34	1
Dibromochloromethane	ND		3.4		ug/m3			11/28/17 09:34	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			11/28/17 09:34	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			11/28/17 09:34	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			11/28/17 09:34	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			11/28/17 09:34	1
Dichlorodifluoromethane	ND		2.0		ug/m3			11/28/17 09:34	1
1,1-Dichloroethane	ND		1.2		ug/m3			11/28/17 09:34	1
1,2-Dichloroethane	ND		3.2		ug/m3			11/28/17 09:34	1
1,1-Dichloroethene	ND		3.2		ug/m3			11/28/17 09:34	1
1,2-Dichloropropane	ND		1.8		ug/m3			11/28/17 09:34	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m3			11/28/17 09:34	1
Ethylbenzene	ND		1.7		ug/m3			11/28/17 09:34	1
4-Ethyltoluene	ND		2.0		ug/m3			11/28/17 09:34	1
Hexachlorobutadiene	ND		21		ug/m3			11/28/17 09:34	1
2-Hexanone	ND		1.6		ug/m3			11/28/17 09:34	1
<b>Methylene Chloride</b>	<b>1.7</b>		1.4		ug/m3			11/28/17 09:34	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			11/28/17 09:34	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			11/28/17 09:34	1
m,p-Xylene	ND		3.5		ug/m3			11/28/17 09:34	1
o-Xylene	ND		1.7		ug/m3			11/28/17 09:34	1
Styrene	ND		1.7		ug/m3			11/28/17 09:34	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			11/28/17 09:34	1
<b>Tetrachloroethene</b>	<b>48</b>		2.7		ug/m3			11/28/17 09:34	1
<b>Toluene</b>	<b>3.9</b>		1.5		ug/m3			11/28/17 09:34	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			11/28/17 09:34	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			11/28/17 09:34	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			11/28/17 09:34	1
<b>1,1,1-Trichloroethane</b>	<b>5.3</b>		1.6		ug/m3			11/28/17 09:34	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			11/28/17 09:34	1
Trichloroethene	ND		2.1		ug/m3			11/28/17 09:34	1
<b>Trichlorofluoromethane</b>	<b>38</b>		2.2		ug/m3			11/28/17 09:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			11/28/17 09:34	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			11/28/17 09:34	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			11/28/17 09:34	1
Vinyl acetate	ND *		2.8		ug/m3			11/28/17 09:34	1
Vinyl chloride	ND		1.0		ug/m3			11/28/17 09:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130					11/28/17 09:34	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130					11/28/17 09:34	1
Toluene-d8 (Surr)	120		70 - 130					11/28/17 09:34	1

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B9-58'**

**Lab Sample ID: 320-33413-20**

**Date Collected: 11/15/17 16:55**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	19		12		ug/m3			11/29/17 15:52	1
Benzene	2.6		1.3		ug/m3			11/29/17 15:52	1
Benzyl chloride	ND		4.1		ug/m3			11/29/17 15:52	1
Bromodichloromethane	4.2		2.0		ug/m3			11/29/17 15:52	1
Bromoform	ND		4.1		ug/m3			11/29/17 15:52	1
Bromomethane	ND		3.1		ug/m3			11/29/17 15:52	1
2-Butanone (MEK)	3.7		2.4		ug/m3			11/29/17 15:52	1
Carbon disulfide	6.6		2.5		ug/m3			11/29/17 15:52	1
Carbon tetrachloride	ND		5.0		ug/m3			11/29/17 15:52	1
Chlorobenzene	ND		1.4		ug/m3			11/29/17 15:52	1
Chloroethane	ND		2.1		ug/m3			11/29/17 15:52	1
Chloroform	5.7		1.5		ug/m3			11/29/17 15:52	1
Chloromethane	4.3		1.7		ug/m3			11/29/17 15:52	1
cis-1,2-Dichloroethene	2.2		1.6		ug/m3			11/29/17 15:52	1
cis-1,3-Dichloropropene	2.0		1.8		ug/m3			11/29/17 15:52	1
Dibromochloromethane	4.0		3.4		ug/m3			11/29/17 15:52	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			11/29/17 15:52	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			11/29/17 15:52	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			11/29/17 15:52	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			11/29/17 15:52	1
Dichlorodifluoromethane	4.3		2.0		ug/m3			11/29/17 15:52	1
1,1-Dichloroethane	2.3		1.2		ug/m3			11/29/17 15:52	1
1,2-Dichloroethane	ND		3.2		ug/m3			11/29/17 15:52	1
1,1-Dichloroethene	ND		3.2		ug/m3			11/29/17 15:52	1
1,2-Dichloropropane	2.9		1.8		ug/m3			11/29/17 15:52	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.6		2.8		ug/m3			11/29/17 15:52	1
Ethylbenzene	ND		1.7		ug/m3			11/29/17 15:52	1
4-Ethyltoluene	ND		2.0		ug/m3			11/29/17 15:52	1
Hexachlorobutadiene	ND		21		ug/m3			11/29/17 15:52	1
2-Hexanone	ND		1.6		ug/m3			11/29/17 15:52	1
Methylene Chloride	4.5		1.4		ug/m3			11/29/17 15:52	1
4-Methyl-2-pentanone (MIBK)	1.7		1.6		ug/m3			11/29/17 15:52	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			11/29/17 15:52	1
m,p-Xylene	ND		3.5		ug/m3			11/29/17 15:52	1
o-Xylene	ND		1.7		ug/m3			11/29/17 15:52	1
Styrene	ND		1.7		ug/m3			11/29/17 15:52	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			11/29/17 15:52	1
Tetrachloroethene	48		2.7		ug/m3			11/29/17 15:52	1
Toluene	5.1		1.5		ug/m3			11/29/17 15:52	1
trans-1,2-Dichloroethene	2.1		1.6		ug/m3			11/29/17 15:52	1
trans-1,3-Dichloropropene	2.0		1.8		ug/m3			11/29/17 15:52	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			11/29/17 15:52	1
1,1,1-Trichloroethane	5.6		1.6		ug/m3			11/29/17 15:52	1
1,1,2-Trichloroethane	2.8		2.2		ug/m3			11/29/17 15:52	1
Trichloroethene	2.7		2.1		ug/m3			11/29/17 15:52	1
Trichlorofluoromethane	26		2.2		ug/m3			11/29/17 15:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	4.9		3.1		ug/m3			11/29/17 15:52	1

TestAmerica Sacramento

# Client Sample Results

Client: Leighton Group  
 Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B9-58'**

**Lab Sample ID: 320-33413-20**

**Date Collected: 11/15/17 16:55**

**Matrix: Air**

**Date Received: 11/17/17 11:20**

**Sample Container: Summa Canister 1L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			11/29/17 15:52	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			11/29/17 15:52	1
Vinyl acetate	ND		2.8		ug/m3			11/29/17 15:52	1
<b>Vinyl chloride</b>	<b>1.8</b>		1.0		ug/m3			11/29/17 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130					11/29/17 15:52	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130					11/29/17 15:52	1
Toluene-d8 (Surr)	96		70 - 130					11/29/17 15:52	1

# Surrogate Summary

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (70-130)	12DCE (70-130)	TOL (70-130)
320-33413-1	B29-43'	112	109	123
320-33413-2	B29-48'	110	108	123
320-33413-3	B29-58'	109	110	123
320-33413-4	B29-58'-D	109	110	120
320-33413-5	B8-58'	112	110	123
320-33413-6	B2-58'	111	110	121
320-33413-7	B2-63'	112	110	125
320-33413-7 - DL	B2-63'	112	107	123
320-33413-8	B2-73'	112	110	123
320-33413-9	B34-43'	113	110	124
320-33413-9 - RA	B34-43'	89	103	92
320-33413-10	B34-48'	112	111	122
320-33413-11	B34-58'	113	110	122
320-33413-12	B8-43'	112	109	121
320-33413-13	B3-63'	108	110	120
320-33413-14	B3-68'	109	112	121
320-33413-15	B3-84'	111	119	122
320-33413-16	B8-48'	112	110	123
320-33413-17	B9-43'	111	111	121
320-33413-18	B9-43'-D	109	110	120
320-33413-19	B9-48'	106	109	120
320-33413-20	B9-58'	92	101	96
LCS 320-196460/3	Lab Control Sample	115	107	119
LCS 320-196652/3	Lab Control Sample	118	111	122
LCS 320-197228/3	Lab Control Sample	90	101	94
LCSD 320-196460/4	Lab Control Sample Dup	116	108	120
LCSD 320-196652/4	Lab Control Sample Dup	117	111	122
LCSD 320-197228/4	Lab Control Sample Dup	96	101	93
MB 320-196460/6	Method Blank	112	106	120
MB 320-196652/6	Method Blank	113	107	124
MB 320-197228/6	Method Blank	88	101	96

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)



# QC Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 320-196460/6  
Matrix: Air  
Analysis Batch: 196460

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		12		ug/m3			11/24/17 14:25	1
Benzene	ND		1.3		ug/m3			11/24/17 14:25	1
Benzyl chloride	ND		4.1		ug/m3			11/24/17 14:25	1
Bromodichloromethane	ND		2.0		ug/m3			11/24/17 14:25	1
Bromoform	ND		4.1		ug/m3			11/24/17 14:25	1
Bromomethane	ND		3.1		ug/m3			11/24/17 14:25	1
2-Butanone (MEK)	ND		2.4		ug/m3			11/24/17 14:25	1
Carbon disulfide	ND		2.5		ug/m3			11/24/17 14:25	1
Carbon tetrachloride	ND		5.0		ug/m3			11/24/17 14:25	1
Chlorobenzene	ND		1.4		ug/m3			11/24/17 14:25	1
Chloroethane	ND		2.1		ug/m3			11/24/17 14:25	1
Chloroform	ND		1.5		ug/m3			11/24/17 14:25	1
Chloromethane	ND		1.7		ug/m3			11/24/17 14:25	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			11/24/17 14:25	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			11/24/17 14:25	1
Dibromochloromethane	ND		3.4		ug/m3			11/24/17 14:25	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			11/24/17 14:25	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			11/24/17 14:25	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			11/24/17 14:25	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			11/24/17 14:25	1
Dichlorodifluoromethane	ND		2.0		ug/m3			11/24/17 14:25	1
1,1-Dichloroethane	ND		1.2		ug/m3			11/24/17 14:25	1
1,2-Dichloroethane	ND		3.2		ug/m3			11/24/17 14:25	1
1,1-Dichloroethene	ND		3.2		ug/m3			11/24/17 14:25	1
1,2-Dichloropropane	ND		1.8		ug/m3			11/24/17 14:25	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m3			11/24/17 14:25	1
Ethylbenzene	ND		1.7		ug/m3			11/24/17 14:25	1
4-Ethyltoluene	ND		2.0		ug/m3			11/24/17 14:25	1
Hexachlorobutadiene	ND		21		ug/m3			11/24/17 14:25	1
2-Hexanone	ND		1.6		ug/m3			11/24/17 14:25	1
Methylene Chloride	ND		1.4		ug/m3			11/24/17 14:25	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			11/24/17 14:25	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			11/24/17 14:25	1
m,p-Xylene	ND		3.5		ug/m3			11/24/17 14:25	1
o-Xylene	ND		1.7		ug/m3			11/24/17 14:25	1
Styrene	ND		1.7		ug/m3			11/24/17 14:25	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			11/24/17 14:25	1
Tetrachloroethene	ND		2.7		ug/m3			11/24/17 14:25	1
Toluene	ND		1.5		ug/m3			11/24/17 14:25	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			11/24/17 14:25	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			11/24/17 14:25	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			11/24/17 14:25	1
1,1,1-Trichloroethane	ND		1.6		ug/m3			11/24/17 14:25	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			11/24/17 14:25	1
Trichloroethene	ND		2.1		ug/m3			11/24/17 14:25	1
Trichlorofluoromethane	ND		2.2		ug/m3			11/24/17 14:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			11/24/17 14:25	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			11/24/17 14:25	1

TestAmerica Sacramento

# QC Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 320-196460/6**  
**Matrix: Air**  
**Analysis Batch: 196460**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			11/24/17 14:25	1
Vinyl acetate	ND		2.8		ug/m3			11/24/17 14:25	1
Vinyl chloride	ND		1.0		ug/m3			11/24/17 14:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130		11/24/17 14:25	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		11/24/17 14:25	1
Toluene-d8 (Surr)	120		70 - 130		11/24/17 14:25	1

**Lab Sample ID: LCS 320-196460/3**  
**Matrix: Air**  
**Analysis Batch: 196460**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	47.5	52.0		ug/m3		110	65 - 125
Benzene	63.9	65.3		ug/m3		102	68 - 128
Benzyl chloride	82.8	71.4		ug/m3		86	67 - 127
Bromodichloromethane	134	136		ug/m3		102	71 - 131
Bromoform	207	172		ug/m3		83	66 - 126
Bromomethane	77.7	86.1		ug/m3		111	73 - 134
2-Butanone (MEK)	59.0	64.8		ug/m3		110	73 - 133
Carbon disulfide	62.3	67.3		ug/m3		108	71 - 131
Carbon tetrachloride	126	124		ug/m3		98	63 - 126
Chlorobenzene	92.1	74.0		ug/m3		80	63 - 123
Chloroethane	52.8	60.1		ug/m3		114	73 - 133
Chloroform	97.7	104		ug/m3		106	70 - 130
Chloromethane	41.3	43.8		ug/m3		106	61 - 140
cis-1,2-Dichloroethene	79.3	86.2		ug/m3		109	70 - 130
cis-1,3-Dichloropropene	90.8	92.0		ug/m3		101	72 - 132
Dibromochloromethane	170	141		ug/m3		83	66 - 126
1,2-Dibromoethane (EDB)	154	127		ug/m3		83	64 - 124
1,2-Dichlorobenzene	120	97.3		ug/m3		81	62 - 126
1,3-Dichlorobenzene	120	99.8		ug/m3		83	59 - 130
1,4-Dichlorobenzene	120	99.6		ug/m3		83	58 - 132
Dichlorodifluoromethane	98.9	107		ug/m3		108	69 - 129
1,1-Dichloroethane	80.9	88.4		ug/m3		109	71 - 131
1,2-Dichloroethane	80.9	82.1		ug/m3		101	71 - 131
1,1-Dichloroethene	79.3	86.6		ug/m3		109	72 - 132
1,2-Dichloropropane	92.4	95.4		ug/m3		103	72 - 132
1,2-Dichloro-1,1,2,2-tetrafluoroethane	140	152		ug/m3		109	74 - 134
Ethylbenzene	86.8	69.6		ug/m3		80	64 - 124
4-Ethyltoluene	98.3	79.6		ug/m3		81	66 - 129
Hexachlorobutadiene	213	171		ug/m3		80	58 - 131
2-Hexanone	82.0	63.9		ug/m3		78	69 - 129
Methylene Chloride	69.5	77.0		ug/m3		111	67 - 127
4-Methyl-2-pentanone (MIBK)	81.9	78.0		ug/m3		95	74 - 134
Methyl-t-Butyl Ether (MTBE)	72.1	77.5		ug/m3		107	72 - 132

TestAmerica Sacramento

# QC Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 320-196460/3**

**Matrix: Air**

**Analysis Batch: 196460**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m,p-Xylene	174	140		ug/m3		81	65 - 125
o-Xylene	86.8	70.1		ug/m3		81	65 - 125
Styrene	85.2	71.6		ug/m3		84	67 - 127
1,1,2,2-Tetrachloroethane	137	112		ug/m3		82	64 - 124
Tetrachloroethene	136	110		ug/m3		81	63 - 123
Toluene	75.4	74.3		ug/m3		99	68 - 128
trans-1,2-Dichloroethene	79.3	84.9		ug/m3		107	72 - 132
trans-1,3-Dichloropropene	90.8	77.0		ug/m3		85	66 - 126
1,2,4-Trichlorobenzene	148	121		ug/m3		81	58 - 138
1,1,1-Trichloroethane	109	115		ug/m3		106	69 - 129
1,1,2-Trichloroethane	109	90.1		ug/m3		83	64 - 124
Trichloroethene	107	108		ug/m3		101	70 - 130
Trichlorofluoromethane	112	120		ug/m3		107	71 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	153	163		ug/m3		106	70 - 130
1,2,4-Trimethylbenzene	98.3	82.1		ug/m3		84	60 - 132
1,3,5-Trimethylbenzene	98.3	80.8		ug/m3		82	65 - 125
Vinyl acetate	70.4	80.4		ug/m3		114	65 - 134
Vinyl chloride	51.1	56.7		ug/m3		111	59 - 152

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
Toluene-d8 (Surr)	119		70 - 130

**Lab Sample ID: LCSD 320-196460/4**

**Matrix: Air**

**Analysis Batch: 196460**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	47.5	54.2		ug/m3		114	65 - 125	4	25
Benzene	63.9	66.3		ug/m3		104	68 - 128	1	25
Benzyl chloride	82.8	73.3		ug/m3		89	67 - 127	3	25
Bromodichloromethane	134	138		ug/m3		103	71 - 131	2	25
Bromoform	207	176		ug/m3		85	66 - 126	2	25
Bromomethane	77.7	88.6		ug/m3		114	73 - 134	3	25
2-Butanone (MEK)	59.0	66.9		ug/m3		113	73 - 133	3	25
Carbon disulfide	62.3	69.4		ug/m3		111	71 - 131	3	25
Carbon tetrachloride	126	127		ug/m3		101	63 - 126	2	25
Chlorobenzene	92.1	75.5		ug/m3		82	63 - 123	2	25
Chloroethane	52.8	62.0		ug/m3		118	73 - 133	3	25
Chloroform	97.7	107		ug/m3		109	70 - 130	3	25
Chloromethane	41.3	45.3		ug/m3		110	61 - 140	3	25
cis-1,2-Dichloroethene	79.3	88.7		ug/m3		112	70 - 130	3	25
cis-1,3-Dichloropropene	90.8	94.4		ug/m3		104	72 - 132	3	25
Dibromochloromethane	170	143		ug/m3		84	66 - 126	2	25
1,2-Dibromoethane (EDB)	154	128		ug/m3		83	64 - 124	1	25
1,2-Dichlorobenzene	120	99.8		ug/m3		83	62 - 126	2	25

TestAmerica Sacramento

# QC Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCSD 320-196460/4**  
**Matrix: Air**  
**Analysis Batch: 196460**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichlorobenzene	120	101		ug/m3		84	59 - 130	1	25
1,4-Dichlorobenzene	120	102		ug/m3		85	58 - 132	2	25
Dichlorodifluoromethane	98.9	109		ug/m3		110	69 - 129	2	25
1,1-Dichloroethane	80.9	90.6		ug/m3		112	71 - 131	2	25
1,2-Dichloroethane	80.9	84.2		ug/m3		104	71 - 131	2	25
1,1-Dichloroethene	79.3	88.9		ug/m3		112	72 - 132	3	25
1,2-Dichloropropane	92.4	97.0		ug/m3		105	72 - 132	2	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	140	156		ug/m3		111	74 - 134	3	25
Ethylbenzene	86.8	71.4		ug/m3		82	64 - 124	3	25
4-Ethyltoluene	98.3	79.8		ug/m3		81	66 - 129	0	25
Hexachlorobutadiene	213	175		ug/m3		82	58 - 131	2	25
2-Hexanone	82.0	66.0		ug/m3		81	69 - 129	3	25
Methylene Chloride	69.5	79.1		ug/m3		114	67 - 127	3	25
4-Methyl-2-pentanone (MIBK)	81.9	79.9		ug/m3		97	74 - 134	2	25
Methyl-t-Butyl Ether (MTBE)	72.1	79.5		ug/m3		110	72 - 132	3	25
m,p-Xylene	174	144		ug/m3		83	65 - 125	3	25
o-Xylene	86.8	71.9		ug/m3		83	65 - 125	3	25
Styrene	85.2	73.6		ug/m3		86	67 - 127	3	25
1,1,2,2-Tetrachloroethane	137	115		ug/m3		83	64 - 124	2	25
Tetrachloroethene	136	113		ug/m3		83	63 - 123	3	25
Toluene	75.4	76.3		ug/m3		101	68 - 128	3	25
trans-1,2-Dichloroethene	79.3	88.0		ug/m3		111	72 - 132	4	25
trans-1,3-Dichloropropene	90.8	78.0		ug/m3		86	66 - 126	1	25
1,2,4-Trichlorobenzene	148	125		ug/m3		85	58 - 138	4	25
1,1,1-Trichloroethane	109	118		ug/m3		108	69 - 129	2	25
1,1,2-Trichloroethane	109	91.3		ug/m3		84	64 - 124	1	25
Trichloroethene	107	110		ug/m3		102	70 - 130	2	25
Trichlorofluoromethane	112	124		ug/m3		111	71 - 131	3	25
1,1,2-Trichloro-1,2,2-trifluoroethane	153	166		ug/m3		108	70 - 130	2	25
1,2,4-Trimethylbenzene	98.3	76.2		ug/m3		77	60 - 132	8	25
1,3,5-Trimethylbenzene	98.3	80.4		ug/m3		82	65 - 125	1	25
Vinyl acetate	70.4	83.1		ug/m3		118	65 - 134	3	25
Vinyl chloride	51.1	59.0		ug/m3		115	59 - 152	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
Toluene-d8 (Surr)	120		70 - 130

**Lab Sample ID: MB 320-196652/6**  
**Matrix: Air**  
**Analysis Batch: 196652**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		12		ug/m3			11/27/17 15:05	1
Benzene	ND		1.3		ug/m3			11/27/17 15:05	1

TestAmerica Sacramento

# QC Sample Results

Client: Leighton Group  
 Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 320-196652/6**  
**Matrix: Air**  
**Analysis Batch: 196652**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl chloride	ND		4.1		ug/m3			11/27/17 15:05	1
Bromodichloromethane	ND		2.0		ug/m3			11/27/17 15:05	1
Bromoform	ND		4.1		ug/m3			11/27/17 15:05	1
Bromomethane	ND		3.1		ug/m3			11/27/17 15:05	1
2-Butanone (MEK)	ND		2.4		ug/m3			11/27/17 15:05	1
Carbon disulfide	ND		2.5		ug/m3			11/27/17 15:05	1
Carbon tetrachloride	ND		5.0		ug/m3			11/27/17 15:05	1
Chlorobenzene	ND		1.4		ug/m3			11/27/17 15:05	1
Chloroethane	ND		2.1		ug/m3			11/27/17 15:05	1
Chloroform	ND		1.5		ug/m3			11/27/17 15:05	1
Chloromethane	ND		1.7		ug/m3			11/27/17 15:05	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			11/27/17 15:05	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			11/27/17 15:05	1
Dibromochloromethane	ND		3.4		ug/m3			11/27/17 15:05	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			11/27/17 15:05	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			11/27/17 15:05	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			11/27/17 15:05	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			11/27/17 15:05	1
Dichlorodifluoromethane	ND		2.0		ug/m3			11/27/17 15:05	1
1,1-Dichloroethane	ND		1.2		ug/m3			11/27/17 15:05	1
1,2-Dichloroethane	ND		3.2		ug/m3			11/27/17 15:05	1
1,1-Dichloroethene	ND		3.2		ug/m3			11/27/17 15:05	1
1,2-Dichloropropane	ND		1.8		ug/m3			11/27/17 15:05	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m3			11/27/17 15:05	1
Ethylbenzene	ND		1.7		ug/m3			11/27/17 15:05	1
4-Ethyltoluene	ND		2.0		ug/m3			11/27/17 15:05	1
Hexachlorobutadiene	ND		21		ug/m3			11/27/17 15:05	1
2-Hexanone	ND		1.6		ug/m3			11/27/17 15:05	1
Methylene Chloride	ND		1.4		ug/m3			11/27/17 15:05	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			11/27/17 15:05	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			11/27/17 15:05	1
m,p-Xylene	ND		3.5		ug/m3			11/27/17 15:05	1
o-Xylene	ND		1.7		ug/m3			11/27/17 15:05	1
Styrene	ND		1.7		ug/m3			11/27/17 15:05	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			11/27/17 15:05	1
Tetrachloroethene	ND		2.7		ug/m3			11/27/17 15:05	1
Toluene	ND		1.5		ug/m3			11/27/17 15:05	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			11/27/17 15:05	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			11/27/17 15:05	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			11/27/17 15:05	1
1,1,1-Trichloroethane	ND		1.6		ug/m3			11/27/17 15:05	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			11/27/17 15:05	1
Trichloroethene	ND		2.1		ug/m3			11/27/17 15:05	1
Trichlorofluoromethane	ND		2.2		ug/m3			11/27/17 15:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			11/27/17 15:05	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			11/27/17 15:05	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			11/27/17 15:05	1
Vinyl acetate	ND		2.8		ug/m3			11/27/17 15:05	1

TestAmerica Sacramento

# QC Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 320-196652/6**  
**Matrix: Air**  
**Analysis Batch: 196652**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0		ug/m3			11/27/17 15:05	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130					11/27/17 15:05	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130					11/27/17 15:05	1
Toluene-d8 (Surr)	124		70 - 130					11/27/17 15:05	1

**Lab Sample ID: LCS 320-196652/3**  
**Matrix: Air**  
**Analysis Batch: 196652**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	47.5	56.1		ug/m3		118	65 - 125
Benzene	63.9	73.2		ug/m3		115	68 - 128
Benzyl chloride	82.8	80.1		ug/m3		97	67 - 127
Bromodichloromethane	134	154		ug/m3		115	71 - 131
Bromoform	207	191		ug/m3		92	66 - 126
Bromomethane	77.7	94.7		ug/m3		122	73 - 134
2-Butanone (MEK)	59.0	65.6		ug/m3		111	73 - 133
Carbon disulfide	62.3	75.9		ug/m3		122	71 - 131
Carbon tetrachloride	126	144		ug/m3		114	63 - 126
Chlorobenzene	92.1	80.5		ug/m3		87	63 - 123
Chloroethane	52.8	66.3		ug/m3		126	73 - 133
Chloroform	97.7	118		ug/m3		121	70 - 130
Chloromethane	41.3	47.7		ug/m3		115	61 - 140
cis-1,2-Dichloroethene	79.3	99.2		ug/m3		125	70 - 130
cis-1,3-Dichloropropene	90.8	106		ug/m3		117	72 - 132
Dibromochloromethane	170	155		ug/m3		91	66 - 126
1,2-Dibromoethane (EDB)	154	141		ug/m3		92	64 - 124
1,2-Dichlorobenzene	120	107		ug/m3		89	62 - 126
1,3-Dichlorobenzene	120	109		ug/m3		90	59 - 130
1,4-Dichlorobenzene	120	109		ug/m3		90	58 - 132
Dichlorodifluoromethane	98.9	110		ug/m3		111	69 - 129
1,1-Dichloroethane	80.9	99.8		ug/m3		123	71 - 131
1,2-Dichloroethane	80.9	93.1		ug/m3		115	71 - 131
1,1-Dichloroethene	79.3	97.2		ug/m3		123	72 - 132
1,2-Dichloropropane	92.4	106		ug/m3		115	72 - 132
1,2-Dichloro-1,1,2,2-tetrafluoroethane	140	150		ug/m3		107	74 - 134
Ethylbenzene	86.8	77.1		ug/m3		89	64 - 124
4-Ethyltoluene	98.3	89.0		ug/m3		91	66 - 129
Hexachlorobutadiene	213	184		ug/m3		86	58 - 131
2-Hexanone	82.0	74.8		ug/m3		91	69 - 129
Methylene Chloride	69.5	85.8		ug/m3		123	67 - 127
4-Methyl-2-pentanone (MIBK)	81.9	90.5		ug/m3		110	74 - 134
Methyl-t-Butyl Ether (MTBE)	72.1	77.2		ug/m3		107	72 - 132
m,p-Xylene	174	159		ug/m3		91	65 - 125
o-Xylene	86.8	79.5		ug/m3		92	65 - 125

TestAmerica Sacramento

# QC Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 320-196652/3**

**Matrix: Air**

**Analysis Batch: 196652**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	85.2	81.1		ug/m3		95	67 - 127
1,1,2,2-Tetrachloroethane	137	127		ug/m3		93	64 - 124
Tetrachloroethene	136	119		ug/m3		88	63 - 123
Toluene	75.4	82.3		ug/m3		109	68 - 128
trans-1,2-Dichloroethene	79.3	98.5		ug/m3		124	72 - 132
trans-1,3-Dichloropropene	90.8	86.7		ug/m3		96	66 - 126
1,2,4-Trichlorobenzene	148	126		ug/m3		85	58 - 138
1,1,1-Trichloroethane	109	131		ug/m3		120	69 - 129
1,1,2-Trichloroethane	109	97.1		ug/m3		89	64 - 124
Trichloroethene	107	122		ug/m3		114	70 - 130
Trichlorofluoromethane	112	129		ug/m3		115	71 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	153	179		ug/m3		117	70 - 130
1,2,4-Trimethylbenzene	98.3	89.2		ug/m3		91	60 - 132
1,3,5-Trimethylbenzene	98.3	88.4		ug/m3		90	65 - 125
Vinyl acetate	70.4	97.9 *		ug/m3		139	65 - 134
Vinyl chloride	51.1	62.3		ug/m3		122	59 - 152

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
Toluene-d8 (Surr)	122		70 - 130

**Lab Sample ID: LCSD 320-196652/4**

**Matrix: Air**

**Analysis Batch: 196652**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	47.5	56.4		ug/m3		119	65 - 125	1	25
Benzene	63.9	74.7		ug/m3		117	68 - 128	2	25
Benzyl chloride	82.8	83.5		ug/m3		101	67 - 127	4	25
Bromodichloromethane	134	156		ug/m3		117	71 - 131	1	25
Bromoform	207	201		ug/m3		97	66 - 126	5	25
Bromomethane	77.7	94.8		ug/m3		122	73 - 134	0	25
2-Butanone (MEK)	59.0	69.7		ug/m3		118	73 - 133	6	25
Carbon disulfide	62.3	76.0		ug/m3		122	71 - 131	0	25
Carbon tetrachloride	126	146		ug/m3		116	63 - 126	1	25
Chlorobenzene	92.1	84.3		ug/m3		92	63 - 123	5	25
Chloroethane	52.8	66.8		ug/m3		126	73 - 133	1	25
Chloroform	97.7	118		ug/m3		121	70 - 130	0	25
Chloromethane	41.3	48.2		ug/m3		117	61 - 140	1	25
cis-1,2-Dichloroethene	79.3	99.1		ug/m3		125	70 - 130	0	25
cis-1,3-Dichloropropene	90.8	107		ug/m3		118	72 - 132	1	25
Dibromochloromethane	170	160		ug/m3		94	66 - 126	3	25
1,2-Dibromoethane (EDB)	154	146		ug/m3		95	64 - 124	3	25
1,2-Dichlorobenzene	120	111		ug/m3		92	62 - 126	4	25
1,3-Dichlorobenzene	120	113		ug/m3		94	59 - 130	4	25
1,4-Dichlorobenzene	120	114		ug/m3		94	58 - 132	4	25

TestAmerica Sacramento

# QC Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCSD 320-196652/4**

**Matrix: Air**

**Analysis Batch: 196652**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	98.9	118		ug/m3		119	69 - 129	7	25
1,1-Dichloroethane	80.9	99.3		ug/m3		123	71 - 131	0	25
1,2-Dichloroethane	80.9	94.7		ug/m3		117	71 - 131	2	25
1,1-Dichloroethene	79.3	97.6		ug/m3		123	72 - 132	0	25
1,2-Dichloropropane	92.4	110		ug/m3		119	72 - 132	3	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	140	157		ug/m3		113	74 - 134	5	25
Ethylbenzene	86.8	80.8		ug/m3		93	64 - 124	5	25
4-Ethyltoluene	98.3	91.9		ug/m3		93	66 - 129	3	25
Hexachlorobutadiene	213	186		ug/m3		87	58 - 131	1	25
2-Hexanone	82.0	77.0		ug/m3		94	69 - 129	3	25
Methylene Chloride	69.5	85.8		ug/m3		123	67 - 127	0	25
4-Methyl-2-pentanone (MIBK)	81.9	93.5		ug/m3		114	74 - 134	3	25
Methyl-t-Butyl Ether (MTBE)	72.1	82.5		ug/m3		114	72 - 132	7	25
m,p-Xylene	174	165		ug/m3		95	65 - 125	4	25
o-Xylene	86.8	82.8		ug/m3		95	65 - 125	4	25
Styrene	85.2	83.6		ug/m3		98	67 - 127	3	25
1,1,2,2-Tetrachloroethane	137	132		ug/m3		96	64 - 124	4	25
Tetrachloroethene	136	124		ug/m3		91	63 - 123	4	25
Toluene	75.4	84.7		ug/m3		112	68 - 128	3	25
trans-1,2-Dichloroethene	79.3	97.5		ug/m3		123	72 - 132	1	25
trans-1,3-Dichloropropene	90.8	89.3		ug/m3		98	66 - 126	3	25
1,2,4-Trichlorobenzene	148	128		ug/m3		86	58 - 138	1	25
1,1,1-Trichloroethane	109	130		ug/m3		119	69 - 129	0	25
1,1,2-Trichloroethane	109	102		ug/m3		93	64 - 124	4	25
Trichloroethene	107	125		ug/m3		116	70 - 130	2	25
Trichlorofluoromethane	112	130		ug/m3		116	71 - 131	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane	153	179		ug/m3		117	70 - 130	0	25
1,2,4-Trimethylbenzene	98.3	93.6		ug/m3		95	60 - 132	5	25
1,3,5-Trimethylbenzene	98.3	91.5		ug/m3		93	65 - 125	3	25
Vinyl acetate	70.4	98.2 *		ug/m3		140	65 - 134	0	25
Vinyl chloride	51.1	63.5		ug/m3		124	59 - 152	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
Toluene-d8 (Surr)	122		70 - 130

**Lab Sample ID: MB 320-197228/6**

**Matrix: Air**

**Analysis Batch: 197228**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		12		ug/m3			11/29/17 14:55	1
Benzene	ND		1.3		ug/m3			11/29/17 14:55	1
Benzyl chloride	ND		4.1		ug/m3			11/29/17 14:55	1
Bromodichloromethane	ND		2.0		ug/m3			11/29/17 14:55	1

TestAmerica Sacramento



# QC Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 320-197228/6**

**Matrix: Air**

**Analysis Batch: 197228**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		4.1		ug/m3			11/29/17 14:55	1
Bromomethane	ND		3.1		ug/m3			11/29/17 14:55	1
2-Butanone (MEK)	ND		2.4		ug/m3			11/29/17 14:55	1
Carbon disulfide	ND		2.5		ug/m3			11/29/17 14:55	1
Carbon tetrachloride	ND		5.0		ug/m3			11/29/17 14:55	1
Chlorobenzene	ND		1.4		ug/m3			11/29/17 14:55	1
Chloroethane	ND		2.1		ug/m3			11/29/17 14:55	1
Chloroform	ND		1.5		ug/m3			11/29/17 14:55	1
Chloromethane	ND		1.7		ug/m3			11/29/17 14:55	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			11/29/17 14:55	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			11/29/17 14:55	1
Dibromochloromethane	ND		3.4		ug/m3			11/29/17 14:55	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			11/29/17 14:55	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			11/29/17 14:55	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			11/29/17 14:55	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			11/29/17 14:55	1
Dichlorodifluoromethane	ND		2.0		ug/m3			11/29/17 14:55	1
1,1-Dichloroethane	ND		1.2		ug/m3			11/29/17 14:55	1
1,2-Dichloroethane	ND		3.2		ug/m3			11/29/17 14:55	1
1,1-Dichloroethene	ND		3.2		ug/m3			11/29/17 14:55	1
1,2-Dichloropropane	ND		1.8		ug/m3			11/29/17 14:55	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m3			11/29/17 14:55	1
Ethylbenzene	ND		1.7		ug/m3			11/29/17 14:55	1
4-Ethyltoluene	ND		2.0		ug/m3			11/29/17 14:55	1
Hexachlorobutadiene	ND		21		ug/m3			11/29/17 14:55	1
2-Hexanone	ND		1.6		ug/m3			11/29/17 14:55	1
Methylene Chloride	ND		1.4		ug/m3			11/29/17 14:55	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			11/29/17 14:55	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			11/29/17 14:55	1
m,p-Xylene	ND		3.5		ug/m3			11/29/17 14:55	1
o-Xylene	ND		1.7		ug/m3			11/29/17 14:55	1
Styrene	ND		1.7		ug/m3			11/29/17 14:55	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			11/29/17 14:55	1
Tetrachloroethene	ND		2.7		ug/m3			11/29/17 14:55	1
Toluene	ND		1.5		ug/m3			11/29/17 14:55	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			11/29/17 14:55	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			11/29/17 14:55	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			11/29/17 14:55	1
1,1,1-Trichloroethane	ND		1.6		ug/m3			11/29/17 14:55	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			11/29/17 14:55	1
Trichloroethene	ND		2.1		ug/m3			11/29/17 14:55	1
Trichlorofluoromethane	ND		2.2		ug/m3			11/29/17 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			11/29/17 14:55	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			11/29/17 14:55	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			11/29/17 14:55	1
Vinyl acetate	ND		2.8		ug/m3			11/29/17 14:55	1
Vinyl chloride	ND		1.0		ug/m3			11/29/17 14:55	1

TestAmerica Sacramento

# QC Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 320-197228/6**  
**Matrix: Air**  
**Analysis Batch: 197228**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

<i>Surrogate</i>	<i>MB</i> <i>%Recovery</i>	<i>MB</i> <i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	88		70 - 130		11/29/17 14:55	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		11/29/17 14:55	1
Toluene-d8 (Surr)	96		70 - 130		11/29/17 14:55	1

**Lab Sample ID: LCS 320-197228/3**  
**Matrix: Air**  
**Analysis Batch: 197228**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

<i>Analyte</i>	<i>Spike</i> <i>Added</i>	<i>LCS</i> <i>Result</i>	<i>LCS</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>
Acetone	47.5	47.8		ug/m3		101	65 - 125
Benzene	63.9	62.6		ug/m3		98	68 - 128
Benzyl chloride	82.8	92.5		ug/m3		112	67 - 127
Bromodichloromethane	134	133		ug/m3		99	71 - 131
Bromoform	207	220		ug/m3		106	66 - 126
Bromomethane	77.7	75.6		ug/m3		97	73 - 134
2-Butanone (MEK)	59.0	59.4		ug/m3		101	73 - 133
Carbon disulfide	62.3	61.1		ug/m3		98	71 - 131
Carbon tetrachloride	126	123		ug/m3		98	63 - 126
Chlorobenzene	92.1	94.7		ug/m3		103	63 - 123
Chloroethane	52.8	53.4		ug/m3		101	73 - 133
Chloroform	97.7	94.7		ug/m3		97	70 - 130
Chloromethane	41.3	39.2		ug/m3		95	61 - 140
cis-1,2-Dichloroethene	79.3	78.4		ug/m3		99	70 - 130
cis-1,3-Dichloropropene	90.8	91.6		ug/m3		101	72 - 132
Dibromochloromethane	170	181		ug/m3		106	66 - 126
1,2-Dibromoethane (EDB)	154	163		ug/m3		106	64 - 124
1,2-Dichlorobenzene	120	122		ug/m3		101	62 - 126
1,3-Dichlorobenzene	120	124		ug/m3		103	59 - 130
1,4-Dichlorobenzene	120	124		ug/m3		103	58 - 132
Dichlorodifluoromethane	98.9	96.4		ug/m3		98	69 - 129
1,1-Dichloroethane	80.9	79.2		ug/m3		98	71 - 131
1,2-Dichloroethane	80.9	80.9		ug/m3		100	71 - 131
1,1-Dichloroethene	79.3	78.1		ug/m3		98	72 - 132
1,2-Dichloropropane	92.4	92.7		ug/m3		100	72 - 132
1,2-Dichloro-1,1,2,2-tetrafluoroethane	140	131		ug/m3		94	74 - 134
Ethylbenzene	86.8	89.9		ug/m3		103	64 - 124
4-Ethyltoluene	98.3	101		ug/m3		103	66 - 129
Hexachlorobutadiene	213	200		ug/m3		94	58 - 131
2-Hexanone	82.0	84.6		ug/m3		103	69 - 129
Methylene Chloride	69.5	68.9		ug/m3		99	67 - 127
4-Methyl-2-pentanone (MIBK)	81.9	80.4		ug/m3		98	74 - 134
Methyl-t-Butyl Ether (MTBE)	72.1	69.7		ug/m3		97	72 - 132
m,p-Xylene	174	181		ug/m3		104	65 - 125
o-Xylene	86.8	90.6		ug/m3		104	65 - 125
Styrene	85.2	90.6		ug/m3		106	67 - 127
1,1,2,2-Tetrachloroethane	137	145		ug/m3		105	64 - 124
Tetrachloroethene	136	138		ug/m3		101	63 - 123

TestAmerica Sacramento

# QC Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 320-197228/3**

**Matrix: Air**

**Analysis Batch: 197228**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	75.4	72.7		ug/m3		96	68 - 128
trans-1,2-Dichloroethene	79.3	78.3		ug/m3		99	72 - 132
trans-1,3-Dichloropropene	90.8	99.7		ug/m3		110	66 - 126
1,2,4-Trichlorobenzene	148	138		ug/m3		93	58 - 138
1,1,1-Trichloroethane	109	105		ug/m3		96	69 - 129
1,1,2-Trichloroethane	109	115		ug/m3		106	64 - 124
Trichloroethene	107	103		ug/m3		96	70 - 130
Trichlorofluoromethane	112	107		ug/m3		95	71 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	153	145		ug/m3		95	70 - 130
1,2,4-Trimethylbenzene	98.3	103		ug/m3		105	60 - 132
1,3,5-Trimethylbenzene	98.3	101		ug/m3		103	65 - 125
Vinyl acetate	70.4	80.2		ug/m3		114	65 - 134
Vinyl chloride	51.1	50.4		ug/m3		99	59 - 152

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	94		70 - 130

**Lab Sample ID: LCSD 320-197228/4**

**Matrix: Air**

**Analysis Batch: 197228**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	47.5	47.4		ug/m3		100	65 - 125	1	25
Benzene	63.9	63.1		ug/m3		99	68 - 128	1	25
Benzyl chloride	82.8	93.1		ug/m3		112	67 - 127	1	25
Bromodichloromethane	134	133		ug/m3		99	71 - 131	0	25
Bromoform	207	226		ug/m3		109	66 - 126	3	25
Bromomethane	77.7	75.5		ug/m3		97	73 - 134	0	25
2-Butanone (MEK)	59.0	59.5		ug/m3		101	73 - 133	0	25
Carbon disulfide	62.3	61.4		ug/m3		99	71 - 131	0	25
Carbon tetrachloride	126	124		ug/m3		98	63 - 126	1	25
Chlorobenzene	92.1	96.7		ug/m3		105	63 - 123	2	25
Chloroethane	52.8	52.6		ug/m3		100	73 - 133	2	25
Chloroform	97.7	94.7		ug/m3		97	70 - 130	0	25
Chloromethane	41.3	39.2		ug/m3		95	61 - 140	0	25
cis-1,2-Dichloroethene	79.3	79.6		ug/m3		100	70 - 130	2	25
cis-1,3-Dichloropropene	90.8	91.1		ug/m3		100	72 - 132	0	25
Dibromochloromethane	170	185		ug/m3		109	66 - 126	2	25
1,2-Dibromoethane (EDB)	154	166		ug/m3		108	64 - 124	2	25
1,2-Dichlorobenzene	120	123		ug/m3		102	62 - 126	1	25
1,3-Dichlorobenzene	120	127		ug/m3		105	59 - 130	2	25
1,4-Dichlorobenzene	120	127		ug/m3		105	58 - 132	2	25
Dichlorodifluoromethane	98.9	96.3		ug/m3		97	69 - 129	0	25
1,1-Dichloroethane	80.9	80.0		ug/m3		99	71 - 131	1	25
1,2-Dichloroethane	80.9	80.8		ug/m3		100	71 - 131	0	25

TestAmerica Sacramento

# QC Sample Results

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 320-197228/4

Client Sample ID: Lab Control Sample Dup

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 197228

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	79.3	78.7		ug/m3		99	72 - 132	1	25
1,2-Dichloropropane	92.4	92.8		ug/m3		100	72 - 132	0	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	140	134		ug/m3		96	74 - 134	2	25
Ethylbenzene	86.8	92.3		ug/m3		106	64 - 124	3	25
4-Ethyltoluene	98.3	102		ug/m3		104	66 - 129	1	25
Hexachlorobutadiene	213	204		ug/m3		96	58 - 131	2	25
2-Hexanone	82.0	86.7		ug/m3		106	69 - 129	3	25
Methylene Chloride	69.5	69.7		ug/m3		100	67 - 127	1	25
4-Methyl-2-pentanone (MIBK)	81.9	80.1		ug/m3		98	74 - 134	0	25
Methyl-t-Butyl Ether (MTBE)	72.1	70.0		ug/m3		97	72 - 132	1	25
m,p-Xylene	174	186		ug/m3		107	65 - 125	3	25
o-Xylene	86.8	93.4		ug/m3		107	65 - 125	3	25
Styrene	85.2	93.8		ug/m3		110	67 - 127	4	25
1,1,2,2-Tetrachloroethane	137	148		ug/m3		108	64 - 124	2	25
Tetrachloroethene	136	142		ug/m3		105	63 - 123	3	25
Toluene	75.4	73.7		ug/m3		98	68 - 128	1	25
trans-1,2-Dichloroethene	79.3	79.3		ug/m3		100	72 - 132	1	25
trans-1,3-Dichloropropene	90.8	102		ug/m3		112	66 - 126	2	25
1,2,4-Trichlorobenzene	148	139		ug/m3		94	58 - 138	1	25
1,1,1-Trichloroethane	109	106		ug/m3		97	69 - 129	1	25
1,1,2-Trichloroethane	109	118		ug/m3		108	64 - 124	2	25
Trichloroethene	107	105		ug/m3		97	70 - 130	1	25
Trichlorofluoromethane	112	107		ug/m3		95	71 - 131	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane	153	147		ug/m3		96	70 - 130	1	25
1,2,4-Trimethylbenzene	98.3	105		ug/m3		107	60 - 132	2	25
1,3,5-Trimethylbenzene	98.3	103		ug/m3		105	65 - 125	1	25
Vinyl acetate	70.4	80.7		ug/m3		115	65 - 134	1	25
Vinyl chloride	51.1	50.8		ug/m3		99	59 - 152	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	93		70 - 130

# QC Association Summary

Client: Leighton Group  
 Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Air - GC/MS VOA

### Analysis Batch: 196460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-33413-1	B29-43'	Total/NA	Air	TO-15	
320-33413-2	B29-48'	Total/NA	Air	TO-15	
320-33413-3	B29-58'	Total/NA	Air	TO-15	
320-33413-4	B29-58'-D	Total/NA	Air	TO-15	
320-33413-5	B8-58'	Total/NA	Air	TO-15	
320-33413-6	B2-58'	Total/NA	Air	TO-15	
320-33413-7	B2-63'	Total/NA	Air	TO-15	
MB 320-196460/6	Method Blank	Total/NA	Air	TO-15	
LCS 320-196460/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 320-196460/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

### Analysis Batch: 196652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-33413-7 - DL	B2-63'	Total/NA	Air	TO-15	
320-33413-8	B2-73'	Total/NA	Air	TO-15	
320-33413-9	B34-43'	Total/NA	Air	TO-15	
320-33413-10	B34-48'	Total/NA	Air	TO-15	
320-33413-11	B34-58'	Total/NA	Air	TO-15	
320-33413-12	B8-43'	Total/NA	Air	TO-15	
320-33413-13	B3-63'	Total/NA	Air	TO-15	
320-33413-14	B3-68'	Total/NA	Air	TO-15	
320-33413-15	B3-84'	Total/NA	Air	TO-15	
320-33413-16	B8-48'	Total/NA	Air	TO-15	
320-33413-17	B9-43'	Total/NA	Air	TO-15	
320-33413-18	B9-43'-D	Total/NA	Air	TO-15	
320-33413-19	B9-48'	Total/NA	Air	TO-15	
MB 320-196652/6	Method Blank	Total/NA	Air	TO-15	
LCS 320-196652/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 320-196652/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

### Analysis Batch: 197228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-33413-9 - RA	B34-43'	Total/NA	Air	TO-15	
320-33413-20	B9-58'	Total/NA	Air	TO-15	
MB 320-197228/6	Method Blank	Total/NA	Air	TO-15	
LCS 320-197228/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 320-197228/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

# Lab Chronicle

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B29-43'**

**Date Collected: 11/09/17 16:15**

**Date Received: 11/17/17 11:20**

**Lab Sample ID: 320-33413-1**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		21.9	20 mL	250 mL	196460	11/24/17 16:11	SRV	TAL SAC

**Client Sample ID: B29-48'**

**Date Collected: 11/09/17 16:23**

**Date Received: 11/17/17 11:20**

**Lab Sample ID: 320-33413-2**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		18.9	25 mL	250 mL	196460	11/24/17 17:03	SRV	TAL SAC

**Client Sample ID: B29-58'**

**Date Collected: 11/09/17 16:33**

**Date Received: 11/17/17 11:20**

**Lab Sample ID: 320-33413-3**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		22.8	20 mL	250 mL	196460	11/24/17 17:55	SRV	TAL SAC

**Client Sample ID: B29-58'-D**

**Date Collected: 11/09/17 16:33**

**Date Received: 11/17/17 11:20**

**Lab Sample ID: 320-33413-4**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		25.9	20 mL	250 mL	196460	11/24/17 18:46	SRV	TAL SAC

**Client Sample ID: B8-58'**

**Date Collected: 11/09/17 17:25**

**Date Received: 11/17/17 11:20**

**Lab Sample ID: 320-33413-5**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	485 mL	250 mL	196460	11/24/17 19:43	SRV	TAL SAC

**Client Sample ID: B2-58'**

**Date Collected: 11/13/17 15:18**

**Date Received: 11/17/17 11:20**

**Lab Sample ID: 320-33413-6**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		6.58	75 mL	250 mL	196460	11/24/17 20:34	SRV	TAL SAC

TestAmerica Sacramento

# Lab Chronicle

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Client Sample ID: B2-63'

Date Collected: 11/13/17 15:24  
Date Received: 11/17/17 11:20

## Lab Sample ID: 320-33413-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	513 mL	250 mL	196460	11/24/17 21:32	SRV	TAL SAC
Total/NA	Analysis	TO-15	DL	5.97	86 mL	250 mL	196652	11/27/17 15:57	HL1	TAL SAC

## Client Sample ID: B2-73'

Date Collected: 11/13/17 15:34  
Date Received: 11/17/17 11:20

## Lab Sample ID: 320-33413-8

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2.44	200 mL	250 mL	196652	11/27/17 16:49	HL1	TAL SAC

## Client Sample ID: B34-43'

Date Collected: 11/13/17 16:46  
Date Received: 11/17/17 11:20

## Lab Sample ID: 320-33413-9

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2.18	213 mL	250 mL	196652	11/27/17 17:42	HL1	TAL SAC
Total/NA	Analysis	TO-15	RA	2.18	283 mL	250 mL	197228	11/30/17 04:11	HL1	TAL SAC

## Client Sample ID: B34-48'

Date Collected: 11/13/17 16:52  
Date Received: 11/17/17 11:20

## Lab Sample ID: 320-33413-10

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	483 mL	250 mL	196652	11/27/17 18:39	HL1	TAL SAC

## Client Sample ID: B34-58'

Date Collected: 11/13/17 17:01  
Date Received: 11/17/17 11:20

## Lab Sample ID: 320-33413-11

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	468 mL	250 mL	196652	11/27/17 19:34	HL1	TAL SAC

## Client Sample ID: B8-43'

Date Collected: 11/14/17 11:27  
Date Received: 11/17/17 11:20

## Lab Sample ID: 320-33413-12

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	466 mL	250 mL	196652	11/27/17 20:30	HL1	TAL SAC

TestAmerica Sacramento

# Lab Chronicle

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B3-63'**

**Date Collected: 11/14/17 13:04**

**Date Received: 11/17/17 11:20**

**Lab Sample ID: 320-33413-13**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		8.24	58 mL	250 mL	196652	11/27/17 21:22	HL1	TAL SAC

**Client Sample ID: B3-68'**

**Date Collected: 11/14/17 13:14**

**Date Received: 11/17/17 11:20**

**Lab Sample ID: 320-33413-14**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2.22	208 mL	250 mL	196652	11/27/17 22:14	HL1	TAL SAC

**Client Sample ID: B3-84'**

**Date Collected: 11/14/17 13:22**

**Date Received: 11/17/17 11:20**

**Lab Sample ID: 320-33413-15**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		22.1	20 mL	250 mL	196652	11/27/17 23:05	HL1	TAL SAC

**Client Sample ID: B8-48'**

**Date Collected: 11/15/17 15:22**

**Date Received: 11/17/17 11:20**

**Lab Sample ID: 320-33413-16**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	505 mL	250 mL	196652	11/28/17 00:01	HL1	TAL SAC

**Client Sample ID: B9-43'**

**Date Collected: 11/15/17 16:35**

**Date Received: 11/17/17 11:20**

**Lab Sample ID: 320-33413-17**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	452 mL	250 mL	196652	11/28/17 00:57	HL1	TAL SAC

**Client Sample ID: B9-43'-D**

**Date Collected: 11/15/17 16:35**

**Date Received: 11/17/17 11:20**

**Lab Sample ID: 320-33413-18**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	460 mL	250 mL	196652	11/28/17 08:38	HL1	TAL SAC

TestAmerica Sacramento



# Lab Chronicle

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

**Client Sample ID: B9-48'**

**Date Collected: 11/15/17 16:48**

**Date Received: 11/17/17 11:20**

**Lab Sample ID: 320-33413-19**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	483 mL	250 mL	196652	11/28/17 09:34	HL1	TAL SAC

**Client Sample ID: B9-58'**

**Date Collected: 11/15/17 16:55**

**Date Received: 11/17/17 11:20**

**Lab Sample ID: 320-33413-20**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	475 mL	250 mL	197228	11/29/17 15:52	HL1	TAL SAC

**Laboratory References:**

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Accreditation/Certification Summary

Client: Leighton Group  
 Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

## Laboratory: TestAmerica Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	UST-055	12-18-17
Arizona	State Program	9	AZ0708	08-11-18
Arkansas DEQ	State Program	6	88-0691	06-17-18
California	State Program	9	2897	01-31-18
Colorado	State Program	8	CA00044	08-31-18
Connecticut	State Program	1	PH-0691	06-30-19
Florida	NELAP	4	E87570	06-30-18
Georgia	State Program	4	N/A	01-28-19
Hawaii	State Program	9	N/A	01-29-18
Illinois	NELAP	5	200060	03-17-18
Kansas	NELAP	7	E-10375	12-31-17
L-A-B	DoD ELAP		L2468	01-20-18
Louisiana	NELAP	6	30612	06-30-18
Maine	State Program	1	CA0004	04-18-18
Michigan	State Program	5	9947	01-31-18
Nevada	State Program	9	CA00044	07-31-18
New Hampshire	NELAP	1	2997	04-18-18
New Jersey	NELAP	2	CA005	06-30-18
New York	NELAP	2	11666	04-01-18
Oregon	NELAP	10	4040	01-28-18
Pennsylvania	NELAP	3	68-01272	03-31-18
Texas	NELAP	6	T104704399	05-31-18
US Fish & Wildlife	Federal		LE148388-0	07-31-18
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-18
Utah	NELAP	8	CA00044	02-28-18
Virginia	NELAP	3	460278	03-14-18
Washington	State Program	10	C581	05-05-18
West Virginia (DW)	State Program	3	9930C	12-31-17
Wyoming	State Program	8	8TMS-L	01-28-19

# Method Summary

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

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Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL SAC

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**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

- 1
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# Sample Summary

Client: Leighton Group  
Project/Site: 6AM Soil Gas Survey

TestAmerica Job ID: 320-33413-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-33413-1	B29-43'	Air	11/09/17 16:15	11/17/17 11:20
320-33413-2	B29-48'	Air	11/09/17 16:23	11/17/17 11:20
320-33413-3	B29-58'	Air	11/09/17 16:33	11/17/17 11:20
320-33413-4	B29-58'-D	Air	11/09/17 16:33	11/17/17 11:20
320-33413-5	B8-58'	Air	11/09/17 17:25	11/17/17 11:20
320-33413-6	B2-58'	Air	11/13/17 15:18	11/17/17 11:20
320-33413-7	B2-63'	Air	11/13/17 15:24	11/17/17 11:20
320-33413-8	B2-73'	Air	11/13/17 15:34	11/17/17 11:20
320-33413-9	B34-43'	Air	11/13/17 16:46	11/17/17 11:20
320-33413-10	B34-48'	Air	11/13/17 16:52	11/17/17 11:20
320-33413-11	B34-58'	Air	11/13/17 17:01	11/17/17 11:20
320-33413-12	B8-43'	Air	11/14/17 11:27	11/17/17 11:20
320-33413-13	B3-63'	Air	11/14/17 13:04	11/17/17 11:20
320-33413-14	B3-68'	Air	11/14/17 13:14	11/17/17 11:20
320-33413-15	B3-84'	Air	11/14/17 13:22	11/17/17 11:20
320-33413-16	B8-48'	Air	11/15/17 15:22	11/17/17 11:20
320-33413-17	B9-43'	Air	11/15/17 16:35	11/17/17 11:20
320-33413-18	B9-43'-D	Air	11/15/17 16:35	11/17/17 11:20
320-33413-19	B9-48'	Air	11/15/17 16:48	11/17/17 11:20
320-33413-20	B9-58'	Air	11/15/17 16:55	11/17/17 11:20

CONFIDENTIAL

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Sacramento  
880 Riverside Parkway

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

West Sacramento, CA 95605  
phone 916.374.4378 fax 916.372.1059

TestAmerica Laboratories, Inc.

Client Contact Information		Project Manager: <i>Wallace Somers, LTA</i>		Samples Collected By: <i>Wallace Somers</i>		COC No: <u>1</u> of <u>2</u> COCs	
Company Name: <i>Latham + Watkins LLP</i>		Phone: <i>415-705-3324</i>				For Lab Use Only: Walk-in Client: <input type="checkbox"/> Lab Sampling: <input type="checkbox"/>	
Address: <i>USO Tower Center Drive, 20th floor</i>		Email: <i>WSOMERS@leightongroup.com</i>				Job / SDG No.: <input type="text"/>	
City/State/Zip: <i>Costa Mesa, CA 92626</i>		DON'T email results to →				(See below for Add'l Items)	
Phone: <i>1(714)755-8243</i>		Site Contact: <i>Mr. Wallace Somers</i>					
FAX: <i>-</i>		TA Contact: <i>Ms. Lee Ann Heathcote</i>					
Project Name: <i>UAM Soil Gas Survey</i>		Analysis Turnaround Time					
Site/Location: <i>Elm St. + S. Alameda, DTLA</i>		Standard (Specific): <input checked="" type="checkbox"/>					
P.O.#: <i>MT23.001</i>		Rush (Specify): <input type="checkbox"/>					

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, 'Hg (Start)'	Canister Vacuum in Field, 'Hg (Stop)'	Flow Controller ID	Canister ID	TO-15 (Med/Std/Low/SIM)	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1946 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:		
																							B29-43'	11-9-17
B29-48'	11	16:16	16:23	-30	-1	7241	3400 2005	X																
B29-58'	11	16:25	16:33	-30	-2	7095	3400 0806	X																
B29-58'-D	11	16:25	16:33	-30	-4	7475	3400 1664	X																
B8-58'	11	17:19	17:25	-29	-2	7738	3400 1051	X																
B2-58'	11-13-17	15:12	15:18	-30	-3	7771	3400 1133	X																
B2-63'	11	15:17	15:24	-30	-3	8475	3400 0662	X																
B2-73'	11	15:26	15:34	-30	-1	8470	3400 1203	X																
B34-43'	11	16:39	16:46	-30	-2	7687	3400 0753	X																
B34-48'	11	16:46	16:52	-30	-3	7772	8502	X																



320-33413 Chain of Custody

Temperature (Fahrenheit)			Privileged + confidential; attorney work product
Start	Interior	Ambient	
Stop			
Temperature (Fahrenheit)			Privileged + confidential; attorney work product
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:  
\* Please send analytical results to ONLY to Mr. Garrett Jansma (Garrett.Jansma@lw.com) and Mr. Paul Singarella (Paul.Singarella@lw.com).

Samples Shipped by: <i>Golden Gate Overmagnon behalf of Leighton King Associates</i>	Date / Time: <i>11-16-17, 1700</i>	Samples Received by:
Samples Relinquished by: <i>Wallace Somers</i>	Date / Time: <i>11-16-17, 1700</i>	Received by: <i>Gabriela Tliev 11/17/17 11:20am TAWS</i>
Relinquished by:	Date / Time:	Received by:
Lab Use Only: Shipper Name:	Opened by:	Condition:

Page 58 of 86

12/7/2017 (Rev. 1)



TestAmerica Sacramento  
880 Riverside Parkway

### Canister Samples Chain of Custody Record

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento, CA 95605  
phone 916.374.4378 fax 916.372.1059

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica Laboratories, Inc.

Client Contact Information		Project Manager: <u>Wallace Sommers, LTA</u>		Samples Collected By: <u>Wallace Sommers</u>										COC No: <u>2</u> of <u>2</u> COCs																													
Company Name: <u>Latham + Watkins LLP</u>		Phone: <u>661-705-9324</u>		<table border="1"> <tr><td>TO-15 (Med / Std) / Low / SIM</td><td>MA-APH</td><td>EPA 3C</td><td>EPA 25C / 25.3</td><td>ASTM D-1946 / 1946 / 3588</td><td>EPA 15/16</td><td>TO-3</td><td>Other (Please specify in notes section)</td><td>Sample Type</td><td>Indoor Air</td><td>Ambient Air</td><td>Soil Gas</td><td>Landfill Gas</td><td>Other (Please specify in notes section)</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>										TO-15 (Med / Std) / Low / SIM	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1946 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)															For Lab Use Only: Walk-in Client: <input type="checkbox"/> Lab Sampling: <input type="checkbox"/>	
TO-15 (Med / Std) / Low / SIM	MA-APH	EPA 3C	EPA 25C / 25.3											ASTM D-1946 / 1946 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)																				
Address: <u>150 Town Center Drive, 20th Floor</u>		Email: <u>wsomers@leightongroup.com</u>												DO NOT email results to <u>TA</u>		Job / SDG No.: (See below for Add'l Items)																											
City/State/Zip: <u>Costa Mesa, CA 92626</u>		Site Contact: <u>Mr. Wallace Sommers</u>												TA Contact: <u>Ms. LeAnn Heathcote</u>																													
Phone: <u>1414 755-8243</u>		Project Name: <u>UAM Soil Gas Survey</u>		Analysis Turnaround Time																																							
FAX: <u>-</u>		Site/Location: <u>E. 6th St. + S. Alameda, DTLA</u>		Standard (Specific): <input checked="" type="checkbox"/>																																							
PO # <u>11723.001</u>		Rush (Specify):																																									
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, 'Hg (Start)'	Canister Vacuum in Field, 'Hg (Stop)'	Flow Controller ID	Canister ID	TO-15 (Med / Std) / Low / SIM	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1946 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:																					
B34-58'	11-13-17	1654	1701	-29	-2	7773	3400 1046	X																																			
B8-43'	11-14-17	1120	1127	-28	-2	7235	3400 0238	X																																			
B3-63'	"	1257	1304	-30	-3	7471	3400 1046	X																																			
B3-68'	"	1306	1314	-30	-2	7486	3400 0670	X																																			
B3-84'	"	1315	1322	-30	-2	7170	3400 1229	X																																			
B8-48'	11-15-17	1515	1522	-30	-2	8476	7565	X																																			
B9-43'	"	1629	1635	-30	-1	8662	8517	X																																			
B9-43'-D	"	1629	1635	-30	-1	8473	3400 1000	X																																			
B9-48'	"	1639	1648	-30	-2	8592	3400 0731	X																																			
B9-58'	"	1649	1655	-25	-2	7133	3400 1243	X																																			
		Temperature (Fahrenheit)		Privileged + confidential; attorney work product																																							
		Start	Interior																			Ambient																					
		Stop																																									
		Temperature (Fahrenheit)		Privileged + confidential; attorney work product																																							
		Start	Interior																			Ambient																					
		Stop																																									
Special Instructions/QC Requirements & Comments:																																											
*Please send analytical results ONLY to Mr. Garrett Jansma (Garrett.Jansma@tw.com) and Mr. Paul Singarella (Paul.Singarella@tw.com).																																											
Samples Shipped by: <u>Golden Stak Overnight on behalf of Leguina and Associates</u>		Date / Time: <u>11-16-17, 1700</u>		Samples Received by:																																							
Samples Relinquished by: <u>Wallace Sommers</u>		Date / Time: <u>11-16-17, 1700</u>		Received by: <u>Gabriele Terev 11/17/17 11:20am TA WS</u>																																							
Relinquished by:		Date / Time:		Received by:																																							
Lab Use Only:		Shipper Name:		Opened by:		Condition:																																					



# Login Sample Receipt Checklist

Client: Leighton Group

Job Number: 320-33413-1

**Login Number: 33413**

**List Source: TestAmerica Sacramento**

**List Number: 1**

**Creator: Iliev, Gabriela K**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Type T0-15 SCAN  
 Date Cleaned/Batch ID 9-29-17 320-32020  
 Date of QC 10/02/2017  
 Data File Number MS9100210.D



320-32020 Chain of Custody

**CANISTER ID NUMBERS**

<u>34000744</u>	<u>34000932</u>	_____
<u>34000913</u>	<u>34001089</u>	_____
<u>34000935</u>	<u>34000802</u>	_____
<u>8318</u>	<u>34001079</u>	_____
<u>8502</u>	<u>34000622</u>	_____
<u>34001645</u>	<u>34001671</u>	_____
<u>8325</u>	<u>34001008</u>	_____
<u>34001382</u>	<u>34000751</u> *	_____

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "Certification Type" indicated above.

**"\*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.**

Gabriela Iliev  
1<sup>st</sup> level Reviewed By:

10/03/2017  
Date:

[Signature]  
2nd level Reviewed By:

10/16/17  
Date:





Certification Type T0-15 SCAN  
 Date Cleaned/Batch ID 10-10-17 320-~~32281~~ 32281 95 10-11-17  
 Date of QC 10-11-2017  
 Data File Number MS910110R8.D



*602 10-12-2017*

**CANISTER ID NUMBERS**

<u>34000620 *</u>	<u>34002005</u>	
<u>34001030</u>	<u>34000950</u>	
<u>34000753</u>	<u>34000663</u>	
<u>34000943</u>	<u>34000800</u>	
<u>34000983</u>	<u>34001186</u>	
<u>34002173</u>	<u>34000332</u>	
<u>34000686</u>	<u>34000928</u>	
<u>34001091</u>	<u>34001229</u>	

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "Certification Type" indicated above.

*10/24/17*

**"\*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.**

*Caterina Plier* 10-12-17  
 1<sup>st</sup> level Reviewed By: Date:  
*[Signature]* 10/24/17  
 2nd level Reviewed By: Date:



Certification Type TO-15 SCAN  
 Date Cleaned/Batch ID 10-13-17 320-32419  
 Date of QC 10/19/17  
 Data File Number C:\MSDCHEM\1\DATA\171019\



9 msb 101922.d  
CANISTER ID NUMBERS

<u>34001135 *</u>	<u>34000662</u>	
<u>7565</u>	<u>8517</u>	
<u>34001243</u>	<u>34001203</u>	
<u>34001000</u>	<u>34001051</u>	
<u>34001064</u>	<u>34000238</u>	
<u>34001646</u>	<u>34001940</u>	
<u>34001133</u>	<u>34000670</u>	
<u>34000731</u>	<u>34001046</u>	

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "Certification Type" indicated above.

**"\*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.**

[Signature]  
1<sup>st</sup> level Reviewed By:

10/20/2017  
Date:

[Signature]  
2nd level Reviewed By:

10/24/17  
Date:



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-32020-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 34000751 Lab Sample ID: 320-32020-16  
 Matrix: Air Lab File ID: MS9100210.D  
 Analysis Method: TO-15 Date Collected: 09/29/2017 00:00  
 Sample wt/vol: 500 (mL) Date Analyzed: 10/02/2017 19:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-Volatiles ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 187197 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	0.44	J	5.0	0.18
107-02-8	Acrolein	ND		2.0	0.22
107-13-1	Acrylonitrile	ND		2.0	0.19
107-05-1	Allyl chloride	ND		0.80	0.11
71-43-2	Benzene	ND		0.40	0.079
100-44-7	Benzyl chloride	ND		0.80	0.16
75-27-4	Bromodichloromethane	ND		0.30	0.066
75-25-2	Bromoform	ND		0.40	0.070
74-83-9	Bromomethane	ND		0.80	0.34
106-99-0	1,3-Butadiene	ND		0.80	0.15
106-97-8	n-Butane	ND		0.40	0.15
78-93-3	2-Butanone (MEK)	ND		0.80	0.20
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0	0.11
104-51-8	n-Butylbenzene	ND		0.40	0.18
135-98-8	sec-Butylbenzene	ND		0.40	0.070
98-06-6	tert-Butylbenzene	ND		0.80	0.068
75-15-0	Carbon disulfide	2.1		0.80	0.078
56-23-5	Carbon tetrachloride	ND		0.80	0.064
108-90-7	Chlorobenzene	ND		0.30	0.064
75-45-6	Chlorodifluoromethane	ND		0.80	0.27
75-00-3	Chloroethane	ND		0.80	0.31
67-66-3	Chloroform	ND		0.30	0.095
74-87-3	Chloromethane	ND		0.80	0.20
95-49-8	2-Chlorotoluene	ND		0.40	0.080
110-82-7	Cyclohexane	ND		0.40	0.084
124-48-1	Dibromochloromethane	ND		0.40	0.079
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.075
74-95-3	Dibromomethane	ND		0.40	0.057
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40	0.16
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.13
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.11
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.072
107-06-2	1,2-Dichloroethane	ND		0.80	0.088

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-32020-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 34000751 Lab Sample ID: 320-32020-16  
 Matrix: Air Lab File ID: MS9100210.D  
 Analysis Method: TO-15 Date Collected: 09/29/2017 00:00  
 Sample wt/vol: 500 (mL) Date Analyzed: 10/02/2017 19:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-Volatiles ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 187197 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.13
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.089
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.10
78-87-5	1,2-Dichloropropane	ND		0.40	0.24
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.088
123-91-1	1,4-Dioxane	ND		0.80	0.10
141-78-6	Ethyl acetate	ND		0.30	0.18
100-41-4	Ethylbenzene	ND		0.40	0.063
622-96-8	4-Ethyltoluene	ND		0.40	0.19
142-82-5	n-Heptane	ND		0.80	0.063
87-68-3	Hexachlorobutadiene	ND		2.0	0.43
110-54-3	n-Hexane	ND		0.80	0.075
591-78-6	2-Hexanone	ND		0.40	0.087
98-82-8	Isopropylbenzene	ND		0.80	0.10
99-87-6	4-Isopropyltoluene	ND		0.80	0.12
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.12
80-62-6	Methyl methacrylate	ND		0.80	0.16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.14
75-09-2	Methylene Chloride	ND		0.40	0.072
98-83-9	alpha-Methylstyrene	ND		0.40	0.065
91-20-3	Naphthalene	ND		0.80	0.56
111-65-9	n-Octane	ND		0.40	0.055
109-66-0	n-Pentane	ND		0.80	0.26
115-07-1	Propylene	ND		0.40	0.099
103-65-1	N-Propylbenzene	ND		0.40	0.059
100-42-5	Styrene	ND		0.40	0.059
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.069
127-18-4	Tetrachloroethene	ND		0.40	0.051
109-99-9	Tetrahydrofuran	ND		0.80	0.21
108-88-3	Toluene	ND		0.40	0.051
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.16
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.43
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.065
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.067

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-32020-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 34000751 Lab Sample ID: 320-32020-16  
 Matrix: Air Lab File ID: MS9100210.D  
 Analysis Method: TO-15 Date Collected: 09/29/2017 00:00  
 Sample wt/vol: 500 (mL) Date Analyzed: 10/02/2017 19:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-Volatiles ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 187197 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.11
75-69-4	Trichlorofluoromethane	ND		0.40	0.20
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.17
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.16
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.13
540-84-1	2,2,4-Trimethylpentane	ND		0.40	0.071
108-05-4	Vinyl acetate	ND		0.80	0.15
593-60-2	Vinyl bromide	ND		0.80	0.26
75-01-4	Vinyl chloride	ND		0.40	0.12
179601-23-1	m,p-Xylene	ND		0.80	0.10
95-47-6	o-Xylene	ND		0.40	0.054

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	89		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	107		70-130

TestAmerica Sacramento  
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20171002-48619.b\MS9100210.D  
 Lims ID: 320-32020-A-16  
 Client ID: 34000751  
 Sample Type: Client  
 Inject. Date: 02-Oct-2017 19:11:30 ALS Bottle#: 6 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 320-32020-A-16  
 Misc. Info.: 500 concert  
 Operator ID: GKI Instrument ID: ATMS9  
 Method: \\ChromNA\Sacramento\ChromData\ATMS9\20171002-48619.b\TO15\_ATMS9N.m  
 Limit Group: MSA - TO15 - ICAL  
 Last Update: 03-Oct-2017 15:00:45 Calib Date: 10-Aug-2017 02:27:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS9\20170809-46489.b\MS9080913.D  
 Column 1 : RTX Volatiles ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK009

First Level Reviewer: iliev

Date: 03-Oct-2017 13:47:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.343	12.336	0.007	95	41308	4.00	
* 2 1,4-Difluorobenzene	114	14.429	14.429	0.000	96	168893	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.343	20.342	0.001	89	105330	4.00	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	13.505	13.505	0.000	97	60213	3.80	
\$ 5 Toluene-d8 (Surr)	100	17.581	17.587	-0.006	99	82494	4.29	
\$ 6 4-Bromofluorobenzene (Surr	174	22.271	22.271	0.000	88	45630	3.57	
31 Acetone	43	7.743	7.652	0.091	93	8908	0.4368	
48 Carbon disulfide	76	8.960	8.966	-0.006	100	55541	2.05	
58 Ethyl acetate	43	11.826	11.759	0.067	95	4361	0.1325	
88 n-Octane	43	17.581	17.593	-0.012	42	838	0.0198	
123 n-Butylbenzene	92	24.309	24.309	0.000	1	223	0.006996	
126 1,2,4-Trichlorobenzene	180	26.712	26.712	0.000	85	1390	0.0548	
127 Naphthalene	128	27.077	27.083	-0.006	98	4633	0.0743	

**Reagents:**

VAMSIS20\_00037 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20171002-48619.b\MS9100210.D

Injection Date: 02-Oct-2017 19:11:30

Instrument ID: ATMS9

Operator ID: GKI

Lims ID: 320-32020-A-16

Lab Sample ID: 320-32020-16

Worklist Smp#: 10

Client ID: 34000751

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

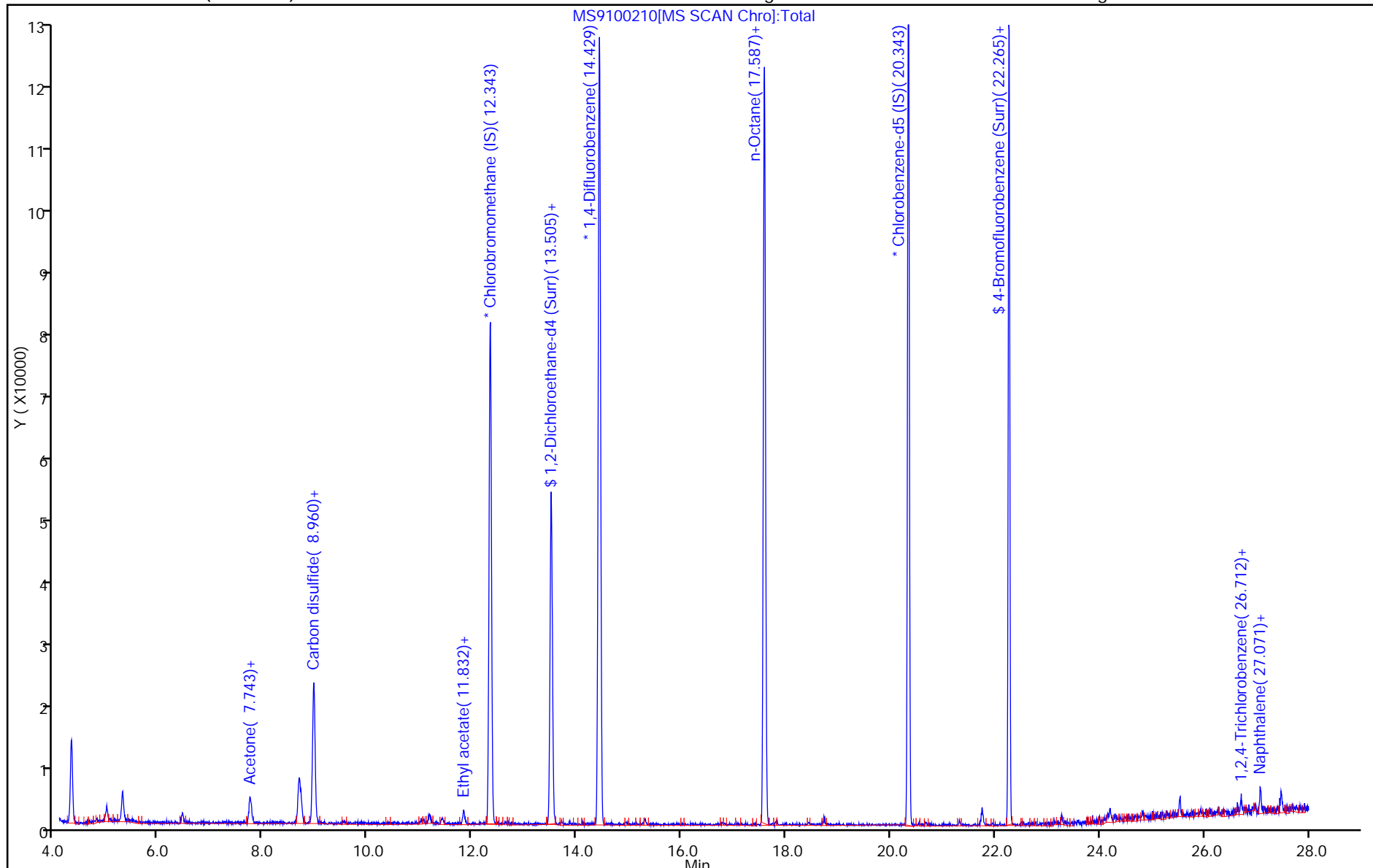
ALS Bottle#: 6

Method: TO15\_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20171002-48619.b\MS9100210.D

Injection Date: 02-Oct-2017 19:11:30

Instrument ID: ATMS9

Lims ID: 320-32020-A-16

Lab Sample ID: 320-32020-16

Client ID: 34000751

Operator ID: GKI

ALS Bottle#: 6 Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

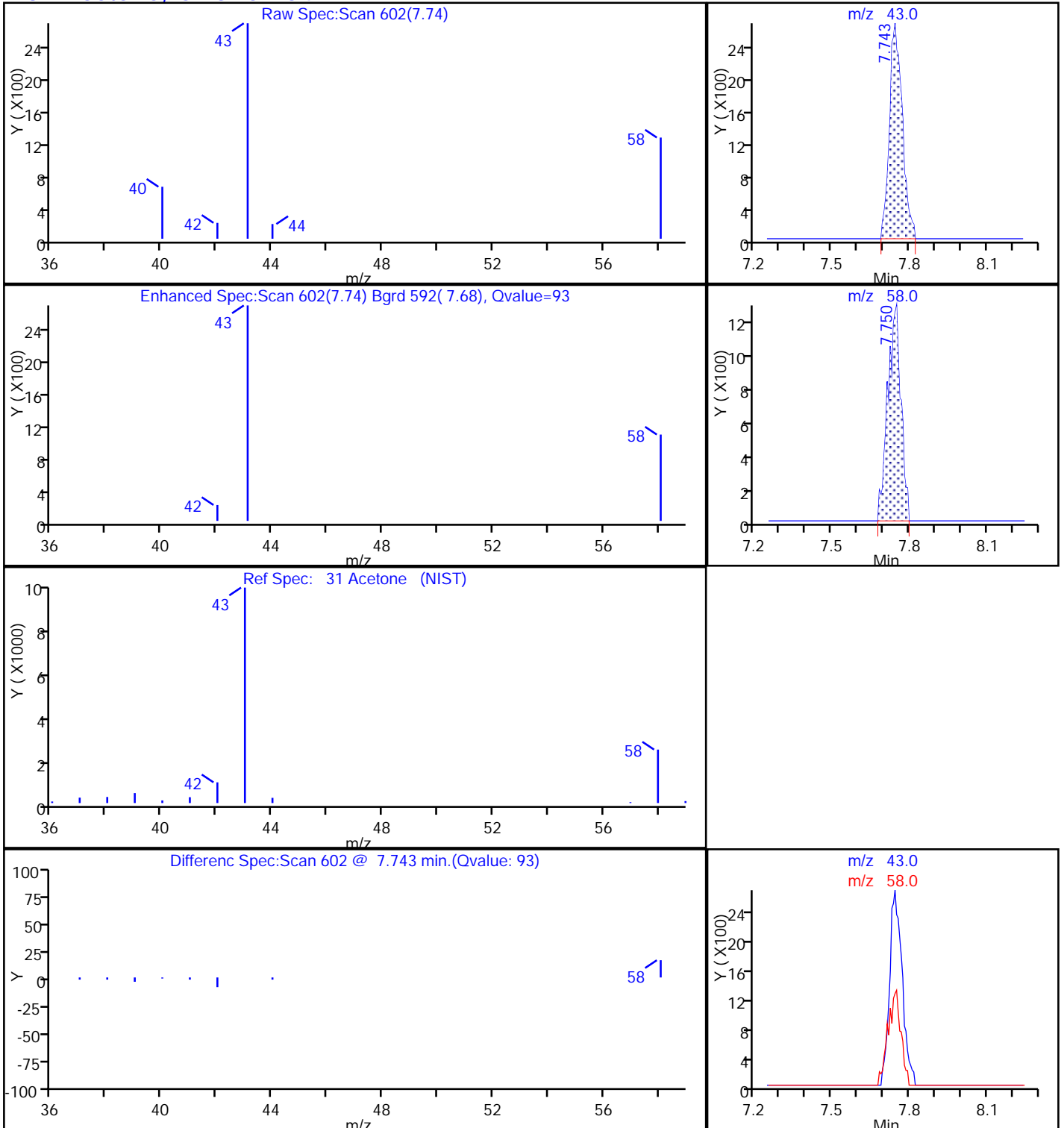
Method: TO15\_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles ( 0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1





TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20171002-48619.b\MS9100210.D

Injection Date: 02-Oct-2017 19:11:30

Instrument ID: ATMS9

Lims ID: 320-32020-A-16

Lab Sample ID: 320-32020-16

Client ID: 34000751

Operator ID: GKI

ALS Bottle#: 6 Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

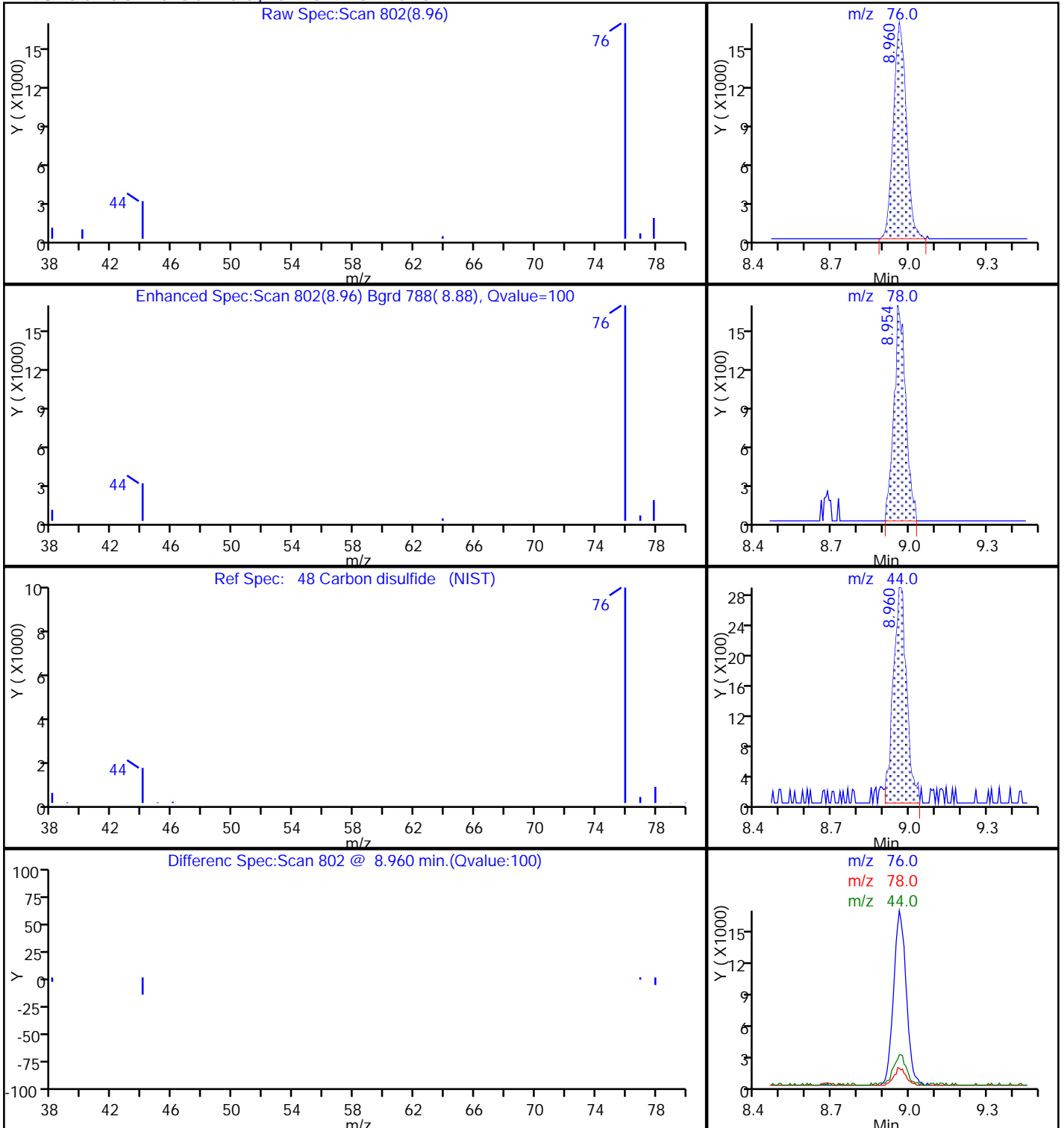
Method: TO15\_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles ( 0.32 mm)

Detector: MS SCAN

48 Carbon disulfide, CAS: 75-15-0



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-32281-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 34000620 Lab Sample ID: 320-32281-1  
 Matrix: Air Lab File ID: MS9101108.D  
 Analysis Method: TO-15 Date Collected: 10/10/2017 00:00  
 Sample wt/vol: 500 (mL) Date Analyzed: 10/11/2017 17:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-Volatiles ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 188824 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	0.26	J	5.0	0.18
107-02-8	Acrolein	ND		2.0	0.22
107-13-1	Acrylonitrile	ND		2.0	0.19
107-05-1	Allyl chloride	ND		0.80	0.11
71-43-2	Benzene	ND		0.40	0.079
100-44-7	Benzyl chloride	ND		0.80	0.16
75-27-4	Bromodichloromethane	ND		0.30	0.066
75-25-2	Bromoform	ND		0.40	0.070
74-83-9	Bromomethane	ND		0.80	0.34
106-99-0	1,3-Butadiene	ND		0.80	0.15
106-97-8	n-Butane	ND		0.40	0.15
78-93-3	2-Butanone (MEK)	ND		0.80	0.20
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0	0.11
104-51-8	n-Butylbenzene	ND		0.40	0.18
135-98-8	sec-Butylbenzene	ND		0.40	0.070
98-06-6	tert-Butylbenzene	ND		0.80	0.068
75-15-0	Carbon disulfide	ND		0.80	0.078
56-23-5	Carbon tetrachloride	ND		0.80	0.064
108-90-7	Chlorobenzene	ND		0.30	0.064
75-45-6	Chlorodifluoromethane	ND		0.80	0.27
75-00-3	Chloroethane	ND		0.80	0.31
67-66-3	Chloroform	ND		0.30	0.095
74-87-3	Chloromethane	ND		0.80	0.20
95-49-8	2-Chlorotoluene	ND		0.40	0.080
110-82-7	Cyclohexane	ND		0.40	0.084
124-48-1	Dibromochloromethane	ND		0.40	0.079
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.075
74-95-3	Dibromomethane	ND		0.40	0.057
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40	0.16
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.13
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.11
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.072
107-06-2	1,2-Dichloroethane	ND		0.80	0.088

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-32281-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 34000620 Lab Sample ID: 320-32281-1  
 Matrix: Air Lab File ID: MS9101108.D  
 Analysis Method: TO-15 Date Collected: 10/10/2017 00:00  
 Sample wt/vol: 500 (mL) Date Analyzed: 10/11/2017 17:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-Volatiles ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 188824 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.13
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.089
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.10
78-87-5	1,2-Dichloropropane	ND		0.40	0.24
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.088
123-91-1	1,4-Dioxane	ND		0.80	0.10
141-78-6	Ethyl acetate	ND		0.30	0.18
100-41-4	Ethylbenzene	ND		0.40	0.063
622-96-8	4-Ethyltoluene	ND		0.40	0.19
142-82-5	n-Heptane	ND		0.80	0.063
87-68-3	Hexachlorobutadiene	ND		2.0	0.43
110-54-3	n-Hexane	ND		0.80	0.075
591-78-6	2-Hexanone	ND		0.40	0.087
98-82-8	Isopropylbenzene	ND		0.80	0.10
99-87-6	4-Isopropyltoluene	ND		0.80	0.12
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.12
80-62-6	Methyl methacrylate	ND		0.80	0.16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.14
75-09-2	Methylene Chloride	0.10	J	0.40	0.072
98-83-9	alpha-Methylstyrene	ND		0.40	0.065
91-20-3	Naphthalene	ND		0.80	0.56
111-65-9	n-Octane	ND		0.40	0.055
109-66-0	n-Pentane	ND		0.80	0.26
115-07-1	Propylene	0.14	J	0.40	0.099
103-65-1	N-Propylbenzene	ND		0.40	0.059
100-42-5	Styrene	ND		0.40	0.059
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.069
127-18-4	Tetrachloroethene	0.28	J	0.40	0.051
109-99-9	Tetrahydrofuran	0.22	J	0.80	0.21
108-88-3	Toluene	ND		0.40	0.051
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.16
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.43
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.065
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.067

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-32281-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 34000620 Lab Sample ID: 320-32281-1  
 Matrix: Air Lab File ID: MS9101108.D  
 Analysis Method: TO-15 Date Collected: 10/10/2017 00:00  
 Sample wt/vol: 500 (mL) Date Analyzed: 10/11/2017 17:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-Volatiles ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 188824 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.11
75-69-4	Trichlorofluoromethane	ND		0.40	0.20
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.17
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.16
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.13
540-84-1	2,2,4-Trimethylpentane	ND		0.40	0.071
108-05-4	Vinyl acetate	ND		0.80	0.15
593-60-2	Vinyl bromide	ND		0.80	0.26
75-01-4	Vinyl chloride	ND		0.40	0.12
179601-23-1	m,p-Xylene	ND		0.80	0.10
95-47-6	o-Xylene	ND		0.40	0.054

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	111		70-130

TestAmerica Sacramento  
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20171011-49014.b\MS9101108.D  
 Lims ID: 320-32281-A-1  
 Client ID: 34000620  
 Sample Type: Client  
 Inject. Date: 11-Oct-2017 17:02:30 ALS Bottle#: 1 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 320-32281-A-1  
 Misc. Info.: 500mL CAN CERT  
 Operator ID: GKI Instrument ID: ATMS9  
 Method: \\ChromNA\Sacramento\ChromData\ATMS9\20171011-49014.b\TO15\_ATMS9N.m  
 Limit Group: MSA - TO15 - ICAL  
 Last Update: 12-Oct-2017 09:41:49 Calib Date: 10-Aug-2017 02:27:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS9\20170809-46489.b\MS9080913.D  
 Column 1 : RTX Volatiles ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK024

First Level Reviewer: iliev

Date: 12-Oct-2017 09:44:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.330	12.337	-0.007	93	40480	4.00	
* 2 1,4-Difluorobenzene	114	14.423	14.429	-0.006	97	165892	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.343	20.343	-0.001	90	108046	4.00	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	13.505	13.505	0.000	98	61858	3.99	
\$ 5 Toluene-d8 (Surr)	100	17.581	17.581	0.000	98	83978	4.45	
\$ 6 4-Bromofluorobenzene (Surr	174	22.271	22.272	0.006	85	46282	3.53	
14 Propene	41	4.282	4.255	0.024	77	1360	0.1405	
31 Acetone	43	7.725	7.642	0.079	96	5251	0.2627	
47 Methylene Chloride	49	8.911	8.907	-0.001	80	1662	0.1038	
57 cis-1,2-Dichloroethene	96	11.704	11.716	-0.018	1	199	0.0190	
62 Tetrahydrofuran	42	12.610	12.525	0.079	90	3530	0.2208	
76 Trichloroethene	130	15.184	15.177	0.006	10	583	0.0384	
93 Tetrachloroethene	166	19.010	19.028	-0.012	92	5874	0.2827	
126 1,2,4-Trichlorobenzene	180	26.718	26.720	0.006	91	1618	0.0622	
127 Naphthalene	128	27.083	27.085	0.006	98	5390	0.0843	

**Reagents:**

VAMIS20\_00051 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20171011-49014.b\MS9101108.D

Injection Date: 11-Oct-2017 17:02:30

Instrument ID: ATMS9

Operator ID: GKI

Lims ID: 320-32281-A-1

Lab Sample ID: 320-32281-1

Worklist Smp#: 8

Client ID: 34000620

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

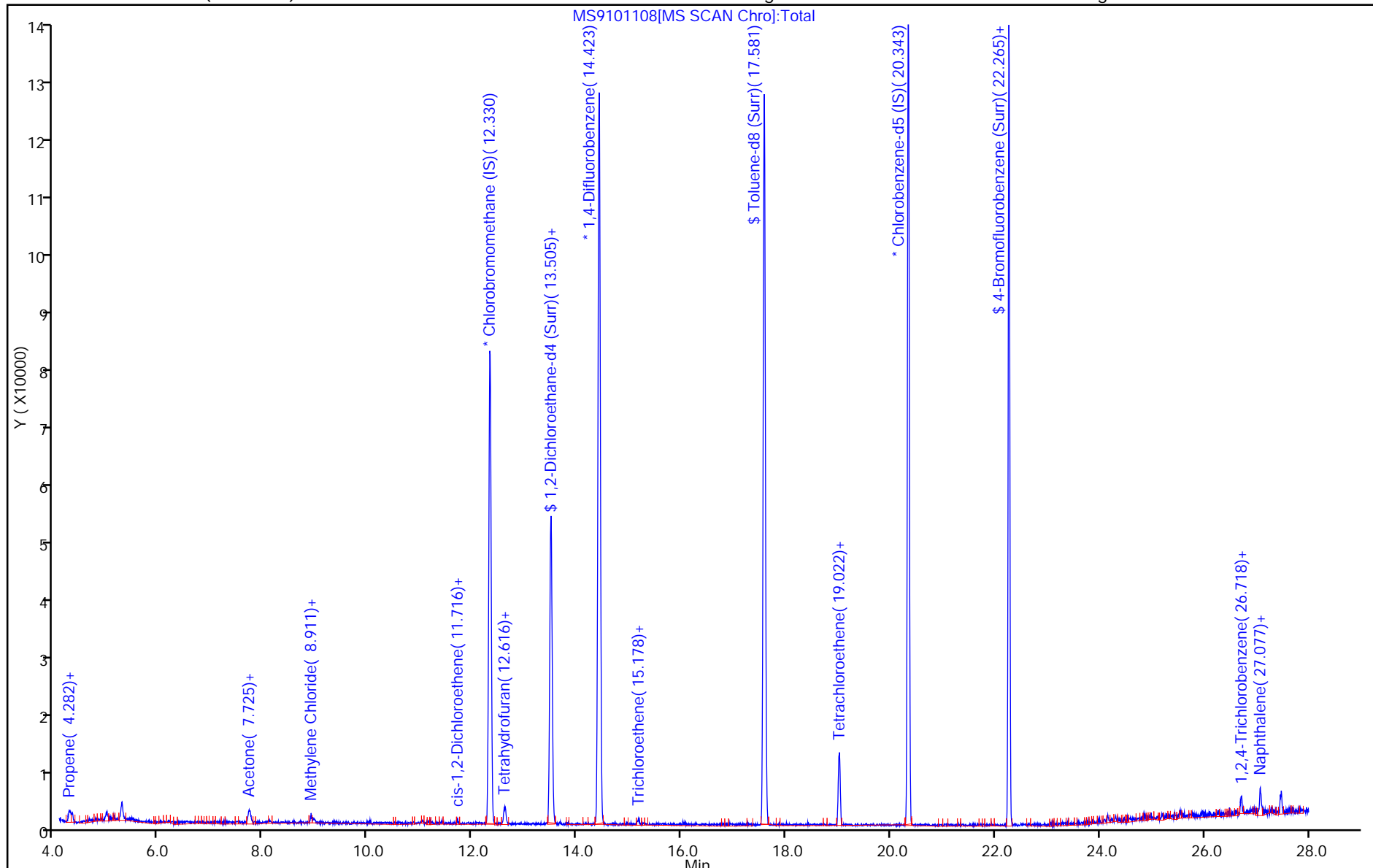
ALS Bottle#: 1

Method: TO15\_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles ( 0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20171011-49014.b\MS9101108.D

Injection Date: 11-Oct-2017 17:02:30

Instrument ID: ATMS9

Lims ID: 320-32281-A-1

Lab Sample ID: 320-32281-1

Client ID: 34000620

Operator ID: GKI

ALS Bottle#: 1 Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

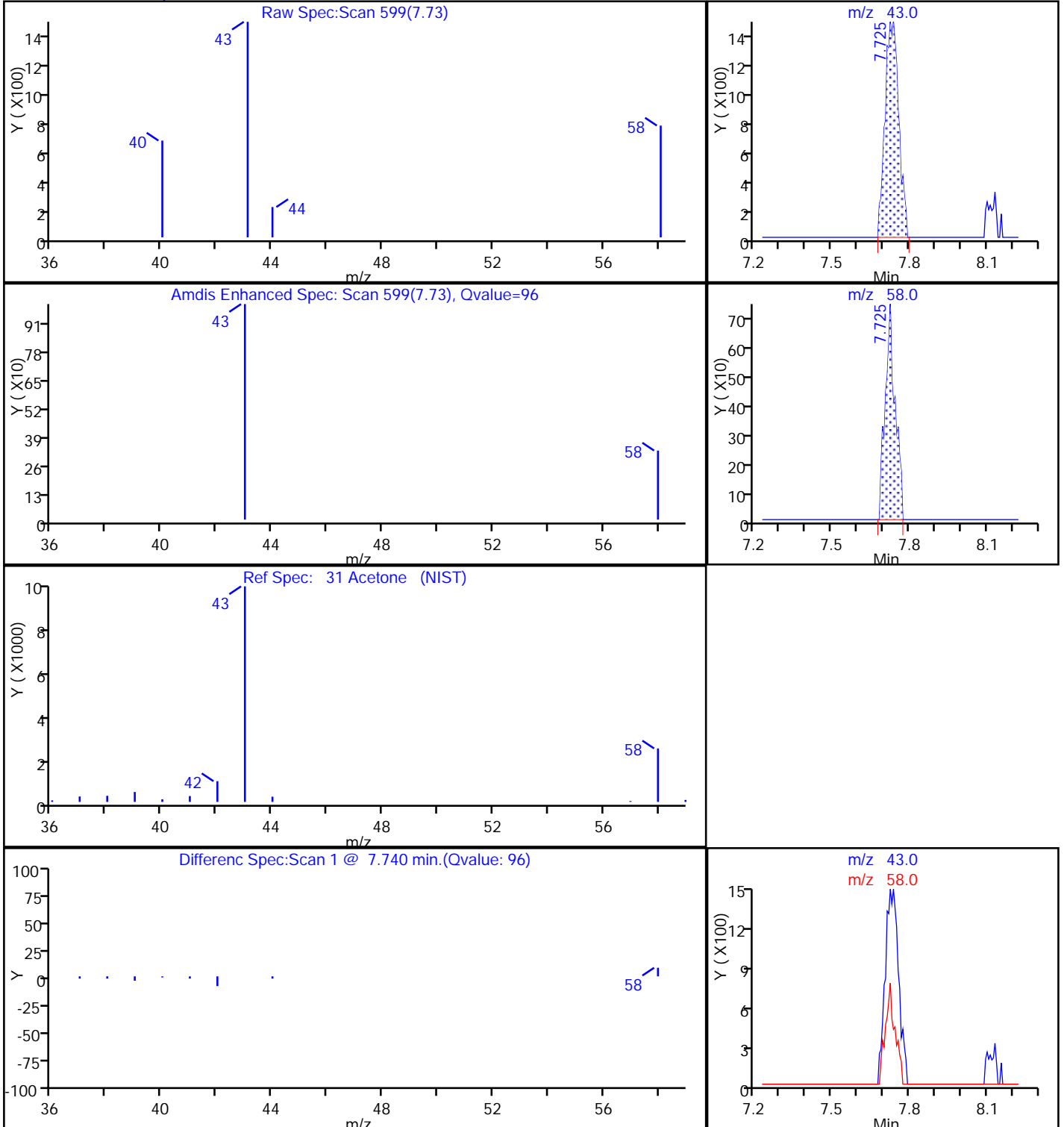
Method: TO15\_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles ( 0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20171011-49014.b\MS9101108.D

Injection Date: 11-Oct-2017 17:02:30

Instrument ID: ATMS9

Lims ID: 320-32281-A-1

Lab Sample ID: 320-32281-1

Client ID: 34000620

Operator ID: GKI

ALS Bottle#: 1 Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

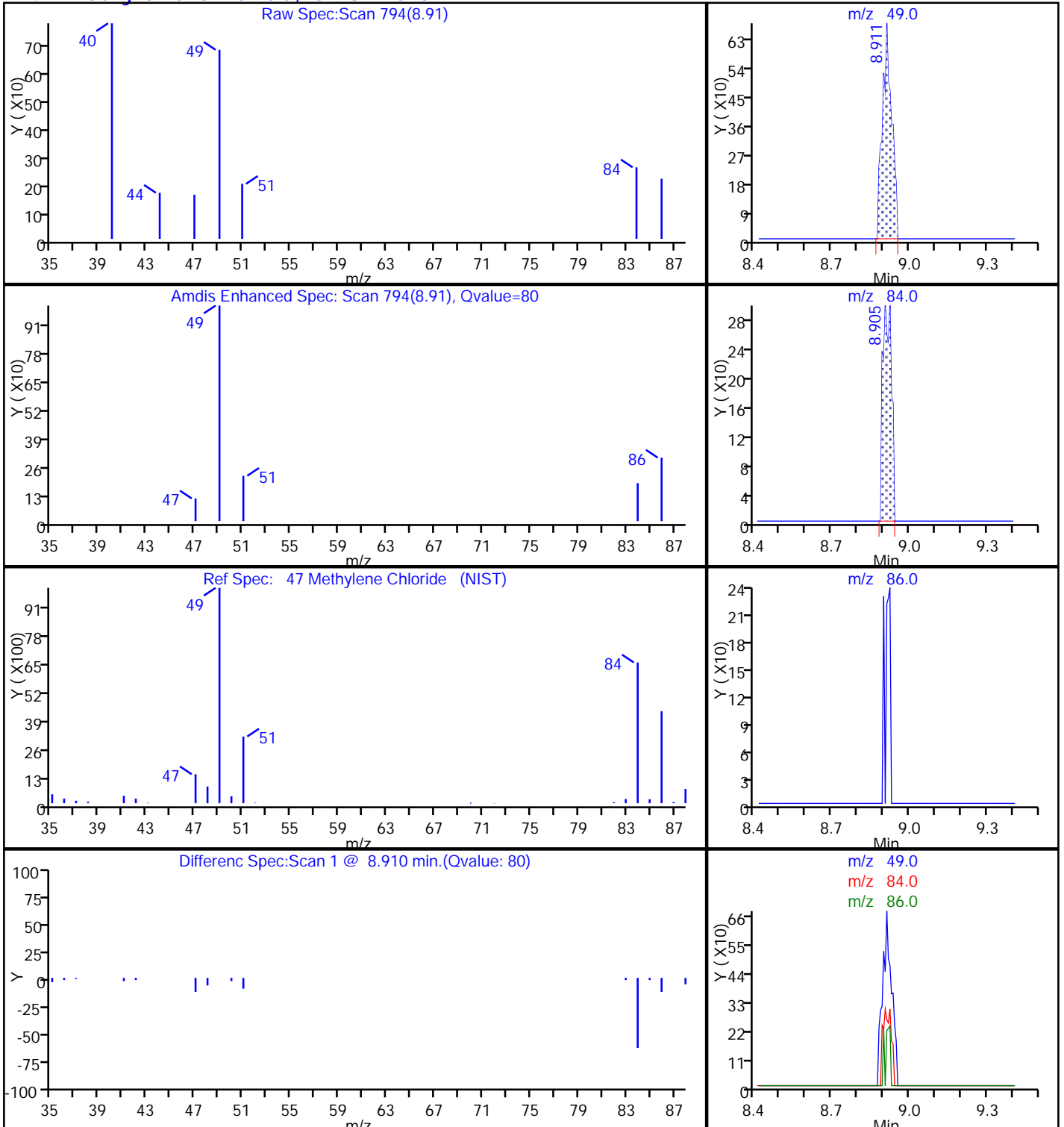
Method: TO15\_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles ( 0.32 mm)

Detector: MS SCAN

47 Methylene Chloride, CAS: 75-09-2





TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20171011-49014.b\MS9101108.D

Injection Date: 11-Oct-2017 17:02:30

Instrument ID: ATMS9

Lims ID: 320-32281-A-1

Lab Sample ID: 320-32281-1

Client ID: 34000620

Operator ID: GKI

ALS Bottle#: 1 Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

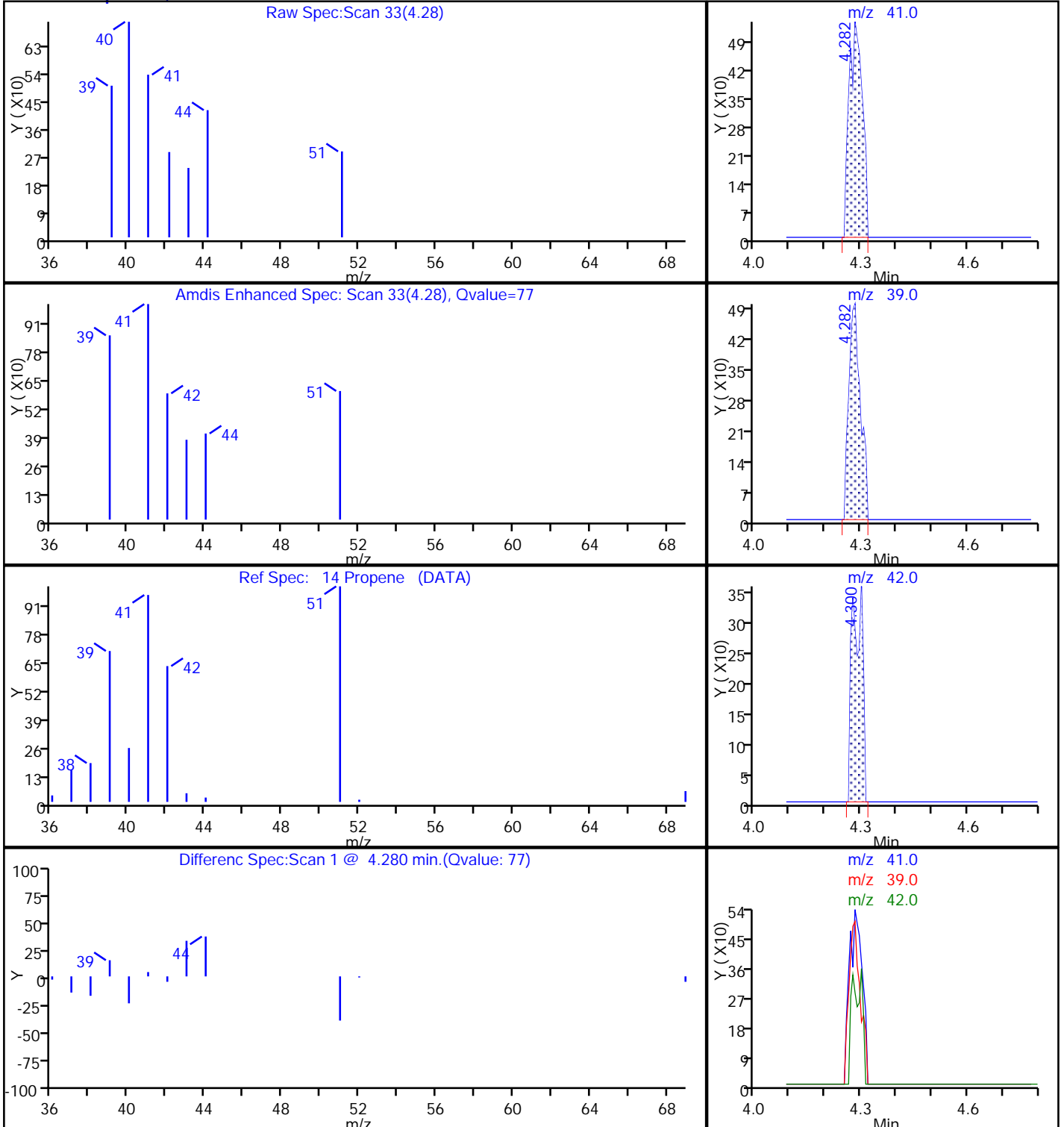
Method: TO15\_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles ( 0.32 mm)

Detector: MS SCAN

14 Propene, CAS: 115-07-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20171011-49014.b\MS9101108.D

Injection Date: 11-Oct-2017 17:02:30

Instrument ID: ATMS9

Lims ID: 320-32281-A-1

Lab Sample ID: 320-32281-1

Client ID: 34000620

Operator ID: GKI

ALS Bottle#: 1 Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

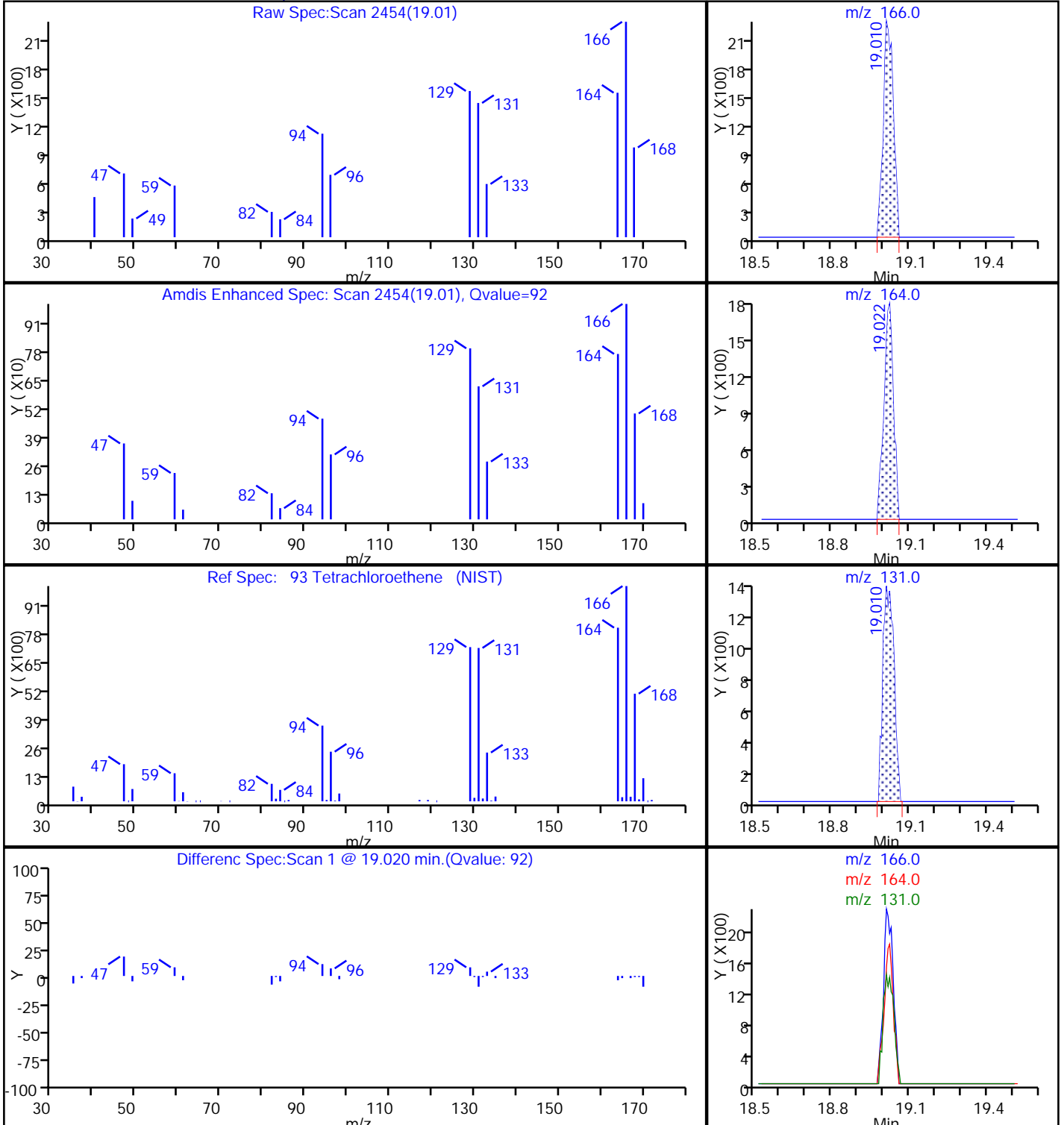
Method: TO15\_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles ( 0.32 mm)

Detector: MS SCAN

93 Tetrachloroethene, CAS: 127-18-4



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20171011-49014.b\MS9101108.D

Injection Date: 11-Oct-2017 17:02:30

Instrument ID: ATMS9

Lims ID: 320-32281-A-1

Lab Sample ID: 320-32281-1

Client ID: 34000620

Operator ID: GKI

ALS Bottle#: 1 Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

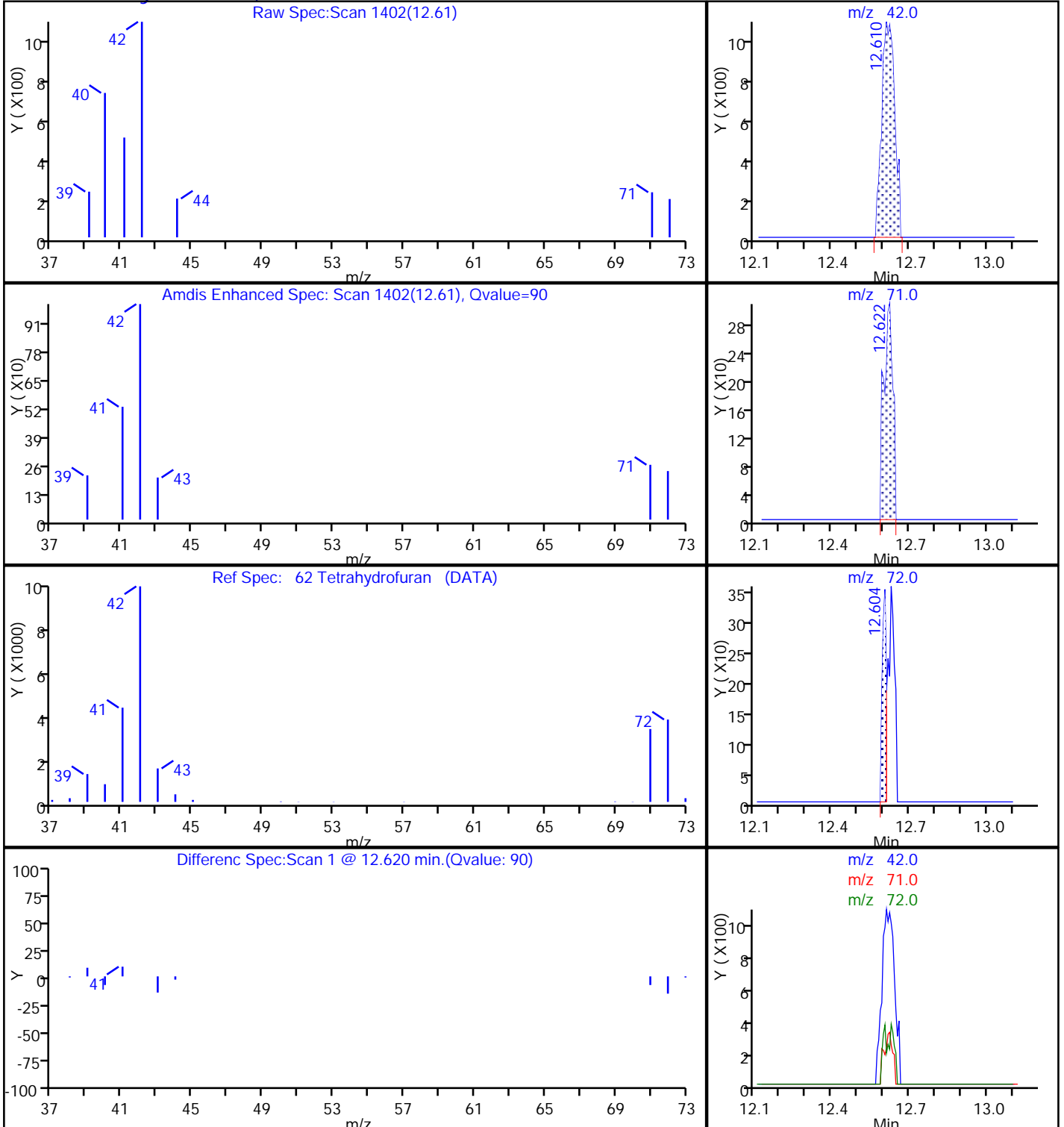
Method: TO15\_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles ( 0.32 mm)

Detector: MS SCAN

62 Tetrahydrofuran, CAS: 109-99-9



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-32419-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 34001135 Lab Sample ID: 320-32419-1  
 Matrix: Air Lab File ID: MS6101922.D  
 Analysis Method: TO-15 Date Collected: 10/13/2017 00:00  
 Sample wt/vol: 500 (mL) Date Analyzed: 10/20/2017 10:08  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-Volatiles ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 190188 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	0.54	J B	5.0	0.18
107-02-8	Acrolein	ND		2.0	0.22
107-13-1	Acrylonitrile	ND		2.0	0.19
107-05-1	Allyl chloride	ND		0.80	0.11
71-43-2	Benzene	ND		0.40	0.079
100-44-7	Benzyl chloride	ND		0.80	0.16
75-27-4	Bromodichloromethane	ND		0.30	0.066
75-25-2	Bromoform	ND		0.40	0.070
74-83-9	Bromomethane	ND		0.80	0.34
106-99-0	1,3-Butadiene	ND		0.80	0.15
106-97-8	n-Butane	ND		0.40	0.15
78-93-3	2-Butanone (MEK)	ND		0.80	0.20
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0	0.11
104-51-8	n-Butylbenzene	ND		0.40	0.18
135-98-8	sec-Butylbenzene	ND		0.40	0.070
98-06-6	tert-Butylbenzene	ND		0.80	0.068
75-15-0	Carbon disulfide	ND		0.80	0.078
56-23-5	Carbon tetrachloride	ND		0.80	0.064
108-90-7	Chlorobenzene	ND		0.30	0.064
75-45-6	Chlorodifluoromethane	ND		0.80	0.27
75-00-3	Chloroethane	ND		0.80	0.31
67-66-3	Chloroform	ND		0.30	0.095
74-87-3	Chloromethane	ND		0.80	0.20
95-49-8	2-Chlorotoluene	ND		0.40	0.080
110-82-7	Cyclohexane	ND		0.40	0.084
124-48-1	Dibromochloromethane	ND		0.40	0.079
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.075
74-95-3	Dibromomethane	ND		0.40	0.057
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40	0.16
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.13
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.11
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.072
107-06-2	1,2-Dichloroethane	ND		0.80	0.088

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-32419-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 34001135 Lab Sample ID: 320-32419-1  
 Matrix: Air Lab File ID: MS6101922.D  
 Analysis Method: TO-15 Date Collected: 10/13/2017 00:00  
 Sample wt/vol: 500 (mL) Date Analyzed: 10/20/2017 10:08  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-Volatiles ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 190188 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.13
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.089
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.10
78-87-5	1,2-Dichloropropane	ND		0.40	0.24
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.088
123-91-1	1,4-Dioxane	ND		0.80	0.10
141-78-6	Ethyl acetate	ND		0.30	0.18
100-41-4	Ethylbenzene	ND		0.40	0.063
622-96-8	4-Ethyltoluene	ND		0.40	0.19
142-82-5	n-Heptane	ND		0.80	0.063
87-68-3	Hexachlorobutadiene	ND		2.0	0.43
110-54-3	n-Hexane	ND		0.80	0.075
591-78-6	2-Hexanone	ND		0.40	0.087
98-82-8	Isopropylbenzene	ND		0.80	0.10
99-87-6	4-Isopropyltoluene	ND		0.80	0.12
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.12
80-62-6	Methyl methacrylate	ND		0.80	0.16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.14
75-09-2	Methylene Chloride	ND		0.40	0.072
98-83-9	alpha-Methylstyrene	ND		0.40	0.065
91-20-3	Naphthalene	ND		0.80	0.56
111-65-9	n-Octane	ND		0.40	0.055
109-66-0	n-Pentane	ND		0.80	0.26
115-07-1	Propylene	ND		0.40	0.099
103-65-1	N-Propylbenzene	ND		0.40	0.059
100-42-5	Styrene	ND		0.40	0.059
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.069
127-18-4	Tetrachloroethene	ND		0.40	0.051
109-99-9	Tetrahydrofuran	ND		0.80	0.21
108-88-3	Toluene	ND		0.40	0.051
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.16
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.43
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.065
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.067

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-32419-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 34001135 Lab Sample ID: 320-32419-1  
 Matrix: Air Lab File ID: MS6101922.D  
 Analysis Method: TO-15 Date Collected: 10/13/2017 00:00  
 Sample wt/vol: 500 (mL) Date Analyzed: 10/20/2017 10:08  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-Volatiles ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 190188 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.11
75-69-4	Trichlorofluoromethane	ND		0.40	0.20
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.17
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.16
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.13
540-84-1	2,2,4-Trimethylpentane	ND		0.40	0.071
108-05-4	Vinyl acetate	ND		0.80	0.15
593-60-2	Vinyl bromide	ND		0.80	0.26
75-01-4	Vinyl chloride	ND		0.40	0.12
179601-23-1	m,p-Xylene	ND		0.80	0.10
95-47-6	o-Xylene	ND		0.40	0.054

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

TestAmerica Sacramento  
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS6\20171019-49359.b\MS6101922.D  
 Lims ID: 320-32419-A-1  
 Client ID: 34001135  
 Sample Type: Client  
 Inject. Date: 20-Oct-2017 10:08:30 ALS Bottle#: 3 Worklist Smp#: 22  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 320-32419-A-1  
 Misc. Info.: 500 mL  
 Operator ID: LHS Instrument ID: ATMS6  
 Method: \\ChromNA\Sacramento\ChromData\ATMS6\20171019-49359.b\TO15\_ATMS6.m  
 Limit Group: MSA - TO15 - ICAL  
 Last Update: 20-Oct-2017 11:02:14 Calib Date: 19-Oct-2017 12:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS6\20171019-49359.b\MS6101903.D  
 Column 1 : RTX Volatiles ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK016

First Level Reviewer: leeh Date: 20-Oct-2017 11:02:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	13.302	13.314	-0.012	98	37154	4.00	
* 2 1,4-Difluorobenzene	114	15.437	15.443	-0.006	96	120684	4.00	
* 3 Chlorobenzene-d5 (IS)	117	22.166	22.165	0.001	88	88430	4.00	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	14.500	14.506	-0.006	39	55279	4.18	
\$ 5 Toluene-d8 (Surr)	100	18.886	18.886	0.000	98	66133	3.70	
\$ 6 4-Bromofluorobenzene (Surr	95	24.727	24.721	0.007	91	34953	3.34	
11 Propene	41	4.657	4.681	-0.024	84	811	0.0753	
32 Acetone	43	8.417	8.435	-0.018	98	11817	0.5426	

Reagents:

VAMIS20\_00060 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS6\20171019-49359.b\MS6101922.D

Injection Date: 20-Oct-2017 10:08:30

Instrument ID: ATMS6

Operator ID: LHS

Lims ID: 320-32419-A-1

Lab Sample ID: 320-32419-1

Worklist Smp#: 22

Client ID: 34001135

Purge Vol: 25.000 mL

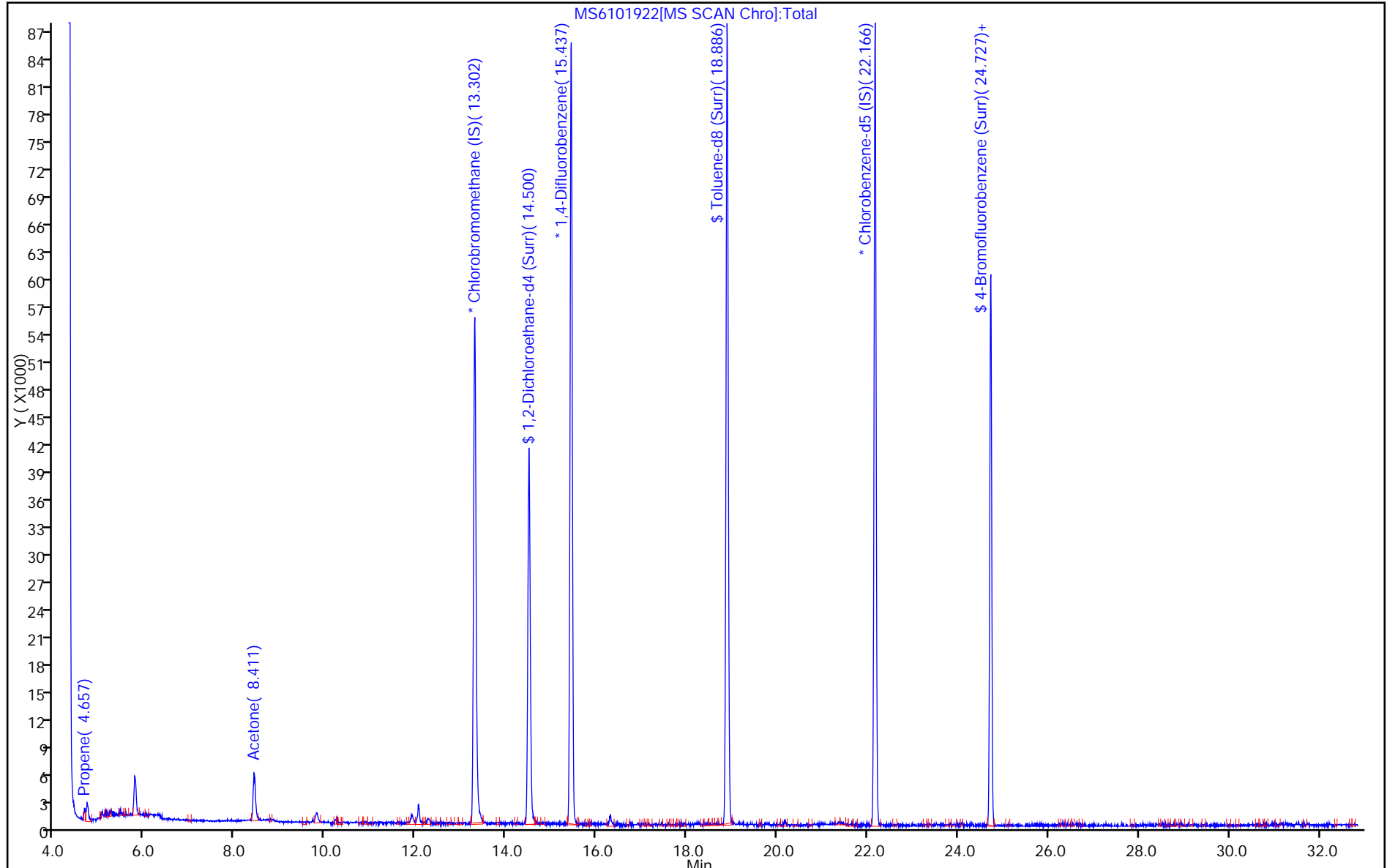
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: TO15\_ATMS6

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)





TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS6\20171019-49359.b\MS6101922.D

Injection Date: 20-Oct-2017 10:08:30

Instrument ID: ATMS6

Lims ID: 320-32419-A-1

Lab Sample ID: 320-32419-1

Client ID: 34001135

Operator ID: LHS

ALS Bottle#: 3

Worklist Smp#: 22

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

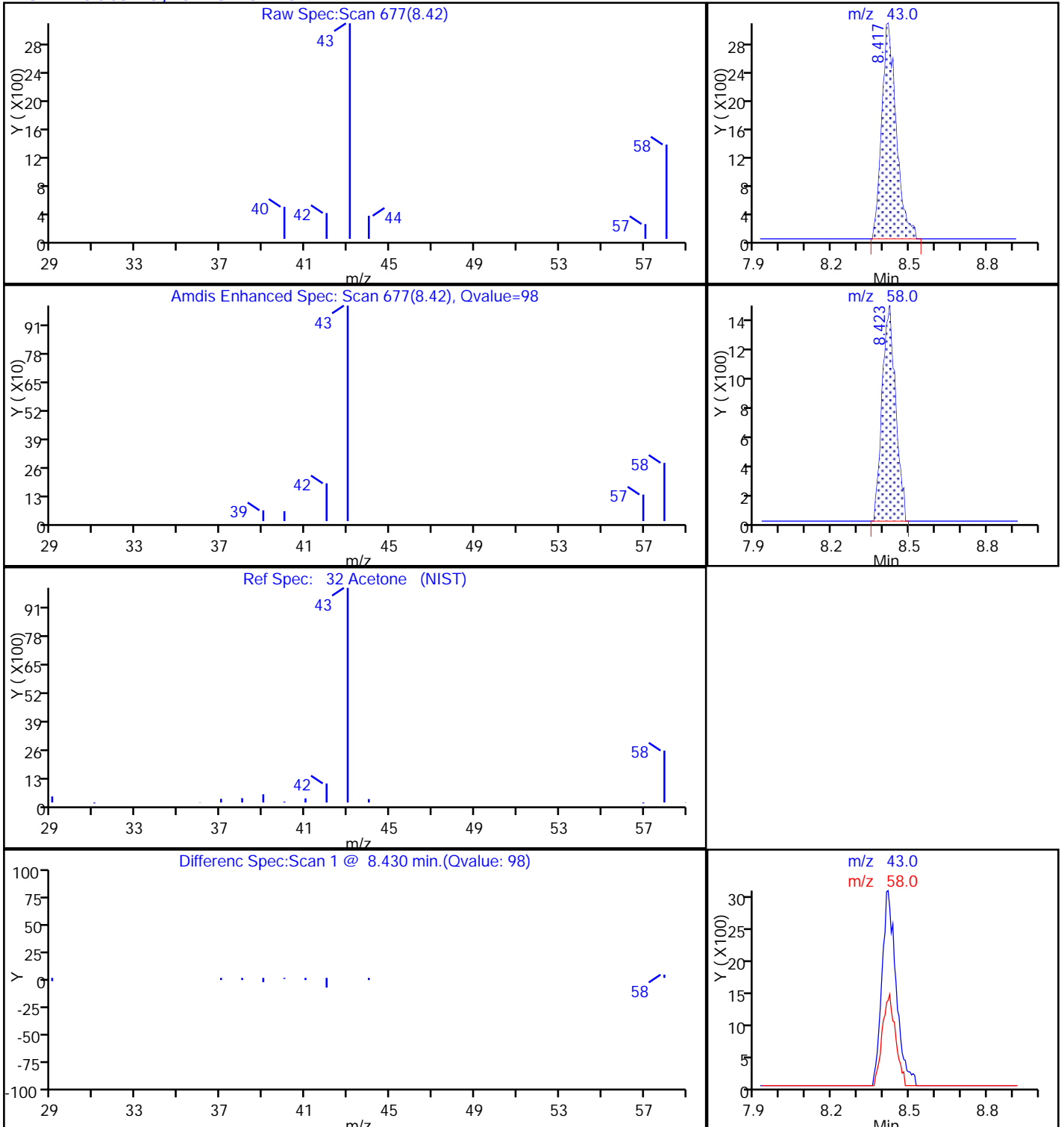
Method: TO15\_ATMS6

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles ( 0.32 mm)

Detector: MS SCAN

32 Acetone, CAS: 67-64-1



## APPENDIX F

# LADBS CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA FORMS



Leighton

**FORM 1 - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA**

**Part 1: Certification Sheet**

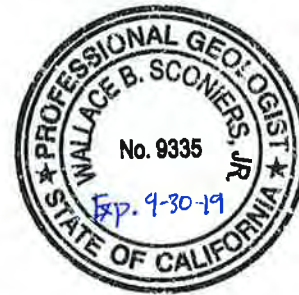
Site Address: 1206-1338 E. 6th Street and 1205-1321 Wholesale Street

Legal Description: Tract: Vesting Tract No. 74111, AINs 5164-010-003, -004, and -005

Building Use: Proposed Commercial/Residential

Architect's, Engineer's or Geologist's Stamp:

Name of Architect, Engineer, or Geologist:  
 Wallace B. Sconiers, Jr., PG  
 Leighton & Associates  
 26074 Avenue Hall, Suite 21  
 Santa Clarita, CA 91355  
 Telephone: 661-705-3324



Name of Testing Laboratory:  
 Leighton & Associates, Inc.  
 City Test Lab License #: TA10240  
 Telephone: 949-250-1421

I hereby certify that I have tested the above site for the purpose of methane mitigation and that all procedures were conducted by a City of Los Angeles licensed testing agency in conformity with the requirements of the LADBS Information Bulletin P/BC 2014-101. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the architect, engineer or geologist whose signature is affixed thereon.

Signed: [Signature] date 10-23-17

Required Data:

- Project is in the **Methane Buffer Zone**.
- Depth of ground water observed during testing: **Perched/Localized GW at 73-80' = 0** feet below the Impervious Membrane.
- Depth of Historical High Ground Water Table Elevation\*: **23.5** feet below the Impervious Membrane.
- Design Methane Concentration\*\*: **100** parts per million in volume (ppmv).
- Design Methane Pressure\*\*\*: **highest at 2.0 (anomalous reading at 5.7)** inches of water column.
- Site Design Level: (**Level I, Level II, Level III, Level IV, Level V**) with **2.0** inches of water column.

De-watering:

- De-watering ( **is** ) ( is not ) required per Section 7104.3.7.
- Pump discharge rate \_\_\_\_\_ cubic feet per minute per reference geology or soil report: **(n/a)** dated **(n/a)**.

Additional Investigation:

- Additional investigation ( **was** ) ( **was not** ) conducted.

Latest Grading on Site:

- Date of last grading on site ( **was** ) ( was not ) more than 30 days before Site Testing.
- See Attached explanation of the effect on soil gas survey results by grading operations **(n/a)**.

Notes:

\* Historical High Ground Water Table Elevation shall mean the highest recorded elevation of ground water table based on historical records and field investigations as determined by the engineer for the methane mitigation system.

\*\* Design Methane Concentration shall mean the highest recorded measured methane concentration from either Shallow Soil Gas Test or any Gas Probe Set on the site.

\*\*\* Design Methane Pressure shall mean the highest total pressure measured from any Gas Probe Set on the site.

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. For efficient handling of information internally and in the internet, conversion to this new format of code related and administrative information bulletins including MGD and RGA that were previously issued will allow flexibility and timely distribution of information to the public.

## Appendix C

### Certification of Compliance for Methane Test Data

City of Los Angeles Methane Monitoring Log

Project Name: Lot 4 + Wholesale St.

Date: 2/9/22

Personnel: L. Weaver

SCS Job No.: 01224 3000.00 + 2

Monitoring Instrument/Serial #: GEM 5000 GS2531

Calibration Date: 2/8/22

Project Address:

Barometric Pressure/Weather: 30.10 Sunny 75-91

Time	Probe ID	Probe Depth feet	(+ ) Pressure or (- ) Vacuum inches of water (DL = +/-0.1 iw)	GEM 2000-5000				RKT Eagle			
				Total Methane (CH <sub>4</sub> )	<del>LEL</del> Methane (CH <sub>4</sub> )	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	<del>Methane (CH<sub>4</sub>)</del>	Hydrogen Sulfide (H <sub>2</sub> S)	<del>Oxygen (O<sub>2</sub>)</del>	CO
				% by volume (DL = 0.1%)	<del>Balance</del> % LEL (DL = 1% LEL)	% by volume (DL = 0.1%)	% by volume (DL = 0.1%)	ppmv (DL = 0.1 ppmv)	% by volume (DL = 0.1%)	% by volume (DL = 0.1%)	ppmv (DL = 1 ppmv)
9:20	MP-1	5	0	0.0	79.5	1.5	14.9		0		0
9:22		10	0	0.0	79.6	1.7	14.7		0		0
9:24		20	-0.10	0.0	79.5	1.5	14.9		0		0
9:31	MP-3	5	0	0.0	82.2	3.7	13.2		0		0
9:33		10	0	0.0	83.8	4.4	11.7		0		0
9:37		20	0	0.0	84.4	6.0	7.4		0		0
9:42	MP-4	5	-0.15	0.0	83.2	2.9	13.8		0		0
9:44		10	0	0.0	84.1	4.1	11.8		0		0
9:47		20	0	0.0	84.9	5.7	9.4		0		0
9:50	MP-5	5	0	0.0	81.9	3.3	14.8		0		0
9:58		10	0	0.0	82.0	3.1	14.8		0		0
10:01		20	0	0.0	81.8	3.2	15.0		0		0
10:21	MP-11	5	0	0.0	79.6	1.6	14.8		0		0
10:23		10	0	0.0	79.6	1.8	14.6		0		0
10:24		20	0	0.0	79.6	1.7	14.7		0		0

Values recorded on this table are actual field-instrument readings. The detection limit (DL) of each constituent is provided at the top of the column.

For reference: 100 ppmv = 0.01% methane = 0.2% LEL.  
 1,000 ppmv = 0.1% methane = 2% LEL.  
 10,000 ppmv = 1% methane = 20% LEL.  
 50,000 ppmv = 5% methane = 100% LEL

ppm = parts per million  
 ppmv = parts per million by volume  
 iw = inches of water

**City of Los Angeles Methane Monitoring Log**

Project Name: 6th and Wholesale St.

Date: 2/19/22

Personnel: Hebeaver

SCS Job No.: 01221300100 + 2

Monitoring Instrument/Serial #: GEM 5000 652531

Calibration Date: 2/8/22

Project Address: \_\_\_\_\_

Barometric Pressure/Weather: 30.40 sunny 75-91

Time	Probe ID	Probe Depth	(+ Pressure or (-) Vacuum	GEM 2000 <u>5000</u>				RKL Eagle			
				Total Methane (CH <sub>4</sub> )	LEL Methane (CH <sub>4</sub> )	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	Methane (CH <sub>4</sub> )	Hydrogen Sulfide (H <sub>2</sub> S)	Oxygen (O <sub>2</sub> )	CO
				feet	inches of water (DL = +/-0.1 iw)	% by volume (DL = 0.1%)	Balance % LEL (DL = 1% LEL)	% by volume (DL = 0.1%)	% by volume (DL = 0.1%)	ppmv (DL = 0.1 ppmv)	% by volume (DL = 0.1%)
10:32	MP-10	5	0	0.0	80.1	1.4	19.5		0		0.0
10:34	↓	10	0	0.0	80.1	1.5	18.9		0		0.0
10:38	↓	20	0	0.0	80.1	1.8	18.1		0		0.0
10:46	MP-13	5	0	0.0	90.2	2.3	17.5		0		0.0
10:50	↓	10	0	0.0	80.3	2.3	17.3		0		0.0
10:53	↓	20	0	0.0	80.3	2.3	17.4		0		0.0
10:57	MP-12	5	0	0.0	79.8	1.4	19.8		0		0.0
10:59	↓	10	0	0.0	79.9	1.5	19.1		0		0.0
11:03	↓	20	0	0.0	79.8	2.1	18.1		0		0.0
	MP-14	Not Located									
	↓										
11:11	MP-9	5	0	0.0	79.8	1.7	18.4		0		0.0
11:13	↓	10	0	0.0	79.8	1.9	18.3		0		0.0
11:17	↓	20	0	0.0	79.8	2.1	18.1		0		0.0

Values recorded on this table are actual field-instrument readings. The detection limit (DL) of each constituent is provided at the top of the column.

For reference: 100 ppmv = 0.01% methane = 0.2% LEL.  
 1,000 ppmv = 0.1% methane = 2% LEL.  
 10,000 ppmv = 1% methane = 20% LEL.  
 50,000 ppmv = 5% methane = 100% LEL

ppm = parts per million  
 ppmv = parts per million by volume  
 iw = inches of water

City of Los Angeles Methane Monitoring Log

Project Name: 6th St. and Wholesale St.

Date: 2/9/22

Personnel: L. Lopez

SCS Job No.: 01221300.00 + 2

Monitoring Instrument/Serial #: GEM 5000 (68253)

Calibration Date: 2/8/22

Project Address: \_\_\_\_\_

Barometric Pressure/Weather: Sunny 75-91 30.10

Time	Probe ID	Probe Depth	(+ Pressure or (-) Vacuum	GEM 2000 5000				RICK Eagle			
				Total Methane (CH <sub>4</sub> )	LEL Methane (CH <sub>4</sub> )	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	Methane (CH <sub>4</sub> )	Hydrogen Sulfide (H <sub>2</sub> S)	Oxygen (O <sub>2</sub> )	CO
				feet	inches of water (DL = +/-0.1 iw)	% by volume (DL = 0.1%)	Balance % LEL (DL = 1% LEL)	% by volume (DL = 0.1%)	% by volume (DL = 0.1%)	ppmv (DL = 0.1 ppmv)	% by volume (DL = 0.1%)
11:24	MP-8	5	0	0.0	80.5	1.4	19.1		0		0
11:28		10	+0.05	0.0	80.5	1.4	18.0		0		0
11:33		20	+0.05	0.0	80.8	1.4	17.8		0		0
11:37	MP-15	5	0	0.0	79.5	0.7	19.8		0		0
11:39		10	+0.05	0.0	80.4	1.2	18.4		0		0
11:43		20	+0.05	0.0	80.9	1.4	17.4		0		0
11:46	MP-10	5	+0.05	0.0	82.1	1.7	16.2		0		0
11:48		10	+0.05	0.0	82.4	1.9	15.8		0		0
11:52		20	+0.05	0.0	82.5	2.1	15.4		0		0
11:56	MP-7	5	+0.05	0.0	80.8	1.3	17.9		0		0
11:58		10	+0.05	0.0	80.9	1.4	17.8		0		0
12:02		20	+0.05	0.0	81.1	1.5	17.4		0		0
12:17	MP-30	5	-0.05	0.0	90.2	2.7	17.1		0		0
12:19		10	+0.05	0.0	79.8	2.3	17.9		0		0
12:23		20	+0.05	0.0	79.9	3.0	17.1		0		0

Values recorded on this table are actual field-instrument readings. The detection limit (DL) of each constituent is provided at the top of the column.

For reference: 100 ppmv = 0.01% methane = 0.2% LEL.  
 1,000 ppmv = 0.1% methane = 2% LEL.  
 10,000 ppmv = 1% methane = 20% LEL.  
 50,000 ppmv = 5% methane = 100% LEL

ppm = parts per million  
 ppmv = parts per million by volume  
 iw = inches of water

City of Los Angeles Methane Monitoring Log

Project Name: 6th St. and Wholesale St.

Date: 2/9/22

Personnel: L Weaver

SCS Job No.: 01221300-00 + 2

Monitoring Instrument/Serial #: GEM 5000 (5253)

Calibration Date: 2/9/22

Project Address:

Barometric Pressure/Weather: 30.10 sunny 75° - 91°

Time	Probe ID	Probe Depth	(+ Pressure or (-) Vacuum	GEM 2000 <u>5000</u>				Rkt Eagle			
				Total Methane (CH <sub>4</sub> )	LEL Methane (CH <sub>4</sub> )	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	Methane (CH <sub>4</sub> )	Hydrogen Sulfide (H <sub>2</sub> S)	Oxygen (O <sub>2</sub> )	CO
				feet	inches of water (DL = +/-0.1 iw)	% by volume (DL = 0.1%)	<u>Balance</u> % LEL (DL = 1% LEL)	% by volume (DL = 0.1%)	% by volume (DL = 0.1%)	ppmv (DL = 0.1 ppmv)	% by volume (DL = 0.1%)
12:25	MP-29	5	+0.05	0.0	79.2	1.3	19.5		0		0
12:27		10	+0.05	0.0	79.2	1.8	19.1		0		0
12:31		20	+0.05	0.0	79.2	1.4	19.4		0		0
12:35	MP-28	5	+0.10	0.0	79.5	1.7	19.8		0		0
12:37		10	+0.10	0.0	79.6	2.0	19.4		0		0
12:48		20	+0.10	0.0	79.5	1.7	19.7		0		0
12:50	MP-24	5	-0.10	0.0	79.7	1.5	19.8		0		0
12:52		10	+0.10	0.0	79.7	1.5	19.9		0		0
12:50		20	+0.10	0.0	79.9	1.3	19.9		0		0
1:12	MP-25	5	+0.05	0.0	80.0	1.2	19.2		0		0
1:14		10	+0.10	0.0	80.2	1.4	19.3		0		0
1:17		20	+0.05	0.0	80.0	1.0	19.4		0		0
1:27	MP-24	5	+0.05	0.0	79.9	1.2	19.9		0		0
1:29		10	+0.05	0.0	79.5	1.9	19.9		0		0
1:33		20	+0.05	0.0	79.1	2.2	19.7		0		0

Values recorded on this table are actual field-instrument readings. The detection limit (DL) of each constituent is provided at the top of the column.

For reference: 100 ppmv = 0.01% methane = 0.2% LEL.  
 1,000 ppmv = 0.1% methane = 2% LEL.  
 10,000 ppmv = 1% methane = 20% LEL.  
 50,000 ppmv = 5% methane = 100% LEL

ppm = parts per million  
 ppmv = parts per million by volume  
 iw = inches of water



City of Los Angeles Methane Monitoring Log

Project Name: Lotus + Wholesale St.

Date: 2/10/22

Personnel: W. Leaver

SCS Job No.: 01 221 300.00 + 2

Monitoring Instrument/Serial #: GEM 5000 GS 2531

Calibration Date: 2/10/22

Project Address: \_\_\_\_\_

Barometric Pressure/Weather: Sunny 75-90 30.00

Time	Probe ID	Probe Depth feet	(+ Pressure or (-) Vacuum inches of water (DL = +/-0.1 iw)	GEM 2000				RKI Eagle			
				Total Methane (CH <sub>4</sub> )	<del>LEL</del> Methane (CH <sub>4</sub> )	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	<del>Methane (CH<sub>4</sub>)</del>	Hydrogen Sulfide (H <sub>2</sub> S)	<del>Oxygen (O<sub>2</sub>)</del>	CO
				% by volume (DL = 0.1%)	<del>Balance</del> % LEL (DL = 1% LEL)	% by volume (DL = 0.1%)	% by volume (DL = 0.1%)	ppmv (DL = 0.1 ppmv)	% by volume (DL = 0.1%)	% by volume (DL = 0.1%)	ppmv (DL = 1 ppmv)
9:34	MP-23	5	0	0.0	90.4	1.3	19.2		0		0.0
9:36	↓	10	-0.05	0.0	81.2	2.9	15.4		0		0.0
9:40	↓	20	0	0.0	82.2	3.4	14.4		0		0.0
9:47	MP-22	5	0	0.0	90.5	2.0	17.4		0		0.0
9:49	↓	10	0	0.0	81.2	2.9	16.0		0		0.0
9:52	↓	20	0	0.0	81.2	3.0	15.8		0		0.0
9:58	MP-21	5	0	0.0	90.4	2.5	17.2		0		0.0
10:00	↓	10	-0.05	0.0	80.5	2.5	17.0		0		0.0
10:03	↓	20	-0.05	0.0	80.4	2.0	16.9		0		0.0
10:10	MP-20	5	0	0.0	79.8	1.2	19.0		0		0.0
10:12	↓	10	0	0.0	79.8	1.3	19.9		0		0.0
10:16	↓	20	0	0.0	79.7	2.0	18.3		0		0.0
10:33	MP-19	5	0	0.0	90.0	1.0	19.5		0		0.0
10:35	↓	10	0	0.0	90.0	1.0	18.5		0		0.0
10:39	↓	20	0	0.0	79.9	2.1	18.0		0		0.0

Values recorded on this table are actual field-instrument readings. The detection limit (DL) of each constituent is provided at the top of the column.

For reference: 100 ppmv = 0.01% methane = 0.2% LEL.  
 1,000 ppmv = 0.1% methane = 2% LEL.  
 10,000 ppmv = 1% methane = 20% LEL.  
 50,000 ppmv = 5% methane = 100% LEL

ppm = parts per million  
 ppmv = parts per million by volume  
 iw = inches of water

City of Los Angeles Methane Monitoring Log

Project Name: 6th St. + Wholesale St.

Date: 2/10/22

Personnel: L Weaver

SCS Job No.: 01221300.00 + 2

Monitoring Instrument/Serial #: GEM 5000 GS2531

Calibration Date: 2/10/22

Project Address: \_\_\_\_\_

Barometric Pressure/Weather: 30.00 Sunny 75-90

Time	Probe ID	Probe Depth feet	(+ Pressure or (-) Vacuum inches of water (DL = +/-0.1 iw)	GEM 2000				RKI Eagle			
				Total Methane (CH <sub>4</sub> )	LEL Methane (CH <sub>4</sub> ) <i>balance</i> % LEL (DL = 1% LEL)	Carbon Dioxide (CO <sub>2</sub> )	Oxygen (O <sub>2</sub> )	<del>Methane (CH<sub>4</sub>)</del>	Hydrogen Sulfide (H <sub>2</sub> S) <i>H<sub>2</sub>S</i>	Oxygen (O <sub>2</sub> )	CO
				% by volume (DL = 0.1%)	% by volume (DL = 0.1%)	% by volume (DL = 0.1%)	ppmv (DL = 0.1 ppmv)	% by volume (DL = 0.1%)	% by volume (DL = 0.1%)	ppmv (DL = 1 ppmv)	
10:42	MP-15	5	-0.05	0.0	79.9	1.8	19.3		0		0.0
10:44	↓	10	0	0.0	79.9	1.8	19.3		0		0.0
10:47	↓	20	0	0.0	79.9	1.8	19.3		0		0.0
10:54	MP-17	5	0	0.0	80.1	2.5	17.4		0		0.0
10:54	↓	10	0	0.0	80.1	2.5	17.4		0		0.0
11:00	↓	20	0	0.0	80.1	2.5	17.4		0		0.0
11:07	MP-2	5	0	0.0	80.2	2.7	16.7		0		0.0
11:09	↓	10	0	0.0	81.5	3.7	14.9		0		0.0
11:12	↓	20	0	0.0	81.2	3.3	15.5		0		0.0
12:32	MP-14	5	0	0.0	80.3	1.9	17.9		0		0.0
12:30	↓	10	0	0.0	80.1	1.4	16.5		0		0.0
12:40	↓	20	0	0.0	79.8	1.1	19.0		0		0.0
9:10	MP-27	5	0	0.0	79.3	0.9	19.9		0		0.0
9:12	↓	10	0	0.0	80.4	1.4	19.0		0		0.0
9:16	↓	20	0	0.0	80.0	1.2	18.3		0		0.0

Values recorded on this table are actual field-instrument readings. The detection limit (DL) of each constituent is provided at the top of the column.

For reference: 100 ppmv = 0.01% methane = 0.2% LEL.  
 1,000 ppmv = 0.1% methane = 2% LEL.  
 10,000 ppmv = 1% methane = 20% LEL.  
 50,000 ppmv = 5% methane = 100% LEL

ppm = parts per million  
 ppmv = parts per million by volume  
 iw = inches of water

## Appendix D

### Certificate of Compliance for Methane Test Data

FORM 1 - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

Part 1: Certification Sheet

Site Address: 1206-1338 E. 6th Street & 1205-1321 Wholesale Street

Legal Description: Tract: City Lands of Los Angeles & Tract No 1182 Lot: APN's: 5164-010-003, -004, -005

Building Use: Commercial

Architect's, Engineer's or Geologist's Stamp:

Name of Architect, Engineer, or Geologist: Jeffrey T. Sieg
Mailing Address: 3900 Kilroy Airport Way, Suite 100 Long Beach, CA 90806
Telephone: (562) 426-9544
Name of Testing Laboratory:
City Test Lab License #:
Telephone:



I hereby certify that I have tested the above site for the purpose of methane mitigation and that all procedures were conducted by a City of Los Angeles licensed testing agency in conformity with the requirements of the LADBS Information Bulletin P/BC 2014-101. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the architect, engineer or geologist whose signature is affixed thereon.

Signed: [Signature] date 4/8/2022

Required Data:

- Project is in the (Methane Zone) or (Methane Buffer Zone).
Depth of ground water observed during testing: N/A feet below the Impervious Membrane.
Depth of Historical High Ground Water Table Elevation\*: 73 feet below the Impervious Membrane.
Design Methane Concentration\*\*: <1,000 parts per million in volume (ppmv).
Design Methane Pressure\*\*\*: 2 inches of water column.
Site Design Level: (Level I, Level II, Level III, Level IV, Level V) with 2 inches of water column.

De-watering:

- De-watering ( is ) ( is not ) required per Section 7104.3.7.
Pump discharge rate cubic feet per minute per reference geology or soil report:
dated

Additional Investigation:

- Additional investigation ( was ) ( was not ) conducted.

Latest Grading on Site:

- Date of last grading on site ( was ) ( was not ) more than 30 days before Site Testing.
See Attached explanation of the effect on soil gas survey results by grading operations.

Notes:

\* Historical High Ground Water Table Elevation shall mean the highest recorded elevation of ground water table based on historical records and field investigations as determined by the engineer for the methane mitigation system.
\*\* Design Methane Concentration shall mean the highest recorded measured methane concentration from either Shallow Soil Gas Test or any Gas Probe Set on the site.
\*\*\* Design Methane Pressure shall mean the highest total pressure measured from any Gas Probe Set on the site.