
**SOIL GAS INVESTIGATION
801 Brannan Street
San Francisco, California**

**Equity Residential
Two N. Riverside Plaza, Suite 400
Chicago, Illinois 60606-2609**

**18 November 2013
Project No. 731609101**

18 November 2013
Project No. 731609101

Nikki Brenner
Equity Residential
Two N. Riverside Plaza, Suite 400
Chicago, Illinois 60606-2609

Subject: Soil Gas Investigation
801 Brannan Street
San Francisco, California

Dear Ms. Brenner:

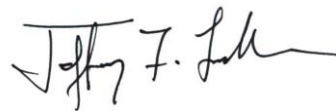
Treadwell & Rollo, a Langan Company, is pleased to present this report for the soil gas investigation conducted at 801 Brannan Street in San Francisco, California. We understand that the proposed development at the Site will consist of a 6-story residential structure with commercial spaces, residential units, and parking garages on the ground floor, as well as publically accessible open space. There are no basements planned, so the proposed excavation will primarily consist of what is needed for elevator pits, pile caps, and/or utilities.

In performing this soil gas investigation, we have endeavored to observe that degree of care and skill generally exercised by other consultants undertaking similar studies at the same time, under similar circumstances and conditions, and in the same geographical area. We appreciate the opportunity to assist you with this project. If you have any questions or need any information clarified, please contact us.

Sincerely yours,
Treadwell & Rollo, A Langan Company



Veronica M. Tiglao, P.E.
Senior Project Engineer



Jeffrey F. Ludlow, P.G.
Principal



Attachments

cc: Elyse D. Heilshorn, P.E. - City and County of San Francisco, Department of Public Health

731615201.01 VT

TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.1	BACKGROUND	2
3.0	SCOPE OF WORK	2
4.0	FIELD INVESTIGATION	3
5.0	SAMPLE SELECTION AND ANALYTICAL TESTING	4
6.0	LABORATORY TEST RESULTS AND EVALUATION	4
6.1	Soil Gas Results	4
6.2	Background Air and QA/QC.....	5
7.0	CONCLUSIONS AND RECOMMENDATIONS.....	5
8.0	LIMITATIONS	6

TABLES

FIGURES

APPENDICES

LIST OF TABLES

Table 1	Soil Gas and Air Analytical Results
---------	-------------------------------------

LIST OF FIGURES

Figure 1	Site Location Map
Figure 2	Site Plan

LIST OF APPENDICES

Appendix A	Analytical Laboratory Reports
Appendix B	Selected Figures and Tables by Others

**SOIL GAS INVESTIGATION
801 Brannan Street
San Francisco, California**

1.0 INTRODUCTION

This report, prepared for Equity Residential, presents the results of the soil gas investigation conducted at 801 Brannan Street in San Francisco, California (Site). The Site is located on the south side of Brannan Street, between 7th Street and 8th Street (Figure 1). Based on information provided by Equity Residential¹, we understand that the proposed development will cover the entire Site footprint and will mainly consist of a 6-story residential structure with commercial spaces, residential units, and parking garages on the ground floor, as well as publically accessible open space. There are no basements planned, so the proposed excavation will primarily consist of what is needed for elevator pits, pile caps, and/or utilities. The maximum anticipated excavation from existing Site conditions is about 5 feet below ground surface (bgs). We assume that construction dewatering will not be necessary as part of Site development.

The Site is currently occupied by a large structure formerly in use as an exhibition hall and an associated asphalt-paved parking lot (see Figure 2). Freight platforms are located on either side of the building. The former exhibition hall and freight platforms are approximately 3 feet above grade. The approximately 5.21-acre Site is rectangular in shape, with plan dimensions of approximately 300 feet by 725 feet.

Per a recently passed City and County of San Francisco Ordinance (Ordinance No. 155-13, approved 25 July 2013, and effective as of 24 August 2013), the Site is located in an area that is subject to the requirements of the San Francisco Public Health Code Article 22A (Maher Ordinance) and is therefore subject to oversight by the San Francisco Department of Public Health (SFPDH).

¹ Project plans and preliminary drawings by david baker + partners, dated 31 May 2012.

2.0 BACKGROUND

Based on information obtained during our document review²:

- Previous occupants at the Site have included Pacific Woodenware and Cooperage and several small buildings (1887); a drayage company, box factory, bottle yard, and hay and unspecified warehouse (1899); Western Pacific Railroad Freight Depot and multiple railroad spurs (1913 to 1980); and Concourse Exhibition Center (1980s to 2000s).
- Previous investigations encountered fill to depths of up to 11 feet bgs. Laboratory analysis of soil samples indicate that most of the fill at the Site would be considered a California hazardous waste for off-site disposal based on total and soluble lead concentrations.
- Additionally, up to 29,000 milligrams per kilogram (mg/kg) Total Recoverable Petroleum Hydrocarbons (TRPH), 280 mg/kg total petroleum hydrocarbons as motor oil (TPHmo), and 740 mg/kg total petroleum hydrocarbons as diesel (TPHd) were detected in soil. Minor concentrations of the volatile organic compounds (VOCs) benzene, toluene, ethylbenzene, and xylene (BTEX) were also detected, at concentrations ranging from 0.0055 mg/kg to 0.16 mg/kg.
- Groundwater has been encountered between about 9 to 12 feet bgs. Laboratory analysis of groundwater samples collected at the Site detected up to 12 milligrams per liter (mg/L) TRPH, 1.9 mg/L TPHmo, and 1 mg/L TPHd.

3.0 SCOPE OF WORK

The purpose of this soil gas investigation was to collect soil gas samples for chemical analysis according to the requirements of Article 22A, and to assess the potential for soil gas impacts resulting from past and/or present Site activities and nearby off-site operations. Our work included drilling five soil borings to approximately 5 feet bgs for soil gas sampling, chemical testing of selected samples, and evaluating the results.

² Documents reviewed include a *Phase I Environmental Site Assessment and Limited Phase II Site Investigation Report* by Stellar Environmental Solutions, Inc, dated 28 October 2011, and a *Draft Environmental Review* letter by DLA Piper, dated 8 November 2011.

4.0 FIELD INVESTIGATION

Prior to field work, a drilling permit was obtained from the SFDPH for the borings. Additionally, Underground Services Alert was contacted, and utility clearances were conducted at the boring locations by Precision Locating LLC of Brentwood, California.

On 17 June 2013, TEG of Northern California (TEG), of Rancho Cordova, California advanced five boreholes to depths of approximately 5 to 8 feet bgs, at the locations shown on Figure 2. The locations of the boreholes were based on proposed building footprints, to provide roughly equal lateral coverage as well as target future occupied spaces as shown on the current development plans³.

Soil gas samples (TR-SG-1 through TR-SG-5 and Dup-1) were collected at each borehole using 1-inch stainless steel rods. A length of 1/8-inch diameter nyla flow tubing was connected to a 1.5-inch long, 3/8-inch diameter, nylon soil gas screen. The assembly was placed into the boring through a steel rod. Monterey, kiln-dried sand with 30% porosity was installed in the borehole annulus from the bottom to approximately 1/2 foot above and below the screened implant. A 1-foot thick seal of dry bentonite chips was placed above the sand filter pack. A 3-foot thick seal of hydrated bentonite was placed on top of the dry bentonite to create a seal around the tubing to prevent ambient air intrusion into the soil gas probe.

Soil gas probes were allowed to equilibrate for at least two hours following the installation before purging and sampling. Samples were collected in 1 liter (L) Summa canisters with an initial vacuum of 30 inches of mercury (inches Hg). The sampling manifold used consisted of 1/8-inch stainless steel or Teflon tubing, a valve for connecting a luer lock syringe for purging, a flow regulator, and two vacuum pressure gauges. A shut-in test and a leak test were conducted utilizing a shroud and helium as a leak-check tracer gas to confirm the sample train integrity. Three purge volumes were purged from the sample train via a 60 milliliter (mL) luer lock syringe. The first and last 50 mL of gas purged was analyzed with the portable helium detector to confirm there were no ambient air leaks into the sampling train. Once the shut-in test and leak test were completed and sample train established to be intact, samples were collected into the Summa canisters at a flow rate of approximately 200 milliliters per minute (mL/min). Samples collected at the on-site building (TR-SG-1 and TR-SG-2) were collected at about 8 feet below the concrete slab, translating to about 5 feet bgs. Remaining samples (TR-SG-3 through TR-SG-5) were also collected at about 5 feet bgs. As a quality control/quality assurance (QA/QC) measure, duplicate sample Dup-1 was collected at sample location TR-SG-1.

³ Project plans and preliminary drawings by david baker + partners, dated 31 May 2012.

A background air sample, Ambient-1, was also collected as part of the soil gas investigation. The background air sample was collected into a 6-liter Summa canister at a flow rate of approximately 12.5 mL/min.

Upon completion of the soil gas sampling, the temporary soil gas probes were appropriately decommissioned and all boreholes were backfilled to the ground surface with neat cement grout using the tremie method under the supervision of a SFDPH grout inspector.

The soil gas and air samples were collected in general accordance with procedures established by the California Department of Toxic Substances Control (DTSC). The soil gas and air samples were sent under chain-of-custody control to CalScience Environmental Laboratories, Inc. (CalScience), a California-certified analytical laboratory based in Garden Grove, California, for chemical analysis.

5.0 SAMPLE SELECTION AND ANALYTICAL TESTING

The objective of the soil gas sampling was to collect additional chemical data to evaluate the impact to soil gas at concentrations that would cause an unacceptable vapor intrusion human health risk at the Site. The soil gas samples were analyzed as follows:

- Total petroleum hydrocarbons as gasoline (TPHg) by Environmental Protection Agency (EPA) Method TO-3;
- VOCs by EPA Method TO-15; and
- Methane and helium by American Society for Testing and Materials (ASTM) Method D-1946.

6.0 LABORATORY TEST RESULTS AND EVALUATION

Soil gas analytical results are summarized in Table 1. Copies of the laboratory analytical reports are presented in Appendix A. The analytical results are discussed in the following section.

6.1 Soil Gas Results

Several VOCs, including acetone, benzene, 2-butanone, carbon disulfide, carbon tetrachloride, chloroform, 1,1-dichloroethane, ethylbenzene, methyl-tert-butyl-ether, o-xylene, p/m-xylene, tetrachloroethene, toluene, trichlorofluoromethane, and/or 1,1,1-trichloroethane, were detected at all 5 soil gas samples, at concentrations ranging from 3.2 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) to 160 $\mu\text{g}/\text{m}^3$.

TPHg and other VOCs were not detected above their respective laboratory reporting limits. Of the detections above the reporting limits, none exceeded their respective residential Environmental Screening Levels⁴ (ESLs) or California Human Health Screening Levels⁵ (CHHSLs) in any of the samples.

Methane was detected in 2 of 5 soil gas samples, at concentrations of 0.732 percent by volume (%v) at TR-SG-2 and 12.3%v at TR-SG-1 (13%v methane was detected at the duplicate sample collected at TR-SG-1). Though no action level for methane has been formally established for the expanded Maher zone areas, the elevated methane concentration at TR-SG-1 exceeds the 1.25%v criterion previously established for Mission Bay, which is currently used as a guideline by SFDPH.

6.2 Background Air and QA/QC

Compounds detected in the background air sample included low concentrations of several VOCs, including acetone, benzene, carbon tetrachloride, chloromethane, dichlorodifluoromethane, ethylbenzene, methylene chloride, and tetrachloroethene, at concentrations ranging from 0.2 µg/m³ to 7.3 µg/m³. Methane and other VOCs were not detected above their respective laboratory reporting limits.

Helium was used as a tracer gas around the probe rods during sampling as a QA/QC measure to confirm the sample integrity. Helium was not detected in any of the soil gas samples or the background air sample.

A duplicate sample was collected at location TR-SG-1 during sampling as a QA/QC measure to identify possible field variations. Analytical results of sample TR-SG-1 and duplicate Dup-1 were generally similar.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Laboratory analytical results indicate that an elevated methane condition exists in soil gas at a localized area of the Site (TR-SG-1; see Figure 2). The elevated methane concentration may be attributable to the degradation of TPHs previously detected in soil and groundwater (see Appendix B for selected figures and tables from previous reports) and/or naturally occurring methane from the degradation of the organic-

⁴ ESL values cited are from Summary Table E, Indoor Air and Soil Gas (Vapor Intrusion Concerns), from the 2013 Tier 1 ESLs, by the California Regional Water Quality Control Board, San Francisco Bay Region, dated May 2013.

⁵ CHHSL values cited from *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties, Table 2, California Human Health Screening Levels for Indoor Air and Soil Gas*, by the California EPA, dated January 2005.

rich soils (the Site is within the former Upper Mission Creek drainage area which was filled in the late 1800s).

Results of the previous investigations⁶ indicate that the Site is underlain by up to 11 feet of fill, most of which would be considered California hazardous waste for off-site disposal based on total and soluble lead concentrations. As a California Unified Program Agency (CUPA) for hazardous materials oversight in San Francisco, and as required under Article 22A, the SFDPH would provide regulatory oversight during Site development. As such, the SFDPH would require a Soil Management Plan (SMP) and Health and Safety (H&S) Plan be prepared and followed during construction. The H&S Plan should be prepared and followed by the project contractors to outline and implement proper construction worker health and safety and monitoring procedures, including methane monitoring, during the development tasks. The SFDPH may require a methane mitigation system be constructed as part of the building development to mitigate intrusion of methane gas into the future Site structure. The system design would require review and approval by the SFDPH prior to construction. Installation of this system, if needed, and soil excavation tasks should be periodically observed during construction to confirm that the mitigation system was properly installed and that the soil was handled according to requirements of the SMP. Upon construction completion, an environmental regulatory closure report and an Operations & Maintenance (O&M) plan for the methane mitigation system should be prepared and submitted to the SFDPH for approval.

8.0 LIMITATIONS

Descriptions of specific field activities and historical events are based on our observations and on information provided by others. The opinions and information presented in this report apply to Site conditions and the information that was available at the time the work was performed and do not apply to changes of which we are not aware or have not had the opportunity to evaluate. Treadwell & Rollo makes no guarantees or warranties with respect to the accuracy or completeness of this information.

⁶ *Phase I Environmental Site Assessment and Limited Phase II Site Investigation Report* by Stellar Environmental Solutions, Inc, dated 28 October 2011.

TABLES

Table 1
Soil Gas and Ambient Air Analytical Results
801 Brannan Street
San Francisco, California

Sample ID	Purge Volumes	Sample Depth (feet below ground surface)	Date Sampled	TPH	VOCs																					Tracer Gas	
				TPHg	Acetone	Benzene	2-Butanone	Carbon Disulfide	Carbon Tetra-chloride	Chloroform	Chloro-methane	Dichloro-difluoro-methane	1,1-Dichloro-ethane	Ethyl-benzene	Methyl-tert-butyl-ether	Methylene Chloride	o-Xylene	p/m-Xylene	Tetrachloro-ethene	Toluene	Trichloro-fluoro-methane	1,1,1-Trichloro-ethane	1,1,2-Trichloro-1,2,2-Trifluoro-ethane	1,2,4-Trimethyl-benzene	All Other VOCs	Methane	Helium
				µg/m³																							(%v)
TR-SG-1*	3	5.0	06/17/13	<7,000	63	<1.7	8.1	<6.6	<3.3	<2.6	<1.1	<2.6	160	<2.3	<7.6	<18	<2.3	<9.1	<3.6	<2.0	<6.0	58	<12	<7.8	ND	12.3	<0.01
Dup-1 *	3	5.0	06/17/13	<7,000	100	<1.8	9.1	<6.9	<3.5	<2.7	<1.1	<2.7	160	<2.4	<8.0	<19	<2.4	<9.6	<3.8	<2.1	<6.2	60	<13	<8.2	ND	13.0	<0.01
TR-SG-2*	3	5.0	06/17/13	<7,000	130	8.3	39	<6.2	<3.1	<2.4	<1.0	<2.5	<2.0	3.2	130	<17	6.3	11	<3.4	17	<5.6	<2.7	<11	<7.4	ND	0.732	<0.01
TR-SG-3	3	5.0	06/17/13	<7,000	110	30	23	<7.2	6.9	<2.8	<1.2	<2.9	<2.3	6.9	<8.4	<20	9.1	21	5.2	40	6.8	210	<13	<8.6	ND	<0.5	<0.01
TR-SG-4	3	5.0	06/17/13	<7,000	26	4.8	<5.8	<8.2	<4.1	7.8	<1.4	<3.2	<2.7	<2.8	<9.4	<23	3.8	<11	<4.4	10	<7.4	35	<15	<9.7	ND	<0.5	<0.01
TR-SG-5	3	5.0	06/17/13	<7,000	55	7.6	13	13	<3.5	<2.7	<1.1	<2.7	<2.2	5.1	<8.0	<19	9.5	20	<3.8	17	<6.2	18	<13	<8.2	ND	<0.5	<0.01
Ambient-1	3	5.0	06/17/13	<7,000	7.3	0.41	<1.5	<1.6	0.62	<0.12	1.2	2.6	<0.10	0.2	<0.09	0.53	0.23	0.65	<0.17	1.3	1.5	0.56	0.64	0.2	ND	<0.5	<0.01
ESL - Residential Land Use				150,000	16,000,000	42	2,600,000	NE	29	230	47,000	NE	760	490	4,700	NE	52,000	52,000	210	160,000	NE	2,600,000	NE	NE	NE	NE	NE
HHSL - Residential Land Use				NE	NE	36.2	NE	NE	25.1	NE	NE	NE	NE	NE	4,000	NE	315,000	317,000	180	135,000	NE	991,000	NE	NE	NE	NE	NE

Notes:
* Sample collected at on-site building, which is about 3 feet above grade. Sample collected at about 8 feet below concrete slab, translating to about 5 feet below ground surface.
µg/m³ - micrograms per cubic meter
%v - percent volume
TPH - Total Petroleum Hydrocarbons
TPHg - Total Petroleum Hydrocarbons as Gasoline
VOCs - Volatile Organic Compounds
< - Analyte was not detected at or above the laboratory reporting limit
ND - Not detected at or above the laboratory reporting limit
NE - Not established

Environmental Screening Levels (ESL) values cited are from Summary Table E, Indoor Air and Soil Gas (Vapor Intrusion Concerns), from the 2013 Tier 1 ESLs, by the California Regional Water Quality Control Board, San Francisco Bay Region, dated May 2013.

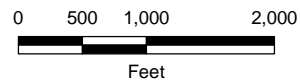
California Human Health Screening Levels (CHHSL) values cited are from Summary Table 2, California Human Health Screening Levels for Indoor Air and Soil Gas, from the *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties*, by the California Environmemntal Protection Agency, dated January 2005.

FIGURES



Notes:

1. Aerial source: Orthophoto mosaic of San Francisco proper (2012), provided by the County and City of San Francisco.
2. Map displayed in California State Plane Coordinate System , Zone III, North American Datum of 1983 (NAD83) , US Survey Feet.



801 BRANNAN STREET
San Francisco, California

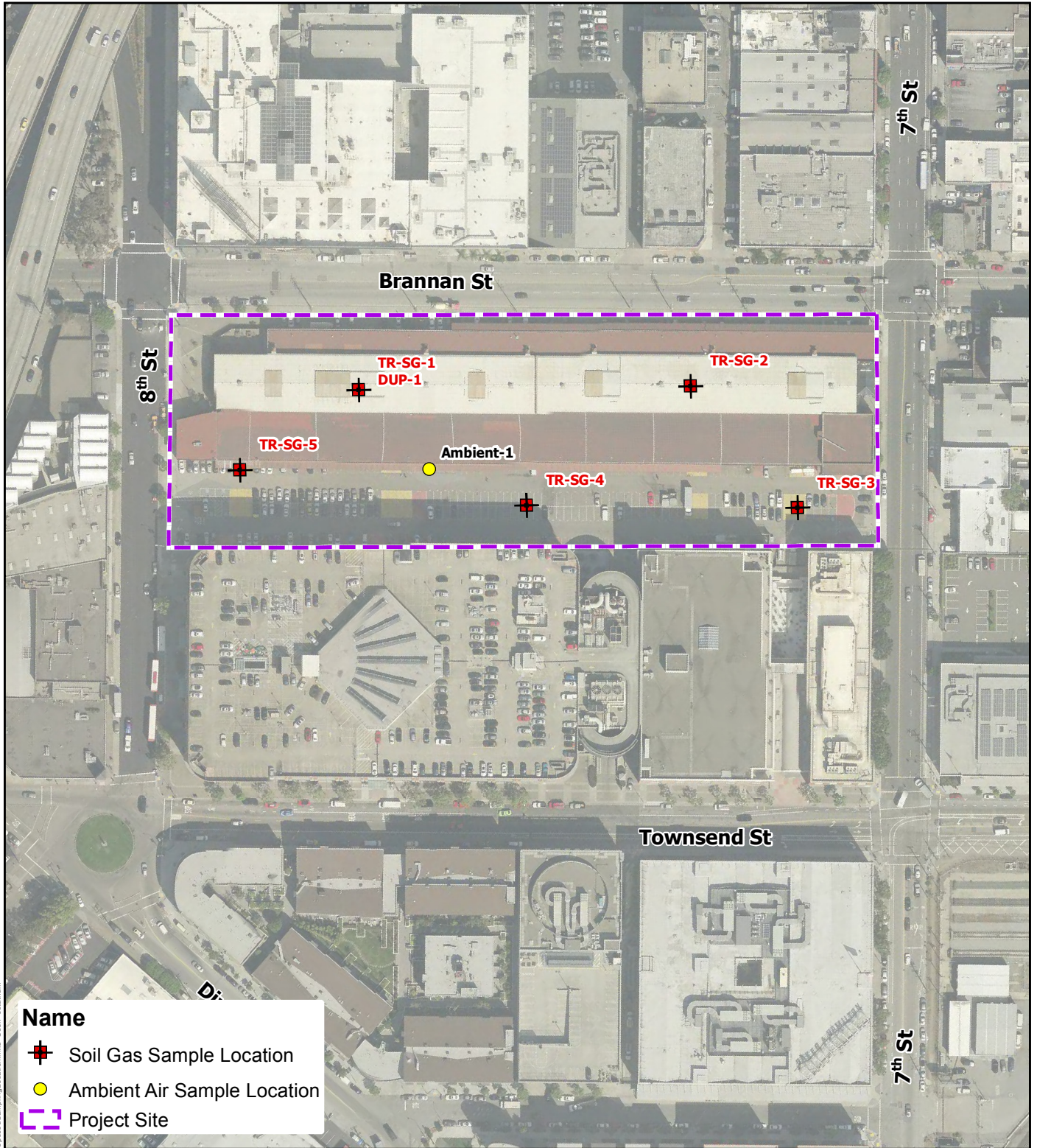
VICINITY MAP

Treadwell & Rollo
A LANGAN COMPANY

Date 6/20/2013

Project 731615201

Figure 1



801 BRANNAN STREET
San Francisco, California

SAMPLE LOCATION MAP

Treadwell & Rollo
A LANGAN COMPANY

Date 6/21/2013

Project 731615201

Figure 2

APPENDIX A
ANALYTICAL LABORATORY REPORTS



Supplemental Report 1

Additional requested analyses have been added to the original report.



CALSCIENCE

WORK ORDER NUMBER: 13-06-1141

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Treadwell & Rollo - A Langan Company

Client Project Name: 801 Brannan / 731615201

Attention: Veronica Tigla
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Approved for release on 06/28/2013 by:
Kristin Beckley
Project Manager

ResultLink ▶

Email your PM ▶



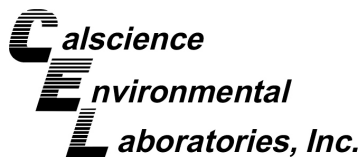
Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Contents

Client Project Name: 801 Brannan / 731615201
Work Order Number: 13-06-1141

1	Work Order Narrative.	3
2	Sample Summary.	4
3	Detections Summary.	5
4	Client Sample Data.	7
	4.1 ASTM D-1946 Fixed Gases (Air).	7
	4.2 ASTM D-1946 (M) Fixed Gases (H2 and/or He) (Air).	8
	4.3 EPA TO-15 Full List (Air).	9
	4.4 EPA TO-15 SIM (Air).	23
	4.5 EPA TO-3 (M) TPH Gasoline (Air).	27
5	Quality Control Sample Data.	28
	5.1 Sample Duplicate.	28
	5.2 LCS/LCSD.	29
6	Summa Canister Vacuum Summary.	36
7	Glossary of Terms and Qualifiers.	37
8	Chain of Custody/Sample Receipt Form.	38



Work Order Narrative

Work Order: 13-06-1141

Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 06/18/13. They were assigned to Work Order 13-06-1141.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with an immediate holding time (HT \leq 15 minutes --40CFR-136.3 Table II footnote 4), is considered a "field" test and reported samples results are not flagged unless the analysis is performed beyond 24 hours of the time of collection.

Quality Control:

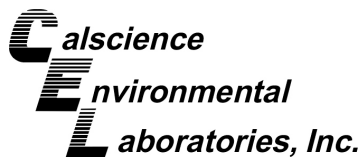
All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



Sample Summary

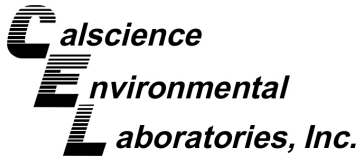
Client: Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Work Order: 13-06-1141
Project Name: 801 Brannan / 731615201
PO Number:
Date Received: 06/18/13

Attn: Veronica Tiglao

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
TR-SG-1	13-06-1141-1	06/17/13 12:31	1	Air
Dup-1	13-06-1141-2	06/17/13 12:31	1	Air
TR-SG-2	13-06-1141-3	06/17/13 13:11	1	Air
TR-SG-3	13-06-1141-4	06/17/13 14:21	1	Air
TR-SG-4	13-06-1141-5	06/17/13 15:06	1	Air
TR-SG-5	13-06-1141-6	06/17/13 15:31	1	Air
Ambient-1	13-06-1141-7	06/17/13 15:45	1	Air


Return to Contents



Detections Summary

Client: Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Work Order: 13-06-1141
Project Name: 801 Brannan / 731615201
Received: 06/18/13

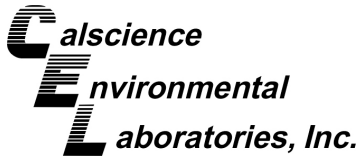
Attn: Veronica Tiglao

Page 1 of 2

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
TR-SG-1 (13-06-1141-1)						
Methane	12.3		0.500	%v	ASTM D-1946	N/A
Acetone	63		5.0	ug/m3	EPA TO-15	N/A
2-Butanone	8.1		4.7	ug/m3	EPA TO-15	N/A
1,1-Dichloroethane	160		2.1	ug/m3	EPA TO-15	N/A
1,1,1-Trichloroethane	58		2.9	ug/m3	EPA TO-15	N/A
Dup-1 (13-06-1141-2)						
Methane	13.0		0.500	%v	ASTM D-1946	N/A
Acetone	100		5.3	ug/m3	EPA TO-15	N/A
2-Butanone	9.1		4.9	ug/m3	EPA TO-15	N/A
1,1-Dichloroethane	160		2.2	ug/m3	EPA TO-15	N/A
1,1,1-Trichloroethane	60		3.0	ug/m3	EPA TO-15	N/A
TR-SG-2 (13-06-1141-3)						
Methane	0.732		0.500	%v	ASTM D-1946	N/A
Acetone	130		4.8	ug/m3	EPA TO-15	N/A
Benzene	8.3		1.6	ug/m3	EPA TO-15	N/A
2-Butanone	39		4.4	ug/m3	EPA TO-15	N/A
Ethylbenzene	3.2		2.2	ug/m3	EPA TO-15	N/A
Methyl-t-Butyl Ether (MTBE)	130		7.2	ug/m3	EPA TO-15	N/A
o-Xylene	6.3		2.2	ug/m3	EPA TO-15	N/A
p/m-Xylene	11		8.7	ug/m3	EPA TO-15	N/A
Toluene	17		1.9	ug/m3	EPA TO-15	N/A
TR-SG-3 (13-06-1141-4)						
Acetone	110		5.5	ug/m3	EPA TO-15	N/A
Benzene	30		1.9	ug/m3	EPA TO-15	N/A
2-Butanone	23		5.1	ug/m3	EPA TO-15	N/A
Carbon Tetrachloride	6.9		3.6	ug/m3	EPA TO-15	N/A
Ethylbenzene	6.9		2.5	ug/m3	EPA TO-15	N/A
o-Xylene	9.1		2.5	ug/m3	EPA TO-15	N/A
p/m-Xylene	21		10	ug/m3	EPA TO-15	N/A
Tetrachloroethene	5.2		3.9	ug/m3	EPA TO-15	N/A
Toluene	40		2.2	ug/m3	EPA TO-15	N/A
Trichlorofluoromethane	6.8		6.5	ug/m3	EPA TO-15	N/A
1,1,1-Trichloroethane	210		3.2	ug/m3	EPA TO-15	N/A

* MDL is shown



Detections Summary

Client: Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Work Order: 13-06-1141
Project Name: 801 Brannan / 731615201
Received: 06/18/13

Attn: Veronica Tiglao

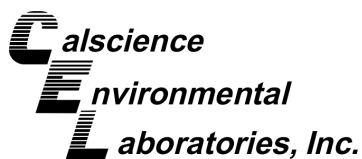
Page 2 of 2

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
TR-SG-4 (13-06-1141-5)						
Acetone	26		6.2	ug/m3	EPA TO-15	N/A
Benzene	4.8		2.1	ug/m3	EPA TO-15	N/A
Chloroform	7.8		3.2	ug/m3	EPA TO-15	N/A
o-Xylene	3.8		2.8	ug/m3	EPA TO-15	N/A
Toluene	10		2.5	ug/m3	EPA TO-15	N/A
1,1,1-Trichloroethane	35		3.6	ug/m3	EPA TO-15	N/A
TR-SG-5 (13-06-1141-6)						
Acetone	55		5.3	ug/m3	EPA TO-15	N/A
Benzene	7.6		1.8	ug/m3	EPA TO-15	N/A
2-Butanone	13		4.9	ug/m3	EPA TO-15	N/A
Carbon Disulfide	13		6.9	ug/m3	EPA TO-15	N/A
Ethylbenzene	5.1		2.4	ug/m3	EPA TO-15	N/A
o-Xylene	9.5		2.4	ug/m3	EPA TO-15	N/A
p/m-Xylene	20		9.6	ug/m3	EPA TO-15	N/A
Toluene	17		2.1	ug/m3	EPA TO-15	N/A
1,1,1-Trichloroethane	18		3.0	ug/m3	EPA TO-15	N/A
Ambient-1 (13-06-1141-7)						
1,1,1-Trichloroethane	0.56		0.14	ug/m3	EPA TO-15 SIM	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.64		0.19	ug/m3	EPA TO-15 SIM	N/A
1,2,4-Trimethylbenzene	0.20		0.12	ug/m3	EPA TO-15 SIM	N/A
Acetone	7.3		1.2	ug/m3	EPA TO-15 SIM	N/A
Benzene	0.41		0.080	ug/m3	EPA TO-15 SIM	N/A
Carbon Tetrachloride	0.62		0.063	ug/m3	EPA TO-15 SIM	N/A
Chloromethane	1.2		0.052	ug/m3	EPA TO-15 SIM	N/A
Dichlorodifluoromethane	2.6		0.12	ug/m3	EPA TO-15 SIM	N/A
Ethylbenzene	0.20		0.11	ug/m3	EPA TO-15 SIM	N/A
Methylene Chloride	0.53		0.087	ug/m3	EPA TO-15 SIM	N/A
Toluene	1.3		0.094	ug/m3	EPA TO-15 SIM	N/A
Trichlorofluoromethane	1.5		0.14	ug/m3	EPA TO-15 SIM	N/A
o-Xylene	0.23		0.11	ug/m3	EPA TO-15 SIM	N/A
p/m-Xylene	0.65		0.11	ug/m3	EPA TO-15 SIM	N/A

Subcontracted analyses, if any, are not included in this summary.

* MDL is shown



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: ASTM D-1946
Units: %v

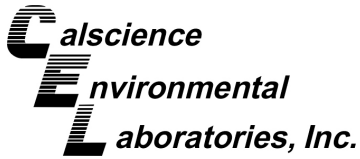
Project: 801 Brannan / 731615201

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TR-SG-1	13-06-1141-1-A	06/17/13 12:31	Air	GC 65	N/A	06/18/13 13:13	130618L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Qualifiers</u>
Methane		12.3		0.500	1		
Dup-1	13-06-1141-2-A	06/17/13 12:31	Air	GC 65	N/A	06/18/13 13:32	130618L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Qualifiers</u>
Methane		13.0		0.500	1		
TR-SG-2	13-06-1141-3-A	06/17/13 13:11	Air	GC 65	N/A	06/18/13 13:52	130618L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Qualifiers</u>
Methane		0.732		0.500	1		
TR-SG-3	13-06-1141-4-A	06/17/13 14:21	Air	GC 65	N/A	06/18/13 14:09	130618L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Qualifiers</u>
Methane		ND		0.500	1		
TR-SG-4	13-06-1141-5-A	06/17/13 15:06	Air	GC 65	N/A	06/18/13 14:28	130618L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Qualifiers</u>
Methane		ND		0.500	1		
TR-SG-5	13-06-1141-6-A	06/17/13 15:31	Air	GC 65	N/A	06/18/13 14:48	130618L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Qualifiers</u>
Methane		ND		0.500	1		
Ambient-1	13-06-1141-7-A	06/17/13 15:45	Air	GC 65	N/A	06/18/13 15:09	130618L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Qualifiers</u>
Methane		ND		0.500	1		
Method Blank	099-03-002-1839	N/A	Air	GC 65	N/A	06/18/13 11:38	130618L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Qualifiers</u>
Methane		ND		0.500	1		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: ASTM D-1946 (M)
Units: %v

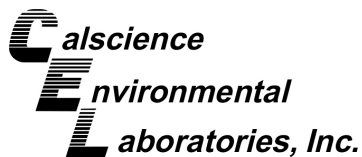
Project: 801 Brannan / 731615201

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TR-SG-1	13-06-1141-1-A	06/17/13 12:31	Air	GC 55	N/A	06/18/13 13:15	130618L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Qualifiers</u>
Helium		ND		0.0100	1		
Dup-1	13-06-1141-2-A	06/17/13 12:31	Air	GC 55	N/A	06/18/13 13:39	130618L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Qualifiers</u>
Helium		ND		0.0100	1		
TR-SG-2	13-06-1141-3-A	06/17/13 13:11	Air	GC 55	N/A	06/18/13 14:02	130618L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Qualifiers</u>
Helium		ND		0.0100	1		
TR-SG-3	13-06-1141-4-A	06/17/13 14:21	Air	GC 55	N/A	06/18/13 14:27	130618L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Qualifiers</u>
Helium		ND		0.0100	1		
TR-SG-4	13-06-1141-5-A	06/17/13 15:06	Air	GC 55	N/A	06/18/13 14:49	130618L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Qualifiers</u>
Helium		ND		0.0100	1		
TR-SG-5	13-06-1141-6-A	06/17/13 15:31	Air	GC 55	N/A	06/18/13 15:12	130618L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Qualifiers</u>
Helium		ND		0.0100	1		
Ambient-1	13-06-1141-7-A	06/17/13 15:45	Air	GC 55	N/A	06/18/13 15:44	130618L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Qualifiers</u>
Helium		ND		0.0100	1		
Method Blank	099-12-872-460	N/A	Air	GC 55	N/A	06/18/13 10:08	130618L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Qualifiers</u>
Helium		ND		0.0100	1		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

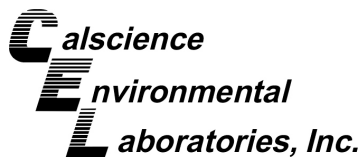
Project: 801 Brannan / 731615201

Page 1 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TR-SG-1	13-06-1141-1-A	06/17/13 12:31	Air	GC/MS KKK	N/A	06/20/13 22:50	130620L01

Parameter	Result	RL	DF	Qualifiers
Acetone	63	5.0	1.06	
Benzene	ND	1.7	1.06	
Benzyl Chloride	ND	8.2	1.06	
Bromodichloromethane	ND	3.6	1.06	
Bromoform	ND	5.5	1.06	
Bromomethane	ND	2.1	1.06	
2-Butanone	8.1	4.7	1.06	
Carbon Disulfide	ND	6.6	1.06	
Carbon Tetrachloride	ND	3.3	1.06	
Chlorobenzene	ND	2.4	1.06	
Chloroethane	ND	1.4	1.06	
Chloroform	ND	2.6	1.06	
Chloromethane	ND	1.1	1.06	
Dibromochloromethane	ND	4.5	1.06	
Dichlorodifluoromethane	ND	2.6	1.06	
1,1-Dichloroethane	160	2.1	1.06	
1,1-Dichloroethene	ND	2.1	1.06	
1,2-Dibromoethane	ND	4.1	1.06	
Dichlorotetrafluoroethane	ND	15	1.06	
1,2-Dichlorobenzene	ND	3.2	1.06	
1,2-Dichloroethane	ND	2.1	1.06	
1,2-Dichloropropane	ND	2.4	1.06	
1,3-Dichlorobenzene	ND	3.2	1.06	
1,4-Dichlorobenzene	ND	3.2	1.06	
c-1,3-Dichloropropene	ND	2.4	1.06	
c-1,2-Dichloroethene	ND	2.1	1.06	
t-1,2-Dichloroethene	ND	2.1	1.06	
t-1,3-Dichloropropene	ND	4.8	1.06	
Ethylbenzene	ND	2.3	1.06	
4-Ethyltoluene	ND	2.6	1.06	
Hexachloro-1,3-Butadiene	ND	17	1.06	
2-Hexanone	ND	6.5	1.06	
Methyl-t-Butyl Ether (MTBE)	ND	7.6	1.06	
Methylene Chloride	ND	18	1.06	
4-Methyl-2-Pentanone	ND	6.5	1.06	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 801 Brannan / 731615201

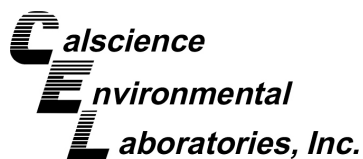
Page 2 of 14

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
o-Xylene	ND	2.3	1.06	
p/m-Xylene	ND	9.2	1.06	
Styrene	ND	6.8	1.06	
Tetrachloroethene	ND	3.6	1.06	
Toluene	ND	2.0	1.06	
Trichloroethene	ND	2.8	1.06	
Trichlorofluoromethane	ND	6.0	1.06	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	12	1.06	
1,1,1-Trichloroethane	58	2.9	1.06	
1,1,2-Trichloroethane	ND	2.9	1.06	
1,3,5-Trimethylbenzene	ND	2.6	1.06	
1,1,2,2-Tetrachloroethane	ND	7.3	1.06	
1,2,4-Trimethylbenzene	ND	7.8	1.06	
1,2,4-Trichlorobenzene	ND	16	1.06	
Vinyl Acetate	ND	7.5	1.06	
Vinyl Chloride	ND	1.4	1.06	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	102	68-134	
1,2-Dichloroethane-d4	105	67-133	
Toluene-d8	100	70-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

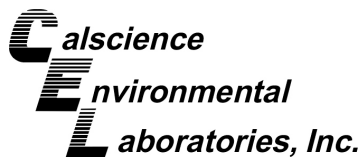
Project: 801 Brannan / 731615201

Page 3 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Dup-1	13-06-1141-2-A	06/17/13 12:31	Air	GC/MS KKK	N/A	06/20/13 21:54	130620L01

Parameter	Result	RL	DF	Qualifiers
Acetone	100	5.3	1.11	
Benzene	ND	1.8	1.11	
Benzyl Chloride	ND	8.6	1.11	
Bromodichloromethane	ND	3.7	1.11	
Bromoform	ND	5.7	1.11	
Bromomethane	ND	2.2	1.11	
2-Butanone	9.1	4.9	1.11	
Carbon Disulfide	ND	6.9	1.11	
Carbon Tetrachloride	ND	3.5	1.11	
Chlorobenzene	ND	2.6	1.11	
Chloroethane	ND	1.5	1.11	
Chloroform	ND	2.7	1.11	
Chloromethane	ND	1.1	1.11	
Dibromochloromethane	ND	4.7	1.11	
Dichlorodifluoromethane	ND	2.7	1.11	
1,1-Dichloroethane	160	2.2	1.11	
1,1-Dichloroethene	ND	2.2	1.11	
1,2-Dibromoethane	ND	4.3	1.11	
Dichlorotetrafluoroethane	ND	16	1.11	
1,2-Dichlorobenzene	ND	3.3	1.11	
1,2-Dichloroethane	ND	2.2	1.11	
1,2-Dichloropropane	ND	2.6	1.11	
1,3-Dichlorobenzene	ND	3.3	1.11	
1,4-Dichlorobenzene	ND	3.3	1.11	
c-1,3-Dichloropropene	ND	2.5	1.11	
c-1,2-Dichloroethene	ND	2.2	1.11	
t-1,2-Dichloroethene	ND	2.2	1.11	
t-1,3-Dichloropropene	ND	5.0	1.11	
Ethylbenzene	ND	2.4	1.11	
4-Ethyltoluene	ND	2.7	1.11	
Hexachloro-1,3-Butadiene	ND	18	1.11	
2-Hexanone	ND	6.8	1.11	
Methyl-t-Butyl Ether (MTBE)	ND	8.0	1.11	
Methylene Chloride	ND	19	1.11	
4-Methyl-2-Pentanone	ND	6.8	1.11	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
 555 Montgomery St., Suite 1300
 San Francisco, CA 94111-2554

Date Received: 06/18/13
 Work Order: 13-06-1141
 Preparation: N/A
 Method: EPA TO-15
 Units: ug/m3

Project: 801 Brannan / 731615201

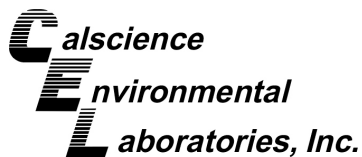
Page 4 of 14

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
o-Xylene	ND	2.4	1.11	
p/m-Xylene	ND	9.6	1.11	
Styrene	ND	7.1	1.11	
Tetrachloroethene	ND	3.8	1.11	
Toluene	ND	2.1	1.11	
Trichloroethene	ND	3.0	1.11	
Trichlorofluoromethane	ND	6.2	1.11	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	13	1.11	
1,1,1-Trichloroethane	60	3.0	1.11	
1,1,2-Trichloroethane	ND	3.0	1.11	
1,3,5-Trimethylbenzene	ND	2.7	1.11	
1,1,2,2-Tetrachloroethane	ND	7.6	1.11	
1,2,4-Trimethylbenzene	ND	8.2	1.11	
1,2,4-Trichlorobenzene	ND	16	1.11	
Vinyl Acetate	ND	7.8	1.11	
Vinyl Chloride	ND	1.4	1.11	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	106	68-134	
1,2-Dichloroethane-d4	102	67-133	
Toluene-d8	97	70-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

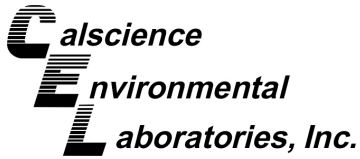
Project: 801 Brannan / 731615201

Page 5 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TR-SG-2	13-06-1141-3-A	06/17/13 13:11	Air	GC/MS KKK	N/A	06/20/13 21:00	130620L01

Parameter	Result	RL	DF	Qualifiers
Acetone	130	4.8	1	
Benzene	8.3	1.6	1	
Benzyl Chloride	ND	7.8	1	
Bromodichloromethane	ND	3.4	1	
Bromoform	ND	5.2	1	
Bromomethane	ND	1.9	1	
2-Butanone	39	4.4	1	
Carbon Disulfide	ND	6.2	1	
Carbon Tetrachloride	ND	3.1	1	
Chlorobenzene	ND	2.3	1	
Chloroethane	ND	1.3	1	
Chloroform	ND	2.4	1	
Chloromethane	ND	1.0	1	
Dibromochloromethane	ND	4.3	1	
Dichlorodifluoromethane	ND	2.5	1	
1,1-Dichloroethane	ND	2.0	1	
1,1-Dichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	3.8	1	
Dichlorotetrafluoroethane	ND	14	1	
1,2-Dichlorobenzene	ND	3.0	1	
1,2-Dichloroethane	ND	2.0	1	
1,2-Dichloropropane	ND	2.3	1	
1,3-Dichlorobenzene	ND	3.0	1	
1,4-Dichlorobenzene	ND	3.0	1	
c-1,3-Dichloropropene	ND	2.3	1	
c-1,2-Dichloroethene	ND	2.0	1	
t-1,2-Dichloroethene	ND	2.0	1	
t-1,3-Dichloropropene	ND	4.5	1	
Ethylbenzene	3.2	2.2	1	
4-Ethyltoluene	ND	2.5	1	
Hexachloro-1,3-Butadiene	ND	16	1	
2-Hexanone	ND	6.1	1	
Methyl-t-Butyl Ether (MTBE)	130	7.2	1	
Methylene Chloride	ND	17	1	
4-Methyl-2-Pentanone	ND	6.1	1	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 801 Brannan / 731615201

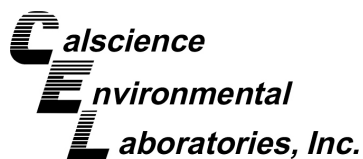
Page 6 of 14

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
o-Xylene	6.3	2.2	1	
p/m-Xylene	11	8.7	1	
Styrene	ND	6.4	1	
Tetrachloroethene	ND	3.4	1	
Toluene	17	1.9	1	
Trichloroethene	ND	2.7	1	
Trichlorofluoromethane	ND	5.6	1	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1	
1,1,1-Trichloroethane	ND	2.7	1	
1,1,2-Trichloroethane	ND	2.7	1	
1,3,5-Trimethylbenzene	ND	2.5	1	
1,1,2,2-Tetrachloroethane	ND	6.9	1	
1,2,4-Trimethylbenzene	ND	7.4	1	
1,2,4-Trichlorobenzene	ND	15	1	
Vinyl Acetate	ND	7.0	1	
Vinyl Chloride	ND	1.3	1	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	104	68-134	
1,2-Dichloroethane-d4	103	67-133	
Toluene-d8	100	70-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

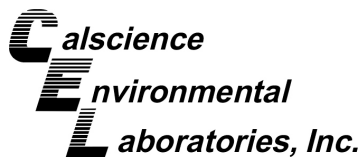
Project: 801 Brannan / 731615201

Page 7 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TR-SG-3	13-06-1141-4-A	06/17/13 14:21	Air	GC/MS KKK	N/A	06/20/13 20:06	130620L01

Parameter	Result	RL	DF	Qualifiers
Acetone	110	5.5	1.16	
Benzene	30	1.9	1.16	
Benzyl Chloride	ND	9.0	1.16	
Bromodichloromethane	ND	3.9	1.16	
Bromoform	ND	6.0	1.16	
Bromomethane	ND	2.3	1.16	
2-Butanone	23	5.1	1.16	
Carbon Disulfide	ND	7.2	1.16	
Carbon Tetrachloride	6.9	3.6	1.16	
Chlorobenzene	ND	2.7	1.16	
Chloroethane	ND	1.5	1.16	
Chloroform	ND	2.8	1.16	
Chloromethane	ND	1.2	1.16	
Dibromochloromethane	ND	4.9	1.16	
Dichlorodifluoromethane	ND	2.9	1.16	
1,1-Dichloroethane	ND	2.3	1.16	
1,1-Dichloroethene	ND	2.3	1.16	
1,2-Dibromoethane	ND	4.5	1.16	
Dichlorotetrafluoroethane	ND	16	1.16	
1,2-Dichlorobenzene	ND	3.5	1.16	
1,2-Dichloroethane	ND	2.3	1.16	
1,2-Dichloropropane	ND	2.7	1.16	
1,3-Dichlorobenzene	ND	3.5	1.16	
1,4-Dichlorobenzene	ND	3.5	1.16	
c-1,3-Dichloropropene	ND	2.6	1.16	
c-1,2-Dichloroethene	ND	2.3	1.16	
t-1,2-Dichloroethene	ND	2.3	1.16	
t-1,3-Dichloropropene	ND	5.3	1.16	
Ethylbenzene	6.9	2.5	1.16	
4-Ethyltoluene	ND	2.9	1.16	
Hexachloro-1,3-Butadiene	ND	19	1.16	
2-Hexanone	ND	7.1	1.16	
Methyl-t-Butyl Ether (MTBE)	ND	8.4	1.16	
Methylene Chloride	ND	20	1.16	
4-Methyl-2-Pentanone	ND	7.1	1.16	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 801 Brannan / 731615201

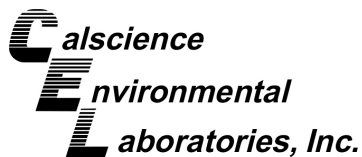
Page 8 of 14

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
o-Xylene	9.1	2.5	1.16	
p/m-Xylene	21	10	1.16	
Styrene	ND	7.4	1.16	
Tetrachloroethene	5.2	3.9	1.16	
Toluene	40	2.2	1.16	
Trichloroethene	ND	3.1	1.16	
Trichlorofluoromethane	6.8	6.5	1.16	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	13	1.16	
1,1,1-Trichloroethane	210	3.2	1.16	
1,1,2-Trichloroethane	ND	3.2	1.16	
1,3,5-Trimethylbenzene	ND	2.9	1.16	
1,1,2,2-Tetrachloroethane	ND	8.0	1.16	
1,2,4-Trimethylbenzene	ND	8.6	1.16	
1,2,4-Trichlorobenzene	ND	17	1.16	
Vinyl Acetate	ND	8.2	1.16	
Vinyl Chloride	ND	1.5	1.16	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	102	68-134	
1,2-Dichloroethane-d4	104	67-133	
Toluene-d8	100	70-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

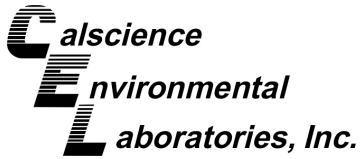
Project: 801 Brannan / 731615201

Page 9 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TR-SG-4	13-06-1141-5-A	06/17/13 15:06	Air	GC/MS KKK	N/A	06/20/13 19:10	130620L01

Parameter	Result	RL	DF	Qualifiers
Acetone	26	6.2	1.31	
Benzene	4.8	2.1	1.31	
Benzyl Chloride	ND	10	1.31	
Bromodichloromethane	ND	4.4	1.31	
Bromoform	ND	6.8	1.31	
Bromomethane	ND	2.5	1.31	
2-Butanone	ND	5.8	1.31	
Carbon Disulfide	ND	8.2	1.31	
Carbon Tetrachloride	ND	4.1	1.31	
Chlorobenzene	ND	3.0	1.31	
Chloroethane	ND	1.7	1.31	
Chloroform	7.8	3.2	1.31	
Chloromethane	ND	1.4	1.31	
Dibromochloromethane	ND	5.6	1.31	
Dichlorodifluoromethane	ND	3.2	1.31	
1,1-Dichloroethane	ND	2.7	1.31	
1,1-Dichloroethene	ND	2.6	1.31	
1,2-Dibromoethane	ND	5.0	1.31	
Dichlorotetrafluoroethane	ND	18	1.31	
1,2-Dichlorobenzene	ND	3.9	1.31	
1,2-Dichloroethane	ND	2.7	1.31	
1,2-Dichloropropane	ND	3.0	1.31	
1,3-Dichlorobenzene	ND	3.9	1.31	
1,4-Dichlorobenzene	ND	3.9	1.31	
c-1,3-Dichloropropene	ND	3.0	1.31	
c-1,2-Dichloroethene	ND	2.6	1.31	
t-1,2-Dichloroethene	ND	2.6	1.31	
t-1,3-Dichloropropene	ND	5.9	1.31	
Ethylbenzene	ND	2.8	1.31	
4-Ethyltoluene	ND	3.2	1.31	
Hexachloro-1,3-Butadiene	ND	21	1.31	
2-Hexanone	ND	8.0	1.31	
Methyl-t-Butyl Ether (MTBE)	ND	9.4	1.31	
Methylene Chloride	ND	23	1.31	
4-Methyl-2-Pentanone	ND	8.0	1.31	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
 555 Montgomery St., Suite 1300
 San Francisco, CA 94111-2554

Date Received: 06/18/13
 Work Order: 13-06-1141
 Preparation: N/A
 Method: EPA TO-15
 Units: ug/m3

Project: 801 Brannan / 731615201

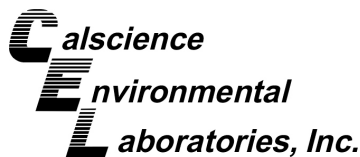
Page 10 of 14

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
o-Xylene	3.8	2.8	1.31	
p/m-Xylene	ND	11	1.31	
Styrene	ND	8.4	1.31	
Tetrachloroethene	ND	4.4	1.31	
Toluene	10	2.5	1.31	
Trichloroethene	ND	3.5	1.31	
Trichlorofluoromethane	ND	7.4	1.31	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	15	1.31	
1,1,1-Trichloroethane	35	3.6	1.31	
1,1,2-Trichloroethane	ND	3.6	1.31	
1,3,5-Trimethylbenzene	ND	3.2	1.31	
1,1,2,2-Tetrachloroethane	ND	9.0	1.31	
1,2,4-Trimethylbenzene	ND	9.7	1.31	
1,2,4-Trichlorobenzene	ND	19	1.31	
Vinyl Acetate	ND	9.2	1.31	
Vinyl Chloride	ND	1.7	1.31	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	103	68-134	
1,2-Dichloroethane-d4	100	67-133	
Toluene-d8	101	70-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

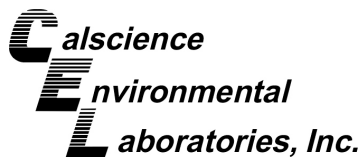
Project: 801 Brannan / 731615201

Page 11 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TR-SG-5	13-06-1141-6-A	06/17/13 15:31	Air	GC/MS KKK	N/A	06/20/13 18:13	130620L01

Parameter	Result	RL	DF	Qualifiers
Acetone	55	5.3	1.11	
Benzene	7.6	1.8	1.11	
Benzyl Chloride	ND	8.6	1.11	
Bromodichloromethane	ND	3.7	1.11	
Bromoform	ND	5.7	1.11	
Bromomethane	ND	2.2	1.11	
2-Butanone	13	4.9	1.11	
Carbon Disulfide	13	6.9	1.11	
Carbon Tetrachloride	ND	3.5	1.11	
Chlorobenzene	ND	2.6	1.11	
Chloroethane	ND	1.5	1.11	
Chloroform	ND	2.7	1.11	
Chloromethane	ND	1.1	1.11	
Dibromochloromethane	ND	4.7	1.11	
Dichlorodifluoromethane	ND	2.7	1.11	
1,1-Dichloroethane	ND	2.2	1.11	
1,1-Dichloroethene	ND	2.2	1.11	
1,2-Dibromoethane	ND	4.3	1.11	
Dichlorotetrafluoroethane	ND	16	1.11	
1,2-Dichlorobenzene	ND	3.3	1.11	
1,2-Dichloroethane	ND	2.2	1.11	
1,2-Dichloropropane	ND	2.6	1.11	
1,3-Dichlorobenzene	ND	3.3	1.11	
1,4-Dichlorobenzene	ND	3.3	1.11	
c-1,3-Dichloropropene	ND	2.5	1.11	
c-1,2-Dichloroethene	ND	2.2	1.11	
t-1,2-Dichloroethene	ND	2.2	1.11	
t-1,3-Dichloropropene	ND	5.0	1.11	
Ethylbenzene	5.1	2.4	1.11	
4-Ethyltoluene	ND	2.7	1.11	
Hexachloro-1,3-Butadiene	ND	18	1.11	
2-Hexanone	ND	6.8	1.11	
Methyl-t-Butyl Ether (MTBE)	ND	8.0	1.11	
Methylene Chloride	ND	19	1.11	
4-Methyl-2-Pentanone	ND	6.8	1.11	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 801 Brannan / 731615201

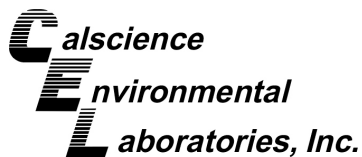
Page 12 of 14

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
o-Xylene	9.5	2.4	1.11	
p/m-Xylene	20	9.6	1.11	
Styrene	ND	7.1	1.11	
Tetrachloroethene	ND	3.8	1.11	
Toluene	17	2.1	1.11	
Trichloroethene	ND	3.0	1.11	
Trichlorofluoromethane	ND	6.2	1.11	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	13	1.11	
1,1,1-Trichloroethane	18	3.0	1.11	
1,1,2-Trichloroethane	ND	3.0	1.11	
1,3,5-Trimethylbenzene	ND	2.7	1.11	
1,1,2,2-Tetrachloroethane	ND	7.6	1.11	
1,2,4-Trimethylbenzene	ND	8.2	1.11	
1,2,4-Trichlorobenzene	ND	16	1.11	
Vinyl Acetate	ND	7.8	1.11	
Vinyl Chloride	ND	1.4	1.11	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	104	68-134	
1,2-Dichloroethane-d4	101	67-133	
Toluene-d8	96	70-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

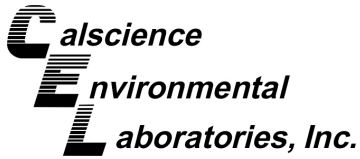
Project: 801 Brannan / 731615201

Page 13 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-021-11588	N/A	Air	GC/MS KKK	N/A	06/20/13 17:17	130620L01

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	4.8	1	
Benzene	ND	1.6	1	
Benzyl Chloride	ND	7.8	1	
Bromodichloromethane	ND	3.4	1	
Bromoform	ND	5.2	1	
Bromomethane	ND	1.9	1	
2-Butanone	ND	4.4	1	
Carbon Disulfide	ND	6.2	1	
Carbon Tetrachloride	ND	3.1	1	
Chlorobenzene	ND	2.3	1	
Chloroethane	ND	1.3	1	
Chloroform	ND	2.4	1	
Chloromethane	ND	1.0	1	
Dibromochloromethane	ND	4.3	1	
Dichlorodifluoromethane	ND	2.5	1	
1,1-Dichloroethane	ND	2.0	1	
1,1-Dichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	3.8	1	
Dichlorotetrafluoroethane	ND	14	1	
1,2-Dichlorobenzene	ND	3.0	1	
1,2-Dichloroethane	ND	2.0	1	
1,2-Dichloropropane	ND	2.3	1	
1,3-Dichlorobenzene	ND	3.0	1	
1,4-Dichlorobenzene	ND	3.0	1	
c-1,3-Dichloropropene	ND	2.3	1	
c-1,2-Dichloroethene	ND	2.0	1	
t-1,2-Dichloroethene	ND	2.0	1	
t-1,3-Dichloropropene	ND	4.5	1	
Ethylbenzene	ND	2.2	1	
4-Ethyltoluene	ND	2.5	1	
Hexachloro-1,3-Butadiene	ND	16	1	
2-Hexanone	ND	6.1	1	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Methylene Chloride	ND	17	1	
4-Methyl-2-Pentanone	ND	6.1	1	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 801 Brannan / 731615201

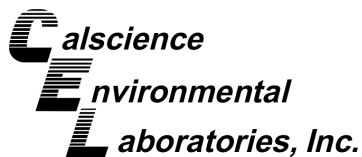
Page 14 of 14

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
o-Xylene	ND	2.2	1	
p/m-Xylene	ND	8.7	1	
Styrene	ND	6.4	1	
Tetrachloroethene	ND	3.4	1	
Toluene	ND	1.9	1	
Trichloroethene	ND	2.7	1	
Trichlorofluoromethane	ND	5.6	1	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1	
1,1,1-Trichloroethane	ND	2.7	1	
1,1,2-Trichloroethane	ND	2.7	1	
1,3,5-Trimethylbenzene	ND	2.5	1	
1,1,2,2-Tetrachloroethane	ND	6.9	1	
1,2,4-Trimethylbenzene	ND	7.4	1	
1,2,4-Trichlorobenzene	ND	15	1	
Vinyl Acetate	ND	7.0	1	
Vinyl Chloride	ND	1.3	1	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	102	68-134	
1,2-Dichloroethane-d4	98	67-133	
Toluene-d8	99	70-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15 SIM
Units: ug/m3

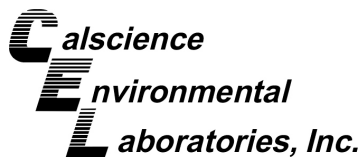
Project: 801 Brannan / 731615201

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Ambient-1	13-06-1141-7-A	06/17/13 15:45	Air	GC/MS KK	N/A	06/20/13 20:57	130620L01

Parameter	Result	RL	DF	Qualifiers
1,1,1-Trichloroethane	0.56	0.14	1	
1,1,2,2-Tetrachloroethane	ND	0.17	1	
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.64	0.19	1	
1,1,2-Trichloroethane	ND	0.14	1	
1,1-Dichloroethane	ND	0.10	1	
1,1-Dichloroethene	ND	0.099	1	
1,2,4-Trimethylbenzene	0.20	0.12	1	
1,2-Dichloroethane	ND	0.10	1	
1,3,5-Trimethylbenzene	ND	0.12	1	
2-Butanone	ND	1.5	1	
4-Ethyltoluene	ND	0.12	1	
Acetone	7.3	1.2	1	
Benzene	0.41	0.080	1	
Bromodichloromethane	ND	0.17	1	
Carbon Disulfide	ND	1.6	1	
Carbon Tetrachloride	0.62	0.063	1	
Chlorobenzene	ND	0.12	1	
Chloroethane	ND	0.066	1	
Chloroform	ND	0.12	1	
Chloromethane	1.2	0.052	1	
Dibromochloromethane	ND	0.21	1	
Dichlorodifluoromethane	2.6	0.12	1	
Ethylbenzene	0.20	0.11	1	
Hexachloro-1,3-Butadiene	ND	0.27	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.090	1	
Methylene Chloride	0.53	0.087	1	
Tetrachloroethene	ND	0.17	1	
Toluene	1.3	0.094	1	
Trichloroethene	ND	0.13	1	
Trichlorofluoromethane	1.5	0.14	1	
Vinyl Chloride	ND	0.026	1	
c-1,2-Dichloroethene	ND	0.099	1	
o-Xylene	0.23	0.11	1	
p/m-Xylene	0.65	0.11	1	
t-1,2-Dichloroethene	ND	0.099	1	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15 SIM
Units: ug/m3

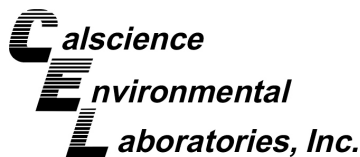
Project: 801 Brannan / 731615201

Page 2 of 4

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,2-Dichloroethane-d4	101	37-163	
1,4-Bromofluorobenzene	85	45-153	
Toluene-d8	102	73-121	


Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15 SIM
Units: ug/m3

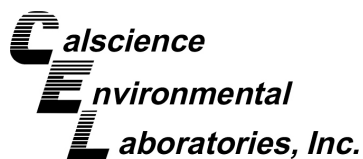
Project: 801 Brannan / 731615201

Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-214-34	N/A	Air	GC/MS KK	N/A	06/20/13 20:00	130620L01

Parameter	Result	RL	DF	Qualifiers
1,1,1-Trichloroethane	ND	0.14	1	
1,1,2,2-Tetrachloroethane	ND	0.17	1	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.19	1	
1,1,2-Trichloroethane	ND	0.14	1	
1,1-Dichloroethane	ND	0.10	1	
1,1-Dichloroethene	ND	0.099	1	
1,2,4-Trimethylbenzene	ND	0.12	1	
1,2-Dichloroethane	ND	0.10	1	
1,3,5-Trimethylbenzene	ND	0.12	1	
2-Butanone	ND	1.5	1	
4-Ethyltoluene	ND	0.12	1	
Acetone	ND	1.2	1	
Benzene	ND	0.080	1	
Bromodichloromethane	ND	0.17	1	
Carbon Disulfide	ND	1.6	1	
Carbon Tetrachloride	ND	0.063	1	
Chlorobenzene	ND	0.12	1	
Chloroethane	ND	0.066	1	
Chloroform	ND	0.12	1	
Chloromethane	ND	0.052	1	
Dibromochloromethane	ND	0.21	1	
Dichlorodifluoromethane	ND	0.12	1	
Ethylbenzene	ND	0.11	1	
Hexachloro-1,3-Butadiene	ND	0.27	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.090	1	
Methylene Chloride	ND	0.087	1	
Tetrachloroethene	ND	0.17	1	
Toluene	ND	0.094	1	
Trichloroethene	ND	0.13	1	
Trichlorofluoromethane	ND	0.14	1	
Vinyl Chloride	ND	0.026	1	
c-1,2-Dichloroethene	ND	0.099	1	
o-Xylene	ND	0.11	1	
p/m-Xylene	ND	0.11	1	
t-1,2-Dichloroethene	ND	0.099	1	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15 SIM
Units: ug/m3

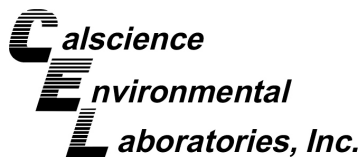
Project: 801 Brannan / 731615201

Page 4 of 4

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,2-Dichloroethane-d4	107	37-163	
1,4-Bromofluorobenzene	86	45-153	
Toluene-d8	105	73-121	


Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-3M
Units: ppm (v/v)

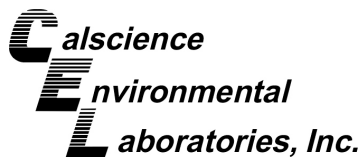
Project: 801 Brannan / 731615201

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TR-SG-1	13-06-1141-1-A	06/17/13 12:31	Air	GC 13	N/A	06/18/13 15:58	130618L01
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>	
TPH as Gasoline		ND	1.5		1		
Dup-1	13-06-1141-2-A	06/17/13 12:31	Air	GC 13	N/A	06/18/13 15:42	130618L01
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>	
TPH as Gasoline		ND	1.5		1		
TR-SG-2	13-06-1141-3-A	06/17/13 13:11	Air	GC 13	N/A	06/18/13 15:27	130618L01
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>	
TPH as Gasoline		ND	1.5		1		
TR-SG-3	13-06-1141-4-A	06/17/13 14:21	Air	GC 13	N/A	06/18/13 15:09	130618L01
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>	
TPH as Gasoline		ND	1.5		1		
TR-SG-4	13-06-1141-5-A	06/17/13 15:06	Air	GC 13	N/A	06/18/13 14:57	130618L01
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>	
TPH as Gasoline		ND	1.5		1		
TR-SG-5	13-06-1141-6-A	06/17/13 15:31	Air	GC 13	N/A	06/18/13 14:47	130618L01
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>	
TPH as Gasoline		ND	1.5		1		
Ambient-1	13-06-1141-7-A	06/17/13 15:45	Air	GC 13	N/A	06/18/13 14:25	130618L01
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>	
TPH as Gasoline		ND	1.5		1		
Method Blank	098-01-005-4769	N/A	Air	GC 13	N/A	06/18/13 09:00	130618L01
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>	
TPH as Gasoline		ND	1.5		1		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Quality Control - Sample Duplicate

Treadwell & Rollo - A Langan Company
 555 Montgomery St., Suite 1300
 San Francisco, CA 94111-2554

Date Received: 06/18/13
 Work Order: 13-06-1141
 Preparation: N/A
 Method: EPA TO-3M

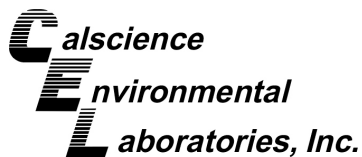
Project: 801 Brannan / 731615201

Page 1 of 1

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
13-06-1117-2	Air	GC 13	N/A	06/18/13 10:41	130618D01
<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	10750	10510	2	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS/LCSD

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13

Work Order: 13-06-1141

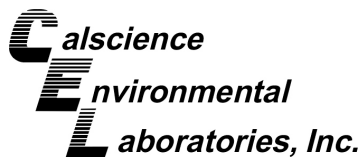
Preparation: N/A

Method: ASTM D-1946

Project: 801 Brannan / 731615201

Page 1 of 7

Quality Control Sample ID	Matrix		Instrument		Date Prepared	Date Analyzed		LCS/LCSD Batch Number	
099-03-002-1839	Air		GC 65		N/A	06/18/13 10:45		130618L01	
<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Methane	4.510	4.385	97	4.394	97	80-120	0	0-30	



Quality Control - LCS/LCSD

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: ASTM D-1946 (M)

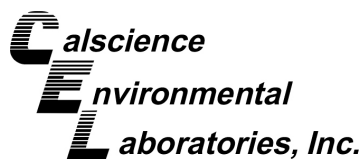
Project: 801 Brannan / 731615201

Page 2 of 7

Quality Control Sample ID	Matrix		Instrument		Date Prepared	Date Analyzed		LCS/LCSD Batch Number	
099-12-872-460	Air		GC 55		N/A	06/18/13 09:17		130618L01	
<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Helium	1.000	0.8479	85	0.8499	85	80-120	0	0-30	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS/LCSD

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

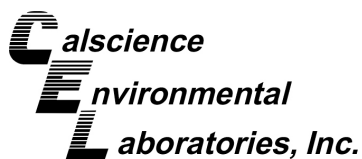
Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15

Project: 801 Brannan / 731615201

Page 3 of 7

Quality Control Sample ID		Matrix		Instrument		Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
095-01-021-11588		Air		GC/MS KKK		N/A	06/20/13 14:34	130620L01		
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acetone	59.39	49.49	83	48.59	82	67-133	56-144	2	0-30	
Benzene	79.87	77.43	97	76.51	96	70-130	60-140	1	0-30	
Benzyl Chloride	129.4	134.3	104	131.8	102	38-158	18-178	2	0-30	
Bromodichloromethane	167.5	164.2	98	163.6	98	70-130	60-140	0	0-30	
Bromoform	258.4	262.7	102	257.8	100	63-147	49-161	2	0-30	
Bromomethane	97.08	89.84	93	88.72	91	70-139	58-150	1	0-30	
2-Butanone	73.73	69.08	94	68.13	92	66-132	55-143	1	0-30	
Carbon Disulfide	77.85	74.87	96	74.17	95	68-146	55-159	1	0-30	
Carbon Tetrachloride	157.3	153.9	98	152.8	97	70-136	59-147	1	0-30	
Chlorobenzene	115.1	112.1	97	111.1	97	70-130	60-140	1	0-30	
Chloroethane	65.96	64.05	97	62.80	95	65-149	51-163	2	0-30	
Chloroform	122.1	117.2	96	115.0	94	70-130	60-140	2	0-30	
Chloromethane	51.63	46.62	90	45.61	88	69-141	57-153	2	0-30	
Dibromochloromethane	213.0	211.4	99	209.3	98	70-138	59-149	1	0-30	
Dichlorodifluoromethane	123.6	111.9	91	109.8	89	67-139	55-151	2	0-30	
1,1-Dichloroethane	101.2	97.04	96	96.12	95	70-130	60-140	1	0-30	
1,1-Dichloroethene	99.12	95.42	96	94.05	95	70-135	59-146	1	0-30	
1,2-Dibromoethane	192.1	191.2	100	187.9	98	70-133	60-144	2	0-30	
Dichlorotetrafluoroethane	174.8	160.2	92	156.7	90	51-135	37-149	2	0-30	
1,2-Dichlorobenzene	150.3	149.9	100	147.1	98	48-138	33-153	2	0-30	
1,2-Dichloroethane	101.2	98.18	97	96.50	95	70-132	60-142	2	0-30	
1,2-Dichloropropane	115.5	112.6	97	111.5	97	70-130	60-140	1	0-30	
1,3-Dichlorobenzene	150.3	150.0	100	147.7	98	56-134	43-147	2	0-30	
1,4-Dichlorobenzene	150.3	149.6	100	146.8	98	52-136	38-150	2	0-30	
c-1,3-Dichloropropene	113.5	113.1	100	112.1	99	70-130	60-140	1	0-30	
c-1,2-Dichloroethene	99.12	97.64	99	96.61	97	70-130	60-140	1	0-30	
t-1,2-Dichloroethene	99.12	97.61	98	96.79	98	70-130	60-140	1	0-30	
t-1,3-Dichloropropene	113.5	115.7	102	114.0	100	70-147	57-160	1	0-30	
Ethylbenzene	108.6	106.6	98	105.1	97	70-130	60-140	1	0-30	
4-Ethyltoluene	122.9	122.2	99	120.5	98	68-130	58-140	1	0-30	
Hexachloro-1,3-Butadiene	266.6	303.5	114	321.7	121	44-146	27-163	6	0-30	
2-Hexanone	102.4	99.42	97	98.13	96	70-136	59-147	1	0-30	
Methyl-t-Butyl Ether (MTBE)	90.13	87.29	97	85.94	95	68-130	58-140	2	0-30	
Methylene Chloride	86.84	78.65	91	78.32	90	69-130	59-140	0	0-30	
4-Methyl-2-Pentanone	102.4	98.40	96	97.46	95	70-130	60-140	1	0-30	
o-Xylene	108.6	106.9	99	105.4	97	69-130	59-140	1	0-30	
p/m-Xylene	217.1	216.6	100	214.0	99	70-132	60-142	1	0-30	

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS/LCSD

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15

Project: 801 Brannan / 731615201

Page 4 of 7

<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Styrene	106.5	104.6	98	103.2	97	65-131	54-142	1	0-30	
Tetrachloroethene	169.6	165.4	98	164.0	97	70-130	60-140	1	0-30	
Toluene	94.21	90.89	96	90.29	96	70-130	60-140	1	0-30	
Trichloroethene	134.3	131.6	98	130.4	97	70-130	60-140	1	0-30	
Trichlorofluoromethane	140.5	151.9	108	124.5	89	63-141	50-154	20	0-30	
1,1,2-Trichloro-1,2,2-Trifluoroethane	191.6	182.3	95	178.9	93	70-136	59-147	2	0-30	
1,1,1-Trichloroethane	136.4	134.1	98	132.0	97	70-130	60-140	2	0-30	
1,1,2-Trichloroethane	136.4	133.7	98	132.3	97	70-130	60-140	1	0-30	
1,3,5-Trimethylbenzene	122.9	121.5	99	120.5	98	62-130	51-141	1	0-30	
1,1,2,2-Tetrachloroethane	171.6	168.9	98	166.3	97	63-130	52-141	2	0-30	
1,2,4-Trimethylbenzene	122.9	122.0	99	119.3	97	60-132	48-144	2	0-30	
1,2,4-Trichlorobenzene	185.5	220.1	119	220.8	119	31-151	11-171	0	0-30	
Vinyl Acetate	88.03	83.65	95	82.37	94	58-130	46-142	2	0-30	
Vinyl Chloride	63.91	60.06	94	59.24	93	70-134	59-145	1	0-30	

Total number of LCS compounds: 51

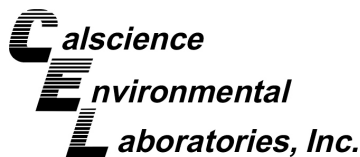
Total number of ME compounds: 0

Total number of ME compounds allowed: 3

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS/LCSD

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13

Work Order: 13-06-1141

Preparation: N/A

Method: EPA TO-15 SIM

Project: 801 Brannan / 731615201

Page 5 of 7

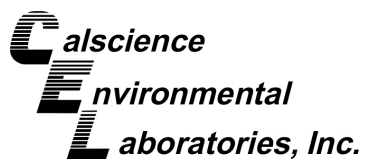
Quality Control Sample ID		Matrix		Instrument		Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-15-214-34		Air		GC/MS KK		N/A	06/20/13 16:27	130620L01		
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
1,1,1-Trichloroethane	2.728	2.714	100	2.731	100	50-150	33-167	1	0-30	
1,1,2,2-Tetrachloroethane	3.433	3.745	109	3.733	109	50-150	33-167	0	0-30	
1,1,2-Trichloro-1,2,2-Trifluoroethane	3.832	3.608	94	3.746	98	50-150	33-167	4	0-30	
1,1,2-Trichloroethane	2.728	2.793	102	2.742	101	27-171	3-195	2	0-38	
1,1-Dichloroethane	2.024	1.901	94	1.912	94	50-150	33-167	1	0-30	
1,1-Dichloroethene	1.982	1.731	87	1.705	86	50-150	33-167	1	0-30	
1,2,4-Trimethylbenzene	2.458	2.581	105	2.781	113	50-150	33-167	7	0-30	
1,2-Dichloroethane	2.024	1.789	88	1.842	91	28-166	5-189	3	0-40	
1,3,5-Trimethylbenzene	2.458	2.430	99	2.639	107	50-150	33-167	8	0-30	
4-Ethyltoluene	2.458	2.460	100	2.608	106	50-150	33-167	6	0-30	
Benzene	1.597	1.570	98	1.504	94	27-153	6-174	4	0-34	
Bromodichloromethane	3.350	3.318	99	3.321	99	50-150	33-167	0	0-30	
Carbon Tetrachloride	3.146	2.999	95	3.023	96	7-187	0-217	1	0-31	
Chlorobenzene	2.302	2.304	100	2.326	101	50-150	33-167	1	0-30	
Chloroethane	1.319	1.202	91	1.256	95	50-150	33-167	4	0-30	
Chloroform	2.441	2.198	90	2.236	92	50-150	33-167	2	0-30	
Chloromethane	1.033	0.9768	95	1.016	98	50-150	33-167	4	0-30	
Dibromochloromethane	4.259	4.489	105	4.449	104	50-150	33-167	1	0-30	
Dichlorodifluoromethane	2.473	2.441	99	2.460	100	50-150	33-167	1	0-30	
Ethylbenzene	2.171	2.177	100	2.139	99	27-153	6-174	2	0-46	
Hexachloro-1,3-Butadiene	5.333	5.314	100	5.539	104	50-150	33-167	4	0-30	
Methyl-t-Butyl Ether (MTBE)	1.803	1.548	86	1.467	81	50-150	33-167	5	0-30	
Methylene Chloride	1.737	1.485	85	1.536	88	50-150	33-167	3	0-30	
Tetrachloroethene	3.391	3.504	103	3.544	105	34-154	14-174	1	0-33	
Toluene	1.884	1.842	98	1.826	97	28-154	7-175	1	0-42	
Trichloroethene	2.687	2.463	92	2.419	90	43-139	27-155	2	0-31	
Trichlorofluoromethane	2.809	2.805	100	3.070	109	50-150	33-167	9	0-30	
Vinyl Chloride	1.278	1.059	83	1.034	81	44-140	28-156	2	0-33	
c-1,2-Dichloroethene	1.982	1.765	89	1.738	88	35-165	13-187	2	0-35	
o-Xylene	2.171	2.167	100	2.291	106	22-160	0-183	6	0-48	
p/m-Xylene	4.342	4.464	103	4.602	106	21-165	0-189	3	0-51	
t-1,2-Dichloroethene	1.982	1.802	91	1.778	90	50-150	33-167	1	0-30	

Total number of LCS compounds: 32

Total number of ME compounds: 0

Total number of ME compounds allowed: 2

RPD: Relative Percent Difference. CL: Control Limits

**Quality Control - LCS/LCSD**

Treadwell & Rollo - A Langan Company
555 Montgomery St., Suite 1300
San Francisco, CA 94111-2554

Date Received: 06/18/13
Work Order: 13-06-1141
Preparation: N/A
Method: EPA TO-15 SIM

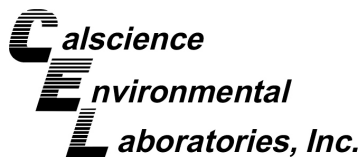
Project: 801 Brannan / 731615201

Page 6 of 7

LCS ME CL validation result: Pass



Return to Contents



Quality Control - LCS

Treadwell & Rollo - A Langan Company
 555 Montgomery St., Suite 1300
 San Francisco, CA 94111-2554

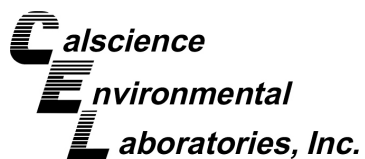
Date Received: 06/18/13
 Work Order: 13-06-1141
 Preparation: N/A
 Method: EPA TO-3M

Project: 801 Brannan / 731615201

Page 7 of 7

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	LCS Batch Number	
098-01-005-4769	Air	GC 13	06/18/13 08:48	130618L01	
<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline	200.0	192.4	96	80-120	

Return to Contents



Summa Canister Vacuum Summary

Work Order: 13-06-1141

Page 1 of 1

Sample Name	Vacuum Out	Vacuum In	Equipment	Description
TR-SG-1	-29.80 in Hg	-5.00 in Hg	SLC058	Summa Canister 1L
Dup-1	-29.80 in Hg	-5.00 in Hg	LC693	Summa Canister 1L
TR-SG-2	-29.80 in Hg	-5.00 in Hg	LC274	Summa Canister 1L
TR-SG-3	-29.80 in Hg	-5.00 in Hg	LC607	Summa Canister 1L
TR-SG-4	-29.80 in Hg	-5.00 in Hg	SLC090	Summa Canister 1L
TR-SG-5	-29.80 in Hg	-5.00 in Hg	LC465	Summa Canister 1L
Ambient-1	-29.80 in Hg	-5.00 in Hg	D213	Summa Canister 6L


Return to Contents

Glossary of Terms and Qualifiers

Work Order: 13-06-1141

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	For any analysis identified as a "field" test with a holding time (HT) <= 15 minutes where the sample is received outside of HT, Calscience will adhere to its internal HT of 24 hours. In cases where sample analysis does not meet Calscience's internal HT, results will be appropriately qualified.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Page 38 of 40

		< WebShip > > > > > 800-322-5555 www.gso.com	
Ship From: MUKTA PATIL LANGAN ENGINEERING & ENVIRONMENTAL SVCS 555 MONTGOMERY ST 1300 SAN FRANCISCO, CA 94111		Tracking #: 522065176 	PDS (1141)
Ship To: SAMPLES CALSCIENCE 7440 LINCOLN WAY GARDEN GROVE, CA 92841		ORC GARDEN GROVE A	
COD: \$0.00		D92841A  13189853	
Reference: 731615201		Delivery Instructions:	
Signature Type: OK TO LEAVE		Print Date : 06/17/13 16:30 PM	

Package 1 of 1

Send Label To Printer	<input checked="" type="checkbox"/> Print All	Edit Shipment	Finish
-----------------------	---	---------------	--------

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.

STEP 2 - Fold this page in half.

STEP 3 - Securely attach this label to your package, do not cover the barcode.

STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email	Create Return Label
----------------------	---------------------

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section.

Our liability for loss or damage to any package is limited to your actual damages or \$100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is \$500. For other shipments the highest declared value is \$10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is \$500. Items of "extraordinary value" include, but are not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.

WORK ORDER #: **13-06-11141****SAMPLE RECEIPT FORM**Box 1 of 1CLIENT: TREADWELL & POLLODATE: 06/18/13**TEMPERATURE:** Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)Temperature °C - 0.2 °C (CF) = °C ☐ Blank ☐ Sample☐ Sample(s) outside temperature criteria (PM/APM contacted by:).☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.☐ Received at ambient temperature, placed on ice for transport by Courier.Ambient Temperature: ☒ Air ☐ FilterInitial: JS**CUSTODY SEALS INTACT:**☒ Box ☐ ☐ No (Not Intact) ☐ Not Present ☐ N/AInitial: JS☐ Sample ☐ ☐ No (Not Intact) ☒ Not PresentInitial: JS**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.☐ No analysis requested. ☐ Not relinquished. ☒ No date/time relinquished.Sampler's name indicated on COC..... ☒ ☐ ☐Sample container label(s) consistent with COC..... ☒ ☐ ☐Sample container(s) intact and good condition..... ☒ ☐ ☐Proper containers and sufficient volume for analyses requested..... ☒ ☐ ☐Analyses received within holding time..... ☒ ☐ ☐pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours... ☐ ☐ ☒Proper preservation noted on COC or sample container..... ☐ ☐ ☒☐ Unpreserved vials received for Volatiles analysisVolatile analysis container(s) free of headspace..... ☐ ☐ ☒Tedlar bag(s) free of condensation..... ☐ ☐ ☒**CONTAINER TYPE:**Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (____) ☐ EnCores® ☐ TerraCores® ☐ _____Water: ☐ VOA ☐ VOA_h ☐ VOA_{na2} ☐ 125AGB ☐ 125AGB_h ☐ 125AGB_p ☐ 1AGB ☐ 1AGB_{na2} ☐ 1AGBs☐ 500AGB ☐ 500AGJ ☐ 500AGJs ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 1PB ☐ 1PB_{na} ☐ 500PB☐ 250PB ☐ 250PB_n ☒ 125PB ☐ 125PB_{znna} ☐ 100PJ ☐ 100PJ_{na2} ☐ _____ ☐ _____ ☐ _____Air: ☐ Tedlar® ☒ Canister Other: ☐ _____ Trip Blank Lot#: _____ Labeled/Checked by: JSContainer: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: JSPreservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure znna: ZnAc₂+NaOH f: Filtered Scanned by: JS

APPENDIX B

SELECTED FIGURES AND TABLES BY OTHERS

**(from *Phase I Environmental Site Assessment and Limited Phase II Site Investigation Report*
by Stellar Environmental Solutions, Inc, dated 28 October 2011)**



SOIL SAMPLE LOCATIONS

801 Brannan Street
San Francisco, CA

By: MJC

NOVEMBER 2011

Figure 6



Table 2
Summary of Soil Sample Analytical Results – Metals (10/19/11)
801 Brannan Street, San Francisco, California

Metal	B1 COMP-A	B1 COMP-B	B2 COMP	B3 COMP-A	B3 COMP-B	B4 COMP	B5 COMP-A	B5 COMP-B	ESL	Hazardous Waste Criteria (TTLC)	Hazardous Criterion (STLC) (mg/L)	Potentially Hazardous Criterion (10xSTLC)
Antimony	11	3.0	4.3	1.2	0.78	2.4	<0.5	0.68	40	500	15	150
Arsenic	8.9	9.9	21	5.2	6.1	9.2	3.8	4.1	1.6	500	5.0	50
Barium	220	120	100	260	110	220	230	98	1,500	10,000	100	1,000
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.61	8.0	100	0.75	7.5
Cadmium	0.51	<0.25	1.0	0.76	<0.25	0.30	<0.25	<0.25	7.4	500	1.0	10
Chromium (total)	790	57	65	730	66	73	45	53	2500	2,500	5.0	50
Cobalt	30	6.4	20	20	11	5.8	23	11	80	8,000	80	800
Copper	540	84	130	460	150	90	17	31	230	2,500	25	250
Lead	370	880	520	420	180	970	78	120	750	1,000	5.0	50
Mercury	0.47	0.26	0.43	0.34	0.38	0.23	0.12	0.38	10	20	0.2	2.0
Molybdenum	1.5	0.92	0.57	0.98	1.6	0.56	<0.5	2.6	40	3,500	350	3,500
Nickel	800	35	77	400	58	32	26	53	150	2,000	20	200
Selenium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10	100	1.0	10
Silver	0.67	<0.5	1.2	<0.5	0.70	0.82	1.2	<0.5	40	500	5.0	50
Thallium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	16	700	7.0	70
Vanadium	48	46	44	34	50	49	33	63	200	2,400	24	240
Zinc	560	590	710	540	190	140	47	60	600	5,000	250	2,500

Notes:

ESL = Water Board Environmental Screening Level (for shallow soil, commercial land use, groundwater is not a potential drinking water source, coarse lithology)
STLC = Soluble Threshold Limit Concentration by WET (Waste Extraction Test); TTLC = Total Threshold Limit Concentration
mg/L = milligrams per liter

All concentrations are expressed in milligrams per kilogram (mg/kg) unless otherwise noted. Concentrations in **bold** face equal or exceed their respective regulatory criterion of 10 x STLC that could be potentially hazardous. Concentrations that do not exceed the 10 x STLC but exceed the advisory ESL are in *italics*.

Table 3
Summary of Soil Sample Results –
WET & TCLP Analyses for Lead (10/19/11)
801 Brannan Street, San Francisco, California

Metal (Method)	B1 COMP-A	B1 COMP-B	B2 COMP	B3 COMP-A	B3 COMP-B	B4 COMP	B5 COMP-A	B5 COMP-B	Hazardous Criterion (STLC)	Hazardous Waste Criterion (TCLP)
Lead (TTLC)	370	880	520	420	180	970	78	120	NA	NA
Lead (STLC)	19	34	26	17	18	8.5	4.4	51	5	NA
Lead (TCLP)	0.29	0.66	<0.1	1.8	0.51	4.5	<0.1	<0.1	NA	5

Notes:

STLC = Soluble Theshold Limit Concentration

TCLP= Toxicity Characteristic Leachate Procedure

TTLC = Total Threshold Limit Concentration

WET = Waste Estraction Test

NA = Criteria not applicable to method stated

All COMP sample concentrations are expressed in milligrams per kilogram (mg/kg); the STLC (WET) and TCLP samples are expressed in milligrams per liter (mg/L). Concentrations in **bold** face equal or exceed the regulatory “Hazardous/Hazardouis Waste” criterion for lead of 5 mg/L STLC/TCLP.

Table 4
Summary of Soil Sample Analytical Results Lead –
Hydrocarbons and BTEX (10/19/11)
801 Brannan Street, San Francisco, California

Sample Name	TVHg	MBTEX	TEHd	TEHmo
B1 COMP-A	4.5	0.017 Toluene 0.012 Ethylbenzene 0.090 Xylenes	150	740
B1 COMP-B	<1.0	<0.005	170	190
B2 COMP	3.5	0.017 Benzene 0.080 Toluene 0.013 Ethylbenzene 0.16 Xylenes	280	490
B3 COMP-A	2.0	0.0055 Ethylbenzene 0.096 Xylenes	63	350
B3 COMP-B	<1.0	0.017 Xylenes	78	280
B4 COMP	<1.0	0.011 Toluene 0.034 Xylenes	51	320
B5 COMP-A	<1.0	0.010 Xylenes	13	48
B5 COMP-B	<1.0	0.014 Toluene 0.017 Xylenes	34	120
ESL	83	Various but NA	83	370

Notes:

TEHd = total extractable hydrocarbons as diesel

TEHmo = total extractable hydrocarbons as motor oil

TVHg = total volatile hydrocarbons as gasoline

NA = not applicable

ESL = Water Board Environmental Screening Level (for residential)

All concentrations are expressed in milligrams per kilogram (mg/kg). **Bold** designates exceedance of an ESL.

TABLE 1
SOIL ANALYTICAL RESULTS
801 BRANNAN STREET
SAN FRANCISCO, CALIFORNIA

Sample ID	Sample Date	Sample Depth	TRPH	8270C	8010	8260B	Cadmium	Chromium	Lead	Nickel	Zinc
			mg/kg		ug/kg				mg/kg		
EB-4-2.0	6/29/00	2.0'	230	--	ND	--	ND	45	13	43	35
EB-4-5.0	6/29/00	5.0'	110	--	--	ND	--	--	3,600	--	--
EB-4-4.0	6/29/00	4.0'	70	--	--	--	--	--	1,600	--	--
EB-4-6.0	6/29/00	6.0'	100	--	ND	--	ND	66	120	110	200
EB-5-1.0	6/29/00	1.0'	20	--	--	--	--	--	220	--	--
EB-5-3.0	6/29/00	3.0'	40	--	--	--	--	--	4,500	--	--
EB-5-4.0	6/29/00	4.0'	26,000	--	--	--	ND	43	57	39	53
EB-5-8.0	6/29/00	8.0'	ND	--	--	--	--	--	21	--	--
EB-5-9.0	6/29/00	9.0'	50	--	ND	--	--	--	32	--	--
EB-5-12.0	6/29/00	12.0'	ND	ND	--	--	--	--	ND	--	--
EB-5-20.0	6/29/00	20.0'	ND	--	ND	--	ND	25	ND	17	22
EB-6-1.0	6/29/00	1.0'	170	--	--	--	ND	21	190	16	110
EB-6-3.0	6/29/00	3.0'	11,000	ND	--	--	--	--	ND	--	--
EB-6-8.0	6/29/00	8.0'	60	--	--	--	--	--	110	--	--
EB-6-12.0	6/29/00	12.0'	130	--	--	--	ND	32	1,400	23	91
EB-6-16.0	6/29/00	16.0'	70	--	--	--	--	--	110	--	--
EB-6-20.0	6/29/00	20.0'	140	--	--	--	--	--	100	--	--
EB-7-1.5	6/29/00	1.5'	60	--	--	--	--	--	47	--	--
EB-7-4.0	6/29/00	4.0'	30	--	ND	--	--	--	26	--	--
EB-7-6.0	6/29/00	6.0'	14	--	--	ND	ND	59	21	40	40
EB-7-8.0	6/29/00	8.0'	14	--	ND	--	--	--	800	--	--
EB-7-16.0	6/29/00	16.0'	ND	--	--	--	--	--	28	--	--
EB-7-20.0	6/29/00	20.0'	ND	--	--	--	--	--	19	--	--
EB-9-3.0	6/29/00	3.0'	300	--	--	--	0.56	35	190	65	260
EB-9-4.0	6/29/00	4.0'	1,000	--	--	--	--	--	140	--	--
EB-9-5.0	6/29/00	5.0'	60	--	--	--	--	--	360	--	--
EB-9-6.0	6/29/00	6.0'	30	--	--	--	--	--	190	--	--
EB-9-7.5	6/29/00	7.5'	50	--	ND	--	--	--	17	--	--
EB-10-1.0	6/29/00	1.0'	29,000	--	--	--	--	--	9.4	--	--
EB-10-3.0	6/29/00	3.0'	170	--	--	--	--	--	370	--	--
EB-10-4.0	6/29/00	4.0'	50	--	ND	--	ND	24	3,000	20	3700
EB-10-7.0	6/29/00	7.0'	110	--	--	--	--	--	250	--	--
EB-10-8.0	6/29/00	8.0'	370	ND	--	--	--	--	260	--	--
EB-10-12.0	6/29/00	12.0'	14	--	--	ND	ND	28	4,400	60	730
EB-10-20.0	6/29/00	20.0'	160	--	--	--	--	--	720	--	--
B-1-2.5	7/5/00	2.5'	46	--	--	--	--	--	290	--	--
B-1-5.0	7/5/00	5.0'	48	--	--	--	--	--	380	--	--
B-1-15.5	7/5/00	15.5'	ND	--	--	--	--	--	ND	--	--
B-2-5.0	6/29/00	5.0'	70	--	--	--	--	--	87	--	--
B-2-7.5	6/29/00	7.5'	20	--	--	--	--	--	180	--	--
B-2-10.0	6/29/00	10.0'	11	--	--	--	--	--	29	--	--
B-3-2.5	6/29/00	2.5'	110	--	--	--	--	--	2,300	--	--
B-3-5.0	6/29/00	5.0'	40	--	--	--	--	--	98	--	--
B-3-7.5	6/29/00	7.5'	30	--	--	--	--	--	280	--	--
B-3-10.0	6/29/00	10.0'	12	--	--	--	--	--	16,000	--	--

Notes:

TRPH = Total Recoverable Petroleum Hydrocarbons-EPA Method SM5520

8010 = Halogenated Organic Compounds - EPA Method 8010

8270C = Poly Aromatic Hydrocarbons - EPA Method 8270C

8260B = Volatile Organic Compounds - EPA Method 8260B

mg/kg = milligrams per kilogram

ug/kg = micrograms per liter

BOLD indicates detected at or above the laboratory reporting limit

ND = Not detected at or above the laboratory reporting limit

-- = Not Analyzed or Not Applicable

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
801 BRANNAN STREET,
SAN FRANCISCO, CALIFORNIA

Sample ID	Sample	TRPH	TPH(mo)	TPH(d)	TPH(g)	8270C	8010	8260B	Cadmium	Chromium	Lead	Nickel	Zinc
	Date	mg/L	ug/L						mg/L				
EB-6	6/29/00	12	1,900	1,000	ND	ND	ND	--	--	--	--	--	--
EB-10	6/29/00	3	610	210	ND	--	--	ND	ND	ND	ND	ND	0.55

Notes:

mg/L = milligrams per liter

ug/L = micrograms per liter

TRPH = Total Recoverable Petroleum Hydrocarbons - EPA Method SM5520

TPH(mo) = Total Petroleum Hydrocarbons as Motor Oil, EPA Method 8015

TPH(d) = Total Petroleum Hydrocarbons as Diesel Range (C10-C23), EPA Method 8015M

TPH(g) = Total Petroleum Hydrocarbons as Gasoline, EPA Method 8015M

8270C = I Semi-Volatile Organic Compounds - EPA Method 8260C

8010 = Halogenated Organic Compounds - EPA Method 8010

8260B = Volatile Organic Compounds - EPA Method 8260B

ND = Not detected at or above the laboratory reporting limit

-- = Not Analyzed or Not Applicable