



**CONESTOGA-ROVERS
& ASSOCIATES**

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Emeryville, California 94608
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www.CRAworld.com

TRANSMITTAL

DATE: July 14, 2011 REFERENCE NO.: 060119
PROJECT NAME: 2350 (2368) Harrison Street, Oakland
TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED
11:13 am, Jul 18, 2011
Alameda County
Environmental Health

Please find enclosed: Draft Final
 Originals Other
 Prints
Sent via: Mail Same Day Courier
 Overnight Courier Other GeoTracker and Alameda County FTP

QUANTITY	DESCRIPTION
1	Soil Vapor Sampling Report

As Requested For Review and Comment
 For Your Use _____

COMMENTS:
If you have any questions regarding the contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US (electronic copy)
Richard Burge, 490 Grand Avenue, Suite 100, Oakland, CA 94610

Completed by: Peter Schaefer Signed: Peter Schaefer

Filing: Correspondence File



Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Denis L. Brown
Shell Oil Products US
HSE – Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Re: Former Shell Service Station
2350 (2368) Harrison Street
Oakland, California
SAP Code 173318
Incident No. 97743969
ACEH No. RO0000505

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me directly at (707) 865-0251.

Sincerely,

A handwritten signature in black ink, appearing to read "Denis L. Brown", is located below the word "Sincerely,".

Denis L. Brown
Senior Program Manager



SOIL VAPOR SAMPLING REPORT

FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET
OAKLAND, CALIFORNIA

SAP CODE 173318
INCIDENT NO. 97743969
AGENCY NO. RO0000505

JULY 14, 2011

REF. NO. 060119 (19)

This report is printed on recycled paper.

**Prepared by:
Conestoga-Rovers
& Associates**

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Emeryville, California
U.S.A. 94608

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EXECUTIVE SUMMARY

- On March 30, 2011, CRA sampled soil vapor probes SVP-3 through SVP-5 for TPHg and VOCs. Because the March 30, 2011 results from near sub-slab soil vapor probes SVP-4 and SVP-5 appeared anomalous compared with the March 23, 2010 results, CRA resampled these probes on June 8, 2011.
- Soil vapor probes SVP-1, SVP-2, and SVP-2A could not be sampled during either sampling event due to water in the sampling tubing.
- The soil vapor sample collected from probe SVP-3 during the March 30, 2011 event contained TPHg and benzene at concentrations exceeding RWQCB ESLs for commercial land use. It should be noted that RWQCB ESL guidance advises that "TPH ESLs must be used in conjunction with ESLs for related chemicals (e.g. BTEX, polynuclear aromatic hydrocarbons, oxidizers, etc.)." In this case, VOCs would be the appropriate related chemicals, and only benzene was detected at a concentration above ESLs. These results are consistent with previous sampling events.
- The soil vapor sample collected from probe SVP-4 during the March 30, 2011 event contained TPHg and benzene at concentrations exceeding RWQCB ESLs for commercial land use. These apparently anomalous analytical results were not confirmed during the resampling conducted on June 8, 2011. No TPHg or VOC concentrations exceeded ESLs in the soil vapor sample collected from SVP-4 during the June 8, 2011 sampling event.
- The soil vapor sample collected from probe SVP-5 during the March 30, 2011 event contained TPHg at concentrations exceeding RWQCB ESLs for commercial land use. As stated above, the RWQCB ESL guidance advises that "TPH ESLs must be used in conjunction with ESLs for related chemicals (e.g. BTEX, polynuclear aromatic hydrocarbons, oxidizers, etc.)," and no VOCs were detected at concentrations above ESLs. In addition, ^{the}TPHg analytical result from soil vapor sample collected from SVP-5 during the March 30, 2011 event was not confirmed during the resampling conducted on June 8, 2011. No TPHg was detected in the soil vapor sample collected from SVP-5 during the June 8, 2011 sampling event.
- Historically, TPHg and BTEX detections in soil vapor probes SVP-1 through SVP-3 have exceeded ESLs, but TPHg and BTEX concentrations from near sub-slab soil vapor probes SVP-4 and SVP-5, located within the sidewalk adjacent to the 7-Eleven store building, have been below ESLs. The June 8, 2011 sample results for SVP-4 and SVP-5 are similar to the results from the March 23, 2010 sampling event; therefore, the results from the March 30, 2011 event appear to be anomalous. No further soil vapor sampling is recommended.

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document the recent soil vapor probe monitoring events, as requested in Alameda County Environmental Health's March 16, 2011 letter.

The subject property is a former Shell service station located on the southern corner of the Harrison Street and Bay Place intersection in Oakland, California (Figure 1). The layout of the former station (whose address was 2368 Harrison Street) included underground fuel storage tanks, a waste oil tank, three dispenser islands, and a station building (Figure 2). The site is currently occupied by a 7-Eleven Store, whose address is 2350 Harrison Street, and the area surrounding the station is predominantly a mix of commercial and residential use.

A summary of previous work performed at the site and additional background information was submitted in CRA's September 20, 2010 *Subsurface Investigation Report* and is not repeated herein.

2.0 SAMPLING ACTIVITIES

2.1 PERSONNEL PRESENT

CRA Staff Geologist Erin Swan sampled soil vapor probes SVP-3 through SVP-5 under the supervision of California Professional Geologist Peter Schaefer.

2.2 SAMPLING DATES

March 30, 2011 and June 6, 2011.

2.3 SOIL VAPOR SAMPLING

CRA sampled soil vapor probes SVP-3 through SVP-5 using a lung box and Tedlar[®] bag. Based on the March 30, 2011 results from soil vapor probes SVP-4 and SVP-5, CRA resampled these probes on June 8, 2011.

Prior to sampling each probe, CRA purged at least three tubing volumes of air from the vapor probe using a vacuum pump. Immediately after purging, a soil vapor sample was collected using a laboratory-supplied Tedlar® bag. During sampling, the Teflon® tubing for the vapor probe was connected to a lung box containing the Tedlar® bag, and the lung box chamber was connected to the vacuum pump. The sample was then drawn into the Tedlar® bag by reducing the pressure in the lung box with the vacuum pump. The samples were labeled, documented on a chain-of-custody, and submitted to Calscience Environmental Laboratories, Inc. of Garden Grove, California for analysis within 72 hours.

To check the system for leaks, a containment unit (or shroud) was placed to cover the soil gas probe surface casing and sampling manifold. Prior to soil gas probe purging, helium was introduced into the containment unit to obtain a minimum 50 percent helium content level. The helium content within the containment unit was confirmed using a helium meter. The helium meter reading is presented in Section 3.2. The sample was analyzed by the laboratory for helium, and CRA presents the results in Section 3.2 and on Table 1.

3.0 FINDINGS

3.1 SOIL VAPOR

The soil vapor samples collected from SVP-3 through SVP-5 on March 30, 2011 contained up to 26,000,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) total petroleum hydrocarbons as gasoline (TPHg), and samples from SVP-3 and SVP-4 contained up to 1,400 $\mu\text{g}/\text{m}^3$ benzene.

The soil vapor samples collected from SVP-4 and SVP-5 on June 6, 2011 contained up to 2.2 $\mu\text{g}/\text{m}^3$ benzene. TPHg was not detected in these samples.

Table 1 summarizes historical soil vapor analytical data. TPHg, and benzene, toluene, ethylbenzene, and total xylenes (BTEX) results are shown on Figure 2, and the laboratory analytical reports are presented in Appendix A.

3.2 LEAK TESTING

CRA performed leak testing as described above, and up to 0.0184 percent by volume (%v) helium was detected in the samples. As shown in the following table, the

detections are less than 10 percent of the concentration detected in the shroud, and the samples are considered valid.

<i>Probe ID</i>	<i>Date</i>	<i>Helium concentration in sample (%v)</i>	<i>Minimum Helium detected in shroud (%v)</i>	<i>Maximum acceptable helium concentration in sample (%v)</i>
SVP-3	3/30/2011	<0.0100	62	6.2
SVP-4	3/30/2011	<0.0100	51	5.1
SVP-4	6/6/2011	<0.0100	50	5.0
SVP-5	3/30/2011	0.0184	56	5.6
SVP-5	6/6/2011	<0.0100	50	5.0

The laboratory analytical reports for helium are presented in Appendix A, and CRA includes the results on Table 1.

4.0 CONCLUSIONS AND RECOMMENDATIONS

On March 30, 2011, CRA sampled soil vapor probes SVP-3 through SVP-5 for TPHg and volatile organic compounds (VOCs). Because the March 30, 2011 results from near sub-slab soil vapor probes SVP-4 and SVP-5 appeared anomalous compared with the March 23, 2010 results, CRA resampled these probes on June 8, 2011.

The soil vapor sample collected from probe SVP-3 during the March 30, 2011 event contained TPHg and benzene at concentrations exceeding San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels¹ (ESLs) for commercial land use. It should be noted that RWQCB ESL guidance advises that "TPH ESLs must be used in conjunction with ESLs for related chemicals (e.g. BTEX, polynuclear aromatic hydrocarbons, oxidizers, etc.)." In this case, VOCs would be the appropriate related chemicals, and only benzene was detected at a concentration above ESLs. These results are consistent with previous sampling events.

The soil vapor sample collected from probe SVP-4 during the March 30, 2011 event contained TPHg and benzene at concentrations exceeding RWQCB ESLs for commercial land use. These apparently anomalous analytical results were not confirmed during the resampling conducted on June 8, 2011. No TPHg or VOC concentrations exceeded ESLs in the soil vapor sample collected from SVP-4 during the June 8, 2011 sampling event.

¹ *Screening for Environmental Concerns at Site With Contaminated Soil and Groundwater, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]*

The soil vapor sample collected from probe SVP-5 during the March 30, 2011 event contained TPHg at concentrations exceeding RWQCB ESLs for commercial land use. As stated above, the RWQCB ESL guidance advises that "TPH ESLs must be used in conjunction with ESLs for related chemicals (e.g. BTEX, polynuclear aromatic hydrocarbons, oxidizers, etc.)," and no VOCs were detected at concentrations above ESLs. In addition, the TPHg analytical result from soil vapor sample collected from SVP-5 during the March 30, 2011 event was not confirmed during the resampling conducted on June 8, 2011. No TPHg was detected in the soil vapor sample collected from SVP-5 during the June 8, 2011 sampling event.

Historically, TPHg and BTEX detections in soil vapor probes SVP-1 through SVP-3 have exceeded ESLs, but TPHg and BTEX concentrations from near sub-slab soil vapor probes SVP-4 and SVP-5, located within the sidewalk adjacent to the 7-Eleven store building, have been below ESLs. The June 8, 2011 sample results for SVP-4 and SVP-5 are similar to the results from the March 23, 2010 sampling event; therefore, the results from the March 30, 2011 event appear to be anomalous. No further soil vapor sampling is recommended.

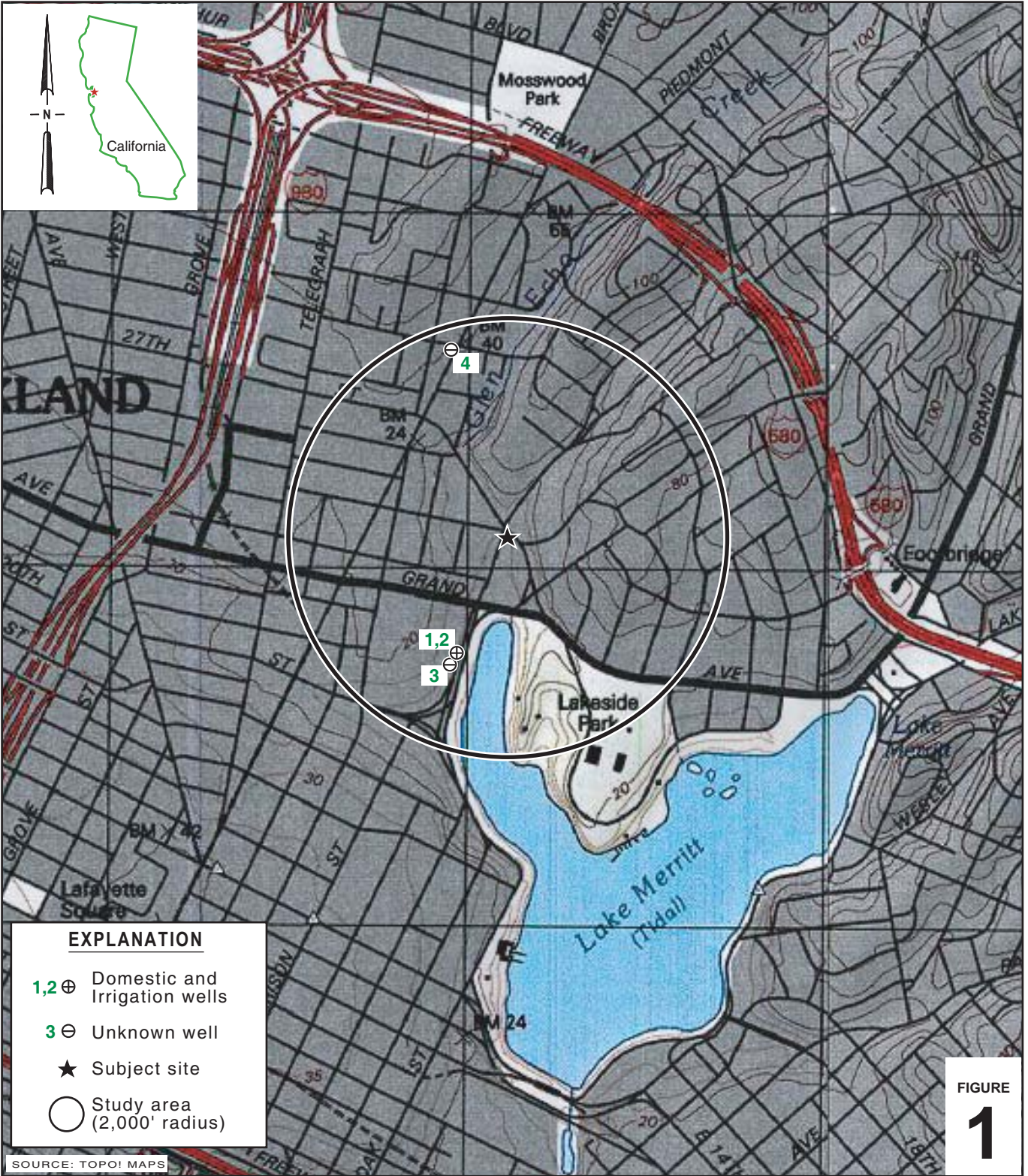
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer
Peter Schaefer, CEG, CHG

Aubrey K Cool
Aubrey K. Cool, PG



FIGURES



I:\Shell\6-chars\0601--\060119-Oakland 2350 Harrison S\060119-FIGURES\060119 VICINITY.A1

Former Shell Service Station

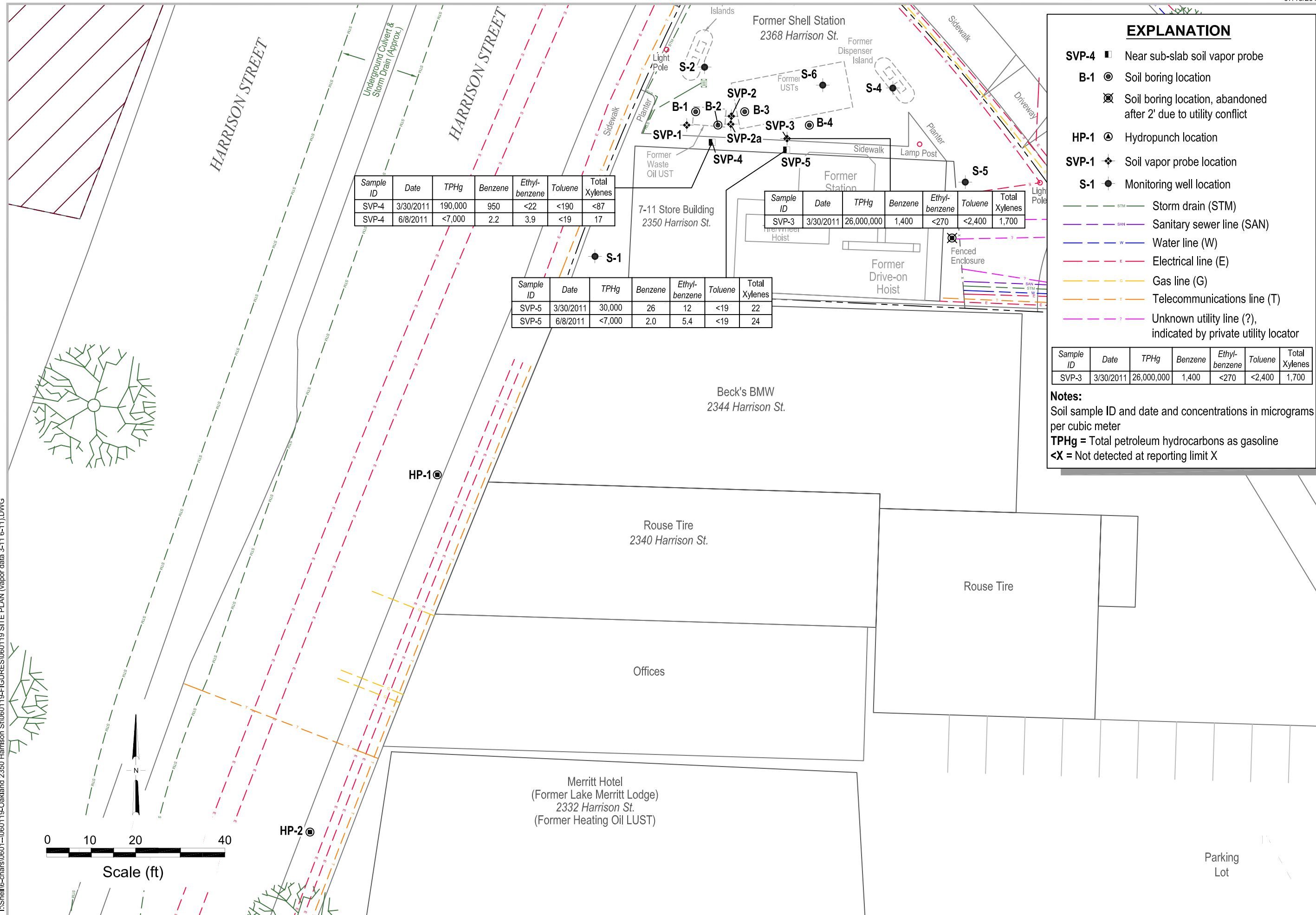
2350 (2368) Harrison Street
Oakland, California



**CONESTOGA-ROVERS
& ASSOCIATES**

Vicinity Map

I:\Shell\6-chars\0601--\060119-Oakland Harrison St\060119-FIGURES\060119 SITE PLAN (vapor data 3-11 6-11).DWG



Sample ID	Date	TPHg	Benzene	Ethyl-benzene	Toluene	Total Xylenes
SVP-4	3/30/2011	190,000	950	<22	<190	<87
SVP-4	6/8/2011	<7,000	2.2	3.9	<19	17

Sample ID	Date	TPHg	Benzene	Ethyl-benzene	Toluene	Total Xylenes
SVP-3	3/30/2011	26,000,000	1,400	<270	<2,400	1,700

Sample ID	Date	TPHg	Benzene	Ethyl-benzene	Toluene	Total Xylenes
SVP-5	3/30/2011	30,000	26	12	<19	22
SVP-5	6/8/2011	<7,000	2.0	5.4	<19	24

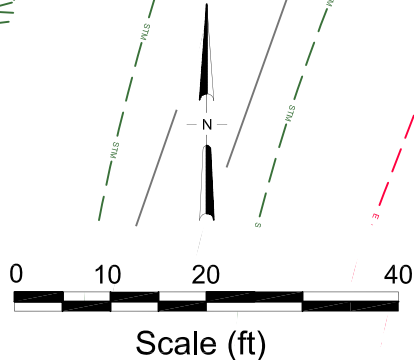
EXPLANATION

- SVP-4** ■ Near sub-slab soil vapor probe
- B-1** ● Soil boring location
- ⊗ Soil boring location, abandoned after 2' due to utility conflict
- HP-1** ⊙ Hydropunch location
- SVP-1** ◆ Soil vapor probe location
- S-1** ● Monitoring well location

- STM --- Storm drain (STM)
- SAN --- Sanitary sewer line (SAN)
- W --- Water line (W)
- E --- Electrical line (E)
- G --- Gas line (G)
- T --- Telecommunications line (T)
- ? --- Unknown utility line (?), indicated by private utility locator

Sample ID	Date	TPHg	Benzene	Ethyl-benzene	Toluene	Total Xylenes
SVP-3	3/30/2011	26,000,000	1,400	<270	<2,400	1,700

Notes:
 Soil sample ID and date and concentrations in micrograms per cubic meter
TPHg = Total petroleum hydrocarbons as gasoline
<X = Not detected at reporting limit X



Soil Vapor Data Map

March 30 and June 8, 2011



Former Shell Service Station

2350 (2368) Harrison Street
 Oakland, California

TABLE

TABLE 1

HISTORICAL SOIL VAPOR ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Screened Interval (fbg)	TPHg	Acetone	Benzene	Carbon Disulfide	Chloroform	Dichloro-difluoromethane	Ethylbenzene	4-Ethyltoluene	Toluene	Total Xylenes	1,3,5-Tri-methylbenzene	1,2,4-Tri-methylbenzene	Helium (%v)	Oxygen & Argon (%v)	Carbon Dioxide (%v)	Methane (%v)
SVP-1	5/28/2009	4.4-4.5	—	<3,000	52,000	<3,900	<1,500	<1,600	5,200	<1,500	5,000	6,500	<1,500	<3,100	0.195	—	—	—
SVP-2	5/28/2009	4.4-4.5	—	44,000	530,000	<30,000	<12,000	<12,000	14,000	<12,000	<42,000	11,000	<12,000	<24,000	<0.0177	—	—	—
SVP-2-DUP	5/28/2009	4.4-4.5	—	48,000	520,000	<31,000	<12,000	<12,000	12,000	<12,000	10,000	<43,000	<12,000	<24,000	0.165	—	—	—
SVP-2	3/23/2010	4.4-4.5	75,000,000	<590,000 ^a	160,000 ^a	<160,000 ^a	<12,000 ^a	<12,000 ^a	<11,000 ^a	25,000 ^a	<94,000 ^a	160,000 ^a	32,000 ^a	61,000 ^a	<0.0100	2.43	9.46	10.8
SVP-3	5/28/2009	4.4-4.5	—	<670	2,400	1,000	<340	<350	370	<350	550	1,400	<350	<690	0.266	—	—	—
SVP-3	3/23/2010	4.4-4.5	24,000,000	<24,000 ^a	1,400 ^a	<6,200 ^a	<490 ^a	<490 ^a	<430 ^a	<490 ^a	<3,800 ^a	<1,700 ^a	<490 ^a	<1,500 ^a	<0.0100	1.94	10.7	5.59
SVP-3	3/30/2011	4.4-4.5	26,000,000	<15,000 ^a	1,400 ^a	<3,900 ^a	<310 ^a	<310 ^a	<270 ^a	<310 ^a	<2,400 ^a	1,700 ^a	<310 ^a	<920 ^a	<0.0100	1.81	10.8	6.30
SVP-4 ^b	3/23/2010	NA	<8,300	27	<2.3	<9.0	7.2	<3.6 ^a	<3.1	<3.5	<2.7	<13	<3.5	<11	<0.0144	14.5	<0.720	<0.720
SVP-4 ^b	3/30/2011	NA	190,000	<1,200 ^a	950 ^a	<310 ^a	100 ^a	<25 ^a	<22 ^a	<25 ^a	<190 ^a	<87 ^a	<25 ^a	<74 ^a	<0.0100	19.6	0.654	<0.500
SVP-4 ^b	6/8/2011	NA	<7,000	<120 ^a	2.2 ^a	<31 ^a	19 ^a	2.6 ^a	3.9 ^a	<2.5 ^a	<19 ^a	17 ^a	<2.5 ^a	<7.4 ^a	<0.0100	19.8	1.01	<0.500
SVP-5 ^b	3/23/2010	NA	<9,400	<7.7	<2.6	<10	7.2	<4.0 ^a	<3.5	<4.0	<3.1	<14	<4.0	<12	<0.0163	12.0	1.20	<0.815
SVP-5 ^b	3/30/2011	NA	30,000	<120 ^a	26 ^a	<31 ^a	<2.4 ^a	<2.5 ^a	12 ^a	6.7 ^a	<19 ^a	22 ^a	6.3 ^a	17 ^a	0.0184	16.8	2.41	<0.500
SVP-5 ^b	6/8/2011	NA	<7,000	<120 ^a	2.0 ^a	<31 ^a	<2.4 ^a	2.6 ^a	5.4 ^a	<2.5 ^a	<19 ^a	24 ^a	<2.5 ^a	<7.4 ^a	<0.0100	18.2	1.95	<0.500
Trip Blank	5/28/2009		—	<4.8	<1.6	<6.2	<2.4	<2.5	<2.2	<2.5	<1.9	<8.7	<2.5	<4.9	<0.0100	—	—	—
SFRWQCB ESLs^c																		
Shallow Soil Gas Commercial			29,000	1,800,000	280	NA	1,500	NA	3,300	NA	180,000	58,000	NA	NA	NA	NA	NA	NA

Notes:

All results in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) unless otherwise indicated.

fbg = Feet below grade

%v = Percentage by volume

Volatile organic compounds analyzed by EPA TO-15. All detected analytes tabulated; see laboratory report for a complete list of specific constituents and results.

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method TO-3M

Helium analyzed by ASTM D-1946 (M)

Oxygen and argon, carbon dioxide, and methane analyzed by ASTM D-1946.

— = Not analyzed

NA = No applicable ESL

ESL = Environmental screening level

a = Laboratory method EPA TO-15 was modified to use Tedlar[®] bags instead of Summa canisters.

HISTORICAL SOIL VAPOR ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

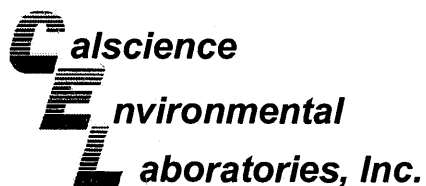
b = Near sub-slab soil vapor probes

c = San Francisco Bay Regional Water Quality Control Board commercial land use ESL for soil gas for evaluation of potential vapor intrusion concerns (Table E of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]).

Results in **bold** equal or exceed applicable ESL

APPENDIX A

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
LABORATORY REPORTS



April 11, 2011

Peter Schaefer
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Subject: **Calscience Work Order No.: 11-03-2120**
Client Reference: 2350 (2368) Harrison St., Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 3/31/2011 and analyzed in accordance with the attached chain-of-custody.

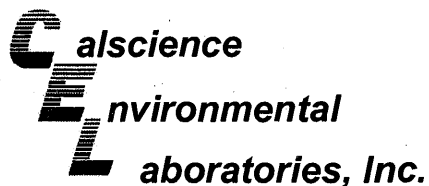
Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "Xuan Dang".

Calscience Environmental
Laboratories, Inc.
Xuan Dang
Project Manager



Analytical Report



Conestoga-Rovers & Associates
 5900 Hollis Street, Suite A
 Emeryville, CA 94608-2008

Date Received: 03/31/11
 Work Order No: 11-03-2120
 Preparation: N/A
 Method: ASTM D-1946
 Units: %v

Project: 2350 (2368) Harrison St., Oakland, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-3	11-03-2120-1-A	03/30/11 12:33	Air	GC 36	N/A	03/31/11 12:10	110331L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	6.30	0.500	1		Oxygen + Argon	1.81	0.500	1	
Carbon Dioxide	10.8	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-4	11-03-2120-2-A	03/30/11 12:00	Air	GC 36	N/A	03/31/11 12:26	110331L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	19.6	0.500	1	
Carbon Dioxide	0.654	0.500	1						

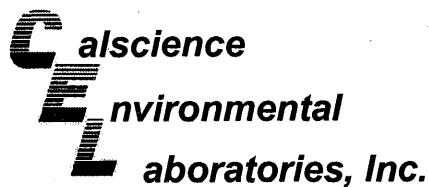
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5	11-03-2120-3-A	03/30/11 12:48	Air	GC 36	N/A	03/31/11 12:43	110331L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	16.8	0.500	1	
Carbon Dioxide	2.41	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-03-002-1,269	N/A	Air	GC 36	N/A	03/31/11 08:45	110331L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	ND	0.500	1	
Carbon Dioxide	ND	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Conestoga-Rovers & Associates
 5900 Hollis Street, Suite A
 Emeryville, CA 94608-2008

Date Received: 03/31/11
 Work Order No: 11-03-2120
 Preparation: N/A
 Method: EPA TO-3M

Project: 2350 (2368) Harrison St., Oakland, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-3	11-03-2120-1-A	03/30/11 12:33	Air	GC 13	N/A	03/31/11 12:27	110331L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	26000000	140000	20		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-4	11-03-2120-2-A	03/30/11 12:00	Air	GC 13	N/A	03/31/11 13:11	110331L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	190000	7000	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5	11-03-2120-3-A	03/30/11 12:48	Air	GC 13	N/A	03/31/11 13:24	110331L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	30000	7000	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	098-01-005-3.030	N/A	Air	GC 13	N/A	03/31/11 08:43	110331L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	7000	1		ug/m3

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: 03/31/11
Work Order No: 11-03-2120
Preparation: N/A
Method: ASTM D-1946 (M)

Project: 2350 (2368) Harrison St., Oakland, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-3	11-03-2120-1-A	03/30/11 12:33	Air	GC 55	N/A	03/31/11 13:34	110331L01

Parameter	Result	RL	DF	Qual	Units
Helium	ND	0.0100	1		%v

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-4	11-03-2120-2-A	03/30/11 12:00	Air	GC 55	N/A	03/31/11 14:01	110331L01

Parameter	Result	RL	DF	Qual	Units
Helium	ND	0.0100	1		%v

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5	11-03-2120-3-A	03/30/11 12:48	Air	GC 55	N/A	03/31/11 14:23	110331L01

Parameter	Result	RL	DF	Qual	Units
Helium	0.0184	0.0100	1		%v

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-872-87	N/A	Air	GC 55	N/A	03/31/11 12:28	110331L01

Parameter	Result	RL	DF	Qual	Units
Helium	ND	0.0100	1		%v

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Conestoga-Rovers & Associates
 5900 Hollis Street, Suite A
 Emeryville, CA 94608-2008

Date Received: 03/31/11
 Work Order No: 11-03-2120
 Preparation: N/A
 Method: EPA TO-15M
 Units: ug/m3

Project: 2350 (2368) Harrison St., Oakland, CA

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-3	11-03-2120-1-A	03/30/11 12:33	Air	GC/MS ZZ	N/A	03/31/11 20:11	110331L01

Comment(s): -The method has been modified to use Tedlar bags instead of Summa Canisters.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	15000	125		t-1,3-Dichloropropene	ND	570	125	
Benzene	1400	200	125		Ethanol	ND	12000	125	
Benzyl Chloride	ND	970	125		Ethyl-t-Butyl Ether (ETBE)	ND	1000	125	
Bromodichloromethane	ND	420	125		Ethylbenzene	ND	270	125	
Bromoform	ND	650	125		4-Ethyltoluene	ND	310	125	
Bromomethane	ND	240	125		Hexachloro-1,3-Butadiene	ND	2000	125	
2-Butanone	ND	550	125		2-Hexanone	ND	770	125	
Carbon Disulfide	ND	3900	125		Methyl-t-Butyl Ether (MTBE)	ND	900	125	
Carbon Tetrachloride	ND	390	125		Methylene Chloride	ND	2200	125	
Chlorobenzene	ND	290	125		4-Methyl-2-Pentanone	ND	770	125	
Chloroethane	ND	160	125		Naphthalene	ND	6600	125	
Chloroform	ND	310	125		Xylenes (total)	1700	1100	125	
Chloromethane	ND	130	125		Styrene	ND	800	125	
Dibromochloromethane	ND	530	125		Tert-Amyl-Methyl Ether (TAME)	ND	1000	125	
Dichlorodifluoromethane	ND	310	125		Tert-Butyl Alcohol (TBA)	ND	1900	125	
Diisopropyl Ether (DIPE)	ND	1000	125		Tetrachloroethene	ND	420	125	
1,1-Dichloroethane	ND	250	125		Toluene	ND	2400	125	
1,1-Dichloroethene	ND	250	125		Trichloroethene	ND	340	125	
1,2-Dibromoethane	ND	480	125		Trichlorofluoromethane	ND	700	125	
Dichlorotetrafluoroethane	ND	1700	125		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1400	125	
1,2-Dichlorobenzene	ND	380	125		1,1,1-Trichloroethane	ND	340	125	
1,2-Dichloroethane	ND	250	125		1,1,2-Trichloroethane	ND	340	125	
1,2-Dichloropropane	ND	290	125		1,3,5-Trimethylbenzene	ND	310	125	
1,3-Dichlorobenzene	ND	380	125		1,1,2,2-Tetrachloroethane	ND	860	125	
1,4-Dichlorobenzene	ND	380	125		1,2,4-Trimethylbenzene	ND	920	125	
c-1,3-Dichloropropene	ND	280	125		1,2,4-Trichlorobenzene	ND	1900	125	
c-1,2-Dichloroethene	ND	250	125		Vinyl Acetate	ND	880	125	
t-1,2-Dichloroethene	ND	250	125		Vinyl Chloride	ND	160	125	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	167	57-129	2		1,2-Dichloroethane-d4	90	47-137		
Toluene-d8	42	78-156	2						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Conestoga-Rovers & Associates
 5900 Hollis Street, Suite A
 Emeryville, CA 94608-2008

Date Received: 03/31/11
 Work Order No: 11-03-2120
 Preparation: N/A
 Method: EPA TO-15M
 Units: ug/m3

Project: 2350 (2368) Harrison St., Oakland, CA

Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-4	11-03-2120-2-A	03/30/11 12:00	Air	GC/MS ZZ	N/A	03/31/11 17:01	110331L01

Comment(s): -The method has been modified to use Tedlar bags instead of Summa Canisters.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	1200	10		t-1,3-Dichloropropene	ND	45	10	
Benzene	950	16	10		Ethanol	ND	940	10	
Benzyl Chloride	ND	78	10		Ethyl-t-Butyl Ether (ETBE)	ND	84	10	
Bromodichloromethane	ND	34	10		Ethylbenzene	ND	22	10	
Bromoform	ND	52	10		4-Ethyltoluene	ND	25	10	
Bromomethane	ND	19	10		Hexachloro-1,3-Butadiene	ND	160	10	
2-Butanone	ND	44	10		2-Hexanone	ND	61	10	
Carbon Disulfide	ND	310	10		Methyl-t-Butyl Ether (MTBE)	ND	72	10	
Carbon Tetrachloride	ND	31	10		Methylene Chloride	ND	170	10	
Chlorobenzene	ND	23	10		4-Methyl-2-Pentanone	ND	61	10	
Chloroethane	ND	13	10		Naphthalene	ND	520	10	
Chloroform	100	24	10		Xylenes (total)	ND	87	10	
Chloromethane	ND	10	10		Styrene	ND	64	10	
Dibromochloromethane	ND	43	10		Tert-Amyl-Methyl Ether (TAME)	ND	84	10	
Dichlorodifluoromethane	ND	25	10		Tert-Butyl Alcohol (TBA)	ND	150	10	
Diisopropyl Ether (DIPE)	ND	84	10		Tetrachloroethene	ND	34	10	
1,1-Dichloroethane	ND	20	10		Toluene	ND	190	10	
1,1-Dichloroethene	ND	20	10		Trichloroethene	ND	27	10	
1,2-Dibromoethane	ND	38	10		Trichlorofluoromethane	ND	56	10	
Dichlorotetrafluoroethane	ND	140	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	110	10	
1,2-Dichlorobenzene	ND	30	10		1,1,1-Trichloroethane	ND	27	10	
1,2-Dichloroethane	ND	20	10		1,1,2-Trichloroethane	ND	27	10	
1,2-Dichloropropane	ND	23	10		1,3,5-Trimethylbenzene	ND	25	10	
1,3-Dichlorobenzene	ND	30	10		1,1,2,2-Tetrachloroethane	ND	69	10	
1,4-Dichlorobenzene	ND	30	10		1,2,4-Trimethylbenzene	ND	74	10	
c-1,3-Dichloropropene	ND	23	10		1,2,4-Trichlorobenzene	ND	150	10	
c-1,2-Dichloroethene	ND	20	10		Vinyl Acetate	ND	70	10	
t-1,2-Dichloroethene	ND	20	10		Vinyl Chloride	ND	13	10	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	104	57-129			1,2-Dichloroethane-d4	93	47-137		
Toluene-d8	95	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Conestoga-Rovers & Associates
 5900 Hollis Street, Suite A
 Emeryville, CA 94608-2008

Date Received: 03/31/11
 Work Order No: 11-03-2120
 Preparation: N/A
 Method: EPA TO-15M
 Units: ug/m3

Project: 2350 (2368) Harrison St., Oakland, CA

Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5	11-03-2120-3-A	03/30/11 12:48	Air	GC/MS ZZ	N/A	03/31/11 17:49	110331L01

Comment(s): -The method has been modified to use Tedlar bags instead of Summa Canisters.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		t-1,3-Dichloropropene	ND	4.5	1	
Benzene	26	1.6	1		Ethanol	ND	94	1	
Benzyl Chloride	ND	7.8	1		Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1	
Bromodichloromethane	ND	3.4	1		Ethylbenzene	12	2.2	1	
Bromoform	ND	5.2	1		4-Ethyltoluene	6.7	2.5	1	
Bromomethane	ND	1.9	1		Hexachloro-1,3-Butadiene	ND	16	1	
2-Butanone	ND	4.4	1		2-Hexanone	ND	6.1	1	
Carbon Disulfide	ND	31	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Carbon Tetrachloride	ND	3.1	1		Methylene Chloride	ND	17	1	
Chlorobenzene	ND	2.3	1		4-Methyl-2-Pentanone	ND	6.1	1	
Chloroethane	ND	1.3	1		Naphthalene	ND	52	1	
Chloroform	ND	2.4	1		Xylenes (total)	22	8.7	1	
Chloromethane	ND	1.0	1		Styrene	ND	6.4	1	
Dibromochloromethane	ND	4.3	1		Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1	
Dichlorodifluoromethane	ND	2.5	1		Tert-Butyl Alcohol (TBA)	ND	15	1	
Diisopropyl Ether (DIPE)	ND	8.4	1		Tetrachloroethene	ND	3.4	1	
1,1-Dichloroethane	ND	2.0	1		Toluene	ND	19	1	
1,1-Dichloroethene	ND	2.0	1		Trichloroethene	ND	2.7	1	
1,2-Dibromoethane	ND	3.8	1		Trichlorofluoromethane	ND	5.6	1	
Dichlorotetrafluoroethane	ND	14	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1	
1,2-Dichlorobenzene	ND	3.0	1		1,1,1-Trichloroethane	ND	2.7	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	2.7	1	
1,2-Dichloropropane	ND	2.3	1		1,3,5-Trimethylbenzene	6.3	2.5	1	
1,3-Dichlorobenzene	ND	3.0	1		1,1,2,2-Tetrachloroethane	ND	6.9	1	
1,4-Dichlorobenzene	ND	3.0	1		1,2,4-Trimethylbenzene	17	7.4	1	
c-1,3-Dichloropropene	ND	2.3	1		1,2,4-Trichlorobenzene	ND	15	1	
c-1,2-Dichloroethene	ND	2.0	1		Vinyl Acetate	ND	7.0	1	
t-1,2-Dichloroethene	ND	2.0	1		Vinyl Chloride	ND	1.3	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	118	57-129			1,2-Dichloroethane-d4	96	47-137		
Toluene-d8	81	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Conestoga-Rovers & Associates
 5900 Hollis Street, Suite A
 Emeryville, CA 94608-2008

Date Received: 03/31/11
 Work Order No: 11-03-2120
 Preparation: N/A
 Method: EPA TO-15M
 Units: ug/m3

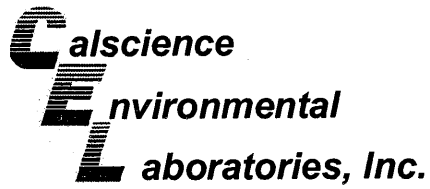
Project: 2350 (2368) Harrison St., Oakland, CA

Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-981-1,177	N/A	Air	GC/MS ZZ	N/A	03/31/11 13:35	110331L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		t-1,3-Dichloropropene	ND	4.5	1	
Benzene	ND	1.6	1		Ethanol	ND	94	1	
Benzyl Chloride	ND	7.8	1		Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1	
Bromodichloromethane	ND	3.4	1		Ethylbenzene	ND	2.2	1	
Bromoform	ND	5.2	1		4-Ethyltoluene	ND	2.5	1	
Bromomethane	ND	1.9	1		Hexachloro-1,3-Butadiene	ND	16	1	
2-Butanone	ND	4.4	1		2-Hexanone	ND	6.1	1	
Carbon Disulfide	ND	31	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Carbon Tetrachloride	ND	3.1	1		Methylene Chloride	ND	17	1	
Chlorobenzene	ND	2.3	1		4-Methyl-2-Pentanone	ND	6.1	1	
Chloroethane	ND	1.3	1		Naphthalene	ND	52	1	
Chloroform	ND	2.4	1		Xylenes (total)	ND	8.7	1	
Chloromethane	ND	1.0	1		Styrene	ND	6.4	1	
Dibromochloromethane	ND	4.3	1		Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1	
Dichlorodifluoromethane	ND	2.5	1		Tert-Butyl Alcohol (TBA)	ND	15	1	
Diisopropyl Ether (DIPE)	ND	8.4	1		Tetrachloroethene	ND	3.4	1	
1,1-Dichloroethane	ND	2.0	1		Toluene	ND	19	1	
1,1-Dichloroethene	ND	2.0	1		Trichloroethene	ND	2.7	1	
1,2-Dibromoethane	ND	3.8	1		Trichlorofluoromethane	ND	5.6	1	
Dichlorotetrafluoroethane	ND	14	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1	
1,2-Dichlorobenzene	ND	3.0	1		1,1,1-Trichloroethane	ND	2.7	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	2.7	1	
1,2-Dichloropropane	ND	2.3	1		1,3,5-Trimethylbenzene	ND	2.5	1	
1,3-Dichlorobenzene	ND	3.0	1		1,1,2,2-Tetrachloroethane	ND	6.9	1	
1,4-Dichlorobenzene	ND	3.0	1		1,2,4-Trimethylbenzene	ND	7.4	1	
c-1,3-Dichloropropene	ND	2.3	1		1,2,4-Trichlorobenzene	ND	15	1	
c-1,2-Dichloroethene	ND	2.0	1		Vinyl Acetate	ND	7.0	1	
t-1,2-Dichloroethene	ND	2.0	1		Vinyl Chloride	ND	1.3	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	100	57-129			1,2-Dichloroethane-d4	99	47-137		
Toluene-d8	98	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Duplicate



Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

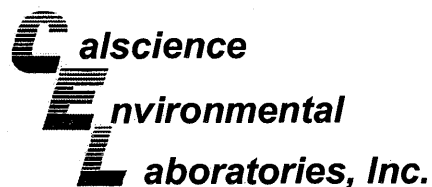
Date Received: 03/31/11
Work Order No: 11-03-2120
Preparation: N/A
Method: EPA TO-3M

Project: 2350 (2368) Harrison St., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
SVP-3	Air	GC 13	N/A	03/31/11	110331D01

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	25660000	24980000	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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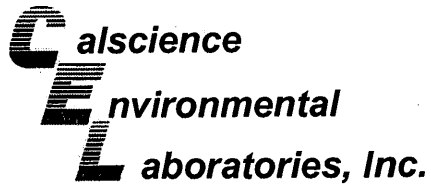
Date Received: N/A
Work Order No: 11-03-2120
Preparation: N/A
Method: ASTM D-1946

Project: 2350 (2368) Harrison St., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-03-002-1,269	Air	GC 36	N/A	03/31/11	110331L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Methane	95	96	80-120	0	0-30	
Carbon Dioxide	106	106	80-120	0	0-30	
Carbon Monoxide	103	103	80-120	0	0-30	
Oxygen + Argon	92	93	80-120	0	0-30	
Nitrogen	98	99	80-120	1	0-30	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



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Emeryville, CA 94608-2008

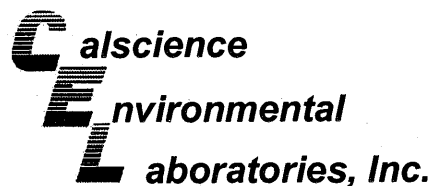
Date Received: N/A
Work Order No: 11-03-2120
Preparation: N/A
Method: ASTM D-1946 (M)

Project: 2350 (2368) Harrison St., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-872-87	Air	GC 55	N/A	03/31/11	110331L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Helium	102	103	80-120	0	0-30	
Hydrogen	111	112	80-120	0	0-30	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: N/A
Work Order No: 11-03-2120
Preparation: N/A
Method: EPA TO-15M

Project: 2350 (2368) Harrison St., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-981-1-177	Air	GC/MS ZZ	N/A	03/31/11	110331L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	105	105	60-156	44-172	0	0-40	
Carbon Tetrachloride	112	112	64-154	49-169	0	0-32	
1,2-Dibromoethane	108	107	54-144	39-159	1	0-36	
1,2-Dichlorobenzene	91	91	34-160	13-181	1	0-47	
1,2-Dichloroethane	101	102	69-153	55-167	1	0-30	
1,2-Dichloropropane	104	104	67-157	52-172	1	0-35	
1,4-Dichlorobenzene	95	95	36-156	16-176	0	0-47	
c-1,3-Dichloropropene	109	111	61-157	45-173	2	0-35	
Ethylbenzene	106	107	52-154	35-171	1	0-38	
Naphthalene	70	69	40-190	15-215	1	0-30	
Xylenes (total)	106	107	52-148	36-164	1	0-38	
Tetrachloroethene	113	111	56-152	40-168	1	0-40	
Toluene	107	106	56-146	41-161	1	0-43	
Trichloroethene	106	106	63-159	47-175	0	0-34	
1,1,2-Trichloroethane	102	104	65-149	51-163	3	0-37	
Vinyl Chloride	96	97	45-177	23-199	1	0-36	

Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 11-03-2120

<u>Qualifier</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.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS 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.
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.

LAB (LOCATION)



Shell Oil Products Chain Of Custody Record

- CALSCIENCE ()
- SPL ()
- XENCO ()
- TEST AMERICA ()
- OTHER ()

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&M	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

Print Bill To Contact Name:
Peter Schaefer

PO # _____

INCIDENT # (ENV. SERVICES): **9 7 7 4 3 9 6 9**

DATE: 3/30/2011

PAGE: 1 of 1

SAMPLING COMPANY: **Conestoga-Rovers & Associates**

ADDRESS: **5900 Hollis Street, Suite A, Emeryville, CA 94608**

PROJECT CONTACT (Hardcopy or PDF Report to):
Peter Schaefer

TELEPHONE: **510-420-3319** FAX: **510-420-9170** E-MAIL: **pschaefer@croworld.com**

SITE ADDRESS: Street and City: **2350 (2368) Harrison St., Oakland**

EDF DELIVERABLE TO (Name, Company, Office Location): **Brenda Carter, CRA, Emeryville**

PHONE NO.: **510-420-3343** E-MAIL: **shelledf@croworld.com**

CONSULTANT PROJECT NO: **060119-95-10.06**

SAMPLER NAME(S) (Print): **Erin Swan**

LAB USE ONLY: **03-2120**

TURNAROUND TIME (CALENDAR DAYS):
 STANDARD (14 DAY)
 5 DAYS
 3 DAYS
 2 DAYS
 24 HOURS
 RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT UST AGENCY:

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES :
Analyze tedlar bags within 72 hrs.
 Copy final report to Shell.Lab.Billing@croworld.com
 Report results in % by volume for ASTM 1946
 Please report results in µg/m³ for 8260. Needed detection limit of below 140 µg/m³ for 1,1,2,2-tetrachloroethane

SHELL CONTRACT RATE APPLIES
 STATE REIMBURSEMENT RATE APPLIES
 EDD NOT NEEDED
 RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification			PRESERVATIVE					NO. OF CONT.	Heilum, Oxygen, Carbon Dioxide, & Methane Method ASTM D1546 TPHg, Full scall VOCs, & Naphthalene (EPA 8260B)	TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes
				SAMPLING		MATRIX	HCL	HNO3				
	DATE	TIME										
	1	SVP-3	3/30/11	12:33	Vapor				X	X		
	2	SVP-4	3/30/11	12:00	Vapor				X	X		
	3	SVP-5	3/30/11	12:48	Vapor				X	X		

Relinquished by: (Signature) <i>Erin Swan</i>	Received by: (Signature) <i>[Signature]</i>	Date: 3/30/11	Time: 4:20
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>Wahat CER</i>	Date: 3/31/11	Time: 0800
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature)	Date:	Time:

2120



< WebShip > > > > >

800-322-5555 www.gso.com

Ship From:
ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Ship To:
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
\$0.00

Reference:
CRA

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 516261911



NPS

ORC

D

GARDEN GROVE

D92843A



89888912

Print Date : 03/30/11 16:26 PM

Package 1 of 1

Send Label To Printer

 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:

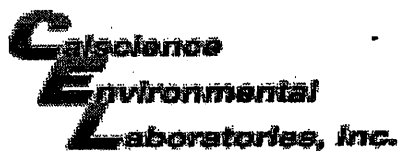
Send Label Via Email

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 #: 11-03-2120

SAMPLE RECEIPT FORM

Box 1 of 1

CLIENT: CYA

DATE: 03/31/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature _____ °C + 0.5°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 Filter

Initial: WBS

CUSTODY SEALS INTACT:

Box _____ No (Not Intact) Not Present N/A Initial: WBS

Sample _____ No (Not Intact) Not Present Initial: PS

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/> <u>PS</u> 3/31/11	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

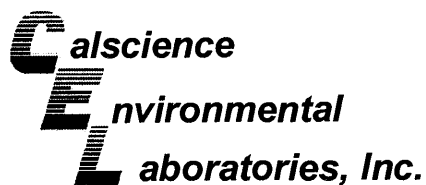
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** PS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** WBS

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** PS



June 16, 2011

Peter Schaefer
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Subject: Calscience Work Order No.: 11-06-0589
Client Reference: 2350 (2368) Harrison St., Oakland, CA

Dear Client:

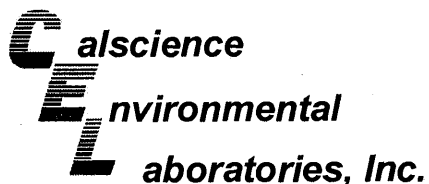
Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/9/2011 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories 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 analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Xuan Dang
Project Manager



Analytical Report



Conestoga-Rovers & Associates
 5900 Hollis Street, Suite A
 Emeryville, CA 94608-2008

Date Received: 06/09/11
 Work Order No: 11-06-0589
 Preparation: N/A
 Method: ASTM D-1946
 Units: %v

Project: 2350 (2368) Harrison St., Oakland, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-4	11-06-0589-1-A	06/08/11 13:49	Air	GC 36	N/A	06/09/11 11:07	110609L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	19.8	0.500	1	
Carbon Dioxide	1.01	0.500	1						

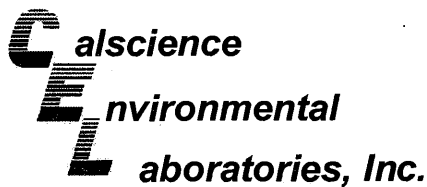
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5	11-06-0589-2-A	06/08/11 14:09	Air	GC 36	N/A	06/09/11 11:24	110609L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	18.2	0.500	1	
Carbon Dioxide	1.95	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-03-002-1.315	N/A	Air	GC 36	N/A	06/09/11 08:59	110609L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	ND	0.500	1	
Carbon Dioxide	ND	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Conestoga-Rovers & Associates
 5900 Hollis Street, Suite A
 Emeryville, CA 94608-2008

Date Received: 06/09/11
 Work Order No: 11-06-0589
 Preparation: N/A
 Method: EPA TO-3M

Project: 2350 (2368) Harrison St., Oakland, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-4	11-06-0589-1-A	06/08/11 13:49	Air	GC 13	N/A	06/09/11 11:55	110609L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	7000	1		ug/m3

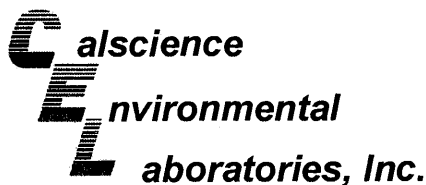
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5	11-06-0589-2-A	06/08/11 14:09	Air	GC 13	N/A	06/09/11 12:05	110609L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	7000	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	098-01-005-3,164	N/A	Air	GC 13	N/A	06/09/11 08:57	110609L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	7000	1		ug/m3

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Conestoga-Rovers & Associates
 5900 Hollis Street, Suite A
 Emeryville, CA 94608-2008

Date Received: 06/09/11
 Work Order No: 11-06-0589
 Preparation: N/A
 Method: ASTM D-1946 (M)

Project: 2350 (2368) Harrison St., Oakland, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-4	11-06-0589-1-A	06/08/11 13:49	Air	GC 55	N/A	06/09/11 13:09	110609L01

Parameter	Result	RL	DF	Qual	Units
Helium	ND	0.0100	1		%v

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5	11-06-0589-2-A	06/08/11 14:09	Air	GC 55	N/A	06/09/11 12:49	110609L01

Parameter	Result	RL	DF	Qual	Units
Helium	ND	0.0100	1		%v

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-872-115	N/A	Air	GC 55	N/A	06/09/11 12:28	110609L01

Parameter	Result	RL	DF	Qual	Units
Helium	ND	0.0100	1		%v

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Conestoga-Rovers & Associates
 5900 Hollis Street, Suite A
 Emeryville, CA 94608-2008

Date Received: 06/09/11
 Work Order No: 11-06-0589
 Preparation: N/A
 Method: EPA TO-15M
 Units: ug/m3

Project: 2350 (2368) Harrison St., Oakland, CA

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-4	11-06-0589-1-A	06/08/11 13:49	Air	GC/MS V	N/A	06/09/11 16:56	110609L01

Comment(s): -The Method has been modified to use Tedlar Bags instead of Summa Canisters and is not NELAC accredited.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		t-1,3-Dichloropropene	ND	4.5	1	
Benzene	2.2	1.6	1		Ethanol	ND	94	1	
Benzyl Chloride	ND	7.8	1		Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1	
Bromodichloromethane	ND	3.4	1		Ethylbenzene	3.9	2.2	1	
Bromoform	ND	5.2	1		4-Ethyltoluene	ND	2.5	1	
Bromomethane	ND	1.9	1		Hexachloro-1,3-Butadiene	ND	16	1	
2-Butanone	ND	4.4	1		2-Hexanone	ND	6.1	1	
Carbon Disulfide	ND	31	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Carbon Tetrachloride	ND	3.1	1		Methylene Chloride	ND	17	1	
Chlorobenzene	ND	2.3	1		4-Methyl-2-Pentanone	ND	6.1	1	
Chloroethane	ND	1.3	1		Naphthalene	ND	26	1	
Chloroform	19	2.4	1		Xylenes (total)	17	8.7	1	
Chloromethane	ND	1.0	1		Styrene	ND	6.4	1	
Dibromochloromethane	ND	4.3	1		Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1	
Dichlorodifluoromethane	2.6	2.5	1		Tert-Butyl Alcohol (TBA)	ND	15	1	
Diisopropyl Ether (DIPE)	ND	8.4	1		Tetrachloroethene	ND	3.4	1	
1,1-Dichloroethane	ND	2.0	1		Toluene	ND	19	1	
1,1-Dichloroethene	ND	2.0	1		Trichloroethene	ND	2.7	1	
1,2-Dibromoethane	ND	3.8	1		Trichlorofluoromethane	ND	5.6	1	
Dichlorotetrafluoroethane	ND	14	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1	
1,2-Dichlorobenzene	ND	3.0	1		1,1,1-Trichloroethane	ND	2.7	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	2.7	1	
1,2-Dichloropropane	ND	2.3	1		1,3,5-Trimethylbenzene	ND	2.5	1	
1,3-Dichlorobenzene	ND	3.0	1		1,1,2,2-Tetrachloroethane	ND	6.9	1	
1,4-Dichlorobenzene	ND	3.0	1		1,2,4-Trimethylbenzene	ND	7.4	1	
c-1,3-Dichloropropene	ND	2.3	1		1,2,4-Trichlorobenzene	ND	15	1	
c-1,2-Dichloroethene	ND	2.0	1		Vinyl Acetate	ND	7.0	1	
t-1,2-Dichloroethene	ND	2.0	1		Vinyl Chloride	ND	1.3	1	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	100	57-129			1,2-Dichloroethane-d4	100	47-137		
Toluene-d8	96	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report


Conestoga-Rovers & Associates
 5900 Hollis Street, Suite A
 Emeryville, CA 94608-2008

Date Received: 06/09/11
 Work Order No: 11-06-0589
 Preparation: N/A
 Method: EPA TO-15M
 Units: ug/m3

Project: 2350 (2368) Harrison St., Oakland, CA

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5	11-06-0589-2-A	06/08/11 14:09	Air	GC/MS V	N/A	06/09/11 17:52	110609L01

Comment(s): -The Method has been modified to use Tedlar Bags instead of Summa Canisters and is not NELAC accredited.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		t-1,3-Dichloropropene	ND	4.5	1	
Benzene	2.0	1.6	1		Ethanol	ND	94	1	
Benzyl Chloride	ND	7.8	1		Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1	
Bromodichloromethane	ND	3.4	1		Ethylbenzene	5.4	2.2	1	
Bromoform	ND	5.2	1		4-Ethyltoluene	ND	2.5	1	
Bromomethane	ND	1.9	1		Hexachloro-1,3-Butadiene	ND	16	1	
2-Butanone	ND	4.4	1		2-Hexanone	ND	6.1	1	
Carbon Disulfide	ND	31	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Carbon Tetrachloride	ND	3.1	1		Methylene Chloride	ND	17	1	
Chlorobenzene	ND	2.3	1		4-Methyl-2-Pentanone	ND	6.1	1	
Chloroethane	ND	1.3	1		Naphthalene	ND	26	1	
Chloroform	ND	2.4	1		Xylenes (total)	24	8.7	1	
Chloromethane	ND	1.0	1		Styrene	ND	6.4	1	
Dibromochloromethane	ND	4.3	1		Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1	
Dichlorodifluoromethane	2.6	2.5	1		Tert-Butyl Alcohol (TBA)	ND	15	1	
Diisopropyl Ether (DIPE)	ND	8.4	1		Tetrachloroethene	ND	3.4	1	
1,1-Dichloroethane	ND	2.0	1		Toluene	ND	19	1	
1,1-Dichloroethene	ND	2.0	1		Trichloroethene	ND	2.7	1	
1,2-Dibromoethane	ND	3.8	1		Trichlorofluoromethane	ND	5.6	1	
Dichlorotetrafluoroethane	ND	14	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1	
1,2-Dichlorobenzene	ND	3.0	1		1,1,1-Trichloroethane	ND	2.7	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	2.7	1	
1,2-Dichloropropane	ND	2.3	1		1,3,5-Trimethylbenzene	ND	2.5	1	
1,3-Dichlorobenzene	ND	3.0	1		1,1,2,2-Tetrachloroethane	ND	6.9	1	
1,4-Dichlorobenzene	ND	3.0	1		1,2,4-Trimethylbenzene	ND	7.4	1	
c-1,3-Dichloropropene	ND	2.3	1		1,2,4-Trichlorobenzene	ND	15	1	
c-1,2-Dichloroethene	ND	2.0	1		Vinyl Acetate	ND	7.0	1	
t-1,2-Dichloroethene	ND	2.0	1		Vinyl Chloride	ND	1.3	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	101	57-129			1,2-Dichloroethane-d4	101	47-137		
Toluene-d8	95	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Conestoga-Rovers & Associates
 5900 Hollis Street, Suite A
 Emeryville, CA 94608-2008

Date Received: 06/09/11
 Work Order No: 11-06-0589
 Preparation: N/A
 Method: EPA TO-15M
 Units: ug/m3

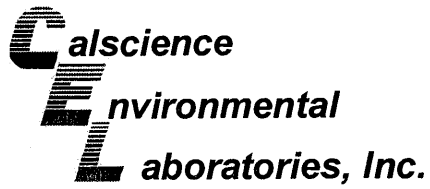
Project: 2350 (2368) Harrison St., Oakland, CA

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-981-1,302	N/A	Air	GC/MS V	N/A	06/09/11 13:15	110609L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		t-1,3-Dichloropropene	ND	4.5	1	
Benzene	ND	1.6	1		Ethanol	ND	94	1	
Benzyl Chloride	ND	7.8	1		Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1	
Bromodichloromethane	ND	3.4	1		Ethylbenzene	ND	2.2	1	
Bromoform	ND	5.2	1		4-Ethyltoluene	ND	2.5	1	
Bromomethane	ND	1.9	1		Hexachloro-1,3-Butadiene	ND	16	1	
2-Butanone	ND	4.4	1		2-Hexanone	ND	6.1	1	
Carbon Disulfide	ND	31	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Carbon Tetrachloride	ND	3.1	1		Methylene Chloride	ND	17	1	
Chlorobenzene	ND	2.3	1		4-Methyl-2-Pentanone	ND	6.1	1	
Chloroethane	ND	1.3	1		Naphthalene	ND	26	1	
Chloroform	ND	2.4	1		Xylenes (total)	ND	8.7	1	
Chloromethane	ND	1.0	1		Styrene	ND	6.4	1	
Dibromochloromethane	ND	4.3	1		Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1	
Dichlorodifluoromethane	ND	2.5	1		Tert-Butyl Alcohol (TBA)	ND	15	1	
Diisopropyl Ether (DIPE)	ND	8.4	1		Tetrachloroethene	ND	3.4	1	
1,1-Dichloroethane	ND	2.0	1		Toluene	ND	19	1	
1,1-Dichloroethene	ND	2.0	1		Trichloroethene	ND	2.7	1	
1,2-Dibromoethane	ND	3.8	1		Trichlorofluoromethane	ND	5.6	1	
Dichlorotetrafluoroethane	ND	14	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1	
1,2-Dichlorobenzene	ND	3.0	1		1,1,1-Trichloroethane	ND	2.7	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	2.7	1	
1,2-Dichloropropane	ND	2.3	1		1,3,5-Trimethylbenzene	ND	2.5	1	
1,3-Dichlorobenzene	ND	3.0	1		1,1,2,2-Tetrachloroethane	ND	6.9	1	
1,4-Dichlorobenzene	ND	3.0	1		1,2,4-Trimethylbenzene	ND	7.4	1	
c-1,3-Dichloropropene	ND	2.3	1		1,2,4-Trichlorobenzene	ND	15	1	
c-1,2-Dichloroethene	ND	2.0	1		Vinyl Acetate	ND	7.0	1	
t-1,2-Dichloroethene	ND	2.0	1		Vinyl Chloride	ND	1.3	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	99	57-129			1,2-Dichloroethane-d4	100	47-137		
Toluene-d8	98	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Duplicate



Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

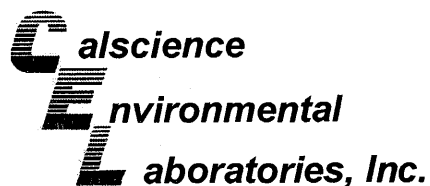
Date Received: 06/09/11
Work Order No: 11-06-0589
Preparation: N/A
Method: EPA TO-3M

Project: 2350 (2368) Harrison St., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
11-06-0506-3	Air	GC 13	N/A	06/09/11	110609D01

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	398000	393200	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

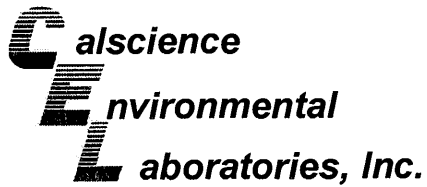
Date Received: N/A
Work Order No: 11-06-0589
Preparation: N/A
Method: ASTM D-1946

Project: 2350 (2368) Harrison St., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-03-002-1.315	Air	GC 36	N/A	06/09/11	110609L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Methane	97	96	80-120	1	0-30	
Carbon Dioxide	107	107	80-120	0	0-30	
Carbon Monoxide	104	104	80-120	1	0-30	
Oxygen + Argon	94	94	80-120	0	0-30	
Nitrogen	100	100	80-120	0	0-30	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

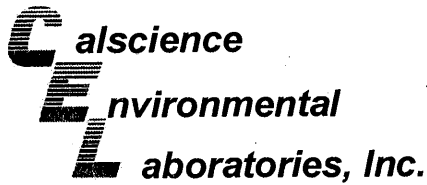
Date Received: N/A
Work Order No: 11-06-0589
Preparation: N/A
Method: ASTM D-1946 (M)

Project: 2350 (2368) Harrison St., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-872-115	Air	GC 55	N/A	06/09/11	110609L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Helium	85	88	80-120	4	0-30	
Hydrogen	85	89	80-120	5	0-30	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: N/A
Work Order No: 11-06-0589
Preparation: N/A
Method: EPA TO-15M

Project: 2350 (2368) Harrison St., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-981-1,302	Air	GC/MS V	N/A	06/09/11	110609L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	109	109	60-156	44-172	0	0-40	
Carbon Tetrachloride	112	113	64-154	49-169	1	0-32	
1,2-Dibromoethane	111	111	54-144	39-159	0	0-36	
1,2-Dichlorobenzene	104	105	34-160	13-181	1	0-47	
1,2-Dichloroethane	106	106	69-153	55-167	1	0-30	
1,2-Dichloropropane	110	110	67-157	52-172	0	0-35	
1,4-Dichlorobenzene	107	108	36-156	16-176	1	0-47	
c-1,3-Dichloropropene	114	115	61-157	45-173	1	0-35	
Ethylbenzene	111	112	52-154	35-171	1	0-38	
Naphthalene	82	83	40-190	15-215	1	0-30	
Xylenes (total)	113	114	52-148	36-164	1	0-38	
Tetrachloroethene	112	113	56-152	40-168	1	0-40	
Toluene	110	111	56-146	41-161	1	0-43	
Trichloroethene	110	110	63-159	47-175	0	0-34	
1,1,2-Trichloroethane	109	110	65-149	51-163	0	0-37	
Vinyl Chloride	113	113	45-177	23-199	0	0-36	

Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference, CL - Control Limit


 Work Order Number: 11-06-0589

<u>Qualifier</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.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS 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.
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.



Shell Oil Products Chain Of Custody Record

- LAB (LOCATION)**
- CALSCIENCE (_____)
 - SPL (_____)
 - XENCO (_____)
 - TEST AMERICA (_____)
 - OTHER (_____)

Please Check Appropriate Box:

ENV. SERVICES MOTIVA RETAIL SHELL RETAIL

MOTIVA SD&CM CONSULTANT LUBES

SHELL PIPELINE OTHER _____

Print Bill To Contact Name:
Peter Schaefer

PO #

INCIDENT # (ENV SERVICES): CHECK IF NO INCIDENT # APPLIES

9 7 7 4 3 9 6 9

DATE: 6/8/11

PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

SITE ADDRESS: Street and City: 2350 (2368) Harrison St., Oakland

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville

PHONE NO.: 510-420-3343

STATE: CA

GLOBAL ID NO.: TO600102237

E-MAIL: shelledf@craworld.com

CONSULTANT PROJECT NO.: 080119-05-10.06

PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer

TELEPHONE: 510-420-3319

FAX: 510-420-9170

E-MAIL: pschaefer@craworld.com

SAMPLER NAME(S) (Print): Erin Swan

LAB USE ONLY: 06-0589

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT UST AGENCY:

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES :

Copy final report to Shell.Lab.Billing@craworld.com

Report results in % by volume for ASTM 1946

Please report results in µg/m³ for 8260. Needed detection limit of below 140 µg/m³ for 1,1,2,2- tetrachloroethane

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification			PRESERVATIVE					NO. OF CONT.	Helium, Oxygen, Carbon Dioxide, & Methane Method ASTM D1846	TPHg, Full scall VOCs, & Naphthalene (EPA 8260B)																										
	DATE	TIME	MATRIX	HCL	HNO3	H2SO4	NONE	Ice																OTHER													
	1	SVP-4	6/8/11	1:49	Vapor				X			1	X	X																							
	2	SVP-5	6/8/11	2:09	Vapor				X			1	X	X																							

Relinquished by: (Signature) *[Signature]*

Relinquished by: (Signature) *[Signature]* 6/8/11 1730

Relinquished by: (Signature) *[Signature]*

Received by: (Signature) *[Signature]* CEL

Received by: (Signature) *[Signature]* Wobahn CEL

Received by: (Signature) _____

Date: 6/8/11 Time: 3:58

Date: 6/9/11 Time: 0945

05/2/05 Revision

0589



< WebShip > > > > >
800-322-5555 www.gso.com

Ship From:
ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Ship To:
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
\$0.00

Reference:
CARDNO ERI

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 516738108



NPS

ORC

D

GARDEN GROVE

D92843A



91740207

Print Date : 06/08/11 13:04 PM

Package 3 of 3

Send Label To Printer Print All Edit Shipment Finish

LABEL INSTRUCTIONS:

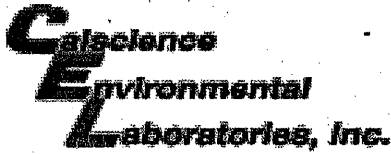
- Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
- STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
- STEP 2 - Fold this page in half.
- STEP 3 - Securely attach this label to 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 or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.



WORK ORDER #: 11-06-0589

SAMPLE RECEIPT FORM

Box 1 of 1

CLIENT: CRA

DATE: 06/09/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature _____ °C + 0.5°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 Filter Initial: WB

CUSTODY SEALS INTACT:

Box _____ No (Not Intact) Not Present N/A Initial: WB

Sample _____ No (Not Intact) Not Present Initial: M

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOA_h VOAn₂ 125AGB 125AGB_h 125AGB_p 1AGB 1AGBn₂ 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 500PB 500PBn_a

250PB 250PBn 125PB 125PBz_{nna} 100PJ 100PJn₂ _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** KE

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** CE

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z_{nna}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** CE