CONESTOGA-ROVERS & ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: January 27, 2012

REFERENCE NO.: 240933

PROJECT NAME: 15275 Washington Avenue, San Leandro

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

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QUANTITY	DESCRIPTION
1	Subsurface Investigation Report

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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)
Salel Enterprises, c/o Foothill Hardware, 6733 Foothill Boulevard, Oakland, CA 94605
Mike Bakaldin, City of San Leandro, 835 East 14th Street, San Leandro, CA 94577
Johnny Vierra, Big O Tire, 2201 Washington Avenue, San Leandro, CA 94577

Completed by: Peter Schaefer Signed: Peter Schaefer

Filing: **Correspondence File**

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

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

Re: Former Shell Service Station
15275 Washington Avenue
San Leandro, California
SAP Code 129460
Incident No. 97093412
ACEH No. RO0000372

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 at (707) 865-0251.

Sincerely,

Denis L. Brown
Senior Program Manager

SUBSURFACE INVESTIGATION REPORT

FORMER SHELL SERVICE STATION
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

SAP CODE 129460
INCIDENT NO. 97093412
AGENCY NO. RO0000372

Prepared by:
Conestoga-Rovers & Associates

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

Office: (510) 420-0700
Fax: (510) 420-9170

web: http://www.CRAworld.com

JANUARY 27, 2012
REF. NO. 240933 (5)
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EXECUTIVE SUMMARY

- Five sets of temporary soil vapor probes (P-30 through P-34) were installed, sampled, and analyzed by an on-site laboratory to obtain a vertical profile of TPHg, BTEX, and MTBE concentrations in soil vapor.
- Surface flux measurements were made at four of the vertical profile probe locations (P-31 through P-34).
- Nine sets of permanent nested soil vapor probes (SVG-1 through SVG-9) were also sampled.
- Vertical profiles of soil vapor results from the temporary probes generally show decreasing soil vapor concentrations as depth decreases and are consistent with the surface flux measurements, which demonstrate additional attenuation at the ground surface.
- The analytical results indicate that benzene is the primary driver of potential human health risk. Based on comparing the surface flux data to ESLs, the calculated human health risk for benzene ranges from 6E-07 to 9E-07.
- We note that the houses in this mobile home park are trailers or self-propelled mobile homes which are 1 to 2 feet above the ground and have no "skirting" which could potentially accumulate soil vapors. The soil vapor evaluation was conducted assuming direct discharge of soil vapors at the surface to indoor air. Because of the considerable air circulation beneath the homes, this evaluation is extremely conservative.
- Based on the construction of the mobile homes and the risk calculation, no additional soil vapor investigation is warranted. CRA recommends continued groundwater monitoring to further assess long-term concentration trends.

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 temporary soil vapor probe installation and sampling, surface flux testing, and permanent soil vapor probe sampling. The purpose of the investigation was to assess the potential for soil gas migration to indoor air in the mobile home park adjacent to the site. CRA followed the scope of work and procedures presented in our July 22, 2011 work plan, which was approved by Alameda County Environmental Health (ACEH) in their September 14, 2011 letter.

The site is a former Shell service station located on the northwest corner of Washington Avenue and Lewelling Boulevard in a mixed commercial and residential area of San Leandro, California (Figure 1). The site is currently occupied by an automotive emission testing facility (Speedy Smog) and a tire sales and repair facility (Big O Tire). Salel's Mobile Home Park is located to the southwest of the site. Arco Service Station No. 0601 is located on the southwest corner of the intersection at 712 Lewelling Boulevard, San Leandro. The former Shell service station layout included a building, three dispenser islands, a waste oil tank, and a gasoline underground storage tank (UST) complex (Figure 2). In June 1987, the fuel and waste oil USTs, piping, and dispensers were removed from the site. Reports indicate that the waste oil UST was replaced at that time, and another UST was found and removed during November 1987.

A summary of previous work performed at the site and additional background information was presented in CRA's July 22, 2011 *Subsurface Investigation Work Plan* and is not repeated herein.

2.0 INVESTIGATION ACTIVITIES

CRA conducted the following investigations to further evaluate the potential for soil vapor intrusion:

- Installed five sets of temporary shallow soil vapor probes (P-30 through P-34) within the upper 4 feet of the vadose zone to obtain shallow soil vapor profiles to document attenuation of soil vapor concentrations.
- Conducted surface flux testing adjacent to P-31 through P-34 to evaluate actual soil vapor discharge to ambient air. Because the mobile homes are not directly on the ground, comparisons with San Francisco Bay Regional Water Quality

Control Board's (RWQCB's) environmental screening levels[1] (ESLs) do not give an accurate estimation of the potential risk of vapor intrusion to the mobile homes.

- Re-sampled existing soil vapor probes (SVG-1 through SVG-9).

Per CRA's telephone conversation with ACEH on November 14, 2011, we did not drill the four soil borings proposed in our July 22, 2011 work plan, as we do not believe that it is necessary to collect vadose-zone soil samples for physical parameter analyses to further refine our vapor intrusion model at this time.

2.1 PERMIT

CRA obtained a drilling permit from Alameda County Public Works Agency (Appendix A).

2.2 FIELD DATES

November 8 and 9, 2011 (temporary soil vapor probe installation and sampling), November 10, 2011 (surface flux testing), and November 16, 2011 (permanent soil vapor probe sampling).

2.3 DRILLING COMPANY

TEG - Northern California, Inc. (TEG).

2.4 CRA PERSONNEL

Geologist Chris Benedict directed the probe installation and sampling and surface flux testing working under the supervision of California Professional Geologist Peter Schaefer.

2.5 DRILLING METHOD

Direct push.

---

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

2.6 NUMBER OF PROBES

CRA installed five sets of temporary soil vapor probes (P-30 through P-34). Each set included three or four points constructed in separate borings. Due to tight soil conditions, we were unable to obtain samples from P-30 or P-32 at 2.5 feet below grade (fbg), and deeper probes were installed at locations P-33 and P-34 at 3 and 4 fbg, respectively, because samples could not be collected at 2.5 fbg. The probe locations are shown on Figure 2.

2.7 VAPOR PROBE MATERIALS

CRA constructed the vapor probes using 1/8-inch-diameter Teflon® tubing attached to 1-inch-length plastic screen intervals and #2/12 Monterey sand filter pack with a bentonite slurry seal.

2.8 SCREEN DEPTHS

Temporary soil vapor probe	*Screen depths (fbg)*
P-30	0.5, 1.5, 2.5*
P-31	0.5, 1.5, 2.5*, 4
P-32	0.5, 1.5, 2.5*
P-33	0.5, 1.5, 2.5*, 3
P-34	0.5, 1.5, 2.5

* = Unable to obtain sample due to tight soil conditions

2.9 SOIL VAPOR SAMPLING PROCEDURES

2.9.1 TEMPORARY SOIL VAPOR PROBES

Prior to sampling, TEG purged at least three tubing volumes of air from each vapor probe using a syringe. Immediately after purging, TEG collected a soil vapor sample using a syringe. Each sample was labeled, documented on a chain-of-custody, and submitted to a TEG on-site laboratory for immediate analysis.

During sampling, TEG covered the sample location with an inverted bucket and injected 1,1-difluoroethane into the bucket to check for leaks. All samples were analyzed by the on-site laboratory for 1,1-difluoroethane, and CRA presents the results on Table 1.

Following sampling the probes were destroyed by removing the probe materials and backfilling with neat cement.

2.9.2 SURFACE FLUX CHAMBERS

CRA used surface flux chambers to isolate the asphalt ground surface from ambient air and to collect soil vapor emanating from the subsurface at locations adjacent to four of the temporary soil vapor probes (P-31 through P-34).

The flux chambers are constructed of stainless steel and are hemispherical, measuring approximately 12 inches in diameter and approximately 6 inches tall. Paper shields constructed of cardboard were secured to the chambers to minimize extreme variations in temperature. Nominal volume of the chambers is 7,500 cubic centimeters. TEG placed the chambers on the asphalt ground surface and bedded the flange in a bentonite slurry to seal the chambers. After sealing the chambers, TEG flushed them with four volumes (30 liters) of nitrogen. A sample was collected from each chamber after flushing and analyzed to ensure the chamber was clean of contaminants at the start of the incubation. TEG allowed the chambers to incubate for 4 hours prior to sampling to average out temporal effects on fluxes (wind, barometric pressure, etc.).

Following the 4-hour deployment, TEG collected a vapor sample from each chamber through a sampling port using a gas-tight syringe connected via an on-off valve. The small-calibrated syringes allowed for careful monitoring of sample flow and volume. This procedure ensured that the chamber air was well mixed prior to collection without introducing excessive airflow, which could cause disturbance of the natural flux from the ground surface. The sample was entered onto a chain-of-custody and immediately transferred to the on-site mobile laboratory for analysis. Duplicate samples from each chamber were collected with the syringe and injected into a Tedlar® bag. Each sample was labeled, documented on a chain-of-custody, and submitted to Calscience Environmental Laboratories, Inc. (Calscience) of Garden Grove, California for analysis within 72 hours.

2.9.3 PERMANENT SOIL VAPOR PROBES

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

To check the system for leaks, CRA placed a containment unit (or shroud) over the soil vapor probe surface casing and sampling manifold. Prior to soil vapor probe purging, CRA introduced helium into the containment unit to obtain a minimum 50 percent (%) helium content level. CRA confirmed the helium content within the containment unit using a helium meter. The helium meter readings are presented in Section 3.2. All samples were analyzed by the laboratory for helium, and CRA presents the results in Section 3.2 and on Table 1.

2.10 SOIL VAPOR SAMPLING ANALYSES

Soil vapor samples from the temporary soil vapor probes and flux chambers were analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), and 1,1-difluoroethane by modified EPA Method 8260B, and for oxygen, carbon dioxide, and methane by GC/TCD. Duplicate samples from the flux chambers were analyzed for TPHg by EPA Method TO-3M and for BTEX and MTBE by EPA Method TO-15M.

Soil vapor samples from the permanent soil vapor probes were analyzed for TPHg by EPA Method TO-3M, for BTEX and MTBE by EPA Method TO-15M, for oxygen + argon, carbon dioxide, and methane by ASTM D-1946, and for helium by ASTM D-1946 (M).

2.11 WASTE DISPOSAL

No waste was generated during the investigation.

3.0 FINDINGS

3.1 SOIL VAPOR

The soil vapor chemical analytical data are summarized in Table 1, and TPHg and benzene analytical results are presented on Figures 2 and 3. The laboratory analytical reports are presented in Appendix B.

3.2 SURFACE FLUX

The surface flux chemical analytical data are summarized in Table 1, and TPHg and benzene analytical results are presented on Figure 2. The laboratory analytical reports are presented in Appendix B.

3.3 LEAK TESTING

TEG performed leak testing for the temporary probes as described above, and 1,1-difluoroethane was not detected in any of the samples. CRA presents these results on Table 1.

CRA performed leak testing for the permanent probes as described above, and helium was not detected in any of the samples. As shown in the following table, the reporting limit for helium (0.0100 percent by volume [%*v*]) is less than 10% of the concentration detected in the shroud, and the samples are considered valid.

Probe ID	*Depth (feet)*	*Helium concentration in sample (%v)*	*Minimum Helium detected in shroud (%v)*	*Maximum acceptable helium concentration in sample (%v)*
SVG-1	3	<0.0100	50	5.0
SVG-1	5	<0.0100	50	5.0
SVG-1	7.5	<0.0100	50	5.0
SVG-2	3	<0.0100	50	5.0
SVG-2	5	<0.0100	50	5.0
SVG-2	7.5	<0.0100	50	5.0
SVG-3	3	<0.0100	50	5.0
SVG-3	5	<0.0100	50	5.0
SVG-4	3	<0.0100	50	5.0
SVG-4	5	<0.0100	50	5.0
SVG-5	3	<0.0100	50	5.0
SVG-5	5	<0.0100	50	5.0
SVG-6	3	<0.0100	50	5.0
SVG-6	5	<0.0100	50	5.0

Probe ID	*Depth (feet)*	*Helium concentration in sample (%v)*	*Minimum Helium detected in shroud (%v)*	*Maximum acceptable helium concentration in sample (%v)*
SVG-7	3	<0.0100	50	5.0
SVG-7	5	<0.0100	50	5.0
SVG-8	3	<0.0100	50	5.0
SVG-8	5	<0.0100	50	5.0
SVG-8	7.5	<0.0100	50	5.0
SVG-9	3	<0.0100	50	5.0
SVG-9	5	<0.0100	50	5.0
SVG-9	7.5	<0.0100	50	5.0

The laboratory analytical report for helium is presented in Appendix B, and CRA includes the results on Table 1.

4.0 CONCLUSIONS

Vertical profiles of soil vapor results from the temporary probes (Table 1) generally show decreasing soil vapor concentrations as depth decreases and are consistent with the surface flux measurements, which demonstrate additional attenuation at the ground surface.

CRA used flux chamber devices to assess ground surface emission rates (or "flux") of volatile organic compounds from the subsurface (likely originating from soil or groundwater)[2]. Based on analytical data from the flux samples, the primary risk driver is benzene.

The emission rate of chemicals, ER_i (micrograms per minute per square meter) is calculated as:

$$ER_i = \frac{C_c \times V_c}{A_c \times T}$$

CRA calculated an equivalent room concentration from the measured chamber concentration by assuming that the flux into the chamber is the same as the flux into the room (since flux is per unit area). The equation is:

$$C_{r-e} = ER_i \frac{A_r}{Q}$$

2 Blayne Hartman, *How to Collect Reliable Soil Gas Data for Upward Risk Assessments, Part 2, Surface Flux Chamber Method,* H & P Mobile Geochemistry, Inc., August 2003

Where: C_c = chamber concentration after incubation period (micrograms per cubic meter [$\mu g/m^3$]);
C_{r-e} = equivalent room concentration with room air exchange ($\mu g/m^3$);
V_c = volume of the static chamber (m^3);
T = the incubation time of the chamber (minutes);
A_c = contact area of the chamber to surface soil (square meters [m^2]);
A_r = room area (m^2); and
Q = volumetric flow rate in the room (cubic meters per minute [m^3/min]).

CRA used default values for A_r and Q from the previously referenced RWQCB ESL document in our calculations.

CRA calculated human health risk for TPHg and benzene using the following equation:

$$Risk = \frac{(C_{r-e}/C_{r-a})}{1{,}000{,}000}$$

Where: C_{r-e} = Equivalent room concentration with exchange of room air;
C_{r-a} = allowed room concentration for 1E-06 risk from RWQCB's previously referenced ESL document; and
C_{r-e}/C_{r-a} = Ratio of equivalent to allowed.

Based on comparing the surface flux data to residential indoor air ESLs, the calculated human health risk for benzene ranges from 6E-07 to 9E-07. Table 2 presents the flux calculations and an evaluation of human health risk based on the calculated surface emissions.

We note that the houses in this mobile home park are trailers or self-propelled mobile homes which are 1 to 2 feet above the ground and have no "skirting" which could potentially accumulate soil vapors. The soil vapor evaluation was conducted assuming direct discharge of soil vapors at the surface to indoor air. Because of the considerable air circulation beneath the homes, this evaluation is extremely conservative.

5.0 RECOMMENDATIONS

Based on the construction of the mobile homes and the risk calculation, no additional soil vapor investigation is warranted. CRA recommends continued groundwater monitoring to further assess long-term concentration trends.

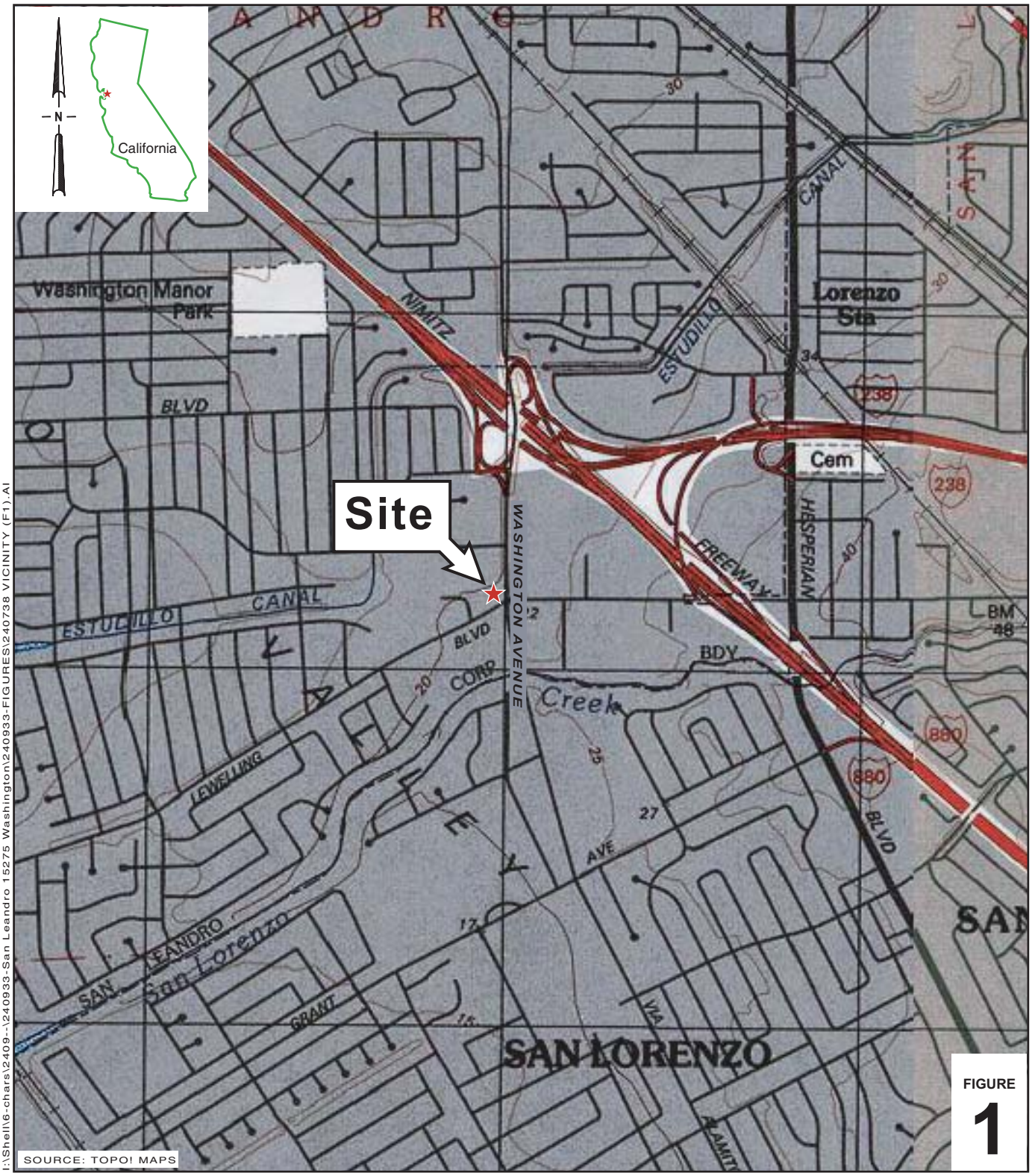
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CEG, CHG

Aubrey K. Cool, PG

FIGURES

04/04/2011



I:\Shell\6-chars\2409-\240933-San Leandro 15275 Washington\240933-FIGURES\240738 VICINITY (F1).AI

FIGURE 1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Former Shell Service Station

15275 Washington Avenue

San Leandro, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

EXPLANATION

- P-30 — Soil vapor probe location (Shell)
- S-3 — Monitoring well location (Shell)
- S-1 — Monitoring well modified for soil vapor extraction (Shell)
- SV-1 — Soil vapor extraction well location (Shell)
- SVG-1 — Soil vapor well location (Shell)
- P-10 — Soil vapor probe location (Shell)
- SG-01 — Soil vapor probe location (Shell, 1997)
- SG-1 — Soil vapor probe location (Shell, 1988)
- Electrical line (E)
- Telecommunication line (T)
- Gas line (G)
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Water line (W)
- Storm drain line inlet

Sample ID	Sample Date	Sample Depth	TPHg	Benzene
P-30-0.5	11/8/2011	0.5	<10,000	41
P-30-1.5	11/8/2011	1.5	<10,000	<30

Notes:
Soil vapor sample ID, date, depth in feet below grade (fbg), and concentrations in micrograms per cubic meter (µg/m³)
TPHg = Total petroleum hydrocarbons as gasoline
<X = Not detected at reporting limit X
Results in **BOLD** exceed Environmental Screening Level (ESL)

N

0 10 30ft

Sample ID	Sample Date	Sample Depth	TPHg	Benzene
P-33-Flux (initial)	11/10/2011	---	<10,000	<30
P-33-Flux (final)	11/10/2011	---	9,900	4.8
P-33-0.5	11/9/2011	0.5	<10,000	**380**
P-33-1.5	11/9/2011	1.5	<10,000	**210**
P-33-3	11/9/2011	3	**84,000**	**770**

Sample ID	Sample Date	Sample Depth	TPHg	Benzene
P-34-Flux (initial)	11/10/2011	---	<10,000	<30
P-34-Flux (final)	11/10/2011	---	<7,000	7.6
P-34-0.5	11/9/2011	0.5	<10,000	140
P-34-1.5	11/9/2011	1.5	**69,000**	**580**
P-34-2.5	11/9/2011	2.5	**2,700,000**	**5,500**

Sample ID	Sample Date	Sample Depth	TPHg	Benzene
P-31-Flux (initial)	11/10/2011	---	<10,000	<30
P-31-Flux (final)	11/10/2011	---	<10,000	7.1
P-31-0.5	11/8/2011	0.5	<10,000	130
P-31-1.5	11/8/2011	1.5	**400,000**	**420**
P-31-4	11/8/2011	4	**31,000,000**	**9,900**

Sample ID	Sample Date	Sample Depth	TPHg	Benzene
P-32-Flux (initial)	11/9/2011	---	<10,000	<30
P-32-Flux (final)	11/9/2011	---	<10,000	<30
P-32-0.5	11/9/2011	0.5	<10,000	32
P-32-1.5	11/9/2011	1.5	**81,000**	**340**

Sample ID	Sample Date	Sample Depth	TPHg	Benzene
P-30-0.5	11/8/2011	0.5	<10,000	41
P-30-1.5	11/8/2011	1.5	<10,000	<30

P-20, SG-10, SG-11, SG-12, P-18, Former Dispenser Islands, SG-09, P-26, SVG-4, Big O Tire Store Building, P-19, Former Dispenser Islands, P-25, SVG-1, P-22, SG-01, SG-05, S-19, Former Shell Station Building, P-21, S-16, SV-1, SVG-7, SVG-2, P-16, P-23, Salel's Mobile Home Park, P-12, P-33, SVG-5, SG-03, P-27, P-14, SG-15, S-1, SG-02, S-6, S-15, P-11, P-32, S-5, Former Waste Oil UST, Former USTs, SG-1, SG-04, S-9, P-13, P-34, S-3, SVG-3, SR-1, SG-08, S-7, P-31, SG-2, SVG-8, S-18, P-28, SVG-6, P-15, P-30, Former Dispenser Island, SG-13, S-8, P-10, SG-3, SG-07, P-24, SG-14, S-17, SG-06, SVG-9, S-10, SG-4, S-11, P-29, SG-5, SG-6, S-12

WASHINGTON AVENUE

LEWELLING BOULEVARD

Figure 2

Temporary Soil Vapor Probe and Surface Flux Concentration Map
Former Shell Service Station
15275 Washington Avenue
San Leandro, California

I:\Shell\6-chars\2409--\240933-San Leandro 15275 Washington\240933-FIGURES\240933 SITE PLAN.DWG (01/10/2012)

EXPLANATION

- P-30 — Soil vapor probe location (Shell)
- S-3 — Monitoring well location (Shell)
- S-1 — Monitoring well modified for soil vapor extraction (Shell)
- SV-1 — Soil vapor extraction well location (Shell)
- SVG-1 — Soil vapor well location (Shell)
- P-10 — Soil vapor probe location (Shell)
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- Electrical line (E)
- Telecommunication line (T)
- Gas line (G)
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Water line (W)
- Storm drain line inlet

Sample ID	Sample Date	Sample Depth	TPHg	Benzene
SVG-1	11/17/2011	3	9,000,000	2,500
SVG-1	11/17/2011	5	10,000,000	2,000
SVG-1	11/17/2011	7.5	11,000,000	1,900

Notes:
Soil vapor sample ID, date, depth in feet below grade (fbg), and concentrations in micrograms per cubic meter (µg/m³)
TPHg = Total petroleum hydrocarbons as gasoline
<X = Not detected at reporting limit X
Results in **BOLD** exceed Environmental Screening Level (ESL)

0 10 30ft

Sample ID	Sample Date	Sample Depth	TPHg	Benzene
SVG-4	11/16/2011	3	<7,000	<1.6
SVG-4	11/16/2011	5	<7,000	<1.6

Sample ID	Sample Date	Sample Depth	TPHg	Benzene
SVG-7	11/16/2011	3	<7,000	<1.6
SVG-7	11/16/2011	5	<7,000	<1.6

Sample ID	Sample Date	Sample Depth	TPHg	Benzene
SVG-1	11/17/2011	3	9,000,000	2,500
SVG-1	11/17/2011	5	10,000,000	2,000
SVG-1	11/17/2011	7.5	11,000,000	1,900

Sample ID	Sample Date	Sample Depth	TPHg	Benzene
SVG-5	11/16/2011	3	17,000,000	1,000
SVG-5	11/16/2011	5	17,000,000	1,900

Sample ID	Sample Date	Sample Depth	TPHg	Benzene
SVG-2	11/17/2011	3	11,000,000	15,000
SVG-2	11/17/2011	5	14,000,000	11,000
SVG-2	11/17/2011	7.5	13,000,000	9,600

Sample ID	Sample Date	Sample Depth	TPHg	Benzene
SVG-8	11/16/2011	3	20,000	<1.6
SVG-8	11/16/2011	5	34,000	<1.6

Sample ID	Sample Date	Sample Depth	TPHg	Benzene
SVG-6	11/16/2011	3	99,000,000	16,000
SVG-6	11/16/2011	5	120,000,000	19,000

Sample ID	Sample Date	Sample Depth	TPHg	Benzene
SVG-9	11/16/2011	3	13,000	<1.6
SVG-9	11/16/2011	5	9,900	<1.6
SVG-9	11/16/2011	7.5	<7,000	<1.6

Sample ID	Sample Date	Sample Depth	TPHg	Benzene
SVG-3	11/17/2011	3	<7,000	<1.6
SVG-3	11/17/2011	5	<7,000	<1.6

Big O Tire Store Building
Former Dispenser Islands
Former Shell Station Building
Salel's Mobile Home Park
Former Waste Oil UST
Former USTs
Former Dispenser Island
WASHINGTON AVENUE
LEWELLING BOULEVARD

Figure 3
Soil Vapor Concentration Map
Former Shell Service Station
15275 Washington Avenue
San Leandro, California

I:\Shell\6-chars\2409--\240933-San Leandro 15275 Washington\240933-FIGURES\240933 SITE PLAN.DWG (01/24/2012)

TABLES

TABLE 1

HISTORICAL SOIL VAPOR AND SURFACE FLUX ANALYTICAL DATA
FORMER SHELL SERVICE STATION
15275 WASHINGTON AVENUE, SAN LEANDRO, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg ($\mu g/m^3$)*	*B ($\mu g/m^3$)*	*T ($\mu g/m^3$)*	*E ($\mu g/m^3$)*	*X ($\mu g/m^3$)*	*MTBE ($\mu g/m^3$)*	*TBA ($\mu g/m^3$)*	*Methane (%v)*	*Carbon Dioxide (%v)*	*Oxygen + Argon (%v)*	*Nitrogen (%v)*	*1,1-Difluoroethane ($\mu g/m^3$)*	*Isopropanol ($\mu g/m^3$)*	*Helium (%v)*
SG-01	10/4/1988	UNK	**460,000 a**	—	—	—	—	—	—	—	—	—	—	—	—	—
SG-02	10/4/1988	UNK	**90,000 a**	—	—	—	—	—	—	—	—	—	—	—	—	—
SG-03	10/4/1988	UNK	**45,000 a**	—	—	—	—	—	—	—	—	—	—	—	—	—
SG-04	10/4/1988	UNK	**2,400,000 a**	—	—	—	—	—	—	—	—	—	—	—	—	—
SG-05	10/4/1988	UNK	**1,800,000 a**	—	—	—	—	—	—	—	—	—	—	—	—	—
SG-06	10/4/1988	UNK	**820,000 a**	—	—	—	—	—	—	—	—	—	—	—	—	—
SG-07	10/4/1988	UNK	**690,000 a**	—	—	—	—	—	—	—	—	—	—	—	—	—
SG-08	10/4/1988	UNK	**5,800,000 a**	—	—	—	—	—	—	—	—	—	—	—	—	—
SG-09	10/4/1988	UNK	**3,700,000 a**	—	—	—	—	—	—	—	—	—	—	—	—	—
SG-10	10/4/1988	UNK	**5,600,000 a**	—	—	—	—	—	—	—	—	—	—	—	—	—
SG-11	10/4/1988	UNK	22,000 a	—	—	—	—	—	—	—	—	—	—	—	—	—
SG-12	10/4/1988	UNK	**810,000 a**	—	—	—	—	—	—	—	—	—	—	—	—	—
SG-13	10/4/1988	UNK	**1,100,000 a**	—	—	—	—	—	—	—	—	—	—	—	—	—
SG-14	10/4/1988	UNK	630 a	—	—	—	—	—	—	—	—	—	—	—	—	—
SG-15	10/4/1988	UNK	**2,000,000 a**	—	—	—	—	—	—	—	—	—	—	—	—	—
SG-1	5/5/1997	4	**100,000,000**	**750,000 b**	**280,000 b**	**370,000 b**	**1,300,000 b**	**700,000 b**	—	—	—	—	—	—	—	—
SG-1 c	5/5/1997	4	**76,000,000**	**910,000**	110,000	**70,000**	**200,000**	—	—	7.8	19.7	3.9	68.6	—	—	—
SG-2	5/5/1997	2	**46,000**	250 b	96 b	250 b	880 b	73 b	—	—	—	—	—	—	—	—
SG-2 c	5/5/1997	2	<5,000	<1,000	<1,000	<1,000	<2,000	—	—	<0.1	9.2	11.3	79.5	—	—	—
SG-3	5/5/1997	2	**54,000,000**	**390,000 b**	**190,000 b**	**370,000 b**	**310,000 b**	**260,000 b**	—	—	—	—	—	—	—	—
SG-3 c	5/5/1997	2	**20,000,000**	**280,000**	57,000	**44,000**	49,000	—	—	1.6	15.8	3.8	78.9	—	—	—
SG-3	5/5/1997	4	**33,000,000**	**230,000 b**	110,000 b	**210,000 b**	**330,000 b**	**150,000 b**	—	—	—	—	—	—	—	—
SG-3 c	5/5/1997	4	**3,700,000**	**49,000**	12,000	**7,400**	4,300	—	—	<0.1	1.6	18.1	80.3	—	—	—
SG-3	5/5/1997	6	**5,000,000**	**39,000 b**	18,000 b	**71,000 b**	**190,000 b**	16,000 b	—	—	—	—	—	—	—	—
SG-3 c	5/5/1997	6	**44,000,000**	**79,000**	88,000	**400,000**	**247,000**	—	—	<0.1	4.7	16.4	78.9	—	—	—
SG-4	5/5/1997	2	**220,000**	**420 b**	150 b	1,700 b	3,200 b	310 b	—	—	—	—	—	—	—	—
SG-4 c	5/5/1997	2	**110,000**	**1,600**	<1,000	<1,000	<12,000	—	—	<0.1	0.7	19.8	79.4	—	—	—
SG-4	5/5/1997	4	**350,000**	**1,000 b**	2,300 b	2,600 b	4,400 b	550 b	—	—	—	—	—	—	—	—
SG-4 c	5/5/1997	4	**370,000**	**2,900**	<1,000	**25,000**	2,000	—	—	<0.1	1.4	19.2	79.4	—	—	—

HISTORICAL SOIL VAPOR AND SURFACE FLUX ANALYTICAL DATA
FORMER SHELL SERVICE STATION
15275 WASHINGTON AVENUE, SAN LEANDRO, CALIFORNIA

Sample ID	Date	Depth (fbg)	TPHg ($\mu g/m^3$)	B ($\mu g/m^3$)	T ($\mu g/m^3$)	E ($\mu g/m^3$)	X ($\mu g/m^3$)	MTBE ($\mu g/m^3$)	TBA ($\mu g/m^3$)	Methane (%v)	Carbon Dioxide (%v)	Oxygen + Argon (%v)	Nitrogen (%v)	1,1-Difluoroethane ($\mu g/m^3$)	Isopropanol ($\mu g/m^3$)	Helium (%v)
SG-4	5/5/1997	6	**310,000**	**1,000 b**	2,200 b	**4,000 b**	4,800 b	200 b	—	—	—	—	—	—	—	—
SG-4 c	5/5/1997	6	**490,000**	**2,800**	3,400	**7,100**	9,400	—	—	<0.1	1.2	19.5	79.3	—	—	—
SG-4 k, c	5/5/1997	6	**500,000**	**3,000**	4,000	**7,200**	7,500	—	—	<0.1	1.0	19.2	79.8	—	—	—
SG-5	5/5/1997	4	**8,700,000**	**20,000 b**	42,000 b	**75,000 b**	**13,000 b**	6,200 b	—	—	—	—	—	—	—	—
SG-5 c	5/5/1997	4	26,000	<1,000	<1,000	<1,000	<2,000	—	—	<0.1	0.3	20.3	79.4	—	—	—
SG-6	5/5/1997	4	**66,000**	8 b	150 b	380 b	790 b	22 b	—	—	—	—	—	—	—	—
SG-6 c	5/5/1997	4	<5,000	<1,000	<1,000	<1,000	<2,000	—	—	<0.1	0.5	19.9	79.6	—	—	—
SG-7	5/5/1997	2	**62,000,000**	**220,000 b**	**210,000 b**	**230,000 b**	**110,000 b**	**330,000 b**	—	—	—	—	—	—	—	—
SG-7 c	5/5/1997	2	**700,000**	**38,000**	1,400	**14,000**	<2,000	—	—	<0.1	0.9	19.7	79.4	—	—	—
SG-7	5/5/1997	4	**130,000,000**	**450,000 b**	**420,000 b**	**440,000 b**	**180,000 b**	**510,000 b**	—	—	—	—	—	—	—	—
SG-7 c	5/5/1997	4	**38,000,000**	**18,000**	40,000	**43,000**	17,000	—	—	9.3	13.4	9.5	67.9	—	—	—
SG-7	5/5/1997	6	**3,000,000**	**19,000 b**	6,500 b	**20,000 b**	6,600 b	17,000 b	—	—	—	—	—	—	—	—
SG-7 c	5/5/1997	6	**2,000,000**	**13,000**	7,400	<10,000	<20,000	—	—	1.0	1.9	18.7	78.5	—	—	—
SG-7 k	5/4/1993	6	**3,400,000**	**21,000 b**	7,300 b	**22,000 b**	7,500 b	19,000 b	—	—	—	—	—	—	—	—
SG-8	5/6/1997	2	15,000	10 b	38 b	190 b	220 b	22 b	—	—	—	—	—	—	—	—
SG-8 c	5/6/1997	2	<5,000	<1,000	<1,000	<1,000	<2,000	—	—	<0.1	0.1	20.6	79.3	—	—	—
SG-8	5/6/1997	4	**7,100,000**	**15,000 b**	46,000 b	**44,000 b**	**62,000 b**	3,000 b	—	—	—	—	—	—	—	—
SG-8 c	5/6/1997	4	**2,400,000**	<1,000	64,000	**7,400**	14,300	—	—	<0.1	12.6	4.8	82.7	—	—	—
SG-8	5/6/1997	6	**20,000,000**	**49,000 b**	130,000 b	**140,000 b**	**290,000 b**	8,400 b	—	—	—	—	—	—	—	—
SG-8 c	5/6/1997	6	**1,000,000**	<1,000	35,000	**3,500**	10,800	—	—	<0.1	0.3	20.0	79.7	—	—	—
SG-8 k, c	5/6/1997	6	**1,100,000**	<1,000	36,000	**4,000**	11,500	—	—	<0.1	0.2	20.0	79.8	—	—	—
SG-9	5/5/1997	4	**540,000**	**18,000 b**	610 b	17,000 b	15,000 b	1,600 b	—	—	—	—	—	—	—	—
SG-9 c	5/5/1997	4	**1,800,000**	**87,000**	10,000	**28,000**	21,300	—	—	<0.1	0.9	20.0	79.1	—	—	—
SG-10	7/31/1997	4	1,700 d	<7.0 e	11 e	<9.5 e	22 e	11 e	—	—	—	—	—	—	—	—
SG-11	7/31/1997	4	660 d	<6.7 e	<7.9 e	<9.0 e	<9.0 e	<7.5 e	—	—	—	—	—	—	—	—
SG-12	7/31/1997	4	5,000 d	16 e	8.3 e	13 e	22 e	29 e	—	—	—	—	—	—	—	—

HISTORICAL SOIL VAPOR AND SURFACE FLUX ANALYTICAL DATA
FORMER SHELL SERVICE STATION
15275 WASHINGTON AVENUE, SAN LEANDRO, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg ($\mu g/m^3$)*	*B ($\mu g/m^3$)*	*T ($\mu g/m^3$)*	*E ($\mu g/m^3$)*	*X ($\mu g/m^3$)*	*MTBE ($\mu g/m^3$)*	*TBA ($\mu g/m^3$)*	*Methane (%v)*	*Carbon Dioxide (%v)*	*Oxygen + Argon (%v)*	*Nitrogen (%v)*	*1,1-Difluoroethane ($\mu g/m^3$)*	*Isopropanol ($\mu g/m^3$)*	*Helium (%v)*
SG-13	7/31/1997	4	5,000 d	<71 e	<84 e	<97 e	<97 e	<81 e	—	—	—	—	—	—	—	—
P-10 f	6/11/2008	5.5	**100,000**	<2.7	14	3.9	12	<3.0	43	—	—	—	—	—	<8.2	—
P-11 f	6/11/2008	5.5	**8,000,000**	**1,100**	240	<180	<180	<150	<520	—	—	—	—	—	<420	—
P-12 f	6/11/2008	5.5	**7,800,000**	**810**	<630	<730	<730	<600	<5,100	—	—	—	—	—	<1,600	—
P-13 f	6/11/2008	5.5	5,300	<2.5	5.6	<3.4	3.6	<2.8	<24	—	—	—	—	—	<7.8	—
P-14 f	6/11/2008	5.5	**2,100,000**	**1,400**	<130	**4,700**	280	<120	<1,000	—	—	—	—	—	<340	—
P-15 f	6/11/2008	5.5	**160,000**	<54	<63	<73	<73	<60	<150	—	—	—	—	—	<160	—
P-16 f	6/11/2008	5.5	**130,000**	<13	<15	26	<17	<14	<120	—	—	—	—	—	<120	—
P-17 f	6/11/2008	5.5	450	<2.5	5.4	<3.4	3.6	<2.8	<23	—	—	—	—	—	<7.6	—
P-17 k, f	6/11/2008	5.5	1,100	<2.5	4.0	<3.4	<3.4	<2.8	<24	—	—	—	—	—	<7.8	—
P-18 f	6/11/2008	5.5	13,000	3.2	6.0	<3.6	4.0	<3.0	36	—	—	—	—	—	<8.2	—
P-19 f	6/11/2008	5.5	**9,000,000**	**600**	270	<180	<180	<510	<410	—	—	—	—	—	<410	—
P-20 f	6/11/2008	5.5	26,000	<2.5	240	<3.4	<3.4	<2.8	55	—	—	—	—	—	27	—
P-20 k, f	6/11/2008	5.5	26,000	<2.5	230	<3.4	<3.4	<2.8	52	—	—	—	—	—	29	—
P-21 f	6/11/2008	5.5	**8,200,000**	**6,400**	280	**27,000**	3,500	<100	<340	—	—	—	—	—	<280	—
P-22 f	6/11/2008	5.5	**8,200,000**	**1,400**	<320	**14,000**	<360	<300	<1,000	—	—	—	—	—	<820	—
P-23 f	6/11/2008	5.5	**6,500,000**	**12,000**	190	**46,000**	25,120	<56	<190	—	—	—	—	—	<150	—
P-23 k, f	6/11/2008	5.5	**6,500,000**	**11,000**	180	**44,000**	23,110	<56	<190	—	—	—	—	—	<150	—
P-24	9/23/2009	3	**160,000**	1.9 b	25 b	<2.2 b	<8.7 b	<7.2 b	<15 b	—	—	—	—	570,000	—	—
P-24	9/23/2009	5	**340,000**	<3.2 b	<38 b	<4.3 b	<15 b	<14 b	<30 b	—	—	—	—	1,000,000	—	—
P-24	9/23/2009	8	**48,000**	1.7 b	<19 b	<2.2 b	<8.7 b	<7.2 b	<15 b	—	—	—	—	3,900,000	—	—
P-25	9/23/2009	3	**2,900,000**	<64 b	<750 b	<87 b	<350 b	<290 b	<610 b	—	—	—	—	2,600,000	—	—
P-25	9/23/2009	5	<5,700	<1.6 b	<19 b	<2.2 b	<8.7 b	<19 b	<15 b	—	—	—	—	4,300	—	—

HISTORICAL SOIL VAPOR AND SURFACE FLUX ANALYTICAL DATA
FORMER SHELL SERVICE STATION
15275 WASHINGTON AVENUE, SAN LEANDRO, CALIFORNIA

Sample ID	Date	Depth (fbg)	TPHg ($\mu g/m^3$)	B ($\mu g/m^3$)	T ($\mu g/m^3$)	E ($\mu g/m^3$)	X ($\mu g/m^3$)	MTBE ($\mu g/m^3$)	TBA ($\mu g/m^3$)	Methane (%v)	Carbon Dioxide (%v)	Oxygen + Argon (%v)	Nitrogen (%v)	1,1-Difluoroethane ($\mu g/m^3$)	Isopropanol ($\mu g/m^3$)	Helium (%v)
P-25	9/23/2009	8	<5,700	<1.6 b	<19 b	<2.2 b	<8.7 b	<7.2 b	<15 b	—	—	—	—	210	—	—
P-26	9/23/2009	3	<5,700	2 b	21 b	<2.2 b	<8.7 b	<7.2 b	<15 b	—	—	—	—	28	—	—
P-26	9/23/2009	5	**610,000**	<6.4 b	<75 b	<8.7 b	<35 b	<29 b	<61 b	—	—	—	—	1,300,000	—	—
P-26	9/23/2009	8	**2,600,000**	<64 b	<750 b	<87 b	<350 b	<350 b	<610 b	—	—	—	—	4,800,000	—	—
P-27	9/24/2009	3	**410,000**	<4 b	<47 b	<5.4 b	<22 b	<18 b	<38 b	—	—	—	—	710,000	—	—
P-27	9/24/2009	5	**120,000**	<1.6 b	<19 b	<2.2 b	<8.7 b	<7.2 b	<15 b	—	—	—	—	14,000	—	—
P-27	9/24/2009	8	**570,000**	<4 b	<47 b	<5.4 b	<22 b	<18 b	<38 b	—	—	—	—	860,000	—	—
P-28	9/24/2009	3	**1,200,000**	<8 b	<94 b	<11 b	<43 b	<36 b	<76 b	—	—	—	—	2,200,000	—	—
P-28	9/24/2009	5	**58,000**	2 b	<19 b	<2.2 b	<8.7 b	<7.2 b	<15 b	—	—	—	—	11,000	—	—
P-28	9/24/2009	8	**270,000**	<3.2 b	<38 b	<4.3 b	<17 b	<14 b	<30 b	—	—	—	—	42,000	—	—
P-29	9/24/2009	3	**1,200,000**	<8 b	<94 b	<11 b	<43 b	<36 b	<76 b	—	—	—	—	2,000,000	—	—
P-29	9/24/2009	5	**660,000**	<6.4 b	<75 b	<8.7 b	<35 b	<29 b	<61 b	—	—	—	—	1,300,000	—	—
P-29	9/24/2009	8	**46,000**	<1.6 b	<19 b	<2.2 b	<8.7 b	<7.2 b	<15 b	—	—	—	—	83,000	—	—
SVG-1	3/18/2010	3	**8,700,000**	<8,000	<9,400	**11,000**	<22,000	<18,000	<15,000	—	0.971	2.32	—	—	<6,100	—
SVG-1	9/9/2010	3	**15,000,000**	**3,400**	<2,400	<2,700	<5,400	<4,500	<3,800	—	—	—	—	—	<1,500	—
SVG-1	11/17/2011	3	**9,000,000**	**2,500 b**	<1,900 b	670 b	<870 b	<720 b	—	1.77	14.5	2.56	—	—	—	<0.0100
SVG-1	3/18/2010	5	**8,200,000**	<8,000	<9,400	<11,000	<22,000	<18,000	<15,000	—	4.22	2.06	—	—	<6,100	—
SVG-1	11/17/2011	5	**10,000,000**	**2,000 b**	<1,900 b	1,200 b	<870 b	<720 b	—	1.67	16.1	2.67	—	—	—	<0.0100
SVG-1	11/17/2011	7.5	**11,000,000**	**1,900 b**	<1,900 b	820 b	<870 b	<720 b	—	1.70	18.1	2.12	—	—	—	<0.0100
SVG-2	3/18/2010	3	**11,000,000**	**21,000**	<19,000	**62,000**	<43,000	<36,000	<30,000	—	0.519	2.31	—	—	<12,000	—
SVG-2	9/9/2010	3	**17,000,000**	**32,000**	<19,000	**150,000**	<43,000	<36,000	<30,000	1.33	13.9	2.66	—	—	<12,000	—
SVG-2	11/17/2011	3	**11,000,000**	**15,000 b**	<9,400 b	**33,000 b**	<4,300 b	<3,600 b	—	1.88	16.2	2.21	—	—	—	<0.0100
SVG-2	3/18/2010	5	**7,500,000**	<8,000	<9,400	**54,000**	<22,000	<18,000	<15,000	—	4.91	11.2	—	—	<6,100	—
SVG-2	9/9/2010	5	**18,000,000**	**17,000**	<19,000	**200,000**	44,000	<36,000	<30,000	1.19	16.9	2.22	—	—	<12,000	—
SVG-2	11/17/2011	5	**14,000,000**	**11,000 b**	<9,400 b	**120,000 b**	22,000 b	<3,600 b	—	1.79	17.1	2.50	—	—	—	<0.0100
SVG-2	11/17/2011	7.5	**13,000,000**	**9.600 b**	<9,400 b	**88,000 b**	<4,300 b	<3,600 b	—	1.85	17.9	2.18	—	—	—	<0.0100

TABLE 1

HISTORICAL SOIL VAPOR AND SURFACE FLUX ANALYTICAL DATA
FORMER SHELL SERVICE STATION
15275 WASHINGTON AVENUE, SAN LEANDRO, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg ($\mu g/m^3$)*	*B ($\mu g/m^3$)*	*T ($\mu g/m^3$)*	*E ($\mu g/m^3$)*	*X ($\mu g/m^3$)*	*MTBE ($\mu g/m^3$)*	*TBA ($\mu g/m^3$)*	*Methane (%v)*	*Carbon Dioxide (%v)*	*Oxygen + Argon (%v)*	*Nitrogen (%v)*	*1,1-Difluoroethane ($\mu g/m^3$)*	*Isopropanol ($\mu g/m^3$)*	*Helium (%v)*
SVG-3	3/18/2010	3	**39,000**	<51	<60	460	230	<120	<97	—	3.38	15.1	—	—	<39	—
SVG-3	9/9/2010	3	**86,000**	<80	<94	1,100	220	<180	<150	—	—	—	—	—	<61	—
SVG-3	11/17/2011	3	<7,000	<1.6 b	<19 b	30 b	45 b	<7.2 b	—	<0.500	7.30	13.5	—	—	—	<0.0100
SVG-3	3/18/2010	5	**49,000**	<64	<75	520	250	<140	<120	—	3.43	15.0	—	—	<49	—
SVG-3	11/17/2011	5	<7,000	<1.6 b	<19 b	70 b	110 b	<7.2 b	—	<0.500	7.40	13.3	—	—	—	<0.0100
SVG-4	3/18/2010	3	28,000	<16	<19	420	250	<36	<30	—	7.63	6.75	—	—	100	—
SVG-4	9/9/2010	3	**50,000**	<16	<19	610	160	<36	<30	—	—	—	—	—	<12	—
SVG-4	11/16/2011	3	<7,000	<1.6 b	<19 b	54 b	85 b	<7.2 b	—	<0.500	9.08	7.27	—	—	—	<0.0100
SVG-4	11/16/2011	5	<7,000	<1.6 b	<19 b	16 b	30 b	<7.2 b	—	<0.500	9.35	7.32	—	—	—	<0.0100
SVG-5	3/18/2010	3	**27,000,000**	<32,000	<38,000	<43,000	<87,000	<72,000	<61,000	—	2.22	2.74	—	—	<25,000	—
SVG-5	9/9/2010	3	**37,000,000**	**2,700**	<2,400	**9,300**	<5,400	<4,500	<3,800	1.20	7.63	2.28	—	—	<1,500	—
SVG-5	11/16/2011	3	**17,000,000**	**1,000 b**	<3,800 b	1,700 b	<1,700 b	<1,400 b	—	1.42	10.2	2.50	—	—	—	<0.0100
SVG-5	3/18/2010	5	**13,000,000**	<16,000	<19,000	<22,000	<43,000	<36,000	<30,000	—	<0.500	21.5	—	—	<12,000	—
SVG-5	9/9/2010	5	**32,000,000**	<4,800	<5,700	<6,500	<13,000	<11,000	<9,100	1.11	16.5	1.97	—	—	<3,700	—
SVG-5	11/17/2011	5	**17,000,000**	**1,900 b**	<3,800 b	2,700 b	3,100 b	<1,400 b	—	1.44	12.1	1.88	—	—	—	<0.0100
SVG-6	3/18/2010	3	**110,000,000**	<130,000	<150,000	<170,000	<350,000	<290,000	<240,000	—	3.64	2.36	—	—	<98,000	—
SVG-6	9/9/2010	3	**140,000,000**	**44,000**	<30,000	<35,000	<69,000	<58,000	<49,000	1.89	8.57	2.11	—	—	<20,000	—
SVG-6	11/16/2011	3	**99,000,000**	**16,000 b**	<19,000 b	**7,900 b**	<8,700 b	<7,200 b	—	2.23	6.05	2.44	—	—	—	<0.0100
SVG-6	3/18/2010	5	**75,000,000**	<8,000	<94,000	<11,000	<22,000	<18,000	<15,000	—	6.36	2.27	—	—	<6,100	—
SVG-6	9/9/2010	5	**160,000,000**	**46,000**	<30,000	<35,000	<69,000	<58,000	<49,000	1.87	9.09	2.43	—	—	<20,000	—
SVG-6	11/16/2011	5	**120,000,000**	**19,000 b**	<19,000 b	6,700 b	<8,700 b	<7,200 b	—	2.11	6.49	2.23	—	—	—	<0.0100
SVG-7	3/18/2010	3	**170,000**	<160	<190	<220	<430	<360	<300	—	0.816	16.7	—	—	<120	—
SVG-7	9/9/2010	3	**97,000**	<80	<94	300	<220	<180	<150	—	—	—	—	—	<61	—
SVG-7	11/16/2011	3	<7,000	<1.6 b	<19 b	<2.2 b	<8.7 b	<7.2 b	—	<0.500	2.52	13.4	—	—	—	<0.0100
SVG-7	11/16/2011	5	<7,000	<1.6 b	<19 b	<2.2 b	<8.7 b	<7.2 b	—	<0.500	2.64	13.6	—	—	—	<0.0100
SVG-8	3/18/2010	3	**70,000**	<80	<94	170	<220	<180	<150	—	8.28	2.12	—	—	<61	—
SVG-8	9/9/2010	3	**100,000**	<80	<94	300	<220	<180	<150	<0.500	12.4	1.97	—	—	<61	—
SVG-8	11/16/2011	3	20,000	<1.6 b	<19 b	3.0 b	<8.7 b	<7.2 b	—	<0.500	8.81	2.40	—	—	—	<0.0100

TABLE 1

HISTORICAL SOIL VAPOR AND SURFACE FLUX ANALYTICAL DATA
FORMER SHELL SERVICE STATION
15275 WASHINGTON AVENUE, SAN LEANDRO, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg ($\mu g/m^3$)*	*B ($\mu g/m^3$)*	*T ($\mu g/m^3$)*	*E ($\mu g/m^3$)*	*X ($\mu g/m^3$)*	*MTBE ($\mu g/m^3$)*	*TBA ($\mu g/m^3$)*	*Methane (%v)*	*Carbon Dioxide (%v)*	*Oxygen + Argon (%v)*	*Nitrogen (%v)*	*1,1-Difluoroethane ($\mu g/m^3$)*	*Isopropanol ($\mu g/m^3$)*	*Helium (%v)*
SVG-8	3/18/2010	5	**140,000**	<80	<94	300	<220	<180	<150	—	7.93	2.45	—	—	210	—
SVG-8	9/9/2010	5	**81,000**	<80	<94	240	<220	<180	<150	<0.500	12.6	1.97	—	—	<61	—
SVG-8	11/16/2011	5	**34,000**	<1.6 b	<19 b	<2.2 b	<8.7 b	<7.2 b	—	<0.500	9.61	2.28	—	—	—	<0.0100
SVG-8	9/9/2010	7.5	**62,000**	<51	<60	230	<140	<120	<97	<0.500	12.5	1.97	—	—	<39	—
SVG-9	3/18/2010	3	**67,000**	<80	<94	300	<220	<180	<150	—	10.7	4.25	—	—	<61	—
SVG-9	9/9/2010	3	**57,000**	<51	<60	230	<140	<120	<97	<0.500	15.1	7.01	—	—	<39	—
SVG-9	11/16/2011	3	13,000	<1.6 b	<19 b	<2.2 b	<8.7 b	<7.2 b	—	<0.500	12.3	5.76	—	—	—	<0.0100
SVG-9	3/18/2010	5	**55,000**	<64	<75	220	<170	<140	<120	—	10.4	4.27	—	—	<49	—
SVG-9	9/9/2010	5	7,900	<16	32	32	<43	<36	<30	<0.500	1.54	20.4	—	—	99	—
SVG-9	11/16/2011	5	9,900	<1.6 b	<19 b	<2.2 b	<8.7 b	<7.2 b	—	<0.500	13.8	5.04	—	—	—	<0.0100
SVG-9	9/9/2010	7.5	**36,000**	<64	<75	95	<170	<140	<120	<0.500	16.8	5.52	—	—	<49	—
SVG-9	11/16/2011	7.5	<7,000	<1.6 b	<19 b	<2.2 b	<8.7 b	<7.2 b	—	<0.500	15.2	4.14	—	—	—	<0.0100
P-30-0.5	11/8/2011	0.5	<10,000 g	41	<200	<100	<200	<100	—	<1,000	2.7	16 l	—	<10,000 g	—	—
P-30-1.5	11/8/2011	1.5	<10,000 g	<30	<200	<100	<200	<100	—	<1,000	2.4	16 l	—	<10,000 g	—	—
P-31-Flux (initial)	11/10/2011	—	<10,000 g	<30	<200	<100	<200	<100	—	<1,000	<1.0	2.4 l	—	—	—	—
P-31-Flux (final)	11/10/2011	—	<10,000 g	<30	<200	<100	<200	<100	—	<1,000	<1.0	6.2 l	—	—	—	—
P-31-Flux (final) k	11/10/2011	—	<7,000	7.1 b	41 b	6.4 b	36 b	<7.2 b	—	—	—	—	—	—	—	—
P-31-0.5	11/8/2011	0.5	<10,000 g	**120**	<200	<100	<200	<100	—	<1,000	<1.0	20 l	—	<10,000 g	—	—
P-31-0.5 k	11/8/2011	0.5	<10,000 g	**130**	<200	<100	<200	<100	—	<1,000	<1.0	19 l	—	<10,000 g	—	—
P-31-1.5	11/8/2011	1.5	**400,000 g**	**420**	<200	460	<200	<100	—	<1,000	<1.0	19 l	—	<10,000 g	—	—
P-31-4	11/8/2011	4 i	**23,000,000 g**	**7,700**	<500	770	<500	<250	—	46,000	4.3	2.6 l	—	<25,000 g	—	—
P-31-4	11/8/2011	4	**31,000,000 g**	**9,900**	<500	**990**	<500	<250	—	48,000	5.0	2.7 l	—	<25,000 g	—	—
P-31-4	11/8/2011	4 j	**39,000,000 g**	**13,000**	670	**2,000**	<500	<250	—	49,000	5.6	2.2 l	—	<25,000 g	—	—
P-32-Flux (initial)	11/9/2011	—	<10,000 g	<30	<200	<100	<200	<100	—	<1,000	<1.0	3.1 l	—	—	—	—
P-32-Flux (final)	11/9/2011	—	<10,000 g	<30	<200	<100	<200	<100	—	<1,000	<1.0	7.0 l	—	—	—	—
P-32-0.5	11/9/2011	0.5	<10,000 g	32	<200	<100	<200	<100	—	<1,000	<1.0	21 l	—	<10,000 g	—	—
P-32-1.5	11/9/2011	1.5	**81,000 g**	**340**	<200	190	<200	<100	—	<1,000	<1.0	20 l	—	<10,000 g	—	—
P-33-Flux (initial)	11/10/2011	—	<10,000 g	<30	<200	<100	<200	<100	—	<1,000	—	—	—	—	—	—
P-33-Flux (final)	11/10/2011	—	<10,000 g	<30	<200	<100	<200	<100	—	<1,000	<1.0	3.7 l	—	—	—	—

HISTORICAL SOIL VAPOR AND SURFACE FLUX ANALYTICAL DATA
FORMER SHELL SERVICE STATION
15275 WASHINGTON AVENUE, SAN LEANDRO, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg ($\mu g/m^3$)*	*B ($\mu g/m^3$)*	*T ($\mu g/m^3$)*	*E ($\mu g/m^3$)*	*X ($\mu g/m^3$)*	*MTBE ($\mu g/m^3$)*	*TBA ($\mu g/m^3$)*	*Methane (%v)*	*Carbon Dioxide (%v)*	*Oxygen + Argon (%v)*	*Nitrogen (%v)*	*1,1-Difluoroethane ($\mu g/m^3$)*	*Isopropanol ($\mu g/m^3$)*	*Helium (%v)*
P-33-Flux (final) k	11/10/2011	—	9,900	4.8 b	28 b	4.4 b	25 b	<7.2 b	—	—	—	—	—	—	—	—
P-33-0.5	11/9/2011	0.5	<10,000 g	**380**	<200	<100	<200	<100	—	<1,000	<1.0	20 1	—	<10,000 g	—	—
P-33-1.5	11/9/2011	1.5	<10,000 g	**210**	<200	120	<200	<100	—	<1,000	<1.0	19 1	—	<10,000 g	—	—
P-33-1.5	11/9/2011	3	**84,000 g**	**770**	<500	290	<500	<250	—	<2,500	2.8	14 1	—	<25,000 g	—	—
P-34-Flux (initial	11/10/2011	—	<10,000 g	<30	<200	<100	<200	<100	—	<1,000	<1.0	2.4 1	—	—	—	—
P-34-Flux (final)	11/10/2011	—	<10,000 g	<30	<200	<100	<200	<100	—	<1,000	<1.0	5.0 1	—	—	—	—
P-34-Flux (final) k	11/10/2011	—	<7,000	7.6 b	42 b	6.6 b	37 b	<7.2 b	—	—	—	—	—	—	—	—
P-34-0.5	11/9/2011	0.5	<10,000 g	**140**	<200	<100	<200	<100	—	<1,000	<1.0	19 1	—	<10,000 g	—	—
P-34-1.5	11/9/2011	1.5	**67,000 g**	**540**	<200	150	<200	<100	—	<1,000	<1.0	20 1	—	<10,000 g	—	—
P-34-1.5 k	11/9/2011	1.5	**69,000 g**	**580**	<200	140	<200	<100	—	<1,000	<1.0	19 1	—	<10,000 g	—	—
P-34-2.5	11/9/2011	2.5	**2,700,000 g**	**5,500**	<500	560	<500	<250	—	<2,500	1.2	17 1		<25,000 g		
ESLs [m]			*10,000*	*84*	*63,000*	*980*	*21,000*	*9,400*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
ESLs [n]			*29,000*	*280*	*180,000*	*3,300*	*58,000*	*31,000*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*

Notes:
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method TO-3M unless otherwise noted.
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B (M) unless otherwise noted.
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B (M) unless otherwise noted.
TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B (M) unless otherwise noted.
Methane, carbon dioxide, and oxygen + argon analyzed by ASTM D-1946 unless otherwise noted.
Isopropanol analyzed by EPA Method 8260B (M) unless otherwise noted.
1,1-Difluoroethane analyzed by EPA Method TO-15M unless otherwise noted.
Helium analyzed by ASTM D-1946 (modified) unless otherwise noted.
fbg = Feet below grade
$\mu g/m^3$ = Micrograms per cubic meter
%v = Percent by volume
<x = Not detected at reporting limit x
— = Not analyzed
UNK = Unknown
ESL = Environmental screening level
NA = No applicable ESL
All flux samples were collected after three purge volumes unless otherwise noted.
Results in **bold** exceed environmental screening level

a = Analytical method unknown
b = Analyzed by EPA Method TO-15M
c = Analysis by mobile laboratory. TPHg analyzed by EPA Method 8015, and BTEX and MTBE analyzed by EPA Method 8020. Fixed/biogenic gases analyzed on a thermal conductivity detector.

HISTORICAL SOIL VAPOR AND SURFACE FLUX ANALYTICAL DATA
FORMER SHELL SERVICE STATION
15275 WASHINGTON AVENUE, SAN LEANDRO, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg ($\mu g/m^3$)*	*B ($\mu g/m^3$)*	*T ($\mu g/m^3$)*	*E ($\mu g/m^3$)*	*X ($\mu g/m^3$)*	*MTBE ($\mu g/m^3$)*	*TBA ($\mu g/m^3$)*	*Methane (%v)*	*Carbon Dioxide (%v)*	*Oxygen + Argon (%v)*	*Nitrogen (%v)*	*1,1-Difluoroethane ($\mu g/m^3$)*	*Isopropanol ($\mu g/m^3$)*	*Helium (%v)*

d = Analyzed by GC/FID
e = Analyzed by EPA Method TO-3
f = Analyzed by EPA Method TO-14A
g = Analyzed by EPA Method 8260B
i= Sample collected after one purge volume
j = Sample collected after seven purge volumes
k = Duplicate sample
l = Oxygen only
m = San Francisco Bay Regional Water Quality Control Board (RWQCB) shallow soil gas screening level for evaluation of potential vapor intrusion concerns - residential land use from RWQCB's *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater, California Regional Water Quality Control Board, Interim Final - November 2007 (Revised May 2008).*
n = RWQCB shallow soil gas screening level for evaluation of potential vapor intrusion concerns - commercial/industrial land use from RWQCB's *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater,* California Regional Water Quality Control Board, Interim Final - November 2007 (Revised May 2008).

TABLE 2

SUMMARY OF SURFACE FLUX CHAMBER DATA AND CALCULATED RISK
FORMER SHELL SERVICE STATION
15275 WASHINGTON AVENUE, SAN LEANDRO, CALIFORNIA

Chamber ID	*Compound*	C_c ($\mu g/m^3$)	*T* (min)	V_c (m^3)	A_c (m^2)	Er_i ($\mu g/min\text{-}m^2$)	A_r (m^2)	*Q* (m^3/min)	$C_{r\text{-}e}$ ($\mu g/m^3$)	$C_{r\text{-}a}$ ($\mu g/m^3$)	$C_{r\text{-}e}/C_{r\text{-}a}$	*Risk*
P-31	Benzene	7.1	240	0.006	0.06	0.0030	100	4.07	0.073	0.084	0.87	9E-07
P-32	Benzene	<30	240	0.006	0.06	NA	100	4.07	NA	NA	NA	NA
P-33	Benzene	4.8	240	0.006	0.06	0.0020	100	4.07	0.049	0.084	0.59	6E-07
P-34	Benzene	7.6	240	0.006	0.06	0.0032	100	4.07	0.078	0.084	0.93	9E-07

Definitions:

C_c = Chamber concentration after incubation period

T = Incubation time of static chamber

V_c = Chamber volume

A_c = Chamber surface contact area

ER_i = Flux

A_r = Area of room [a] = 1.00E+06 cm^2 (1.00E+02 m^2)

Q = Volumetric flow rate in room

$C_{r\text{-}e}$ = Equivalent room concentration with exchange of room air

$C_{r\text{-}a}$ = Allowed residential room concentration for 1E-06 risk from San Francisco Bay Regional Water Quality Control Board's (RWQCB's) *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, Interim Final - November 2007 [Revised May 2008]

$C_{r\text{-}e}/C_{r\text{-}a}$ = Ratio of equivalent to allowed room concentration

Room height a = 2.44E+02 cm (2.44E+00 m)

ER = Room air exchange rate/hour [a] = 1.00E+00/hour (1.67E-02 /min)

Defining Equations:

Flux: $ER_i = C_c \times V_c / A_c \times T$

Room Concentration: $C_{r\text{-}e} = ER_i * A_r / Q$

Risk = (Cr-e/Cr-a)/1,000,000

Flow rate in room: $Q = A_r \times$ Room height $\times$ ER = 4.07 m^3/min

Notes:

$\mu g/m^3$ = Micrograms per cubic meter

min = Minutes

m^3 = Cubic meters

m^2 = Square meters

$\mu g/min\text{-}m^2$ = Micrograms per minute per square meter

TABLE 2

SUMMARY OF SURFACE FLUX CHAMBER DATA AND CALCULATED RISK
FORMER SHELL SERVICE STATION
15275 WASHINGTON AVENUE, SAN LEANDRO, CALIFORNIA

m^3/min = Cubic meters per minute
NA = Not applicable; risk not calculated because constituent of concern not detected.
cm^2 = Square centimeters
cm = Centimeters
m = Meters
ESL = Environmental screening level

a = Default value used in calculating ESLs in RWQCB's *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, Interim Final - November 2007 [Revised May 2008]

APPENDIX A

PERMIT

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 10/31/2011 By jamesy

Permit Numbers: W2011-0668
Permits Valid from 11/08/2011 to 11/15/2011

Application Id: 1319514542376
City of Project Site: San Leandro
Site Location: 15275 Washington Avenue
Project Start Date: 11/08/2011
Completion Date: 11/15/2011
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Applicant: Conestoga-Rovers & Associates - Chris Benedict
10969 Trade Center Drive Suite 107, Rancho Cordova, CA 95670
Phone: 916-889-8900 x125

Property Owner: Salel Salel
6733 Foothil Blvd., Oakland, CA 94605
Phone: --

Client: Denis Brown (Shell Oil Products US)
20945 S. Wilmington Ave., Carson, CA 90810
Phone: --

Total Due:	$265.00
Receipt Number: WR2011-0316 Total Amount Paid:	$265.00
Payer Name : Conestoga-Rovers & Associates Paid By: CHECK	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 8 Boreholes
Driller: TEG - Lic #: 706568 - Method: DP

Work Total: $265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2011-0668	10/31/2011	02/06/2012	8	3.25 in.	5.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX B

CERTIFIED ANALYTICAL REPORTS

30 November 2011

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

SUBJECT: DATA REPORT - Conestoga-Rovers & Associates, Inc. Project # 240933
15275 Washington Avenue, San Leandro, California

TEG Project # 11108F

Mr. Schaefer:

Please find enclosed a data report for the samples analyzed from the above referenced project for Conestoga-Rovers & Associates, Inc. The samples were analyzed on site in TEG's mobile laboratory. TEG conducted a total of 49 analyses on 17 soil vapor and 8 flux chamber soil vapor samples.

-- 25 analyses for aromatic volatile hydrocarbons (BTEX), the fuel oxygenate methyl-t-butyl ether (MtBE), and total petroleum hydrocarbons-gasoline by EPA method 8260B.

-- 24 analyses for methane, and oxygen and carbon dioxide by by GC/TCD.

The results of the analyses are summarized in the enclosed tables. Applicable detection limits and calibration data are included in the tables.

1,1 difluoroethane was used as a leak check compound during the soil vapor sampling. No leak check compound was detected in any of the vapor samples reported at or above the DTSC recommended leak check compound reporting limit of 10 µg/L of vapor.

TEG appreciates the opportunity to have provided analytical services to Conestoga-Rovers & Associates, Inc. on this project. If you have any further questions relating to these data or report, please do not hesitate to contact us.

Sincerely,

Mark Jerpbak
Director, TEG-Northern California

teg

Conestoga-Rovers & Associates - Project # 240933
15275 Washington Avenue, San Leandro, California

TEG Project #11108F

Analyses of SOIL VAPOR
BTEX, MtBE, & TPH-gasoline (EPA method 8260B) in micrograms per cubic meter of Vapor
Methane in ppmV, and Oxygen and Carbon Dioxide in percent by Volume

SAMPLE NUMBER:		Blank	Blank	Blank	P30-0.5	P30-1.5	P31-0.5
SAMPLE DEPTH (feet):					0.5	1.5	0.5
PURGE VOLUME:					3	3	3
COLLECTION DATE:		11/8/11	11/9/11	11/10/11	11/8/11	11/8/11	11/8/11
COLLECTION TIME:		11:22	10:10	08:23	15:25	15:45	14:25
DILUTION FACTOR (VOCs):		1	1	1	1	1	1
	RL						
Benzene	30	nd	nd	nd	41	nd	120
Toluene	200	nd	nd	nd	nd	nd	nd
Ethylbenzene	100	nd	nd	nd	nd	nd	nd
m,p-Xylene	200	nd	nd	nd	nd	nd	nd
o-Xylene	100	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MtBE)	100	nd	nd	nd	nd	nd	nd
TPH (gasoline range)	10000	nd	nd	nd	nd	nd	nd
Methane	1000	nd	nd	nd	nd	nd	nd
Oxygen	1.0	19	21	21	16	16	20
Carbon Dioxide	1.0	nd	nd	nd	2.7	2.4	nd
1,1-Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		103%	98%	101%	101%	99%	98%
Surrogate Recovery (Toluene-d8)		91%	90%	92%	93%	93%	91%
Surrogate Recovery (1,4-BFB)		90%	89%	81%	95%	86%	92%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab
Analyses performed by: Mr. Leif Jonsson

11350 Monier Park Place, Rancho Cordova, CA 95742 Phone: (916) 853-8010 Fax: (916) 853-8020

teg

Conestoga-Rovers & Associates - Project # 240933
15275 Washington Avenue, San Leandro, California

TEG Project #11108F

Analyses of SOIL VAPOR
BTEX, MtBE, & TPH-gasoline (EPA method 8260B) in micrograms per cubic meter of Vapor
Methane in ppmV, and Oxygen and Carbon Dioxide in percent by Volume

SAMPLE NUMBER:		P31-0.5 dup	P31-1.5	P31-4	P31-4	P31-4	P32-0.5
SAMPLE DEPTH (feet):		0.5	1.5	4.0	4.0	4.0	0.5
PURGE VOLUME:		3	3	1	3	7	3
COLLECTION DATE:		11/8/11	11/8/11	11/8/11	11/8/11	11/8/11	11/9/11
COLLECTION TIME:		15:07	14:04	11:39	12:11	12:33	11:10
DILUTION FACTOR (VOCs):		1	1	2.5	2.5	2.5	1
	RL						
Benzene	30	130	420	7700	9900	13000	32
Toluene	200	nd	nd	nd	nd	670	nd
Ethylbenzene	100	nd	460	770	990	2000	nd
m,p-Xylene	200	nd	nd	nd	nd	nd	nd
o-Xylene	100	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MtBE)	100	nd	nd	nd	nd	nd	nd
TPH (gasoline range)	10000	nd	400000	23000000	31000000	39000000	nd
Methane	1000	nd	nd	46000	48000	49000	nd
Oxygen	1.0	19	19	2.6	2.7	2.2	21
Carbon Dioxide	1.0	nd	nd	4.3	5.0	5.6	nd
1,1-Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		103%	98%	119%	128%	117%	100%
Surrogate Recovery (Toluene-d8)		93%	99%	220% *	502% *	1050% *	90%
Surrogate Recovery (1,4-BFB)		93%	83%	114%	124%	116%	89%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits
' * ' Surrogate interference by coeluting compounds

Analyses performed in TEG-Northern California's lab
Analyses performed by: Mr. Leif Jonsson

11350 Monier Park Place, Rancho Cordova, CA 95742 Phone: (916) 853-8010 Fax: (916) 853-8020

teg

Conestoga-Rovers & Associates - Project # 240933
15275 Washington Avenue, San Leandro, California

TEG Project #11108F

Analyses of SOIL VAPOR
BTEX, MtBE, & TPH-gasoline (EPA method 8260B) in micrograms per cubic meter of Vapor
Methane in ppmV, and Oxygen and Carbon Dioxide in percent by Volume

SAMPLE NUMBER:		P32-1.5	P33-0.5	P33-1.5	P33-3.0	P34-0.5	P34-1.5
SAMPLE DEPTH (feet):		1.5	0.5	1.5	3.0	0.5	1.5
PURGE VOLUME:		3	3	3	3	3	3
COLLECTION DATE:		11/9/11	11/9/11	11/9/11	11/9/11	11/9/11	11/9/11
COLLECTION TIME:		11:32	12:35	12:56	13:25	15:02	15:21
DILUTION FACTOR (VOCs):		1	1	1	2.5	1	1
	RL						
Benzene	30	340	380	210	770	140	540
Toluene	200	nd	nd	nd	nd	nd	nd
Ethylbenzene	100	190	nd	120	290	nd	150
m,p-Xylene	200	nd	nd	nd	nd	nd	nd
o-Xylene	100	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MtBE)	100	nd	nd	nd	nd	nd	nd
TPH (gasoline range)	10000	81000	nd	nd	84000	nd	67000
Methane	1000	nd	nd	nd	nd	nd	nd
Oxygen	1.0	20	20	19	14	19	20
Carbon Dioxide	1.0	nd	nd	nd	2.8	nd	nd
1,1-Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		103%	103%	102%	102%	98%	102%
Surrogate Recovery (Toluene-d8)		88%	90%	90%	100%	88%	89%
Surrogate Recovery (1,4-BFB)		81%	79%	84%	83%	80%	88%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab
Analyses performed by: Mr. Leif Jonsson

11350 Monier Park Place, Rancho Cordova, CA 95742 Phone: (916) 853-8010 Fax: (916) 853-8020

teg

Conestoga-Rovers & Associates - Project # 240933
15275 Washington Avenue, San Leandro, California

TEG Project #11108F

Analyses of SOIL VAPOR
BTEX, MtBE, & TPH-gasoline (EPA method 8260B) in micrograms per cubic meter of Vapor
Methane in ppmV, and Oxygen and Carbon Dioxide in percent by Volume

SAMPLE NUMBER:		P34-1.5 dup	P34-2.5	P31-Flux-0	P31-Flux-4	P32-Flux-0	P32-Flux-4
SAMPLE DEPTH (feet):		1.5	2.5				
PURGE VOLUME:		3	3				
COLLECTION DATE:		11/9/11	11/9/11	11/10/11	11/10/11	11/9/11	11/9/11
COLLECTION TIME:		15:21	16:01	09:09	13:09	10:44	14:44
DILUTION FACTOR (VOCs):		1	2.5	1	1	1	1
	RL						
Benzene	30	580	5500	nd	nd	nd	nd
Toluene	200	nd	nd	nd	nd	nd	nd
Ethylbenzene	100	140	560	nd	nd	nd	nd
m,p-Xylene	200	nd	nd	nd	nd	nd	nd
o-Xylene	100	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MtBE)	100	nd	nd	nd	nd	nd	nd
TPH (gasoline range)	10000	69000	2700000	nd	nd	nd	nd
Methane	1000	nd	nd	nd	nd	nd	nd
Oxygen	1.0	19	17	2.4	6.2	3.1	7.0
Carbon Dioxide	1.0	nd	1.2	nd	nd	nd	nd
1,1-Difluoroethane (leak check)	10000	nd	nd	--	--	--	--
Surrogate Recovery (DBFM)		99%	102%	100%	100%	100%	98%
Surrogate Recovery (Toluene-d8)		89%	105%	89%	91%	92%	89%
Surrogate Recovery (1,4-BFB)		81%	85%	86%	84%	93%	91%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits
'--' Indicates analysis not done for this compound

Analyses performed in TEG-Northern California's lab
Analyses performed by: Mr. Leif Jonsson

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teg

Conestoga-Rovers & Associates - Project # 240933
15275 Washington Avenue, San Leandro, California

TEG Project #11108F

Analyses of SOIL VAPOR
BTEX, MtBE, & TPH-gasoline (EPA method 8260B) in micrograms per cubic meter of Vapor
Methane in ppmV, and Oxygen and Carbon Dioxide in percent by Volume

SAMPLE NUMBER:		P33-Flux-0	P33-Flux-4	P34-Flux-0	P34-Flux-4
SAMPLE DEPTH (feet):					
PURGE VOLUME:					
COLLECTION DATE:		11/10/11	11/10/11	11/10/11	11/10/11
COLLECTION TIME:		09:31	13:31	08:47	12:47
DILUTION FACTOR (VOCs):		1	1	1	1
	RL				
Benzene	30	nd	nd	nd	nd
Toluene	200	nd	nd	nd	nd
Ethylbenzene	100	nd	nd	nd	nd
m,p-Xylene	200	nd	nd	nd	nd
o-Xylene	100	nd	nd	nd	nd
Methyl-t-butyl ether (MtBE)	100	nd	nd	nd	nd
TPH (gasoline range)	10000	nd	nd	nd	nd
Methane	1000	--	nd	nd	nd
Oxygen	1.0	--	3.7	2.4	5.0
Carbon Dioxide	1.0	--	nd	nd	nd
1,1-Difluoroethane (leak check)	10000	--	--	--	--
Surrogate Recovery (DBFM)		105%	106%	98%	99%
Surrogate Recovery (Toluene-d8)		89%	94%	89%	90%
Surrogate Recovery (1,4-BFB)		94%	86%	78%	83%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits
'--' Indicates analysis not done for this compound

Analyses performed in TEG-Northern California's lab
Analyses performed by: Mr. Leif Jonsson

11350 Monier Park Place, Rancho Cordova, CA 95742 Phone: (916) 853-8010 Fax: (916) 853-8020

TEG Project #11108F

CALIBRATION STANDARDS - Initial Calibration / LCS

Instrument: Agilent 5975B MSD

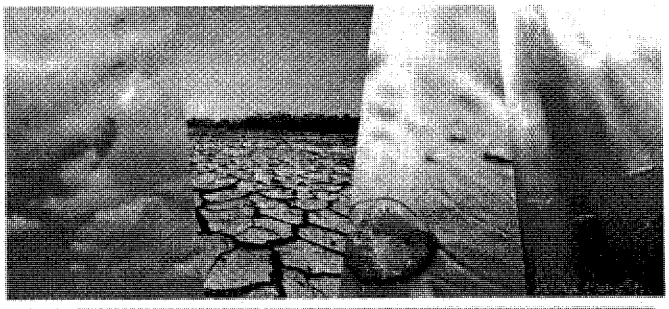
	INITIAL CALIBRATION		LCS	
COMPOUND	RF	%RSD	RF	%DIFF
Benzene	1.083	11.8%	0.958	11.5%
Toluene	0.858	7.3%	0.929	8.3%
Ethylbenzene	0.575	6.3%	0.500	13.0%
m,p-Xylene	0.675	10.8%	0.615	8.9%
o-Xylene	0.665	7.6%	0.596	10.4%
Methyl-t-butyl ether (MtBE)	0.543	4.6%	0.603	11.0%
TPH-Gasoline	1.303	9.5%	1.256	3.6%
Acceptable Limits		20.0%		15.0%

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 11-11-1006

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Conestoga-Rovers & Associates

Client Project Name: 15275 Washington Avenue, San Leandro, CA

Attention: Peter Schaefer
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Approved for release on 11/22/2011 by:
Xuan Dang
Project Manager

ResultLink ▸

Email your PM ▸

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 analyses, 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. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: 15275 Washington Avenue, San Leandro, CA
Work Order Number: 11-11-1006

Calscience Environmental Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Client:	Conestoga-Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608-2008	Work Order:	11-11-1006
		Project name:	15275 Washington Avenue, San Leandro, C
		Received:	11/11/11 10:30
Attn:	Peter Schaefer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
P-31-FLUX						
Benzene	**7.1**		1.6	ug/m3	EPA TO-15M	N/A
Toluene	**41**		19	ug/m3	EPA TO-15M	N/A
Ethylbenzene	**6.4**		2.2	ug/m3	EPA TO-15M	N/A
Xylenes (total)	**36**		8.7	ug/m3	EPA TO-15M	N/A
P-33-FLUX						
Benzene	**4.8**		1.6	ug/m3	EPA TO-15M	N/A
Toluene	**28**		19	ug/m3	EPA TO-15M	N/A
Ethylbenzene	**4.4**		2.2	ug/m3	EPA TO-15M	N/A
Xylenes (total)	**25**		8.7	ug/m3	EPA TO-15M	N/A
TPH as Gasoline	**9900**		7000	ug/m3	EPA TO-3M	N/A
P-34-FLUX						
Benzene	**7.6**		1.6	ug/m3	EPA TO-15M	N/A
Toluene	**42**		19	ug/m3	EPA TO-15M	N/A
Ethylbenzene	**6.6**		2.2	ug/m3	EPA TO-15M	N/A
Xylenes (total)	**37**		8.7	ug/m3	EPA TO-15M	N/A

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

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 11/11/11
Work Order No: 11-11-1006
Preparation: N/A
Method: EPA TO-15M
Units: ug/m3

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
P-31-FLUX	11-11-1006-1-A	11/10/11 13:09	Air	GC/MS AA	N/A	11/11/11 22:56	111111L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	7.1	1.6	1		Xylenes (total)	36	8.7	1	
Toluene	41	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	6.4	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	57-129			1,2-Dichloroethane-d4	94	47-137		
Toluene-d8	97	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
P-33-FLUX	11-11-1006-2-A	11/10/11 13:31	Air	GC/MS AA	N/A	11/11/11 23:44	111111L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	4.8	1.6	1		Xylenes (total)	25	8.7	1	
Toluene	28	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	4.4	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	99	57-129			1,2-Dichloroethane-d4	94	47-137		
Toluene-d8	100	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
P-34-FLUX	11-11-1006-3-A	11/10/11 12:47	Air	GC/MS AA	N/A	11/12/11 00:31	111111L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	7.6	1.6	1		Xylenes (total)	37	8.7	1	
Toluene	42	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	6.6	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	100	57-129			1,2-Dichloroethane-d4	95	47-137		
Toluene-d8	99	78-156							

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 11/11/11
Work Order No: 11-11-1006
Preparation: N/A
Method: EPA TO-15M
Units: ug/m3

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-983-1,957	N/A	Air	GC/MS AA	N/A	11/11/11 13:20	111111L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Xylenes (total)	ND	8.7	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	ND	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	57-129			1,2-Dichloroethane-d4	97	47-137		
Toluene-d8	98	78-156							

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 11/11/11
Work Order No: 11-11-1006
Preparation: N/A
Method: EPA TO-3M

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
P-31-FLUX	11-11-1006-1-A	11/10/11 13:09	Air	GC 53	N/A	11/11/11 13:59	111111L01

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
P-33-FLUX	11-11-1006-2-A	11/10/11 13:31	Air	GC 53	N/A	11/11/11 14:09	111111L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	9900	7000	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
P-34-FLUX	11-11-1006-3-A	11/10/11 12:47	Air	GC 53	N/A	11/11/11 14:19	111111L01

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	098-01-005-3,510	N/A	Air	GC 53	N/A	11/11/11 10:48	111111L01

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

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 11/11/11
Work Order No: 11-11-1006
Preparation: N/A
Method: EPA TO-3M

Project: 15275 Washington Avenue, San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
11-11-0951-1	Air	GC 53	N/A	11/11/11	111111D02

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	419800	406400	3	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 11-11-1006
Preparation: N/A
Method: EPA TO-15M

Project: 15275 Washington Avenue, San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-983-1,957	Air	GC/MS AA	N/A	11/11/11	111111L01

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	79.87	101	101	60-156	0	0-40	
Toluene	94.21	99	101	56-146	1	0-43	
Ethylbenzene	108.6	96	96	52-154	0	0-38	
Xylenes (total)	325.7	93	93	42-156	1	0-41	
Methyl-t-Butyl Ether (MTBE)	90.13	100	99	50-150	1	0-25	
Tert-Butyl Alcohol (TBA)	151.6	96	89	60-140	7	0-35	
Diisopropyl Ether (DIPE)	104.5	85	85	60-140	0	0-35	
Ethyl-t-Butyl Ether (ETBE)	104.5	101	101	60-140	0	0-35	
Tert-Amyl-Methyl Ether (TAME)	104.5	102	100	60-140	2	0-35	
Ethanol	188.4	77	76	47-137	1	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 11-11-1006

Qualifier	Definition
*	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.
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.

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Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:

- [ ] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [x] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Peter Schaefer

PO #:

INCIDENT # (ENV. SERVICES): 9 7 0 9 3 4 1 2 [ ] CHECK IF NO INCIDENT # APPLIES

SAP #: 1 2 9 4 6 0

DATE: 11/10/2011

PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

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

SITE ADDRESS: Street and City: 15275 Washington Avenue, San Leandro, CA

State: CA

GLOBAL ID NO.: TO600101226

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

PHONE NO.: 510-420-3343

E-MAIL: shelledf@craworld.com

CONSULTANT PROJECT NO.: 240933-95-11.04

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): Chris Benedict

LAB USE ONLY: 11-11-1006

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

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

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

Please report results in µg/m3 for TO-3 & TO-15. Needed detection limit of below 8 µg/m3 for benzene

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	Ice OTHER	NO. OF CONT.	Helium, Oxygen, Carbon Dioxide, & Methane Method ASTM D1946	TPHg (EPA TO-3)	BTEX & MTBE (EPA TO-15)	Container PID Readings or Laboratory Notes
1	P-31 - FLUX	11/10/11	1309	Vapor				X				X	X	
2	P-33 - FLUX CB	11/10/11 ~~3/30/11~~	1331	Vapor				X				X	X	
3	P-34 - FLUX CB	11/10/11 ~~3/30/11~~	1247	Vapor				X				X	X	

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature) CEL	Date: 11/10/11	Time: 1500
Relinquished by: (Signature) 11/10/11 1730	Received by: (Signature)	Date: 11/11/11	Time: 10:30
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

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1006

GSO

< 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 #: 517815059

NPS

ORC

D

GARDEN GROVE

D92843A

95976479

Print Date : 11/10/11 15:32 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 or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 11-11-1006

SAMPLE RECEIPT FORM

Box 1 of 1

CLIENT: CRA DATE: 11/11/11

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:** JS

CUSTODY SEALS INTACT:

☑ Box ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A **Initial:** JS

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** JS

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☑ 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 analysis			
Volatile 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**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

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

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

Preservative: h: HCL n: HNO_3 **na$_2$**: $Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** JS

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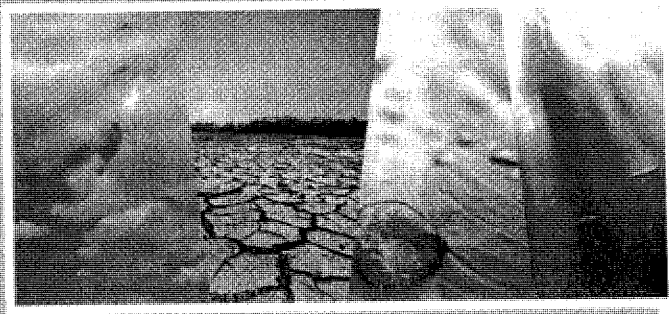
Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 11-11-1373



The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Conestoga-Rovers & Associates

Client Project Name: 15275 Washington Avenue, San Leandro, CA

Attention: Peter Schaefer
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Approved for release on 11/28/2011 by:
Xuan Dang
Project Manager

ResultLink ▸

Email your PM ▸

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 analyses, 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. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: 15275 Washington Avenue, San Leandro, CA
Work Order Number: 11-11-1373

Calscience Environmental Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

Calscience Work Order No.: 11-11-1373

Insufficient Sample Volume

Sample #12 SVG-5-5 was received with low volume and was insufficient to perform all requested analyses on the COC. Client was notified and had decided to cancel all analyses for this sample.

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Calscience Environmental Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Client:	Conestoga-Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608-2008	Work Order:	11-11-1373
		Project name:	15275 Washington Avenue, San Leandro, C
		Received:	11/17/11 10:30
Attn:	Peter Schaefer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
SVG-6-5						
Methane	**2.11**		0.500	%v	ASTM D-1946	N/A
Carbon Dioxide	**6.49**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**2.23**		0.500	%v	ASTM D-1946	N/A
Benzene	**19000**		1600	ug/m3	EPA TO-15M	N/A
Ethylbenzene	**6700**		2200	ug/m3	EPA TO-15M	N/A
TPH as Gasoline	**120000000**		700000	ug/m3	EPA TO-3M	N/A
SVG-7-3						
Carbon Dioxide	**2.52**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**13.4**		0.500	%v	ASTM D-1946	N/A
SVG-8-3						
Carbon Dioxide	**8.81**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**2.40**		0.500	%v	ASTM D-1946	N/A
Ethylbenzene	**3.0**		2.2	ug/m3	EPA TO-15M	N/A
TPH as Gasoline	**20000**		7000	ug/m3	EPA TO-3M	N/A
SVG-8-5						
Carbon Dioxide	**9.61**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**2.28**		0.500	%v	ASTM D-1946	N/A
TPH as Gasoline	**34000**		7000	ug/m3	EPA TO-3M	N/A
SVG-9-3						
Carbon Dioxide	**12.3**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**5.76**		0.500	%v	ASTM D-1946	N/A
TPH as Gasoline	**13000**		7000	ug/m3	EPA TO-3M	N/A
SVG-9-5						
Carbon Dioxide	**13.8**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**5.04**		0.500	%v	ASTM D-1946	N/A
TPH as Gasoline	**9900**		7000	ug/m3	EPA TO-3M	N/A
SVG-9-7.5						
Carbon Dioxide	**15.2**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**4.14**		0.500	%v	ASTM D-1946	N/A

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*MDL is shown.

Calscience Environmental Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Client:	Conestoga-Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608-2008	Work Order:	11-11-1373
		Project name:	15275 Washington Avenue, San Leandro, C
		Received:	11/17/11 10:30
Attn:	Peter Schaefer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
SVG-7-5						
Carbon Dioxide	**2.64**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**13.6**		0.500	%v	ASTM D-1946	N/A
SVG-4-5						
Carbon Dioxide	**9.35**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**7.32**		0.500	%v	ASTM D-1946	N/A
Ethylbenzene	**16**		2.2	ug/m3	EPA TO-15M	N/A
Xylenes (total)	**30**		8.7	ug/m3	EPA TO-15M	N/A
SVG-4-3						
Carbon Dioxide	**9.08**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**7.27**		0.500	%v	ASTM D-1946	N/A
Ethylbenzene	**54**		2.2	ug/m3	EPA TO-15M	N/A
Xylenes (total)	**85**		8.7	ug/m3	EPA TO-15M	N/A
SVG-5-3						
Methane	**1.42**		0.500	%v	ASTM D-1946	N/A
Carbon Dioxide	**10.2**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**2.50**		0.500	%v	ASTM D-1946	N/A
Benzene	**1000**		320	ug/m3	EPA TO-15M	N/A
Ethylbenzene	**1700**		430	ug/m3	EPA TO-15M	N/A
TPH as Gasoline	**17000000**		70000	ug/m3	EPA TO-3M	N/A
SVG-6-3						
Methane	**2.23**		0.500	%v	ASTM D-1946	N/A
Carbon Dioxide	**6.05**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**2.44**		0.500	%v	ASTM D-1946	N/A
Benzene	**16000**		1600	ug/m3	EPA TO-15M	N/A
Ethylbenzene	**7900**		2200	ug/m3	EPA TO-15M	N/A
TPH as Gasoline	**99000000**		700000	ug/m3	EPA TO-3M	N/A

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

*MDL is shown.

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 11/17/11
Work Order No: 11-11-1373
Preparation: N/A
Method: ASTM D-1946
Units: %v

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-6-5	11-11-1373-1-A	11/16/11 14:35	Air	GC 34	N/A	11/17/11 12:58	111117L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	2.11	0.500	1		Oxygen + Argon	2.23	0.500	1	
Carbon Dioxide	6.49	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-7-3	11-11-1373-2-A	11/16/11 11:35	Air	GC 34	N/A	11/17/11 13:35	111117L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	13.4	0.500	1	
Carbon Dioxide	2.52	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-8-3	11-11-1373-3-A	11/16/11 10:55	Air	GC 34	N/A	11/17/11 14:19	111117L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	2.40	0.500	1	
Carbon Dioxide	8.81	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-8-5	11-11-1373-4-A	11/16/11 11:05	Air	GC 34	N/A	11/17/11 15:44	111117L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	2.28	0.500	1	
Carbon Dioxide	9.61	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-9-3	11-11-1373-5-A	11/16/11 10:00	Air	GC 34	N/A	11/17/11 16:34	111117L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	5.76	0.500	1	
Carbon Dioxide	12.3	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-9-5	11-11-1373-6-A	11/16/11 10:11	Air	GC 34	N/A	11/17/11 17:21	111117L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	5.04	0.500	1	
Carbon Dioxide	13.8	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-9-7.5	11-11-1373-7-A	11/16/11 10:30	Air	GC 34	N/A	11/17/11 18:05	111117L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	4.14	0.500	1	
Carbon Dioxide	15.2	0.500	1						

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 11/17/11
Work Order No: 11-11-1373
Preparation: N/A
Method: ASTM D-1946
Units: %v

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-7-5	11-11-1373-8-A	11/16/11 11:45	Air	GC 34	N/A	11/17/11 18:46	111117L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	13.6	0.500	1	
Carbon Dioxide	2.64	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-4-5	11-11-1373-9-A	11/16/11 13:20	Air	GC 34	N/A	11/17/11 19:19	111117L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	7.32	0.500	1	
Carbon Dioxide	9.35	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-4-3	11-11-1373-10-A	11/16/11 13:10	Air	GC 34	N/A	11/17/11 20:10	111117L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	7.27	0.500	1	
Carbon Dioxide	9.08	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-5-3	11-11-1373-11-A	11/16/11 13:45	Air	GC 34	N/A	11/17/11 21:18	111117L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	1.42	0.500	1		Oxygen + Argon	2.50	0.500	1	
Carbon Dioxide	10.2	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-6-3	11-11-1373-13-A	11/16/11 14:24	Air	GC 34	N/A	11/17/11 21:56	111117L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	2.23	0.500	1		Oxygen + Argon	2.44	0.500	1	
Carbon Dioxide	6.05	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-03-002-1,433	N/A	Air	GC 34	N/A	11/17/11 12:18	111117L01

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		Nitrogen	ND	0.500	1	
Carbon Monoxide	ND	0.500	1						

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 11/17/11
Work Order No: 11-11-1373
Preparation: N/A
Method: ASTM D-1946 (M)

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-6-5	11-11-1373-1-A	11/16/11 14:35	Air	GC 55	N/A	11/17/11 13:46	111117L01

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
SVG-7-3	11-11-1373-2-A	11/16/11 11:35	Air	GC 55	N/A	11/17/11 14:09	111117L01

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
SVG-8-3	11-11-1373-3-A	11/16/11 10:55	Air	GC 55	N/A	11/17/11 14:33	111117L01

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
SVG-8-5	11-11-1373-4-A	11/16/11 11:05	Air	GC 55	N/A	11/17/11 15:17	111117L01

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
SVG-9-3	11-11-1373-5-A	11/16/11 10:00	Air	GC 55	N/A	11/17/11 15:39	111117L01

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
SVG-9-5	11-11-1373-6-A	11/16/11 10:11	Air	GC 55	N/A	11/17/11 16:05	111117L01

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

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 11/17/11
Work Order No: 11-11-1373
Preparation: N/A
Method: ASTM D-1946 (M)

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-9-7.5	11-11-1373-7-A	11/16/11 10:30	Air	GC 55	N/A	11/17/11 16:26	111117L01

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
SVG-7-5	11-11-1373-8-A	11/16/11 11:45	Air	GC 55	N/A	11/17/11 16:51	111117L01

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
SVG-4-5	11-11-1373-9-A	11/16/11 13:20	Air	GC 55	N/A	11/17/11 17:15	111117L01

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
SVG-4-3	11-11-1373-10-A	11/16/11 13:10	Air	GC 55	N/A	11/17/11 17:37	111117L01

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
SVG-5-3	11-11-1373-11-A	11/16/11 13:45	Air	GC 55	N/A	11/17/11 18:00	111117L01

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
SVG-6-3	11-11-1373-13-A	11/16/11 14:24	Air	GC 55	N/A	11/17/11 18:26	111117L01

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

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 11/17/11
Work Order No: 11-11-1373
Preparation: N/A
Method: ASTM D-1946 (M)

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-872-187**	**N/A**	**Air**	**GC 55**	**N/A**	**11/17/11 13:24**	**111117L01**

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

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 11/17/11
Work Order No: 11-11-1373
Preparation: N/A
Method: EPA TO-15M
Units: ug/m3

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-6-5	11-11-1373-1-A	11/16/11 14:35	Air	GC/MS AA	N/A	11/18/11 18:34	111118L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	19000	1600	1000		Xylenes (total)	ND	8700	1000	
Toluene	ND	19000	1000		Methyl-t-Butyl Ether (MTBE)	ND	7200	1000	
Ethylbenzene	6700	2200	1000						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	121	57-129			1,2-Dichloroethane-d4	92	47-137		
Toluene-d8	64	78-156		1,2,6					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-7-3	11-11-1373-2-A	11/16/11 11:35	Air	GC/MS AA	N/A	11/17/11 23:02	111117L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Xylenes (total)	ND	8.7	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	ND	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	57-129			1,2-Dichloroethane-d4	100	47-137		
Toluene-d8	97	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-8-3	11-11-1373-3-A	11/16/11 10:55	Air	GC/MS AA	N/A	11/17/11 23:50	111117L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Xylenes (total)	ND	8.7	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	3.0	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	107	57-129			1,2-Dichloroethane-d4	103	47-137		
Toluene-d8	96	78-156							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 11/17/11
Work Order No: 11-11-1373
Preparation: N/A
Method: EPA TO-15M
Units: ug/m3

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-8-5	11-11-1373-4-A	11/16/11 11:05	Air	GC/MS AA	N/A	11/18/11 00:38	111117L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Xylenes (total)	ND	8.7	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	ND	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	57-129			1,2-Dichloroethane-d4	96	47-137		
Toluene-d8	97	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-9-3	11-11-1373-5-A	11/16/11 10:00	Air	GC/MS AA	N/A	11/18/11 01:25	111117L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Xylenes (total)	ND	8.7	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	ND	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	101	57-129			1,2-Dichloroethane-d4	93	47-137		
Toluene-d8	98	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-9-5	11-11-1373-6-A	11/16/11 10:11	Air	GC/MS AA	N/A	11/18/11 02:12	111117L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Xylenes (total)	ND	8.7	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	ND	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	57-129			1,2-Dichloroethane-d4	113	47-137		
Toluene-d8	98	78-156							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 11/17/11
Work Order No: 11-11-1373
Preparation: N/A
Method: EPA TO-15M
Units: ug/m3

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-9-7-5	11-11-1373-7-A	11/16/11 10:30	Air	GC/MS AA	N/A	11/18/11 03:00	111117L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Xylenes (total)	ND	8.7	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	ND	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	99	57-129			1,2-Dichloroethane-d4	93	47-137		
Toluene-d8	98	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-7-5	11-11-1373-8-A	11/16/11 11:45	Air	GC/MS AA	N/A	11/18/11 03:47	111117L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Xylenes (total)	ND	8.7	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	ND	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	98	57-129			1,2-Dichloroethane-d4	95	47-137		
Toluene-d8	98	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-4-5	11-11-1373-9-A	11/16/11 13:20	Air	GC/MS AA	N/A	11/18/11 04:34	111117L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Xylenes (total)	30	8.7	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	16	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	98	57-129			1,2-Dichloroethane-d4	95	47-137		
Toluene-d8	97	78-156							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	11/17/11
5900 Hollis Street, Suite A	Work Order No:	11-11-1373
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	EPA TO-15M
	Units:	ug/m3

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-4-3	11-11-1373-10-A	11/16/11 13:10	Air	GC/MS AA	N/A	11/18/11 05:22	111117L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Xylenes (total)	85	8.7	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	54	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	57-129			1,2-Dichloroethane-d4	98	47-137		
Toluene-d8	97	78-156							

SVG-5-3	11-11-1373-11-A	11/16/11 13:45	Air	GC/MS AA	N/A	11/18/11 17:01	111118L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1000	320	200		Xylenes (total)	ND	1700	200	
Toluene	ND	3800	200		Methyl-t-Butyl Ether (MTBE)	ND	1400	200	
Ethylbenzene	1700	430	200						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	170	57-129		1,2,7	1,2-Dichloroethane-d4	98	47-137		
Toluene-d8	66	78-156		1,2,6					

SVG-6-3	11-11-1373-13-A	11/16/11 14:24	Air	GC/MS AA	N/A	11/18/11 17:47	111118L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	16000	1600	1000		Xylenes (total)	ND	8700	1000	
Toluene	ND	19000	1000		Methyl-t-Butyl Ether (MTBE)	ND	7200	1000	
Ethylbenzene	7900	2200	1000						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	118	57-129			1,2-Dichloroethane-d4	95	47-137		
Toluene-d8	66	78-156		1,2,6					

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received: 11/17/11
5900 Hollis Street, Suite A	Work Order No: 11-11-1373
Emeryville, CA 94608-2008	Preparation: N/A
	Method: EPA TO-15M
	Units: ug/m3

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-983-1,964	N/A	Air	GC/MS AA	N/A	11/17/11 18:42	111117L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Xylenes (total)	ND	8.7	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	ND	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	99	57-129			1,2-Dichloroethane-d4	101	47-137		
Toluene-d8	97	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-983-1,965	N/A	Air	GC/MS AA	N/A	11/18/11 12:13	111118L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Xylenes (total)	ND	8.7	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	ND	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	101	57-129			1,2-Dichloroethane-d4	100	47-137		
Toluene-d8	98	78-156							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 11/17/11
Work Order No: 11-11-1373
Preparation: N/A
Method: EPA TO-3M

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-6-5	11-11-1373-1-A	11/16/11 14:35	Air	GC 13	N/A	11/17/11 18:13	111117L02

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	120000000	700000	100		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-7-3	11-11-1373-2-A	11/16/11 11:35	Air	GC 13	N/A	11/17/11 14:29	111117L02

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
SVG-8-3	11-11-1373-3-A	11/16/11 10:55	Air	GC 13	N/A	11/17/11 14:39	111117L02

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	20000	7000	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-8-5	11-11-1373-4-A	11/16/11 11:05	Air	GC 13	N/A	11/17/11 14:50	111117L02

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	34000	7000	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-9-3	11-11-1373-5-A	11/16/11 10:00	Air	GC 13	N/A	11/17/11 15:02	111117L02

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	13000	7000	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-9-5	11-11-1373-6-A	11/16/11 10:11	Air	GC 13	N/A	11/17/11 15:13	111117L02

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	9900	7000	1		ug/m3

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 11/17/11
Work Order No: 11-11-1373
Preparation: N/A
Method: EPA TO-3M

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-9-7.5	11-11-1373-7-A	11/16/11 10:30	Air	GC 13	N/A	11/17/11 15:23	111117L02

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
SVG-7-5	11-11-1373-8-A	11/16/11 11:45	Air	GC 13	N/A	11/17/11 15:37	111117L02

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
SVG-4-5	11-11-1373-9-A	11/16/11 13:20	Air	GC 13	N/A	11/17/11 15:47	111117L02

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
SVG-4-3	11-11-1373-10-A	11/16/11 13:10	Air	GC 13	N/A	11/17/11 15:59	111117L02

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
SVG-5-3	11-11-1373-11-A	11/16/11 13:45	Air	GC 13	N/A	11/17/11 17:54	111117L02

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	17000000	70000	10		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-6-3	11-11-1373-13-A	11/16/11 14:24	Air	GC 13	N/A	11/17/11 18:38	111117L02

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	99000000	700000	100		ug/m3

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 11/17/11
Work Order No: 11-11-1373
Preparation: N/A
Method: EPA TO-3M

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**098-01-005-3,522**	**N/A**	**Air**	**GC 13**	**N/A**	**11/17/11 11:19**	**111117L02**

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

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

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 11/17/11
Work Order No: 11-11-1373
Preparation: N/A
Method: EPA TO-3M

Project: 15275 Washington Avenue, San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
SVG-6-3	Air	GC 13	N/A	11/17/11	111117D02

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	99100000	102100000	3	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 11-11-1373
Preparation: N/A
Method: ASTM D-1946

Project: 15275 Washington Avenue, San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-03-002-1,433	Air	GC 34	N/A	11/17/11	111117L01

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Methane	10.12	94	94	80-120	0	0-30	
Carbon Dioxide	10.07	96	96	80-120	1	0-30	
Carbon Monoxide	9.930	102	102	80-120	0	0-30	
Oxygen + Argon	3.500	96	95	80-120	1	0-30	
Nitrogen	10.02	98	97	80-120	1	0-30	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Conestoga-Rovers & Associates	Date Received:	N/A
5900 Hollis Street, Suite A	Work Order No:	11-11-1373
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	ASTM D-1946 (M)

Project: 15275 Washington Avenue, San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-872-187	Air	GC 55	N/A	11/17/11	111117L01

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Helium	1.000	96	99	80-120	3	0-30	
Hydrogen	1.000	98	101	80-120	3	0-30	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 11-11-1373
Preparation: N/A
Method: EPA TO-15M

Project: 15275 Washington Avenue, San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-983-1,964	Air	GC/MS AA	N/A	11/17/11	111117L01

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	79.87	101	101	60-156	0	0-40	
Toluene	94.21	102	102	56-146	0	0-43	
Ethylbenzene	108.6	97	99	52-154	2	0-38	
Xylenes (total)	325.7	97	98	42-156	1	0-41	
Methyl-t-Butyl Ether (MTBE)	90.13	105	105	50-150	0	0-25	
Tert-Butyl Alcohol (TBA)	151.6	99	100	60-140	1	0-35	
Diisopropyl Ether (DIPE)	104.5	83	82	60-140	1	0-35	
Ethyl-t-Butyl Ether (ETBE)	104.5	106	103	60-140	2	0-35	
Tert-Amyl-Methyl Ether (TAME)	104.5	101	101	60-140	0	0-35	
Ethanol	188.4	146	143	47-137	2	0-35	X

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 11-11-1373
Preparation: N/A
Method: EPA TO-15M

Project: 15275 Washington Avenue, San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-983-1,965	Air	GC/MS AA	N/A	11/18/11	111118L01

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	79.87	95	96	60-156	1	0-40	
Toluene	94.21	94	95	56-146	2	0-43	
Ethylbenzene	108.6	91	93	52-154	2	0-38	
Xylenes (total)	325.7	93	95	42-156	2	0-41	
Methyl-t-Butyl Ether (MTBE)	90.13	100	104	50-150	4	0-25	
Tert-Butyl Alcohol (TBA)	151.6	110	111	60-140	1	0-35	
Diisopropyl Ether (DIPE)	104.5	80	82	60-140	3	0-35	
Ethyl-t-Butyl Ether (ETBE)	104.5	102	105	60-140	2	0-35	
Tert-Amyl-Methyl Ether (TAME)	104.5	95	99	60-140	4	0-35	
Ethanol	188.4	172	176	47-137	3	0-35	X

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 11-11-1373

Qualifier	Definition
*	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.
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.

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Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [ ] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [x] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Peter Schaefer

PO #:

INCIDENT # (ENV SERVICES): 97093412 [ ] CHECK IF NO INCIDENT # APPLIES

DATE: 11/10/2011

SAP #: 129460

PAGE: 1 of 2

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

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@craworld.com

SITE ADDRESS: Street and City: 15275 Washington Avenue, San Leandro, CA

State: CA

GLOBAL ID NO.: TO600101226

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

PHONE NO.: 510-420-3343

E-MAIL: shelledf@craworld.com

CONSULTANT PROJECT NO.: 240933-95-11.04

SAMPLER NAME(S) (Print): Belew Yifru

LAB USE ONLY: 11-11-1373

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:

SPECIAL INSTRUCTIONS OR NOTES :

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

Please report results in µg/m³ for 8260. Needed detection limit of below 8 µg/m3 for benzene

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	Ice	OTHER	NO. OF CONT.	Helium, Oxygen, Carbon Dioxide, & Methane Method ASTM D1946	TPHg (EPA TO-3)	BTEX & MTBE (EPA TO-15)	Container PID Readings or Laboratory Notes
1	SVG-6-5	11/16/11	1435	Vapor				X				X	X	X	
2	SVG-7-3	11/16/11	1135	Vapor				X				X	X	X	
3	SVG-8-3	11/16/11	1055	Vapor				X				X	X	X	
4	SVG-8-5	11/16/11	1105	Vapor				X				X	X	X	
	~~SVG-8-7.5~~ B.Y	~~11/16/11~~		~~Vapor~~				~~X~~				~~X~~	~~X~~	~~X~~	
5	SVG-9-3	11/16/11	1000	Vapor				X				X	X	X	
6	SVG-9-5	11/16/11	1011	Vapor				X				X	X	X	
7	SVG-9-7.5	11/16/11	1030	Vapor				X				X	X	X	
8	SVG-7.5	11/16/11	1145	"				X				X	X	X	
9	SVG-4-5	11/16/11	1320	"				X				X	X	X	

TEMPERATURE ON RECEIPT C°

		Date	Time
Relinquished by: (Signature) Belew Yifru	Received by: (Signature) CEL	11/16/11	1455
Relinquished by: (Signature) 11/16/11 1730	Received by: (Signature)	11/17/11	10:30
Relinquished by: (Signature)	Received by: (Signature)		

05/2/06 Revision

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Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [ ] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [x] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Peter Schaefer

INCIDENT # (ENV SERVICES): 9 7 0 9 3 4 1 2 — [ ] CHECK IF NO INCIDENT # APPLIES

DATE: 11/10/2011

PAGE: 21 of 21

PO #:

SAP #: 1 2 9 4 6 0

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

SITE ADDRESS: Street and City: 15275 Washington Avenue, San Leandro, CA

State: CA

GLOBAL ID NO.: TO600101226

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

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

PHONE NO.: 510-420-3343

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TELEPHONE: 510-420-3319

FAX: 510-420-9170

E-MAIL: pschaefer@craworld.com

SAMPLER NAME(S) (Print): Belew Yifru

LAB USE ONLY: 11-11-1373

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

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LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	Ice OTHER	NO. OF CONT.	Helium, Oxygen, Carbon Dioxide, & Methane Method ASTM D1946	TPHg (EPA TO-3)	BTEX & MTBE (EPA TO-15)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
	SVG-1-3	11/16/11		Vapor				X			X	X	X	
	SVG-1-5	11/16/11		Vapor				X			X	X	X	
	SVG-2-3	11/16/11		Vapor				X			X	X	X	
	SVG-2-5	11/16/11		Vapor				X			X	X	X	
	SVG-3-3	11/16/11		Vapor				X			X	X	X	
	SVG-3-5	11/16/11		Vapor				X			X	X	X	
10	SVG-4-3	11/16/11	1310	Vapor				X			X	X	X	
11	SVG-5-3	11/16/11	1345	Vapor				X			X	X	X	
12	SVG-5-5	11/16/11	1355	Vapor				X			X	X	X	
13	SVG-6-3	11/16/11	1424	Vapor				X			X	X	X	

		Date	Time
Relinquished by: (Signature) BELEW YIFRU	Received by: (Signature) CEL	11/16/11	1455
Relinquished by: (Signature) TO GSO 11/16/11 1730	Received by: (Signature)	11/17/11	10:30
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

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1373

GSO

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 #: 517853584

NPS

ORC

D

GARDEN GROVE

D92843A

96140004

Print Date : 11/16/11 16:03 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 or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 11-11-[1][3][7][3]

SAMPLE RECEIPT FORM

Box 1 of 1

CLIENT: CRA DATE: 11/17/11

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: PS

CUSTODY SEALS INTACT:

☑ Box ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Initial: PS

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☑ 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 analysis			
Volatile 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**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

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:** VOC

Preservative: h: HCL n: HNO_3 **na$_2$**:$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH f: Filtered **Scanned by:** VOC

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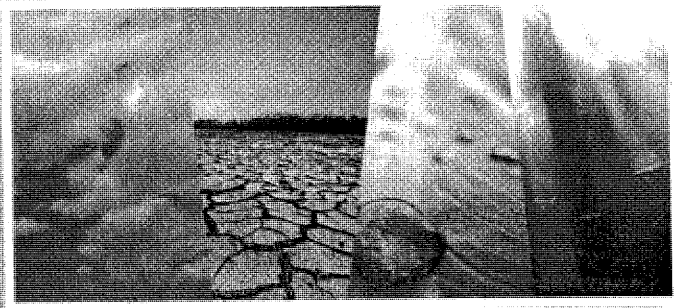
Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 11-11-1476

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Conestoga-Rovers & Associates

Client Project Name: 15275 Washington Avenue, San Leandro, CA

Attention: Peter Schaefer
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Approved for release on 11/30/2011 by:
Xuan Dang
Project Manager

ResultLink ▸

Email your PM ▸

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 analyses, 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. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: 15275 Washington Avenue, San Leandro, CA
Work Order Number: 11-11-1476

Calscience Environmental Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Client:	Conestoga-Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608-2008	Work Order:	11-11-1476
		Project name:	15275 Washington Avenue, San Leandro, C
		Received:	11/18/11 10:30
Attn:	Peter Schaefer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
SVG-1-3						
Methane	**1.77**		0.500	%v	ASTM D-1946	N/A
Carbon Dioxide	**14.5**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**2.56**		0.500	%v	ASTM D-1946	N/A
Benzene	**2500**		160	ug/m3	EPA TO-15M	N/A
Ethylbenzene	**670**		220	ug/m3	EPA TO-15M	N/A
TPH as Gasoline	**9000000**		70000	ug/m3	EPA TO-3M	N/A
SVG-1-5						
Methane	**1.67**		0.500	%v	ASTM D-1946	N/A
Carbon Dioxide	**16.1**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**2.67**		0.500	%v	ASTM D-1946	N/A
Benzene	**2000**		160	ug/m3	EPA TO-15M	N/A
Ethylbenzene	**1200**		220	ug/m3	EPA TO-15M	N/A
TPH as Gasoline	**10000000**		70000	ug/m3	EPA TO-3M	N/A
SVG-1-7.5						
Methane	**1.70**		0.500	%v	ASTM D-1946	N/A
Carbon Dioxide	**18.1**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**2.12**		0.500	%v	ASTM D-1946	N/A
Benzene	**1900**		160	ug/m3	EPA TO-15M	N/A
Ethylbenzene	**820**		220	ug/m3	EPA TO-15M	N/A
TPH as Gasoline	**11000000**		70000	ug/m3	EPA TO-3M	N/A
SVG-2-3						
Methane	**1.88**		0.500	%v	ASTM D-1946	N/A
Carbon Dioxide	**16.2**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**2.21**		0.500	%v	ASTM D-1946	N/A
Benzene	**15000**		800	ug/m3	EPA TO-15M	N/A
Ethylbenzene	**33000**		1100	ug/m3	EPA TO-15M	N/A
TPH as Gasoline	**11000000**		70000	ug/m3	EPA TO-3M	N/A

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*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client:	Conestoga-Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608-2008	Work Order:	11-11-1476
		Project name:	15275 Washington Avenue, San Leandro, C
		Received:	11/18/11 10:30
Attn:	Peter Schaefer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
SVG-2-5						
Methane	**1.79**		0.500	%v	ASTM D-1946	N/A
Carbon Dioxide	**17.1**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**2.50**		0.500	%v	ASTM D-1946	N/A
Benzene	**11000**		800	ug/m3	EPA TO-15M	N/A
Ethylbenzene	**120000**		1100	ug/m3	EPA TO-15M	N/A
Xylenes (total)	**22000**		4300	ug/m3	EPA TO-15M	N/A
TPH as Gasoline	**14000000**		70000	ug/m3	EPA TO-3M	N/A
SVG-2-7.5						
Methane	**1.85**		0.500	%v	ASTM D-1946	N/A
Carbon Dioxide	**17.9**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**2.18**		0.500	%v	ASTM D-1946	N/A
Benzene	**9600**		800	ug/m3	EPA TO-15M	N/A
Ethylbenzene	**88000**		1100	ug/m3	EPA TO-15M	N/A
TPH as Gasoline	**13000000**		70000	ug/m3	EPA TO-3M	N/A
SVG-3-3						
Carbon Dioxide	**7.30**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**13.5**		0.500	%v	ASTM D-1946	N/A
Ethylbenzene	**30**		2.2	ug/m3	EPA TO-15M	N/A
Xylenes (total)	**45**		8.7	ug/m3	EPA TO-15M	N/A
SVG-3-5						
Carbon Dioxide	**7.40**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**13.3**		0.500	%v	ASTM D-1946	N/A
Ethylbenzene	**70**		2.2	ug/m3	EPA TO-15M	N/A
Xylenes (total)	**110**		8.7	ug/m3	EPA TO-15M	N/A
SVG-5-5						
Methane	**1.44**		0.500	%v	ASTM D-1946	N/A
Carbon Dioxide	**12.1**		0.500	%v	ASTM D-1946	N/A
Oxygen + Argon	**1.88**		0.500	%v	ASTM D-1946	N/A
Benzene	**1900**		320	ug/m3	EPA TO-15M	N/A
Ethylbenzene	**2700**		430	ug/m3	EPA TO-15M	N/A
Xylenes (total)	**3100**		1700	ug/m3	EPA TO-15M	N/A
TPH as Gasoline	**17000000**		70000	ug/m3	EPA TO-3M	N/A

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

*MDL is shown.

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 11/18/11
Work Order No: 11-11-1476
Preparation: N/A
Method: ASTM D-1946
Units: %v

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-1-3	11-11-1476-1-A	11/17/11 09:20	Air	GC 34	N/A	11/18/11 16:42	111118L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	1.77	0.500	1		Oxygen + Argon	2.56	0.500	1	
Carbon Dioxide	14.5	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-1-5	11-11-1476-2-A	11/17/11 09:50	Air	GC 34	N/A	11/18/11 17:18	111118L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	1.67	0.500	1		Oxygen + Argon	2.67	0.500	1	
Carbon Dioxide	16.1	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-1-7.5	11-11-1476-3-A	11/17/11 10:20	Air	GC 34	N/A	11/18/11 18:21	111118L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	1.70	0.500	1		Oxygen + Argon	2.12	0.500	1	
Carbon Dioxide	18.1	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-2-3	11-11-1476-4-A	11/17/11 11:00	Air	GC 34	N/A	11/18/11 19:02	111118L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	1.88	0.500	1		Oxygen + Argon	2.21	0.500	1	
Carbon Dioxide	16.2	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-2-5	11-11-1476-5-A	11/17/11 11:25	Air	GC 34	N/A	11/18/11 19:35	111118L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	1.79	0.500	1		Oxygen + Argon	2.50	0.500	1	
Carbon Dioxide	17.1	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-2-7.5	11-11-1476-6-A	11/17/11 11:40	Air	GC 34	N/A	11/18/11 20:14	111118L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	1.85	0.500	1		Oxygen + Argon	2.18	0.500	1	
Carbon Dioxide	17.9	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-3-3	11-11-1476-7-A	11/17/11 12:20	Air	GC 34	N/A	11/18/11 20:51	111118L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	13.5	0.500	1	
Carbon Dioxide	7.30	0.500	1						

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	11/18/11
5900 Hollis Street, Suite A	Work Order No:	11-11-1476
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	ASTM D-1946
	Units:	%v

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-3-5	11-11-1476-8-A	11/17/11 12:30	Air	GC 34	N/A	11/18/11 22:01	111118L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	13.3	0.500	1	
Carbon Dioxide	7.40	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-5-5	11-11-1476-9-A	11/17/11 13:10	Air	GC 34	N/A	11/18/11 22:39	111118L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	1.44	0.500	1		Oxygen + Argon	1.88	0.500	1	
Carbon Dioxide	12.1	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-03-002-1,429	N/A	Air	GC 34	N/A	11/18/11 12:59	111118L01

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		Nitrogen	ND	0.500	1	
Carbon Monoxide	ND	0.500	1						

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received:	11/18/11
Work Order No:	11-11-1476
Preparation:	N/A
Method:	ASTM D-1946 (M)

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-1-3	11-11-1476-1-A	11/17/11 09:20	Air	GC 55	N/A	11/19/11 10:40	111119L01

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
SVG-1-5	11-11-1476-2-A	11/17/11 09:50	Air	GC 55	N/A	11/19/11 11:01	111119L01

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
SVG-1-7.5	11-11-1476-3-A	11/17/11 10:20	Air	GC 55	N/A	11/19/11 11:31	111119L01

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
SVG-2-3	11-11-1476-4-A	11/17/11 11:00	Air	GC 55	N/A	11/19/11 12:02	111119L01

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
SVG-2-5	11-11-1476-5-A	11/17/11 11:25	Air	GC 55	N/A	11/19/11 12:24	111119L01

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
SVG-2-7.5	11-11-1476-6-A	11/17/11 11:40	Air	GC 55	N/A	11/19/11 12:56	111119L01

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

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Conestoga-Rovers & Associates		Date Received:	11/18/11
5900 Hollis Street, Suite A		Work Order No:	11-11-1476
Emeryville, CA 94608-2008		Preparation:	N/A
		Method:	ASTM D-1946 (M)

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-3-3	11-11-1476-7-A	11/17/11 12:20	Air	GC 55	N/A	11/19/11 13:35	111119L01

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
SVG-3-5	11-11-1476-8-A	11/17/11 12:30	Air	GC 55	N/A	11/19/11 15:05	111119L01

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
SVG-5-5	11-11-1476-9-A	11/17/11 13:10	Air	GC 55	N/A	11/19/11 15:27	111119L01

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	099-12-872-185	N/A	Air	GC 55	N/A	11/19/11 10:14	111119L01

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

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 11/18/11
Work Order No: 11-11-1476
Preparation: N/A
Method: EPA TO-15M
Units: ug/m3

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-1-3	11-11-1476-1-A	11/17/11 09:20	Air	GC/MS AA	N/A	11/19/11 20:46	111119L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2500	160	100		Xylenes (total)	ND	870	100	
Toluene	ND	1900	100		Methyl-t-Butyl Ether (MTBE)	ND	720	100	
Ethylbenzene	670	220	100						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	161	57-129		1,2,7	1,2-Dichloroethane-d4	92	47-137		
Toluene-d8	61	78-156		1,2,6					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-1-5	11-11-1476-2-A	11/17/11 09:50	Air	GC/MS AA	N/A	11/19/11 21:34	111119L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2000	160	100		Xylenes (total)	ND	870	100	
Toluene	ND	1900	100		Methyl-t-Butyl Ether (MTBE)	ND	720	100	
Ethylbenzene	1200	220	100						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	166	57-129		1,2,7	1,2-Dichloroethane-d4	91	47-137		
Toluene-d8	59	78-156		1,2,6					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-1-7.5	11-11-1476-3-A	11/17/11 10:20	Air	GC/MS AA	N/A	11/19/11 22:25	111119L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1900	160	100		Xylenes (total)	ND	870	100	
Toluene	ND	1900	100		Methyl-t-Butyl Ether (MTBE)	ND	720	100	
Ethylbenzene	820	220	100						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	167	57-129		1,2,7	1,2-Dichloroethane-d4	92	47-137		
Toluene-d8	61	78-156		1,2,6					

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 11/18/11
Work Order No: 11-11-1476
Preparation: N/A
Method: EPA TO-15M
Units: ug/m3

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-2-3	11-11-1476-4-A	11/17/11 11:00	Air	GC/MS AA	N/A	11/18/11 23:19	111118L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	15000	800	500		Xylenes (total)	ND	4300	500	
Toluene	ND	9400	500		Methyl-t-Butyl Ether (MTBE)	ND	3600	500	
Ethylbenzene	33000	1100	500						
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	128	57-129			1,2-Dichloroethane-d4	96	47-137		
Toluene-d8	86	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-2-5	11-11-1476-5-A	11/17/11 11:25	Air	GC/MS AA	N/A	11/19/11 05:22	111118L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	11000	800	500		Xylenes (total)	22000	4300	500	
Toluene	ND	9400	500		Methyl-t-Butyl Ether (MTBE)	ND	3600	500	
Ethylbenzene	120000	1100	500						
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	128	57-129			1,2-Dichloroethane-d4	96	47-137		
Toluene-d8	81	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-2-7.5	11-11-1476-6-A	11/17/11 11:40	Air	GC/MS AA	N/A	11/19/11 19:09	111119L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	9600	800	500		Xylenes (total)	ND	4300	500	
Toluene	ND	9400	500		Methyl-t-Butyl Ether (MTBE)	ND	3600	500	
Ethylbenzene	88000	1100	500						
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	127	57-129			1,2-Dichloroethane-d4	94	47-137		
Toluene-d8	84	78-156							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 11/18/11
Work Order No: 11-11-1476
Preparation: N/A
Method: EPA TO-15M
Units: ug/m3

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-3-3	11-11-1476-7-A	11/17/11 12:20	Air	GC/MS AA	N/A	11/19/11 16:47	111119L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Xylenes (total)	45	8.7	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	30	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	101	57-129			1,2-Dichloroethane-d4	100	47-137		
Toluene-d8	96	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-3-5	11-11-1476-8-A	11/17/11 12:30	Air	GC/MS AA	N/A	11/19/11 17:34	111119L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Xylenes (total)	110	8.7	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	70	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	100	57-129			1,2-Dichloroethane-d4	97	47-137		
Toluene-d8	96	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-5-5	11-11-1476-9-A	11/17/11 13:10	Air	GC/MS AA	N/A	11/19/11 18:22	111119L01

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

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1900	320	200		Xylenes (total)	3100	1700	200	
Toluene	ND	3800	200		Methyl-t-Butyl Ether (MTBE)	ND	1400	200	
Ethylbenzene	2700	430	200						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	204	57-129		1,2,7	1,2-Dichloroethane-d4	97	47-137		
Toluene-d8	61	78-156		1,2,6					

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	11/18/11
5900 Hollis Street, Suite A	Work Order No:	11-11-1476
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	EPA TO-15M
	Units:	ug/m3

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-983-1,965**	**N/A**	**Air**	**GC/MS AA**	**N/A**	**11/18/11 12:13**	**111118L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Xylenes (total)	ND	8.7	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	ND	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	101	57-129			1,2-Dichloroethane-d4	100	47-137		
Toluene-d8	98	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-983-1,970**	**N/A**	**Air**	**GC/MS AA**	**N/A**	**11/19/11 15:59**	**111119L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Xylenes (total)	ND	8.7	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Ethylbenzene	ND	2.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	98	57-129			1,2-Dichloroethane-d4	102	47-137		
Toluene-d8	97	78-156							

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 11/18/11
Work Order No: 11-11-1476
Preparation: N/A
Method: EPA TO-3M

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-1-3	11-11-1476-1-A	11/17/11 09:20	Air	GC 13	N/A	11/18/11 16:41	111118L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	9000000	70000	10		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-1-5	11-11-1476-2-A	11/17/11 09:50	Air	GC 13	N/A	11/18/11 16:51	111118L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	10000000	70000	10		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-1-7.5	11-11-1476-3-A	11/17/11 10:20	Air	GC 13	N/A	11/18/11 17:04	111118L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	11000000	70000	10		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-2-3	11-11-1476-4-A	11/17/11 11:00	Air	GC 13	N/A	11/18/11 17:14	111118L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	11000000	70000	10		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-2-5	11-11-1476-5-A	11/17/11 11:25	Air	GC 13	N/A	11/18/11 17:27	111118L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	14000000	70000	10		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-2-7.5	11-11-1476-6-A	11/17/11 11:40	Air	GC 13	N/A	11/18/11 15:32	111118L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	13000000	70000	10		ug/m3

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 11/18/11
Work Order No: 11-11-1476
Preparation: N/A
Method: EPA TO-3M

Project: 15275 Washington Avenue, San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVG-3-3	11-11-1476-7-A	11/17/11 12:20	Air	GC 13	N/A	11/21/11 13:40	111121L01

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
SVG-3-5	11-11-1476-8-A	11/17/11 12:30	Air	GC 13	N/A	11/21/11 13:54	111121L01

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
SVG-5-5	11-11-1476-9-A	11/17/11 13:10	Air	GC 13	N/A	11/18/11 17:49	111118L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	17000000	70000	10		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	098-01-005-3,520	N/A	Air	GC 13	N/A	11/18/11 11:09	111118L01

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	098-01-005-3,524	N/A	Air	GC 13	N/A	11/21/11 11:40	111121L01

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

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Conestoga-Rovers & Associates	Date Received:	11/18/11
5900 Hollis Street, Suite A	Work Order No:	11-11-1476
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	EPA TO-3M

Project: 15275 Washington Avenue, San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
11-11-1475-2	Air	GC 13	N/A	11/18/11	111118D01

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	3422000	3121000	9	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Conestoga-Rovers & Associates	Date Received:	11/18/11
5900 Hollis Street, Suite A	Work Order No:	11-11-1476
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	EPA TO-3M

Project: 15275 Washington Avenue, San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
11-11-1607-1	Air	GC 13	N/A	11/21/11	111121D01

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	14210	14040	1	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 11-11-1476
Preparation: N/A
Method: ASTM D-1946

Project: 15275 Washington Avenue, San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-03-002-1,429	Air	GC 34	N/A	11/18/11	111118L01

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Methane	10.12	97	97	80-120	0	0-30	
Carbon Dioxide	10.07	99	99	80-120	0	0-30	
Carbon Monoxide	9.930	105	105	80-120	0	0-30	
Oxygen + Argon	3.500	99	101	80-120	2	0-30	
Nitrogen	10.02	100	103	80-120	2	0-30	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Conestoga-Rovers & Associates	Date Received:	N/A
5900 Hollis Street, Suite A	Work Order No:	11-11-1476
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	ASTM D-1946 (M)

Project: 15275 Washington Avenue, San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-872-185	Air	GC 55	N/A	11/19/11	111119L01

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Helium	1.000	107	107	80-120	0	0-30	
Hydrogen	1.000	106	105	80-120	0	0-30	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 11-11-1476
Preparation: N/A
Method: EPA TO-15M

Project: 15275 Washington Avenue, San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-983-1,965	Air	GC/MS AA	N/A	11/18/11	111118L01

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	79.87	95	96	60-156	1	0-40	
Toluene	94.21	94	95	56-146	2	0-43	
Ethylbenzene	108.6	91	93	52-154	2	0-38	
Xylenes (total)	325.7	93	95	42-156	2	0-41	
Methyl-t-Butyl Ether (MTBE)	90.13	100	104	50-150	4	0-25	
Tert-Butyl Alcohol (TBA)	151.6	110	111	60-140	1	0-35	
Diisopropyl Ether (DIPE)	104.5	80	82	60-140	3	0-35	
Ethyl-t-Butyl Ether (ETBE)	104.5	102	105	60-140	2	0-35	
Tert-Amyl-Methyl Ether (TAME)	104.5	95	99	60-140	4	0-35	
Ethanol	188.4	172	176	47-137	3	0-35	X

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 11-11-1476
Preparation: N/A
Method: EPA TO-15M

Project: 15275 Washington Avenue, San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-983-1,970	Air	GC/MS AA	N/A	11/19/11	111119L01

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	79.87	103	103	60-156	0	0-40	
Toluene	94.21	102	104	56-146	2	0-43	
Ethylbenzene	108.6	99	100	52-154	1	0-38	
Xylenes (total)	325.7	99	101	42-156	2	0-41	
Methyl-t-Butyl Ether (MTBE)	90.13	109	110	50-150	1	0-25	
Tert-Butyl Alcohol (TBA)	151.6	103	103	60-140	0	0-35	
Diisopropyl Ether (DIPE)	104.5	85	85	60-140	0	0-35	
Ethyl-t-Butyl Ether (ETBE)	104.5	107	109	60-140	2	0-35	
Tert-Amyl-Methyl Ether (TAME)	104.5	101	99	60-140	1	0-35	
Ethanol	188.4	172	174	47-137	1	0-35	X

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 11-11-1476

Qualifier	Definition
*	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.
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.

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Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [ ] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [x] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Peter Schaefer

PO. #

INCIDENT # (ENV SERVICES): 9 7 0 9 3 4 1 2

SAP #: 1 2 9 4 6 0

- [ ] CHECK IF NO INCIDENT # APPLIES

DATE: 11/10/2011

PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates	LOG CODE: CRAW	SITE ADDRESS: Street and City: 15275 Washington Avenue, San Leandro, CA	State: CA
ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608		EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville	PHONE NO.: 510-420-3343
PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer			
TELEPHONE: 510-420-3319	FAX: 510-420-9170	E-MAIL: pschaefer@craworld.com	

GLOBAL ID NO.: T0600101226

E-MAIL: shelledf@craworld.com

CONSULTANT PROJECT NO.: 240933-95-11.04

SAMPLER NAME(S) (Print): Belew Yifru

LAB USE ONLY: 11-11-1476

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

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

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

Please report results in µg/m3 for 8260. Needed detection limit of below 8 µg/m3 for benzene

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	Ice OTHER	NO. OF CONT.	Helium, Oxygen, Carbon Dioxide, & Methane Method ASTM D1946	TPHg (EPA TO-3)	BTEX & MTBE (EPA TO-15)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	SVG - 1 - 3	11/17/11	920	Vapor				X			X	X	X	
2	SVG - 1 - 5	11/17/11	950	Vapor				X			X	X	X	
3	SVG - 1 - 7.5	11/17/11	1020	Vapor				X			X	X	X	
4	SVG - 2 - 3	11/17/11	1100	Vapor				X			X	X	X	
5	SVG - 2 - 5	11/17/11	1125	Vapor				X			X	X	X	
6	SVG - 2 - 7.5	11/17/11	1140	Vapor				X			X	X	X	
7	SVG - 3 - 3	11/17/11	1220	Vapor				X			X	X	X	
8	SVG - 3 - 5	11/17/11	1230	Vapor				X			X	X	X	
9	SVG - 5 - 5	11/17/11	1310	Vapor				X			X	X	X	
	SVG			Vapor				X			X	X	X	

Relinquished by: (Signature) BELEW YIFRU	Received by: (Signature) CEL	Date: 11/17/11	Time: 1500
Relinquished by: (Signature) 11/17/11 1730	Received by: (Signature) CA	Date: 11/18/11	Time: 1030
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

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1476

GSO

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, ERI

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 517864718

NPS

ORC

D

GARDEN GROVE

D92843A

96184434

Print Date 11/17/11 16:33 PM

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 11-11-1476

SAMPLE RECEIPT FORM

Box 1 of 1

CLIENT: CRA DATE: 11/18/11

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:** NC

CUSTODY SEALS INTACT:

☑ Box ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A **Initial:** NC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** NC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☑ 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 analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☑	☐	☐

CONTAINER TYPE:

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

Water: ☐VOA ☐VOAh ☐VOA**na$_2$** ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

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

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

Preservative: h: HCL n: HNO_3 **na$_2$**:$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** _____

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