



**CONESTOGA-ROVERS
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TRANSMITTAL

DATE: October 27, 2010 REFERENCE NO.: 240781
PROJECT NAME: 2703 Martin Luther King Jr. Way, Oakland

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

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Environmental Health

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QUANTITY	DESCRIPTION
1	Soil Vapor Probe Installation and Soil Vapor Sampling Report

As Requested For Review and Comment
 For Your Use

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

Copy to: Denis Brown, Shell Oil Products US (electronic copy)
Rodney & Janet Kwan, Auto Tech West, 2703 Martin Luther King Jr. Way, Oakland, CA 94612
Scott Merillat, 664 27th Street, Oakland, CA 94612
Monique Oatis, 670 27th Street, Oakland, CA 94612
Jack Chang, 559 9th Avenue, San Francisco, CA 94118-3716

Completed by: Peter Schaefer Signed:

Filing: Correspondence File



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

Denis L. Brown
Shell Oil Products US

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

Re: Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California
SAP Code 129449
Incident No. 97093397
ACEH Case No. RO0000145

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,

A handwritten signature in black ink, appearing to read "Denis L. Brown", is written over a horizontal line.

Denis L. Brown
Senior Program Manager



SOIL VAPOR PROBE INSTALLATION AND SOIL VAPOR SAMPLING REPORT

**FORMER SHELL SERVICE STATION
2703 MARTIN LUTHER KING JR. WAY
OAKLAND, CALIFORNIA**

**SAP CODE 129449
INCIDENT NO. 97093397
AGENCY NO. RO0000145**

**OCTOBER 27, 2010
REF. NO. 240781 (13)**

This report is printed on recycled paper.

**Prepared by:
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EXECUTIVE SUMMARY

- One soil vapor probe (VP-10) was installed.
- The soil vapor sample from VP-10 contained 35 $\mu\text{g}/\text{m}^3$ toluene. No other constituents of concern were detected. The toluene detection is below the ESL.
- Based on this soil vapor result and historical soil vapor data, CRA recommends no further soil vapor investigation.

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document the recent soil vapor probe installation and sampling. The purpose of the investigation was to assess the potential for benzene detected in groundwater in a shallow grab groundwater sample from boring CPT-10 to migrate to soil vapor and affect indoor air. CRA followed the scope of work and procedures presented in our November 13, 2007 *Monitoring Well and Vapor Point Installation Work Plan*, which was approved in Alameda County Environmental Health's December 5, 2007 letter.

The subject site is a former service station located on the northwest corner of Martin Luther King Jr. Way and 27th Street in a mixed commercial and residential area of Oakland, California (Figure 1). Currently, the site is occupied by Auto Tech West and is used as an automotive repair shop (Figure 2).

A summary of previous work performed at the site and additional background information is contained in Appendix A.

2.0 SOIL VAPOR PROBE INSTALLATION AND SAMPLING

2.1 PERMIT

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

2.2 FIELD DATES

August 9, 2010 (soil vapor probe installation) and September 1, 2010 (soil vapor probe sampling).

2.3 DRILING COMPANY

PeneCore Drilling.

2.4 PERSONNEL PRESENT

Geologist David Grunat directed the probe installation working under the supervision of California Professional Geologist Peter Schaefer.

2.5 DRILLING METHOD

Air-knife.

2.6 NUMBER OF PROBES

CRA installed one soil vapor probe (VP-10). The probe specifications and soil types encountered are described on the boring log contained in Appendix C. The probe location is shown on Figure 2.

2.7 VAPOR PROBE MATERIALS

CRA constructed the vapor probe using ¼-inch diameter Teflon® tubing attached to a 1-inch length plastic screen interval, and #2/12 Monterey sand filter pack. A probe diagram is provided with the boring log in Appendix C.

2.8 SCREENED INTERVAL

4.8 to 4.9 feet below grade.

2.9 SOIL VAPOR SAMPLING PROCEDURE

Prior to sampling, CRA purged at least three tubing volumes of air from the vapor probe using a vacuum pump. Immediately after purging, CRA collected a soil vapor sample using a laboratory-supplied Tedlar® bag. During sampling, CRA connected the Teflon® tubing for the 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. The sample was labeled, documented on a chain-of-custody, and submitted to Calscience Environmental Laboratories, Inc. of Garden Grove, California for analysis within 72 hours.

To check the system for leaks, 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 reading is presented in Section 3.2. The sample was analyzed by the laboratory for helium, and CRA presents the results in Section 3.2 and on Table 1.

2.10 SOIL VAPOR SAMPLING ANALYSES

The soil vapor sample was analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method TO-3M; benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260B (M); oxygen and argon, carbon dioxide, and methane by ASTM D-1946; and for helium by ASTM D-1946 (M).

2.11 WASTE DISPOSAL

Soil and sludge generated during field activities were stored on site in 55-gallon drums, sampled, and profiled for disposal. On August 27, 2010, the sludge was transported to Crosby & Overton's facility in Long Beach, California, and the soil was transported to Keller Canyon Landfill in Pittsburg, California for disposal. The laboratory analytical report is presented in Appendix D, and the waste disposal manifests are provided in Appendix E.

3.0 FINDINGS

3.1 SOIL VAPOR

The soil vapor chemical analytical data are summarized in Table 1, and TPHg and BTEX analytical results are presented on Figure 2. The laboratory analytical report is presented in Appendix D.

3.2 LEAK TESTING

CRA performed leak testing as described above, and helium was not detected in the sample. The reporting limit for helium (0.0100 percent by volume [%v]) is less than

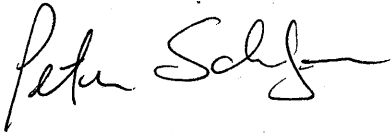
10 percent of the concentration of 65%v detected in the shroud, and the sample is considered valid. The laboratory analytical report for helium is presented in Appendix D, and CRA includes the results on Table 1.

4.0 CONCLUSIONS AND RECOMMENDATIONS

One soil vapor probe (VP-10) was installed. The soil vapor sample from VP-10 contained 35 micrograms per cubic meter toluene. No other constituents of concern were detected. The toluene detection is below the San Francisco Bay Regional Water Quality Control Board's environmental screening level for shallow soil gas¹. This data demonstrates that the benzene detected in a shallow grab groundwater sample from boring CPT-10 does not pose a risk for migration to indoor air. Based on this soil vapor result and historical soil vapor data, CRA recommends no further soil vapor investigation.

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

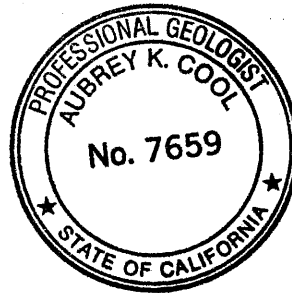
All of which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES



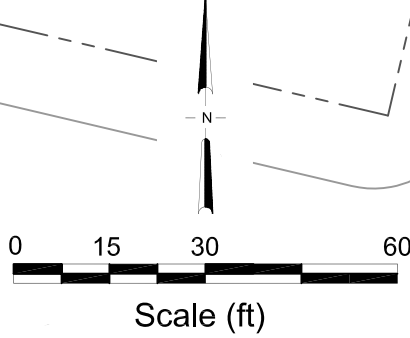
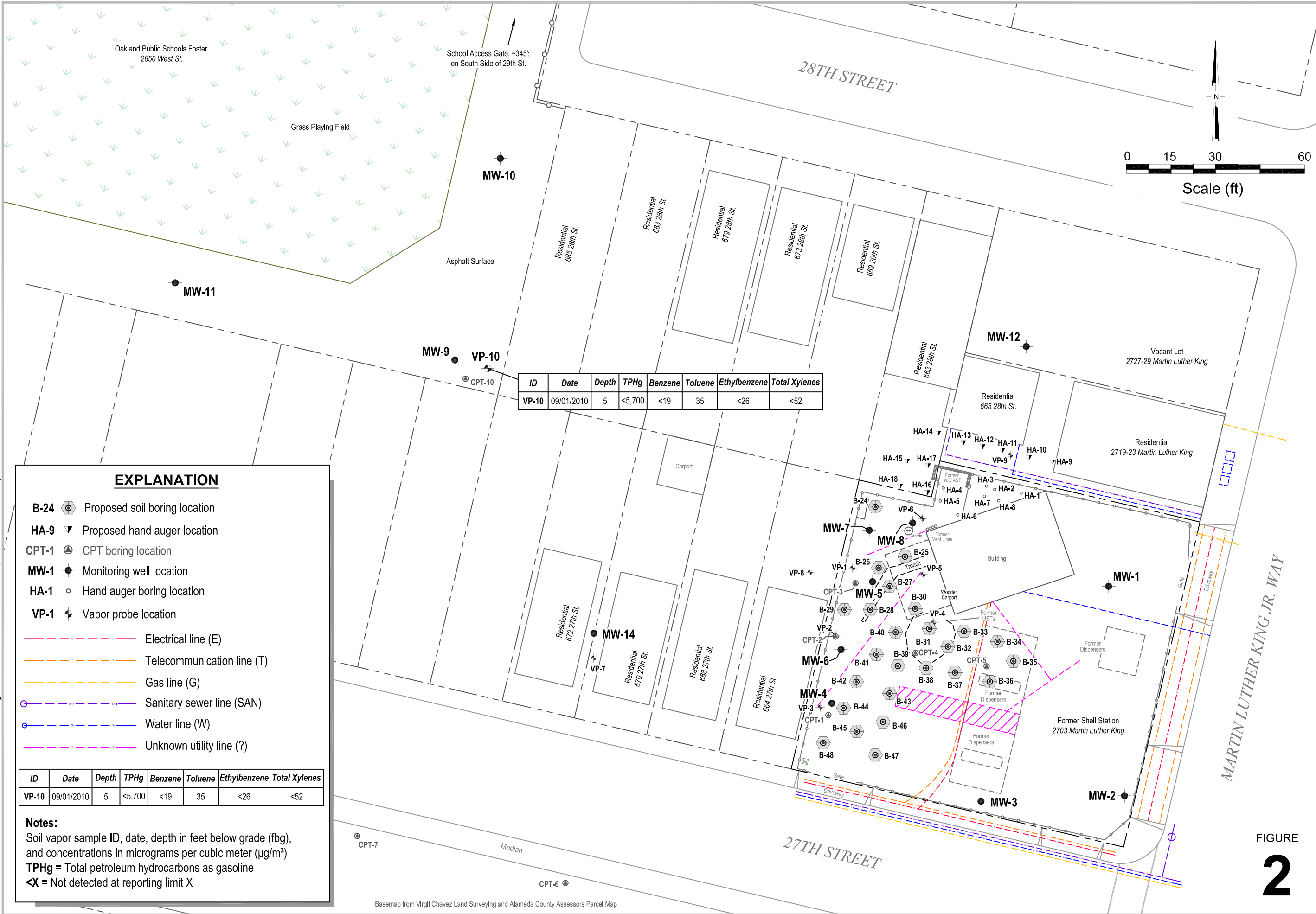
Peter Schaefer, CEG, CHG



Aubrey K. Cool, PG



FIGURES



EXPLANATION

- B-24** Proposed soil boring location
- HA-9** Proposed hand auger location
- CPT-1** CPT boring location
- MW-1** Monitoring well location
- HA-1** Hand auger boring location
- VP-1** Vapor probe location
- Electrical line (E)
- Telecommunication line (T)
- Gas line (G)
- Sanitary sewer line (SAN)
- Water line (W)
- Unknown utility line (?)

ID	Date	Depth	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes
VP-10	09/01/2010	5	<5,700	<19	35	<26	<52

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



Former Shell Service Station
 2703 Martin Luther King Jr. Way
 Oakland, California

FIGURE
2

I:\Shell\6-chars\2407--\240781-Oakland 2703 Martin Luther King\240781-FIGURES\240781-SITE PLAN (SOIL VAPOR 2010-9_30).DWG

Basemap from Virgil Chavez Land Surveying and Alameda County Assessors Parcel Map

TABLE

TABLE 1

**HISTORICAL SOIL VAPOR ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>TPHg</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl- benzene</i>	<i>Total Xylenes</i>	<i>Isobutane</i>	<i>Butane</i>	<i>Propane</i>	<i>Methane (%v)</i>	<i>Carbon Dioxide (%v)</i>	<i>Oxygen & Argon (%v)</i>	<i>Helium (%v)</i>
VP-1-3	5/30/2007	3	5,500,000	<510	690	<690	<2,090	---	---	---	---	---	---	---
VP-1-5	5/30/2007	5			Unable to sample; water in probe									
VP-2-3	5/30/2007	3			Unable to sample; water in probe									
VP-2-5	5/30/2007	5			Unable to sample; water in probe									
VP-3-3	5/30/2007	3			Unable to sample; water in probe									
VP-3-5	5/30/2007	5	31,000,000	760	<75	<86	<256	---	---	---	---	---	---	---
VP-4-3	5/30/2007	3	800,000	<79	240	<110	<320	---	---	---	---	---	---	---
VP-4-5	5/30/2007	5	680,000	<66	170	<90	<270	---	---	---	---	---	---	---
VP-5-3	5/30/2007	3			Unable to sample; water in probe									
VP-5-5	5/30/2007	5			Unable to sample; water in probe									
VP-6-3	5/30/2007	3	3,500,000	110	320	<55	160	---	---	---	---	---	---	---
VP-6-3	4/17/2008	3	<17,000	<2.3	<2.8	<3.2	<9.6	ND	ND	ND	---	---	---	---
VP-6-3	3/31/2009	3			Unable to sample; water in probe									
VP-6-3'	11/19/2009	3	---	<1.6	<19	<2.2	<8.7	---	---	---	---	---	---	<0.0100
VP-6-5	5/30/2007	5	1,900,000	<100	410	<140	<420	---	---	---	---	---	---	---
VP-6-5	4/17/2008	5	14,000,000	3.6	<2.6	<3.0	<9.0	66.8	ND	ND	---	---	---	---
Ambient (near VP-6)	5/30/2007		<19,000	16	16	<3.1	<9.2	---	---	---	---	---	---	---
VP-6-5	3/31/2009	5			Unable to sample; water in probe									

TABLE 1

**HISTORICAL SOIL VAPOR ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CALIFORNIA**

Sample ID	Date	Depth (fbg)	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Isobutane	Butane	Propane	Methane (%v)	Carbon Dioxide (%v)	Oxygen & Argon (%v)	Helium (%v)
VP-6-5'	11/19/2009	5	--	<1.6	<19	<2.2	<8.7	--	--	--	--	--	--	<0.0100
VP-7-3	6/12/2007	3	<21,000	23	7,000	110	241	--	--	--	--	--	--	--
VP-7-3	10/30/2007	3	<19,000	<2.7	9.6	<3.6	<17.6	657.3	16.6	ND	--	--	--	--
VP-7-3	1/18/2008	3	23,000	4.3	23	3.4	13.8	ND	ND	ND	--	--	--	--
VP-7-3	4/17/2008	3	<16,000	<2.2	6.1	<3.0	<9.1	648.95	ND	ND	--	--	--	--
VP-7-3-DUP	4/17/2008	3	<16,000	<2.2	7.1	<3.0	<9.0	144.53	ND	ND	--	--	--	--
VP-7-3	7/24/2008	3	<19,000	<2.7	51	<3.6	<10.8	601.17	10.93	ND	--	--	--	--
Ambient (near VP-7)	7/24/2008		<16,000	<2.3	<2.7	<3.1	<9.2	ND	ND	ND	--	--	--	--
VP-7-3	3/31/2009	3						Unable to sample; water in probe						
VP-7-3'	11/19/2009	3	--	2.8	31	3.8	18	--	--	--	--	--	--	0.0100
VP-7-5	6/12/2007	5	<21,000	23	2,100	110	230	--	--	--	--	--	--	--
VP-7-5	10/30/2007	5	<18,000	<2.5	15	<3.4	<16.4	402.4	ND	ND	--	--	--	--
VP-7-5	1/18/2008	5	<20,000	<2.8	7.9	<3.8	<11.3	105.5	ND	ND	--	--	--	--
VP-7-5-DUP	1/18/2008	5	<19,000	<2.6	7.6	<3.6	<10.8	66.6	ND	ND	--	--	--	--
VP-7-5	4/17/2008	5	<15,000	<2.2	7.8	<2.9	<8.8	220.83	25.2	ND	--	--	--	--
VP-7-5	7/24/2008	5						Unable to sample; water in probe						
VP-7-5	3/31/2009	5						Unable to sample; water in probe						
VP-7-5'	11/19/2009	5	--	<1.6	<19	<2.2	<8.7	--	--	--	--	--	--	<0.0100
VP-8-3	6/12/2007	3	<23,000	20	9,300	120	267	--	--	--	--	--	--	--
VP-8-3	10/30/2007	3	<24,000	<3.4	34	<4.6	<22.6	395.1	7.8	ND	--	--	--	--
VP-8-3-DUP	10/30/2007	3	<18,000	<2.6	6.5	<3.5	<17.5	366.6	ND	ND	--	--	--	--
VP-8-3	1/18/2008	3	<18,000	<2.6	7.2	<3.5	<10.4	128.6	ND	ND	--	--	--	--
VP-8-3	4/17/2008	3	<16,000	<2.3	7.1	<3.1	<9.3	666.54	57.29	ND	--	--	--	--
VP-8-3	7/24/2008	3	<18,000	<2.5	290	14	38	ND	ND	ND	--	--	--	--
VP-8-3-DUP	7/24/2008	3	<19,000	<2.6	210	11	28.9	6.42	ND	ND	--	--	--	--
VP-8-3'	3/31/2009	3	<9,100	<2.5	5.2	<3.5	<14	<19	<19	<43	--	--	--	--
VP-8-3' DUP	3/31/2009	3	<8,100	<2.3	<2.7	<3.1	<12	<17	<17	<38	--	--	--	--

TABLE 1

**HISTORICAL SOIL VAPOR ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CALIFORNIA**

Sample ID	Date	Depth (fbg)	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Isobutane	Butane	Propane	Methane (%v)	Carbon Dioxide (%v)	Oxygen & Argon (%v)	Helium (%v)
Ambient (near VP-8)	3/31/2009		<13,000	<3.7	17	<5.0	<20	<27	<27	<62	---	---	---	---
VP-8-3'	11/19/2009	3	---	<1.6	<19	<2.2	<8.7	---	---	---	---	---	---	<0.0100
VP-8-5	6/12/2007	5	<22,000	33	11,000	120	278	---	---	---	---	---	---	---
VP-8-5	10/30/2007	5	<19,000	<2.6	8.5	<3.6	<17.6	468.3	5.9	ND	---	---	---	---
VP-8-5	1/18/2008	5	<19,000	<2.6	5.7	<3.5	<10.5	ND	ND	ND	---	---	---	---
VP-8-5	4/17/2008	5	<17,000	11	<1.9	<3.2	<9.6	59.43	9.98	ND	---	---	---	---
VP-8-5	7/24/2008	5	<17,000	<2.4	630	29	76	10.22	7.84	ND	---	---	---	---
VP-8-5	3/31/2009	5	Unable to sample; water in probe											
VP-8-5'	11/19/2009	5	---	<1.6	<19	<2.2	<8.7	---	---	---	---	---	---	<0.0100
VP-9-5	8/8/2008	5	280	<3.9	17	<5.2	<10.4	ND	ND	ND	---	---	---	---
Ambient (near VP-9)	8/8/2008		280	<3.2	<3.8	<4.4	<8.8	ND	ND	ND	---	---	---	---
VP-9-5	12/31/2008	5	Unable to sample; water in probe											
VP-9-5	3/31/2009	5	Unable to sample; water in probe											
VP-9-5'	11/19/2009	5	---	<1.6	<19	<2.2	<8.7	---	---	---	---	---	---	<0.0100
VP-10	9/1/2010	5	<5,700	<19 ^a	35 ^a	<26 ^a	<52 ^a	---	---	---	<0.500	5.02	8.96	<0.0100
ESLs ^b	Commercial		29,000	280	180,000	3,300	58,000	NA	NA	NA	NA	NA	NA	NA
	Residential		10,000	84	63,000	980	21,000	NA	NA	NA	NA	NA	NA	NA

Notes:

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

fbg = Feet below grade

TPHg = Total petroleum hydrocarbons as gasoline; analyzed by Modified EPA Method TO-3M GC/FID

Benzene, toluene, ethylbenzene, and xylenes by Modified EPA Method TO-15, unless otherwise noted

Isobutane, butane, and propane by EPA Method TO-15

Methane, carbon dioxide, and oxygen and argon analyzed by ASTM Method D-1946

TABLE 1

HISTORICAL SOIL VAPOR ANALYTICAL DATA
 FORMER SHELL SERVICE STATION
 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (fbg)	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Isobutane	Butane	Propane	Methane (%v)	Carbon Dioxide (%v)	Oxygen & Argon (%v)	Helium (%v)
-----------	------	-------------	------	---------	---------	---------------	---------------	-----------	--------	---------	--------------	---------------------	---------------------	-------------

Helium analyzed by ASTM Method D-1946 (M)
 %v = Percent by volume
 <x = Not detected at reporting limit x
 ND = Not detected
 --- = Not analyzed
 ESL = Environmental screening level
 NA = No applicable ESL
 Results in **bold** exceed commercial environmental screening level

a = Analyzed by EPA 8260B (M)
 b = San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) shallow soil gas screening level for evaluation of potential vapor intrusion concerns from *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, SFBRWQCB, Interim Final - November 2007 (Revised May 2008).

APPENDIX A

SITE HISTORY

SITE HISTORY

1979 Underground Storage Tank (UST) Removal: Prior to vacating the property in 1979, Shell Oil Products US (Shell) reportedly removed three fuel USTs and a waste oil storage tank.

1994 UST Removal: On October 11, 1994, KTW & Associates removed a 2,000-gallon UST on behalf of Auto Tech West (ATW). Two soil samples (TP-1-N and TP-2-S) collected from beneath the tank contained up to 18,000 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg) and 100 mg/kg benzene.

1995 Phase I Environmental Site Assessment (ESA): In August and September 1995, Enviros Inc. (Enviros) performed a Phase I ESA for this site. The Phase I ESA indicated that the site was occupied by housing prior to approximately 1959.

During a site survey conducted in conjunction with the Phase I ESA, an excavation was observed near the southwest corner of the service building. The excavation's location was consistent with the location of 2,000-gallon UST removed in 1994 by ATW, with a large concrete slab observed in aerial photographs taken in 1971 and 1973, and with a smaller concrete slab observed in aerial photographs taken in 1981 and 1985. The concrete slabs observed in the aerial photographs were likely covering the USTs operated by Shell from 1959 to 1979, and after 1979 by Acme Ambulance Company (Acme).

1995 Phase II ESA: On May 23, 1995, ACC Environmental Consultants (ACC) drilled nine soil borings (B-1 through B-9) using a pneumatic sampling tool in the vicinity of the UST excavation and the product dispenser islands. Soil samples contained up to 830 mg/kg TPHg and 1.8 mg/kg benzene. Separate phase hydrocarbons (SPHs) were identified in water samples collected from four of the soil borings (B-1, B-5, B-6, and B-9). Grab groundwater samples collected from borings without SPH contained up to 89,000 micrograms per liter ($\mu\text{g/l}$) TPHg and 21,000 $\mu\text{g/l}$ benzene. Results of the investigation are presented in ACC's June 1995 *Phase II- Environmental Site Investigation* report.

1996 Over-Excavation: On March 19, 1996, Acme's former UST excavation was over-excavated and backfilled. The excavation, originally left open to 9 feet below grade (fbg), was over-excavated to approximately 11 fbg. Two soil samples (TP-3-W and TP-4-E) were collected after over-excavation was completed. The soil samples contained up to 2,700 mg/kg TPHg and 3.1 mg/kg benzene. Soil sampling and backfilling are documented in Enviros' May 10, 1996 correspondence.

1996 Subsurface Investigation: On July 17 and 19, 1996, Enviros drilled six exploratory borings (B-10, B-11, B-12, B-13, V-1, and V-2). Borings B-11 and B-12 were completed as groundwater monitoring wells MW-1 and MW-2, and borings V-1 and V-2 were completed as soil vapor extraction wells V-1 and V-2. TPHg and benzene were not detected in soil samples collected from MW-1, MW-2, and B-13. Soil samples collected from B-10 and V-2 contained up to 110 mg/kg TPHg and 0.29 mg/kg benzene. Grab groundwater samples collected from borings B-10, MW-2, and B-13 contained up to 290,000 µg/l TPHg and 34,000 µg/l benzene. The investigation results are presented in Enviros' October 30, 1996 *Soil Boring and Well Installation Report*.

1997 Modified Phase I ESA: In February 1997, Enviros performed a modified Phase I ESA for the subject facility. A review of aerial photographs (1952 to 1994), city directories (1967 to 1993) and Sanborn maps (1912 to 1970) did not reveal evidence of an off-site source of petroleum hydrocarbons, which would have impacted groundwater on site. The properties located north and west of the subject facility appear to have been occupied by residential houses from at least 1912 to the present. The nearest gasoline stations identified in the vicinity of the subject facility were a former Chevron station (740 27th Street at West Street) approximately 450 feet to the west, a former station (26th Street and Martin Luther King Jr. Way) approximately 300 feet to the south, and a former Mobil station (554 27th Street) approximately 950 feet to the east.

2000 Sensitive Receptor Survey (SRS): In 2000, Cambria Environmental Technology, Inc. (Cambria) performed a SRS to identify wells and underground utility conduits. Cambria identified the local sanitary and storm sewer systems as the only utility conduits which may act as preferential pathways for groundwater and soil vapor migration. Conduits identified in the area are located at depths of approximately 3.5 to 9 fbg. Therefore, the potential does exist for groundwater to flow within these conduit trenches since groundwater depth on site historically ranges from approximately 4.5 to 10 fbg. However, since the typical groundwater flow direction on site has generally been to the south, it is likely that any contaminant migration within the utility conduits would be limited, since the utility conduits located to the south of the site are the shallowest of all the conduits identified adjacent to the site at depths of 3.5 to 5.5 fbg.

Cambria also obtained well installation and destruction records from the California Department of Water Resources (DWR) in order to identify any active water-producing wells in the vicinity of the site, which may be at risk to petroleum hydrocarbon impact due to contaminant migration from the subsurface of the site. DWR records did not identify any existing wells within a ½-mile radius of the site. The SRS results are presented in Cambria's May 16, 2001 *Subsurface Investigation Report*.

2000 Subsurface Investigation: On November 21 and 22, 2000, Cambria drilled three soil borings (B-17, B-18, and B-19) and installed three groundwater monitoring wells (MW-3, MW-4, and MW-5). Soil samples contained up to 2,100 mg/kg TPHg and 3.3 mg/kg benzene. Methyl tertiary-butyl ether (MTBE) was detected in one soil sample at a concentration of 0.0070 mg/kg. Tertiary-butyl alcohol (TBA) was detected in two soil samples at concentrations up to 0.0079 mg/kg. No SPHs were observed during the investigation. Grab groundwater samples were collected from borings B-17 through B-19 contained up to 190,000 µg/l TPHg, 13,000 µg/l benzene, and 300 µg/l MTBE. TBA was detected at a concentration of 240 µg/l in B-19. Results from this investigation are presented in Cambria's May 16, 2001 *Subsurface Investigation Report*.

2001 Oxygen Releasing Compound (ORC) Installation: On May 2, 2001, Blaine Tech Services, Inc. (Blaine) installed ORC socks in wells V-1 and V-2. The ORC socks were removed during the fourth quarter 2001 monitoring event. Details of the ORC installation activities are presented in Cambria's quarterly groundwater monitoring reports for the second through the fourth quarter of 2001.

2002 Subsurface Investigation: In April 2002, Cambria drilled borings B-20 through B-22. MTBE was not detected in any of the soil or grab groundwater samples. Soil samples contained up to 380 mg/kg TPHg and 0.17 mg/kg benzene. Grab groundwater samples contained up to 160,000 µg/l TPHg and 18,000 µg/l benzene. Results of the investigation are presented in Cambria's June 21, 2002 *Site Investigation Report*.

2003 - 2005 ORC Installation: Blaine installed ORC socks in wells MW-5 and V-2 during first quarter of 2003. The ORCs were replaced on a semiannual basis. The use of ORC was discontinued during the first quarter 2005. Details of the ORC installation activities are presented in Cambria's quarterly groundwater monitoring reports for the first quarter 2003 through the first quarter of 2005.

2005 Soil Vapor Investigation: On August 28 through 31, 2005, Cambria drilled ten soil borings (GP-1 through GP-10). Soil samples contained up to 3,300 mg/kg TPHg and 15 mg/kg benzene. Grab groundwater samples contained up to 140,000 µg/l TPHg and 17,000 µg/l benzene. Soil vapor samples contained up to 71,000,000 micrograms per cubic meter (µg/m³) TPHg and 170,000 µg/m³ benzene. Details of these activities are included in Cambria's November 15, 2005 *Site Investigation Report*.

2005 Door to Door Survey: Cambria conducted a door to door survey within 300 feet of the subject site for wells, basements, and foundation type to identify building construction and potential vapor receptors. Questionnaires were sent to 110 properties and responses for 25 properties were received as of January 13, 2006. Of the 25 responses received, none of the properties had basements. Three properties were denoted as vacant; nine properties contained buildings constructed with slab-on-grade

foundations; three contained buildings constructed with perimeter foundations. Tabulated data and a list of properties included in the survey were included in Cambria's January 15, 2006 *Door to Door Survey Report, Access Agreement Update, and Status/Schedule Update*.

2006 Subsurface Investigation: On January 3 and 4, 2006, Cambria installed three monitoring wells (MW-6 through MW-8), drilled one soil boring (B-23), and installed six soil vapor probes (VP-1 through VP-6). Soil samples contained up to 3,800 mg/kg TPHg and 33 mg/kg benzene. Investigation results were presented in Cambria's April 14, 2006 *Site Investigation Report, and First Quarter 2006 - Groundwater Monitoring Report*.

2006 Dual-Phase Extraction (DPE) Pilot Test: Between January 16 and January 20, 2006, Cambria conducted a 5-day DPE pilot test on wells V-1, V-2, MW-6, MW-7, MW-4, MW-5, and MW-8 and a constant vacuum DPE test on well MW-6. The report concluded 1) the absence of vapor phase concentrations (and groundwater concentrations) from well V-1 indicates that the former UST excavation does not contain residual source material; 2) high sustained and increasing vapor concentrations suggest source material is present in the vicinity of wells V-2, MW-5, and MW-8; 3) variability in extraction flow rates across the site may reflect heterogeneities in subsurface soils or may suggest preferential pathways; and 4) the extremely high effective radius of influence calculated for wells MW-5 and MW-8 during DPE testing on well MW-7 supports the presence of a preferential pathway in the vicinity of these wells. The data from the DPE pilot test suggests that DPE is feasible at this site. The groundwater table was effectively drawn down by DPE and moderate vapor extraction flow rates were yielded from some of the extraction points. Although DPE is deemed feasible, Cambria did not recommend implementing DPE at this site. The extraction points that yielded the highest vapor concentrations did not yield an effective vapor extraction flow rate. Conversely, low vapor concentrations were yielded from the extraction point that did yield an effective vapor extraction flow rate. Therefore, DPE is not considered feasible in the target areas at this site. The pilot test details and results are presented in Cambria's March 14, 2006 *Pilot Test Report*.

2006 Subsurface Investigation: On February 28, 2006, Cambria installed two monitoring wells (MW-12 and MW-14) on off-site properties. TPHg, benzene, toluene, ethylbenzene, and xylenes (BTEX) were not detected in soil samples from well boring MW-12. Soil samples from MW-14 contained up to 970 mg/kg TPHg and 2.3 mg/kg benzene. These activities are documented in Cambria's May 25, 2006 *Subsurface Investigation Report*.

2006 Site Visit: During the site visit on April 19, 2006, Cambria identified two bathrooms inside the former station building. A floor drain was observed in the northern-most bathroom. Standing liquid was present in the floor drain and automotive parts and cleaners were stored in this area. A water sample from the floor drain contained carbon disulfide (3.69 µg/l), ethylbenzene (0.610 µg/l), and toluene (0.770 µg/l). This information is reported in Cambria's May 25, 2006 *Subsurface Investigation Report*.

2006 Geophysical Survey: On May 22, 2006, Norcal Geophysical Consultants, Inc. (Norcal) conducted a geophysical survey to determine if waste oil UST was present in the northwest portion of the property and to evaluate the presence of subsurface utilities in this area that could act as preferential pathways, including the mapping of the sewer line from the floor drain found inside the northwest corner of the building during the April 19, 2006 site inspection. Norcal did not locate a UST in the northwest corner of the site, but did find a vent line located behind the northeast corner of the station building. A subsurface electric line was traced from the station building to the western property boundary, and an unidentified subsurface utility was traced from the northwest corner of the station building to the southwest, near MW-5 and toward MW-6. The presence of the unknown utility line in the northwest corner confirms the observations of a possible preferential pathway in this area based on the DPE pilot test performed in January 2006. Based on a ground-penetrating radar (GPR) survey that was performed to try to locate a non-metallic sewer line, Norcal concluded that the sewer line from the bathroom could be more than 4 fbg since the GPR was unable to identify the line. This information is presented in Cambria's July 25, 2006 *Status Update, Report of Geophysical Survey, and Request for Agency Meeting*.

2006 Subsurface Investigation and Vapor Probe Installation: On October 16 through 18 and 20, 2006, Cambria drilled cone-penetrometer test (CPT) borings CPT-1 through CPT-5 and installed soil vapor probes VP-1 through VP-6. Due to a lack of adequate groundwater recharge, many of the grab groundwater sampling attempts between 15 and 29 fbg failed. Grab groundwater sample results from between 31-37 fbg confirmed that significant attenuation of contaminants of at least one order of magnitude from the interval monitored by the site wells (5-20 fbg), and therefore no further vertical delineation was warranted. Comparison of data from 1995, 2000, and 2006 in similar locations (B-6, B-9, B-19, and CPT-5) demonstrated attenuation of contaminant concentrations over time was occurring. A site inspection at the neighboring property was performed and revealed that due to significant ventilation and air exchange with outdoor ambient air, vapor sampling within the aboveground basement was no longer warranted. These activities are documented in Cambria's January 31, 2007 *CPT Investigation and Vapor Probe Installation Report*.

2007 Subsurface Investigation and Vapor Probe Installation: In May and June 2007, Conestoga-Rovers & Associates (CRA) drilled two CPT borings (CPT-6 and CPT-7) within 27th Street southwest of the site, one CPT boring (CPT-10) on the Marcus-Foster school property northwest of the site, and installed two soil vapor probes (VP-7 and VP-8) on private properties west-northwest of the site. Soil vapor samples collected from off-site vapor probe pairs VP-7 and VP-8, located on residential property, indicated that the soil gas concentrations immediately adjacent to the subject site and three parcels down gradient do not exceed the residential ESLs. Results of the investigation are presented in CRA's August 27, 2007 *Plume Delineation and Soil Vapor Sampling Report*.

2008 Site Conceptual Model (SCM) and Feasibility Study/Corrective Action Plan (FS/CAP): CRA submitted a February 2, 2008 SCM and FS/CAP for the site. Excavation of source material followed by installation of a bio-spargate curtain to assist biodegradation was the recommended remedial action for the site. CRA's May 28, 2008 *Remedial Action Plan* details plans for conducting the excavation and installing the bio-spargate system.

2009 Subsurface Investigation: In April 2009, CRA drilled eight hand auger borings (HA-1 through HA-8) behind the former station building to assess the extent hydrocarbon and lead concentrations in the vicinity of a former waste oil aboveground storage tank located behind the former station building. Up to 1,060 mg/kg lead, 4,500 mg/kg total petroleum hydrocarbons as diesel, and 11,000 mg/kg total petroleum hydrocarbons as motor oil were detected in soil samples from the hand auger borings. Maximum concentrations were all detected in samples from less than 2 fbg. Results of the investigation are presented in CRA's May 12, 2009 *Subsurface Investigation Report*.

2010 Door to Door Survey Addendum: CRA conducted a door to door survey of four properties near the site, which did not respond to the previous door to door surveys for wells, basements, or sumps. Questionnaires were sent to the four properties, and CRA received responses for three of the properties. Of the three responses received, two of the properties had basements. None reported wells or sumps. CRA's September 22, 2010 *Door to Door Survey Report Addendum* provides details of the survey responses.

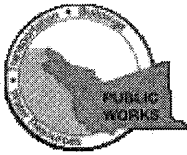
Groundwater Monitoring: Groundwater monitoring has been conducted since August 1996. Fuel oxygenates are not a significant component of the groundwater plume, although di-isopropyl ether and TBA have been detected sporadically. Generally, groundwater flow direction is to the west, with some components to the northwest and southwest. Historically, monitoring wells MW-1, MW-2, MW-3, and MW-12 have shown little or no impact from petroleum hydrocarbons.

Vapor Monitoring: Vapor monitoring was conducted between May 2007 and November 2009. BTEX concentrations in off-site soil vapor samples were consistently below residential screening levels.

APPENDIX B

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: 07/20/2010 By jamesy

**Permit Numbers: W2010-0548 to W2010-0551
Permits Valid from 08/06/2010 to 08/12/2010**

Application Id: 1279564665306
Site Location: 2850 West St, Oakland, CA 94608
Project Start Date: 08/06/2010
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

City of Project Site:Oakland
Completion Date:08/12/2010

Applicant: Conestoga-Rovers And Associates - David
Grunat
5900 Hollis St, Ste A, Emeryville, CA 94808

Phone: 510-420-0700

Property Owner: Oakland Unified School District
2850 West St, Oakland, CA 94608

Phone: 510-879-8223

Client: Shell Oil Products US
20945 S Wilmington, Carlson, CA 90815

Phone: --

	Total Due:	\$1456.00
Receipt Number: WR2010-0258	Total Amount Paid:	\$1456.00
Payer Name : Conestoga Rovers and Associates		PAID IN FULL
Paid By: CHECK		

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 3 Wells
Driller: PeneCore Drilling - Lic #: 906899 - Method: other

Work Total: \$1191.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2010-0548	07/20/2010	11/04/2010	MW10	10.25 in.	4.00 in.	2.00 ft	20.00 ft
W2010-0549	07/20/2010	11/04/2010	MW11	10.25 in.	4.00 in.	2.00 ft	20.00 ft
W2010-0550	07/20/2010	11/04/2010	MW9	10.25 in.	4.00 in.	2.00 ft	20.00 ft

Specific Work Permit Conditions

1. 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.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the

Alameda County Public Works Agency - Water Resources Well Permit

permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.
5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@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.
7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
8. Minimum surface seal thickness is two inches of cement grout placed by tremie
9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.
10. 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.

Remediation Well Construction-Vapor Remediation Well - 1 Wells

Driller: PeneCore Drilling - Lic #: 906899 - Method: other

Work Total: \$265.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2010-0551	07/20/2010	11/04/2010	VP10	4.00 in.	0.25 in.	4.00 ft	5.50 ft

Specific Work Permit Conditions

1. 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.
2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and

Alameda County Public Works Agency - Water Resources Well Permit

mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

4. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
 5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@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.
 6. Minimum seal depth (Neat Cement Seal) is 2 feet below ground surface (BGS).
 7. Minimum surface seal thickness is two inches of cement grout placed by tremie
 8. 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.
 9. 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.
-

APPENDIX C

BORING LOG

Boring/Well Log Legend

KEY TO SYMBOLS/ABBREVIATIONS

- First encountered groundwater
- Static groundwater
- Soils logged by hand-auger or air-knife cuttings
- Soils logged by drill cuttings or disturbed sample
- Undisturbed soil sample interval
- Soil sample retained for submittal to analytical laboratory
- No recovery within interval
- Hydropunch or vapor sample screen interval

PID = Photo-ionization detector or organic vapor meter reading in parts per million (ppm)

fbg = Feet below grade

Blow Counts = Number of blows required to drive a California-modified split-spoon sampler using a 140-pound hammer falling freely 30 inches, recorded per 6-inch interval of a total 18-inch sample interval

(10YR 4/4) = Soil color according to Munsell Soil Color Charts

msl = Mean sea level

Soils logged according to the USCS.

UNIFIED SOILS CLASSIFICATION SYSTEM (USCS) SUMMARY

Major Divisions		Graphic	Group Symbol	Typical Description	
Coarse-Grained Soils (>50% Sands and/or Gravels)	Gravel and Gravelly Soils		GW	Well-graded gravels, gravel-sand mixtures, little or no fines	
			GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines	
		Gravels with Fines (≥15% fines)		GM	Silty gravels, gravel-sand-silt mixtures
				GC	Clayey gravels, gravel-sand-clay mixtures
	Sand and Sandy Soils	Clean Sands (≤5% fines)		SW	Well-graded sands, gravelly sands, little or no fines
				SP	Poorly-graded sands, gravelly sand, little or no fines
Sands with Fines (≥15% fines)				SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures		
Fine-Grained Soils (>50% Silts and/or Clays)	Silts and Clays		ML	Inorganic silts, very fine sands, silty or clayey fine sands, clayey silts with slight plasticity	
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
			OL	Organic silts and organic silty clays of low plasticity	
	Silts and Clays		MH	Inorganic silts, micaceous or diatomaceous fine sand or silty soils	
			CH	Inorganic clays of high plasticity	
			OH	Organic clays of medium to high plasticity, organic silts	
Highly Organic Soils			PT	Peat, humus, swamp soils with high organic contents	

M:\Templates & Forms\Boring Logs\Boring Log Legend





Conestoga - Rovers & Associates
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

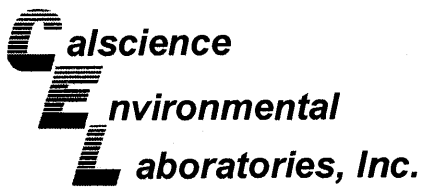
BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	VP-10
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	09-Aug-10
LOCATION	2703 Martin Luther King Jr. Way, Oakland, CA	DRILLING COMPLETED	09-Aug-10
PROJECT NUMBER	240781	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Penecore	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Airknife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	4"	SCREENED INTERVALS	4.8 to 4.9 fbg
LOGGED BY	D. Grunat	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS	Located at 2850 West St.		

WELL LOG (PID) \SHELLUS-CHARS\2407-1240781-OKLAND 2703 MARTIN LUTHER KING\240781-GINTV240781.GPJ DEFAULT.GDT 10/20/10

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT FILL	0.5	<p>1/4-diameter Teflon tubing</p> <p>Bentonite Seal</p> <p>Monterey Sand #2/12 1" length stainless steel screen</p> <p>Bottom of Boring @ 5 fbg</p>
					MH		SILT (MH); black (10YR 3/1); dry; 15% clay, 75% silt, 10% fine grained sand; high plasticity.	1.5	
				5				5.0	

APPENDIX D
CERTIFIED ANALYTICAL REPORTS



September 10, 2010

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

Subject: **Calscience Work Order No.: 10-09-0114**
Client Reference: **2703 Martin Luther King Jr. Way, Oakland, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/2/2010 and analyzed in accordance with the attached chain-of-custody.

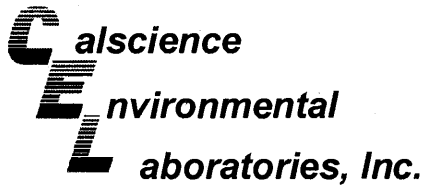
Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis,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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Xuan H. Dang", with the letters "FOR" written below it.

Calscience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager



Analytical Report



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

Date Received: 09/02/10
Work Order No: 10-09-0114
Preparation: N/A
Method: EPA TO-3M

Project: 2703 Martin Luther King Jr. Way, Oakland, CA

Page 1 of 1

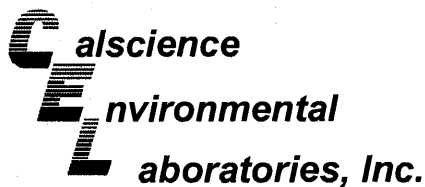
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-10	10-09-0114-1-A	09/01/10 14:20	Air	GC 13	N/A	09/02/10 13:17	100902L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5700	1		ug/m3

Method Blank	098-01-005-2,578	N/A	Air	GC 13	N/A	09/02/10 09:19	100902L01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5700	1		ug/m3

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



Analytical Report



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

Date Received: 09/02/10
 Work Order No: 10-09-0114
 Preparation: N/A
 Method: ASTM D-1946
 Units: %v

Project: 2703 Martin Luther King Jr. Way, Oakland, CA

Page 1 of 1

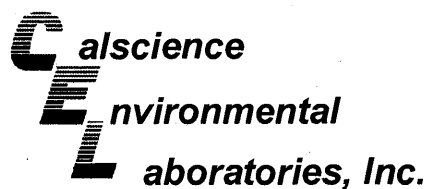
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-10	10-09-0114-1-A	09/01/10 14:20	Air	GC 36	N/A	09/02/10 14:12	100902L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	8.96	0.500	1	
Carbon Dioxide	5.02	0.500	1						

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-03-002-1,133	N/A	Air	GC 36	N/A	09/02/10 09:21	100902L01

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

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



Analytical Report



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

Date Received: 09/02/10
Work Order No: 10-09-0114
Preparation: N/A
Method: ASTM D-1946 (M)

Project: 2703 Martin Luther King Jr. Way, Oakland, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-10	10-09-0114-1-A	09/01/10 14:20	Air	GC 55	N/A	09/02/10 00:00	100902L01

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	099-12-872-50	N/A	Air	GC 55	N/A	09/02/10 00:00	100902L01

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

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

Analytical Report



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

Date Received: 09/02/10
 Work Order No: 10-09-0114
 Preparation: N/A
 Method: EPA 8260B (M)
 Units: ug/m3

Project: 2703 Martin Luther King Jr. Way, Oakland, CA

Page 1 of 1

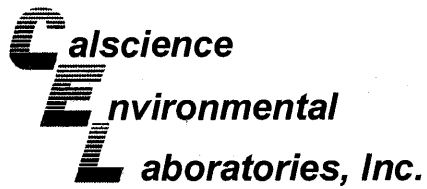
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-10	10-09-0114-1-A	09/01/10 14:20	Air	GC/MS HH	N/A	09/02/10 15:20	100902L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	19	1.19		Ethylbenzene	ND	26	1.19	
Toluene	35	22	1.19		Xylenes (total)	ND	52	1.19	
Surrogates:	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		Surrogates:	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	99	47-156			1,2-Dichloroethane-d4	94	47-156		
Toluene-d8	103	47-156							

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-13-041-159	N/A	Air	GC/MS HH	N/A	09/02/10 13:31	100902L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Ethylbenzene	ND	22	1	
Toluene	ND	19	1		Xylenes (total)	ND	43	1	
Surrogates:	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		Surrogates:	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	98	47-156			1,2-Dichloroethane-d4	96	47-156		
Toluene-d8	101	47-156							

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



Quality Control - Duplicate



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

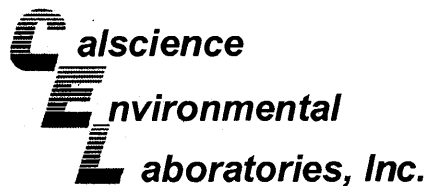
Date Received: 09/02/10
Work Order No: 10-09-0114
Preparation: N/A
Method: EPA TO-3M

Project: 2703 Martin Luther King Jr. Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
10-09-0118-5	Air	GC 13	N/A	09/02/10	100902D01

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	4800000	4400000	9	0-20	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

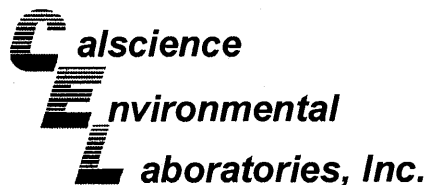
Date Received: N/A
Work Order No: 10-09-0114
Preparation: N/A
Method: ASTM D-1946

Project: 2703 Martin Luther King Jr. Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-03-002-1,133	Air	GC 36	N/A	09/02/10	100902L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon Dioxide	93	93	80-120	0	0-30	
Oxygen + Argon	87	87	80-120	0	0-30	
Nitrogen	88	88	80-120	0	0-30	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

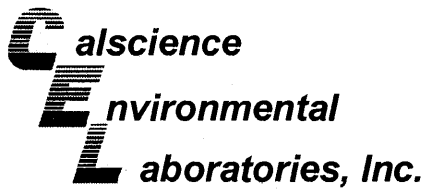
Date Received: N/A
 Work Order No: 10-09-0114
 Preparation: N/A
 Method: ASTM D-1946 (M)

Project: 2703 Martin Luther King Jr. Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-872-50	Air	GC 55	N/A	09/02/10	100902L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Helium	96	94	80-120	2	0-30	
Hydrogen	102	100	80-120	1	0-30	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

Date Received: N/A
Work Order No: 10-09-0114
Preparation: N/A
Method: EPA 8260B (M)

Project: 2703 Martin Luther King Jr. Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-13-041-159	Air	GC/MS HH	N/A	09/02/10	100902L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	108	103	60-156	4	0-40	
Toluene	106	102	56-146	4	0-43	
Ethylbenzene	109	105	52-154	4	0-38	
Xylenes (total)	107	102	52-148	4	0-38	

RPD - Relative Percent Difference, CL - Control Limit



Work Order Number: 10-09-0114

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



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

Tracking #: 514870989



NPS

ORC

D

GARDEN GROVE

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

D92843A

COD:
\$0.00



84362486

Reference:
WPI, CRA

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Print Date : 09/01/10 16:27 PM

Package 1 of 1

Send Label To Printer Print All Edit Shipment Finish

LABEL INSTRUCTIONS:

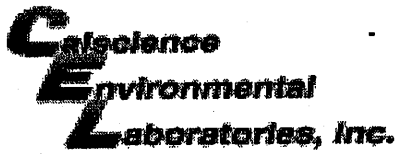
- Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
- STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
- STEP 2 - Fold this page in half.
- STEP 3 - Securely attach this label to your package, do not cover the barcode.
- STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email Create Return Label

TERMS AND CONDITIONS:

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



WORK ORDER #: 10-09-0114

SAMPLE RECEIPT FORM

Box 1 of 1

CLIENT: _____

DATE: 09/02/10

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 Metals Only PCBs Only Initial: WS

CUSTODY SEALS INTACT:

Cooler 160X No (Not Intact) Not Present N/A Initial: WS

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

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

CONTAINER TYPE:

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

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

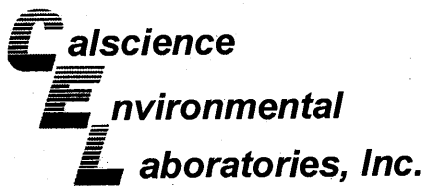
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

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

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:** VC

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



August 17, 2010

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

Subject: **CalScience Work Order No.: 10-08-0975**
Client Reference: **2703 Martin Luther King Way, Oakland, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/12/2010 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

CalScience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager

Analytical Report



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

Date Received: 08/12/10
 Work Order No: 10-08-0975
 Preparation: EPA 3550B
 Method: EPA 8015B

Project: 2703 Martin Luther King Way, Oakland, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
COMP (WASTE-1)	10-08-0975-5-A	08/10/10 00:00	Solid	GC 46	08/13/10	08/13/10 17:27	100813B08

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	116	61-145			

Method Blank	099-12-025-1,327	N/A	Solid	GC 46	08/13/10	08/13/10 14:29	100813B08
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Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	109	61-145			

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

Analytical Report



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

Date Received: 08/12/10
 Work Order No: 10-08-0975
 Preparation: EPA 3550B
 Method: EPA 8015B (M)

Project: 2703 Martin Luther King Way, Oakland, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
COMP (WASTE-1)	10-08-0975-5-A	08/10/10 00:00	Solid	GC 46	08/13/10	08/13/10 17:27	100813B09

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	116	61-145			

Method Blank	099-12-254-1,427	N/A	Solid	GC 46	08/13/10	08/13/10 14:29	100813B09
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Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	109	61-145			

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

Analytical Report



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

Date Received: 08/12/10
 Work Order No: 10-08-0975
 Preparation: EPA 5030B
 Method: LUFT GC/MS / EPA 8260B
 Units: mg/kg

Project: 2703 Martin Luther King Way, Oakland, CA

Page 1 of 1

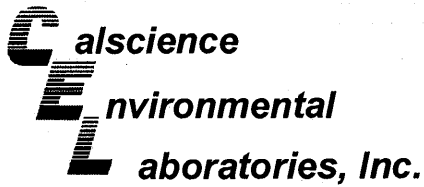
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
COMP (WASTE-1)	10-08-0975-5-A	08/10/10 00:00	Solid	GC/MS W	08/12/10	08/13/10 16:27	100813L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	100		Xylenes (total)	2.0	0.50	100	
Ethylbenzene	0.76	0.50	100		TPPH	83	50	100	
Toluene	ND	0.50	100						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	104	63-141			1,2-Dichloroethane-d4	108	62-146		
Toluene-d8	103	80-120			1,4-Bromofluorobenzene	95	60-132		
Toluene-d8-TPPH	104	87-111							

Method Blank	099-12-798-1,153	N/A	Solid	GC/MS W	08/13/10	08/13/10 14:00	100813L02
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	100		Xylenes (total)	ND	0.50	100	
Ethylbenzene	ND	0.50	100		TPPH	ND	50	100	
Toluene	ND	0.50	100						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	105	63-141			1,2-Dichloroethane-d4	114	62-146		
Toluene-d8	103	80-120			1,4-Bromofluorobenzene	87	60-132		
Toluene-d8-TPPH	102	87-111							

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



Analytical Report



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

Date Received: 08/12/10
Work Order No: 10-08-0975
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: 2703 Martin Luther King Way, Oakland, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
COMP (WASTE-1)	10-08-0975-5-A	08/10/10 00:00	Solid	ICP 5300	08/16/10	08/16/10 14:08	100816L01

Comment(s): -Mercury analysis was performed on 08/16/10 18:57 with batch 100813L08.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	4.35	0.750	1		Molybdenum	ND	0.250	1	
Barium	200	0.500	1		Nickel	72.9	0.250	1	
Beryllium	0.386	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	47.8	0.250	1		Thallium	ND	0.750	1	
Cobalt	13.3	0.250	1		Vanadium	34.5	0.250	1	
Copper	20.2	0.500	1		Zinc	58.7	1.00	1	
Lead	6.57	0.500	1						

Method Blank	099-04-007-7.341	N/A	Solid	Mercury	08/13/10	08/13/10 18:34	100813L08
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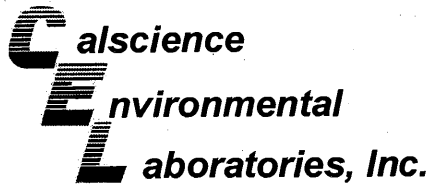
Comment(s): -Preparation/analysis for Mercury was performed by EPA 7471A.

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	097-01-002-13.913	N/A	Solid	ICP 5300	08/16/10	08/16/10 12:33	100816L01
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Molybdenum	ND	0.250	1	
Barium	ND	0.500	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Cobalt	ND	0.250	1		Vanadium	ND	0.250	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

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



Quality Control - Spike/Spike Duplicate



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

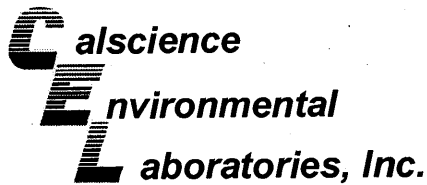
Date Received: 08/12/10
Work Order No: 10-08-0975
Preparation: EPA 3050B
Method: EPA 6010B

Project 2703 Martin Luther King Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-08-1095-1	Solid	ICP 5300	08/16/10	08/16/10	100816S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	90	90	50-115	0	0-20	
Arsenic	105	103	75-125	2	0-20	
Barium	4X	4X	75-125	4X	0-20	Q
Beryllium	106	103	75-125	3	0-20	
Cadmium	108	105	75-125	3	0-20	
Chromium	108	104	75-125	3	0-20	
Cobalt	115	113	75-125	2	0-20	
Copper	111	102	75-125	2	0-20	
Lead	109	107	75-125	2	0-20	
Molybdenum	105	103	75-125	2	0-20	
Nickel	113	110	75-125	2	0-20	
Selenium	105	100	75-125	5	0-20	
Silver	106	104	75-125	2	0-20	
Thallium	104	103	75-125	1	0-20	
Vanadium	108	105	75-125	3	0-20	
Zinc	4X	4X	75-125	4X	0-20	Q

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - PDS / PDSO



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

Date Received 08/12/10
Work Order No: 10-08-0975
Preparation: EPA 3050B
Method: EPA 6010B

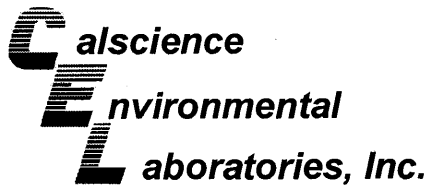
Project: 2703 Martin Luther King Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSO Batch Number
10-08-1095-1	Solid	ICP 5300	08/16/10	08/16/10	100816S01

Analysis Comment: * - Analyzed 8/16/2010 2:26:00 PM

Parameter	PDS %REC	PDSO %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	96	96	75-125	1	0-20	
Arsenic	96	95	75-125	0	0-20	
Barium	4X	4X	75-125	4X	0-20	Q
Beryllium	96	95	75-125	1	0-20	
Cadmium	98	96	75-125	2	0-20	
Chromium	97	96	75-125	1	0-20	
Cobalt	105	102	75-125	3	0-20	
Copper	106	104	75-125	1	0-20	
Lead	101	98	75-125	2	0-20	
Molybdenum	100	97	75-125	3	0-20	
Nickel	103	101	75-125	1	0-20	
Selenium	93	93	75-125	0	0-20	
Silver	90	89	75-125	1	0-20	
Thallium	98	97	75-125	2	0-20	
Vanadium	98	97	75-125	1	0-20	
Zinc	4X	4X	75-125	4X	0-20	Q

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

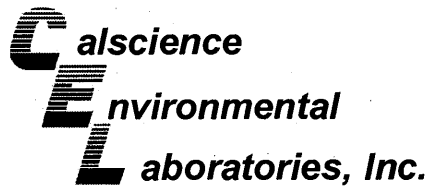
Date Received: 08/12/10
Work Order No: 10-08-0975
Preparation: EPA 3550B
Method: EPA 8015B

Project 2703 Martin Luther King Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
COMP (WASTE-1)	Solid	GC 46	08/13/10	08/13/10	100813S08

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	117	109	64-130	7	0-15	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

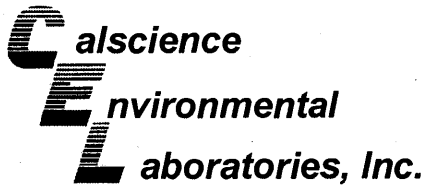
Date Received: 08/12/10
Work Order No: 10-08-0975
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project 2703 Martin Luther King Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
COMP (WASTE-1)	Solid	GC 46	08/13/10	08/13/10	100813S09

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	100	95	64-130	6	0-15	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

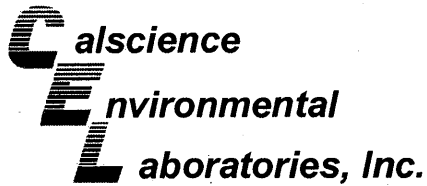
Date Received: 08/12/10
Work Order No: 10-08-0975
Preparation: EPA 7471A Total
Method: EPA 7471A

Project 2703 Martin Luther King Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-08-1009-1	Solid	Mercury	08/13/10	08/13/10	100813S08

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	84	94	71-137	9	0-14	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

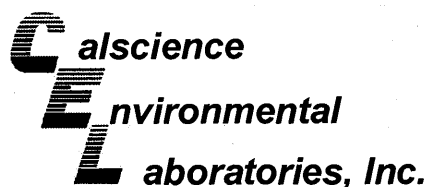
Date Received: 08/12/10
Work Order No: 10-08-0975
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA
8260B

Project 2703 Martin Luther King Way, Oakland, CA

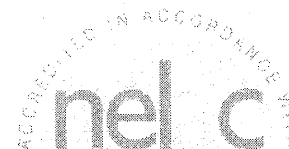
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-08-0976-1	Solid	GC/MS W	08/12/10	08/13/10	100813S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	96	93	61-127	2	0-20	
Ethylbenzene	91	90	57-129	1	0-22	
Toluene	94	92	63-123	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

Date Received: N/A
Work Order No: 10-08-0975
Preparation: EPA 3050B
Method: EPA 6010B

Project: 2703 Martin Luther King Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
097-01-002-13,913	Solid	ICP 5300	08/16/10	08/16/10	100816L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	97	100	80-120	73-127	3	0-20	
Arsenic	95	97	80-120	73-127	2	0-20	
Barium	105	102	80-120	73-127	2	0-20	
Beryllium	94	91	80-120	73-127	3	0-20	
Cadmium	97	95	80-120	73-127	1	0-20	
Chromium	98	97	80-120	73-127	1	0-20	
Cobalt	106	105	80-120	73-127	0	0-20	
Copper	103	102	80-120	73-127	1	0-20	
Lead	100	103	80-120	73-127	3	0-20	
Molybdenum	95	98	80-120	73-127	3	0-20	
Nickel	104	103	80-120	73-127	1	0-20	
Selenium	90	92	80-120	73-127	3	0-20	
Silver	99	98	80-120	73-127	1	0-20	
Thallium	100	102	80-120	73-127	3	0-20	
Vanadium	98	97	80-120	73-127	1	0-20	
Zinc	100	99	80-120	73-127	1	0-20	

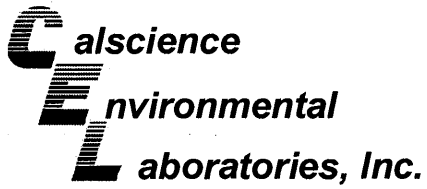
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

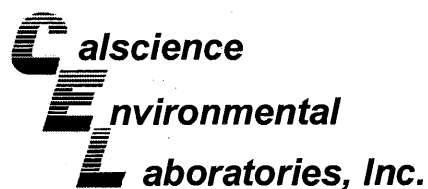
Date Received: N/A
Work Order No: 10-08-0975
Preparation: EPA 3550B
Method: EPA 8015B

Project: 2703 Martin Luther King Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-1,327	Solid	GC 46	08/13/10	08/13/10	100813B08

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	110	111	75-123	1	0-12	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

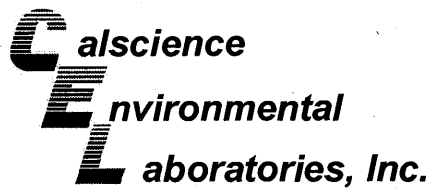
Date Received: N/A
Work Order No: 10-08-0975
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: 2703 Martin Luther King Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-254-1,427	Solid	GC 46	08/13/10	08/13/10	100813B09

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	88	87	75-123	1	0-12	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

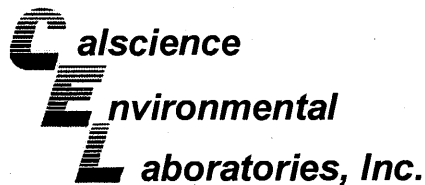
Date Received: N/A
Work Order No: 10-08-0975
Preparation: EPA 7471A Total
Method: EPA 7471A

Project: 2703 Martin Luther King Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-7341	Solid	Mercury	08/13/10	08/13/10	100813L08

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	107	106	85-121	0	0-10	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

Date Received: N/A
 Work Order No: 10-08-0975
 Preparation: EPA 5030B
 Method: LUFT GC/MS / EPA 8260B

Project: 2703 Martin Luther King Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-798-1,153	Solid	GC/MS W	08/13/10	08/13/10	100813L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	103	78-120	0	0-20	
Ethylbenzene	106	107	76-120	1	0-20	
Toluene	105	104	77-120	1	0-20	
TPPH	94	94	65-135	0	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 10-08-0975

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

Contingent analyses

0975

- Organic lead required if TTLC lead \geq 13 mg/kg
- Aquatic bioassay required if any TPH (gasoline, diesel, or motor oil) \geq 5,000 mg/kg
- TCLP benzene required if benzene \geq 10 mg/kg
- TCLP and STLC required for metals per table below

Metal	Trigger level TTLC (mg/kg)	Requirement
Antimony	150	STLC required if TTLC \geq 150 mg/kg
Arsenic	50/100	STLC required if TTLC \geq 50 mg/kg; STLC and TCLP required if TTLC \geq 100 mg/kg
Barium	1,000/2,000	STLC required if TTLC \geq 1,000 mg/kg; STLC and TCLP required if TTLC \geq 2,000 mg/kg
Beryllium	7.5	STLC required if TTLC \geq 7.5 mg/kg
Cadmium	10/20	STLC required if TTLC \geq 10 mg/kg; STLC and TCLP required if TTLC \geq 20 mg/kg
Chromium	50/100	STLC required if TTLC \geq 50 mg/kg; STLC and TCLP required if TTLC \geq 100 mg/kg
Cobalt	800	STLC required if TTLC \geq 800 mg/kg
Copper	250	STLC required if TTLC \geq 250 mg/kg
Lead	50/100	STLC required if TTLC \geq 50 mg/kg; STLC and TCLP required if TTLC \geq 100 mg/kg
Mercury	2/4	STLC required if TTLC \geq 2 mg/kg; STLC and TCLP required if TTLC \geq 4 mg/kg
Molybdenum	350	STLC required if TTLC \geq 350 mg/kg
Nickel	200	STLC required if TTLC \geq 200 mg/kg
Selenium	10/20	STLC required if TTLC \geq 10 mg/kg; STLC and TCLP required if TTLC \geq 20 mg/kg
Silver	50/100	STLC required if TTLC \geq 50 mg/kg; STLC and TCLP required if TTLC \geq 100 mg/kg
Thallium	70	STLC required if TTLC \geq 70 mg/kg
Vanadium	240	STLC required if TTLC \geq 240 mg/kg
Zinc	2,500	STLC required if TTLC \geq 2,500 mg/kg



0975

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

Tracking #: 514727342

NPS

ORC

D

GARDEN GROVE

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

D92843A

COD:
\$0.00



83833111

Reference:
CRA, ERI

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Print Date : 08/11/10 13:53 PM

Package 1 of 1

Print All

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.

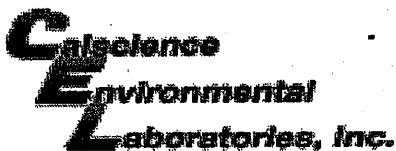
STEP 3 - Securely attach this label to your package, do not cover the barcode.

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:

TERMS AND CONDITIONS:

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



WORK ORDER #: 10-08- 9 7 5

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: CRA

DATE: 08/12/10

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

Temperature 1.9 °C + 0.5°C (CF) = 2.4 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only

Initial: [Signature]

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Initial: [Signature]

Sample _____ No (Not Intact) Not Present

Initial: [Signature]

SAMPLE CONDITION:

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

CONTAINER TYPE:

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

Water: VOA VOA_h VOAn₂ 125AGB 125AGB_h 125AGB_p 1AGB 1AGBna₂ 1AGBs

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

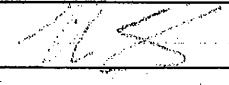
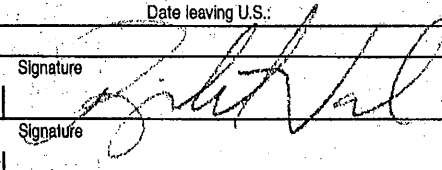
250PB 250PBn 125PB 125PBz_{nna} 100PJ 100PJna₂ _____ _____ _____

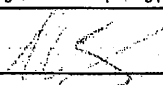
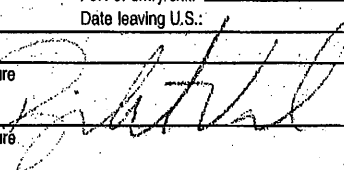
Air: Tedlar® Summa® Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: WSC

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

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

APPENDIX E
WASTE DISPOSAL MANIFESTS

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number NOT REQUIRED	2. Page 1 of 1	3. Emergency Response Phone 800-424-9300	4. Waste Tracking Number 215574	
5. Generator's Name and Mailing Address Shell Oil Products US One Shell Plaza, 910 Louisiana, Room #673, Houston, TX 77002		Generator's Site Address (if different than mailing address) 2703 Martin Luther King Oakland, CA 94612			
6. Transporter 1 Company Name American Integrated Services, Inc.		U.S. EPA ID Number CAR000148338			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address Crosby & Overton, Inc. 1630 W. 16th Street		U.S. EPA ID Number CAD028400019			
Facility's Phone: Long Beach, CA 90813 582-432-5445					
GENERATOR	9a. 9b. U.S. DOT Description (including Proper Shipping Name)	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	1. Non-Hazardous Waste Liquid (Sludge)	No. 3	Type DAI	105	G
	2.				
	3.				
	4.				
13. Special Handling Instructions and Additional Information Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (800) 424-9300 Chemtrec.					
RIPR#: 85214 SAP#: 129449 Incident#: 97093397 Profile#: 27578 Project #: 30038-01					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name AIS on behalf of SOPUS - J Sherman		Signature 		Month Day Year 08 27 10	
TRANSPORTER	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____				
	16. Transporter Acknowledgement of Receipt of Materials				
	Transporter 1 Printed/Typed Name Rigo Valencia	Signature 		Month Day Year 08 27 10	
17. Discrepancy					
17a Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)		U.S. EPA ID Number			
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)					
Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name		Signature		Month Day Year	

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number NOT REQUIRED	2. Page 1 of 1	3. Emergency Response Phone 800-424-9300	4. Waste Tracking Number 215573	
5. Generator's Name and Mailing Address Shell Oil Products US One Shell Plaza, 910 Louisiana, Room #673, Houston, TX 77002		Generator's Site Address (if different than mailing address) 2703 Martin Luther King Oakland, CA 94612			
6. Transporter 1 Company Name American Integrated Services, Inc.		U.S. EPA ID Number CAR000148338			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address Keller Canyon Landfill 901 Bailey Road		U.S. EPA ID Number Not Required			
Facility's Phone: Pittsburg, CA 94565 925-458-0800					
GENERATOR	9a. 9b. U.S. DOT Description (including Proper Shipping Name)	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
	1. Non-Hazardous Waste Solid (Soil)	9	DM	4500	P
	2.				
	3.				
4.					
13. Special Handling Instructions and Additional Information					
Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (800) 424-9300 Chemtrec.			RIPR#: 85213 SAP#: 128449 Incident#: 97093397 Profile#: 4212107702 Project #: 30038-81		
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name AIS on behalf of SOPUS - J Sherman		Signature 		Month Day Year 10 27 10	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgement of Receipt of Materials					
Transporter 1 Printed/Typed Name Rigo Valencia		Signature 		Month Day Year 10 27 10	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Discrepancy					
17a Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number: _____					
17b. Alternate Facility (or Generator)				U.S. EPA ID Number	
Facility's Phone: _____					
17c. Signature of Alternate Facility (or Generator)				Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name		Signature		Month Day Year	