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

Re: Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California
SAP Code 129449
Incident No. 97093397
ACHCSA Case No. RO#0145

Dear Mr. Wickham:

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

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

Sincerely,

Denis L. Brown
Project Manager

CONESTOGA-ROVERS
& ASSOCIATES

19449 Riverside Drive, Suite 230, Sonoma, California 95476
Telephone: 707-935-4850 Facsimile: 707-935-6649
www.CRAworld.com

September 16, 2008

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

Re: **Site Investigation Report and Soil Vapor Monitoring Report – Third Quarter 2008**
Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California
SAP Code 129449
Incident No. 97093397

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document the installation of an offsite vapor probe. CRA followed the scope of work detailed in our November 13, 2007 *Monitoring Well and Vapor Point Installation Work Plan* (November 2007 Work Plan), which was approved by the Alameda County Environmental Health Department (ACEHD) in their December 5, 2007 letter to Shell. Also included in this report is a summary of the third quarter 2008 offsite vapor monitoring activities.

It should be noted that the November 2007 Work Plan also recommended the installation of five offsite monitoring wells and one additional offsite soil vapor probe, however, access has not been granted for this remaining scope of work.

EXECUTIVE SUMMARY

- Soil vapor probe VP-9 was installed at 2721 Martin Luther King Jr Way, north-northeast of onsite probe VP-6.

- Gasoline constituent concentrations in the soil sample collected from vapor probe boring VP-9 were below reporting limits for all constituents.

- Petroleum hydrocarbon concentrations in the soil vapor sample collected from VP-9 were below applicable residential ESLs, defining the extent of these constituents in soil vapor north-northeast of onsite probe VP-6.

- Soil cuttings from the installation of vapor probe boring VP-9 contained lead concentrations above the hazardous limit, and the soil was properly profiled and disposed.

- The third quarter 2008 soil vapor monitoring event for offsite soil vapor probes VP-7 and VP-8 was conducted on July 24, 2008. Water was detected in the deeper screen interval (5 fbg) of probe VP-7, so no soil vapor sample could be collected from this interval.

- BTEX concentrations in soil vapor in offsite soil vapor probes VP-7 and VP-8 remain below applicable residential ESLs. TPHg concentrations are below reporting limits, but the reporting limit exceeds the ESL.

- Multiple attempts have been made to secure the remaining three access agreements to complete the scope outlined in the November 2007 Work Plan.

SITE DESCRIPTION AND BACKGROUND

The 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 utilized as an automotive repair shop.

A summary of previous work performed at the site and additional background information is contained in Attachment A. The site plan is included as Figure 2.

SOIL VAPOR PROBE INSTALLATION

Permit: Drilling permits for three of the proposed monitoring wells (MW-9, MW-10, and MW-11) and two vapor probes (VP-9 and VP-10) were obtained from the Alameda County Public Works Agency (W2008-0412 to W2008-0416). Copies of the permits are included in Attachment B.

Drilling Date: VP-9 was completed on July 23, 2008.

Drilling Company: Gregg Drilling and Testing, Inc installed the vapor probe using hand auger equipment.

Personnel: Erin Reinhart-Koylu of CRA directed the drilling activities onsite. All work was performed under the supervision of California Professional Geologist Ana Friel.

Drilling Method: Hand Auger.

Boring Depth: Vapor probe boring VP-9 was logged to approximately 5.17 feet below grade (fbg).

Soil Sampling: A soil sample was collected from vapor probe boring VP-9 at approximately 4.5 fbg.

Probe Construction Specs: The vapor probe boring (VP-9) was extended to approximately 5 feet, 2 inches below grade and approximately 3.5 inches of clean filter pack sand was installed. The Geoprobe manufactured probe (part number AT8623S with 0.25 feet of screen) was inserted in a tremie pipe with the bottom of the screen placed at 4.875 fbg. Filter pack sand was then added to a depth of 4.5 fbg while the tremie pipe was extracted, leaving the screen interval in place from 4.625 to 4.875 fbg. Hydrated bentonite grout was placed from 4.5 fbg to the surface. Concrete was used for installation of the protective well box at grade. The construction details are included on the boring log in Attachment C.

Vapor Probe Sampling: The third quarter 2008 soil vapor sampling event was conducted on July 24, 2008, and samples were collected from offsite vapor probes VP-7 and VP-8. Soil vapor samples were collected from newly installed vapor probe VP-9 on August 8, 2008. During each sampling event, the Teflon tubing from each vapor point was connected to a control valve, and then to a flow regulator attached to a laboratory-supplied sampling manifold connecting two 1-liter summa canisters (purge canister and sampling canister) with pressure gauges. Prior to sampling each vapor probe, a vacuum test was conducted between the summa canisters, the sampling manifold, and the valves by closing the valves, and opening the purge summa canister for approximately 10 minutes. Ambient air samples were also collected during the July 24 and August 8, 2008 sampling events. The vapor samples were labeled and stored in a non-

cooled ice chest until delivery to the analytical laboratory, and trip blanks were included with the vapor samples.

Sample Analyses: The soil sample was analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and fuel oxygenates by EPA Methods 8015M or 8260B by Calscience Environmental Laboratories, Inc. (Calscience) of Garden Grove, California. The vapor samples were analyzed for TPHg by EPA Method TO-3, and BTEX by EPA Method TO-15 by either Calscience or Air Toxics LTD of Folsom, California. The certified analytical laboratory reports are included in Appendix D.

Soil Disposal: A minimal volume of waste soil was generated through hand auger activities for the soil vapor probe. The material was placed in a 5-gallon bucket, and staged at the subject site, sampled for disposal characterization, and profiled as hazardous waste for disposal. On August 29, 2008, American Integrated Services, Inc. transported the bucket to Siemens Water Technologies of Los Angeles, California. The disposal confirmation documentation is included in Attachment E.

ANALYTICAL RESULTS

Soil Results: The soil analytical data from vapor probe boring VP-9 is presented on Table 1. No gasoline constituents were detected in the soil sample collected. The certified analytical report is included in Attachment D.

Soil Vapor Results: Although the screen intervals for vapor probes VP-7 and VP-8 are from 2.5 to 2.75 and 4.5 to 4.75 fbg, the samples are identified on the chain-of-custody and laboratory reports as being at 3 and 5 fbg, respectively. Also, while the screen interval for vapor probe VP-9 is from 4.625 to 4.875 fbg, the samples are identified on the chain-of-custody and laboratory reports as being at 5 fbg.

During the third quarter 2008 vapor monitoring event on July 24, 2008, soil vapor samples were obtained from the 3 foot interval in probes VP-7 and VP-8, and from the 5 foot interval in VP-8. The 5 foot interval of VP-7 contained water and could not be sampled for soil-vapors. A soil vapor sample was collected from newly installed probe VP-9 on August 8, 2008. The data is presented on Table 2, with the San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels

(ESLs) for potential vapor intrusion into commercial and residential indoor air. The certified analytical reports are included in Attachment D.

As shown on Table 2, BTEX concentrations in soil vapor in offsite soil vapor probes VP-7 and VP-8 remain below applicable residential ESLs. TPHg concentrations in soil vapor from offsite probes VP-7 and VP-8 are below reporting limits, but the reporting limit exceeds the applicable residential ESL. TPHg and BTEX concentrations in the soil vapor sample collected from VP-9 are below the applicable residential ESLs.

Disposal: The stockpile sample from soil cuttings from the installation of vapor probe VP-9 contained lead at a concentration of 2,630 milligrams per kilograms (mg/Kg). This concentration exceeds the State of California total threshold limit concentration (TTLC). Contingency analysis for organic lead was non-detect, and for soluble threshold limit concentration (STLC) was 99 milligrams per liter (mg/L). This STLC concentration exceeds the State of California hazardous limit. Based on this, contingency analysis for toxicity characteristic leaching procedure (TCLP) lead was conducted, and the concentration of 0.251 mg/L does not exceed the Federal hazardous limit. The soil was disposed of as non-RCRA hazardous waste at an appropriate facility. The certified analytical report and soil disposal documentation are included as Attachment E.

OFFSITE ACCESS STATUS UPDATES

The scope of work detailed in our November 2007 Work Plan also included the installation of three groundwater monitoring wells and one soil vapor probe at the Marcus Foster School property, and one groundwater monitoring well on each of two offsite properties located along 27th Street. Our unsuccessful attempts to gain access for this additional scope of work are detailed below.

Wells MW-9, MW-10, MW-11, and vapor probe VP-10 are to be installed on the Marcus Foster School property. We obtained an access agreement for previous CPT borings at the property which was specific to that scope of work. We have been working with the attorney to the school, Meredith Brown of The Law Offices of Bryant & Brown, to secure an addendum to the access agreement. Ms. Brown met with the school on September 2, and indicated prior to that meeting that she was hopeful to secure the addendum from the new Superintendent. We have followed up after the meeting, but have not received any response.

Well MW-13 is to be installed on private property at 690 27th Street. We mailed our first request for access to the property owner's address during January 2008, and the mailing was returned unclaimed. We mailed a second request for access during May 2008 to both the site address and the property

owner's address. The mailing to the site address was returned unclaimed. The mailing sent to the property owner's address was signed and received by the property owner on May 10, 2008; however, no response to our request has been received.

Well MW-15 is to be installed on private property at 681 27th Street. During numerous phone conversations between Jacquelyn England of CRA and the property owner, the property owner has indicated he is amenable to allowing access. We have not, however, received a signed access agreement. During our last conversation in August 2008, the property owner indicated he would contact the ACEHD to discuss the scope of work.

At this time, we request the aid of the ACEHD to secure access for the proposed additional offsite work.

RECOMMENDATIONS

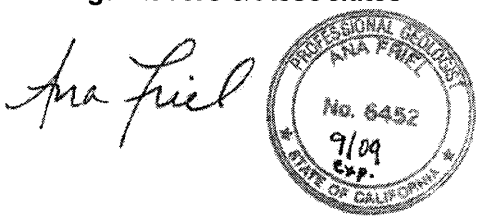
Based on the data presented in this and other documents for this site, and as presented above, additional activities are warranted at this site. Thus, Shell recommends:

- Adding newly installed probe VP-9 to the quarterly vapor monitoring program at the site;
- Reducing the sampling frequency in offsite probes VP-7 and VP-8 to semi-annual during the first and third quarters;
- Conducting a shallow soil investigation to determine the extent of elevated lead concentrations in soil prior to completing the proposed excavation activities;
- Continuing efforts to secure access agreements for the additional scope described in our November 2007 Work Plan, with the support of ACEDH.

CLOSING

If you have any questions regarding the contents of this document, please call Ana Friel at (707) 268-3812.

Sincerely,
Conestoga-Rovers & Associates



Ana Friel, PG
Project Manager

Figures: 1 - Vicinity Map
2 - Site Plan

Tables: 1 - Soil Analytical Data
2 - Soil Vapor Analytical Data

Attachments: A - Site History
B - Permits
C - Boring Log
D - Certified Analytical Reports
E - Disposal Documentation

cc: Denis Brown, Shell Oil Products US
Rodney & Janet Kwan, property owners of subject site
Monique Oates, property owner at 670 27th Street in Oakland
Scott Merillat, property owner at 664 27th Street in Oakland

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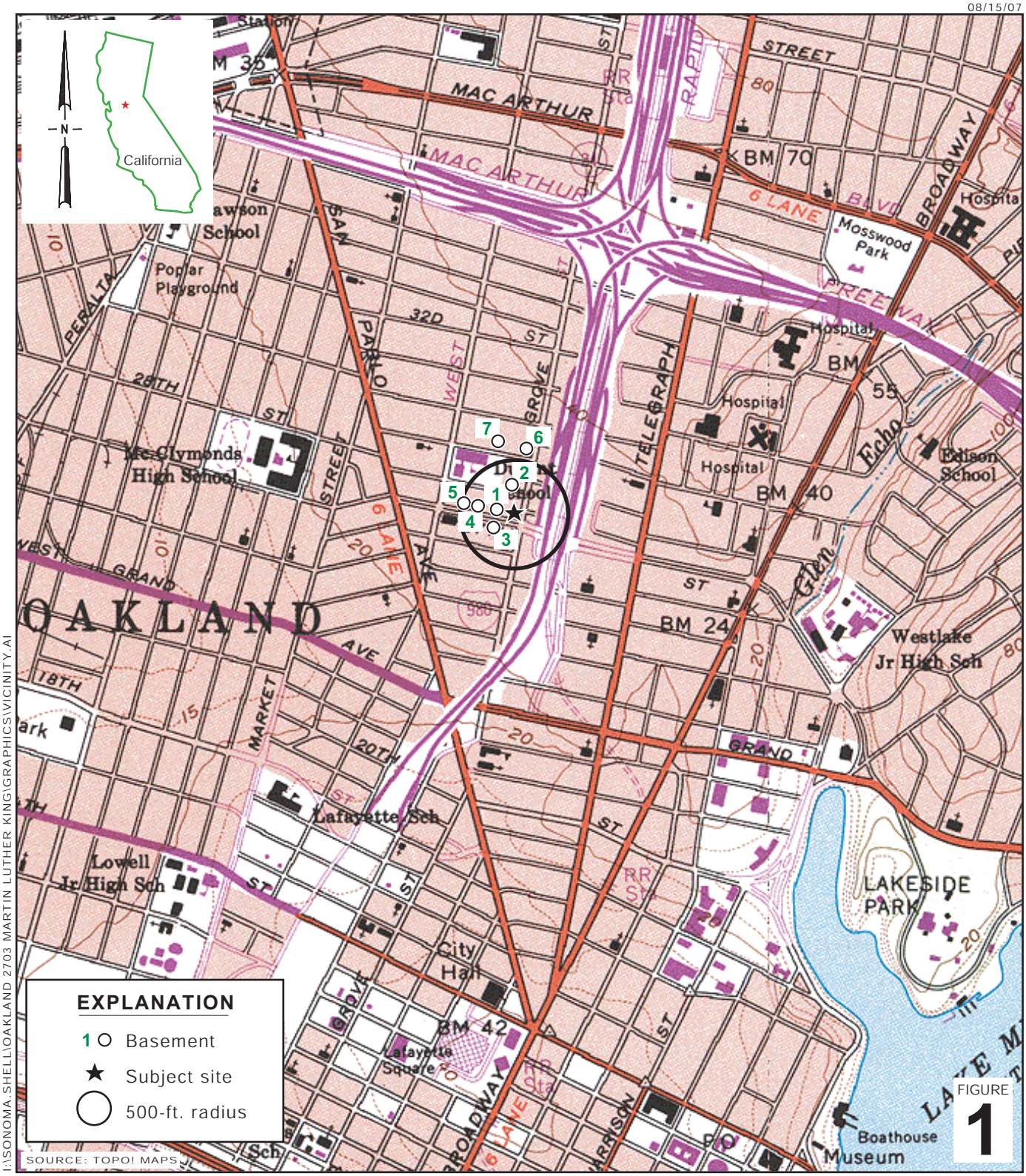

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FIGURE 1

0 1/8 1/4 1/2 1

SCALE (MILES)

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

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

09/08/08

Site Plan

EXPLANATION

- MW-9 — Proposed monitoring well location
- VP-9 — Vapor Probe location (7/08)
- VP-7 — Vapor probe location (5-6/07)
- CPT-6 — CPT boring location (5-6/07)
- CPT-8 — Attempted CPT boring location (5-6/07)
- CPT-1 — CPT boring location (10/06)
- VP-1 — Vapor probe location (1/06)
- V-1 — Soil vapor well location (7/96)
- MW-1 — Monitoring well location (7/96-2/06)
- Sanitary sewer line (SS)
- Water line (W)

28TH STREET

MW-10

Residential 679 28th St.

Residential 673 28th St.

Residential 669 28th St.

Residential 663 28th St.

Vacant Lot 2727-29 Martin Luther King

MW-12

Residential 665 28th St.

Residential 2719-23 Martin Luther King

SS

W

VP-9

A.G. W/O AST

MW-11

MW-9

VP-10

CPT-10

VP-6

Former Shell Station 2703 Martin Luther King

BUILDING

DRIVEWAY

MW-7

MW-8

MW-1

carport

CPT-9

VP-1

VP-5

Wooden Carport

VP-8

CPT-3

MW-5

VP-4

VP-2

CPT-8

CPT-2

CPT-4

V-1

CPT-5

MW-14

MW-6

VP-7

Residential 670 27th St.

Residential 688 27th St.

Residential 664 27th St.

VP-3

MW-4

V-2

CPT-1

MW-2

MW-3

DRIVEWAY

DRIVEWAY

MARTIN LUTHER KING JR. WAY

MW-13

27TH STREET

median

CPT-7

CPT-6

MW-15

N

0 20 40 80

Scale (ft)

FIGURE

2

Former Shell Service Station

2703 Martin Luther King Jr Way

Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

I:\SONOMA.SHELL\OAKLAND 2703 MARTIN LUTHER KING JR WAY\GRAPHICS\240781-Site Plan_Sept08.DWG

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

Table 1. Soil Analytical Data, Former Shell Service Station, 2703 Martin Luther King Jr. Way, Oakland, California

Sample	Depth (feet)	Date Sampled	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	Lead (mg/kg)
Soil Analytical Data by 8015M or 8260B													
VP-9-4.5	4.5	24-Jul-12	<0.50	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.010	<0.010	NA
Soil Analytical Data by 8015M or 8260B													
CPT-6-17	17	18-May-11	<0.50	0.0020 a	0.0032 a	<0.0050	0.0019 a	NA	NA	NA	NA	NA	NA
VP-7-4.5	4.5	06-Jun-07	<0.50	<0.0050	<0.0050	<0.0050	<0.010	NA	NA	NA	NA	NA	NA
VP-8-4.5	4.5	29-May-07	<0.50	0.00096 a	0.00084 a	0.00084 a	0.0015 a	NA	NA	NA	NA	NA	NA
Soil Analytical Data sampled by 8260B													
MW-12-5	5	28-Feb-06	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	NA
MW-12-10	10	28-Feb-06	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	NA
MW-12-15	15	28-Feb-06	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	NA
MW-12-19.5	19.5	28-Feb-06	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	NA
MW-14-5	5	28-Feb-06	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	NA
MW-14-10	10	28-Feb-06	**32**	**0.0083**	<0.0050	**0.028**	**0.0055**	<0.0050	<0.025	NA	NA	NA	NA
MW-14-14	14	28-Feb-06	**970**	**2.3**	**0.18**	**19**	**27**	<0.15	<0.70	NA	NA	NA	NA
Soil Analytical Data sampled by 8015M/8021 or 8260B as indicated													
MW-6 *(8260)*	5 [a, b]	04-Jan-06	<4.9	<0.025	<0.025	**0.025**	**0.044**	NA	NA	NA	NA	NA	**17**
MW-6 *(8015)*	10 [a]	04-Jan-06	**290**	<1.2	<1.2	**3.1**	**3.2**	NA	NA	NA	NA	NA	**14**
MW-6 *(8015)*	15.5	04-Jan-06	**36**	<0.62	<0.62	**0.65**	**2.1**	NA	NA	NA	NA	NA	NA
MW-6 *(8260)*	19.5 [b]	04-Jan-06	<1.0	**0.0090**	<0.0050	**0.010**	**0.022**	NA	NA	NA	NA	NA	NA
MW-7 *(8260)*	5.5 [b]	4-Jan-06	<1.0	<0.0050	<0.0050	<0.0050	**0.013**	NA	NA	NA	NA	NA	**11**
MW-7 *(8260)*	11.5 [a, b, c]	4-Jan-06	**7.1**	<0.025	<0.025	**0.19**	**5.2** [d]	NA	NA	NA	NA	NA	**8.5**
MW-7 *(8015)*	16.5 [a]	4-Jan-06	**340**	<1.2	<1.2	**7.2**	<1.2	NA	NA	NA	NA	NA	NA
MW-7 *(8260)*	19.5 [b]	4-Jan-06	<1.0	<0.0050	<0.0050	<0.0050	**0.010**	NA	NA	NA	NA	NA	NA
MW-8 *(8260)*	6.5 [b]	3-Jan-06	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	**310**
MW-8 *(8015)*	10.5 [a, c]	3-Jan-06	**880**	<6.2	<6.2	**15**	**72**	NA	NA	NA	NA	NA	**5.3**
MW-8 *(8015)*	19.5 [c]	3-Jan-06	**19**	**0.63**	<0.62	<0.62	**0.80**	NA	NA	NA	NA	NA	NA
B-23 *(8260)*	5 [b]	3-Jan-06	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	**9.1**
B-23 *(8015)*	10 [a, c]	3-Jan-06	**520**	<6.2	<6.2	**12**	**62**	NA	NA	NA	NA	NA	**5.4**
B-23 *(8015)*	15.5 [a, c]	3-Jan-06	**3,800**	**33**	**50**	**98**	**480**	NA	NA	NA	NA	NA	NA
B-23 *(8015)*	19.5 [a, c]	3-Jan-06	**350**	**1.6**	**1.9**	**15**	**35**	NA	NA	NA	NA	NA	NA

Table 1. Soil Analytical Data, Former Shell Service Station, 2703 Martin Luther King Jr. Way, Oakland, California

Sample	Depth (feet)	Date Sampled	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	Lead (mg/kg)
Soil Analytical Data by 8260													
GP-1-5.0'	5.0	29-Aug-05	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	NA
GP-1-10.0'	10.0	29-Aug-05	190*	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
GP-2-4.5'	4.5	29-Aug-05	1.5	0.035	<0.0050	0.0063	<0.0050	NA	NA	NA	NA	NA	NA
GP-3-5.0'	5.0	29-Aug-05	7.5	0.027	<0.0050	0.085	0.11	NA	NA	NA	NA	NA	NA
GP-3-8.5'	8.5	29-Aug-05	3,300	15	2.7	91	230	NA	NA	NA	NA	NA	NA
GP-4-4.5'	4.5	31-Aug-05	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	NA
GP-5-4.5'	4.5	30-Aug-05	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	NA
GP-6-5.0'	5.0	29-Aug-05	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	NA
GP-6-9.5'	9.5	29-Aug-05	260	<0.50	<0.50	2.1	6.8	NA	NA	NA	NA	NA	NA
GP-7-5.0'	5.0	30-Aug-05	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	NA
GP-7-9.5'	9.5	30-Aug-05	440	<0.50	1.8	10	59	NA	NA	NA	NA	NA	NA
GP-8-4.5'	4.5	30-Aug-05	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	NA
GP-9-4.5'	4.5	31-Aug-05	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	NA
GP-10-4.5'	4.5	31-Aug-05	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	NA
Soil Analytical Data by 8260													
B-20-4.5	4.5	04-11-02	1.1	0.0075	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA
B-20-7.5	7.5	04-11-02	22	<0.005	<0.005	0.14	0.027	<0.5	NA	NA	NA	NA	NA
B-21-3.0	3.0	04-11-02	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA
B-21-8.0	8.0	04-11-02	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA
B-22-3.0	3.0	04-11-02	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA
B-22-8.0	3.0	04-11-02	380	0.17	0.27	6.1	31	<0.5	NA	NA	NA	NA	NA

Table 1. Soil Analytical Data, Former Shell Service Station, 2703 Martin Luther King Jr. Way, Oakland, California

Sample	Depth (feet)	Date Sampled	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	Lead (mg/kg)
Soil Analytical Data by 8260													
MW-3-5.0	5.0	11-22-00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA
MW-3-10.5	10.5	11-22-00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA
MW-4-5.0	5.0	11-21-00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA
MW-4-10.5	10.5	11-21-00	860	1.1	<0.20	18	66	<0.20	<2.0	NA	NA	NA	NA
MW-5-5.0	5.0	11-21-00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA
MW-5-10.5	10.5	11-21-00	1,300	3.3	13	26	140	<0.20	<2.0	NA	NA	NA	NA
B-17-5.0	5.0	11-22-00	1.3	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA
B-17-7.0	7.0	11-22-00	2,100	0.31	0.64	18	140	<0.050	<0.050	NA	NA	NA	NA
B-18-5.0	5.0	11-22-00	1.2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA
B-18-7.0	7.0	11-22-00	42	<0.0050	<0.0050	0.094	<0.0050	0.0070	<0.050	NA	NA	NA	NA
B-19-5.0	5.0	11-22-00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA
B-19-7.0	7.0	11-22-00	2.4	0.02	<0.0050	0.025	0.023	<0.0050	<0.020	NA	NA	NA	NA
Soil Analytical Data by 8015/8021													
TP-3-W	11.0	07-17-96	560	3.1	4.1	11	41	NA	NA	NA	NA	NA	NA
TP-4-E	11.0	07-17-96	2,700	<3.00	44.0	36	210	NA	NA	NA	NA	NA	NA
Soil Analytical Data by 8015/8021													
B-1-5	5.0	05-23-95	63	<0.1	<0.1	0.4	0.1	NA	NA	NA	NA	NA	NA
B-2-5	5.0	05-23-95	260	0.6	<0.1	4.7	10	NA	NA	NA	NA	NA	NA
B-3-6	6.0	05-23-95	150	<0.1	<0.1	0.9	0.4	NA	NA	NA	NA	NA	NA
B-4-6	6.0	05-23-95	55	<0.1	<0.1	0.4	0.2	NA	NA	NA	NA	NA	NA
B-5-8	8.0	05-23-95	830	1.8	9.2	12.0	33	NA	NA	NA	NA	NA	NA
B-6-5	5.0	05-23-95	130	<0.1	<0.1	1.0	1.1	NA	NA	NA	NA	NA	NA
B-6-10	10.0	05-23-95	390	0.3	<0.1	7.3	27	NA	NA	NA	NA	NA	NA
B-7-5	5.0	05-23-95	<20	<0.1	<0.1	1.0	1.1	NA	NA	NA	NA	NA	NA

Table 1. Soil Analytical Data, Former Shell Service Station, 2703 Martin Luther King Jr. Way, Oakland, California

Sample	Depth (feet)	Date Sampled	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	Lead (mg/kg)
B-7-10	10.0	05-23-95	53	<0.1	<0.1	0.2	0.3	NA	NA	NA	NA	NA	NA
B-8-10	10.0	05-23-95	<20	<0.1	<0.1	0.1	<0.1	NA	NA	NA	NA	NA	NA
Soil Analytical Data by 8015/8021													
TP-1-N		10-11-94	18000 [f,g]	100	870	370	2,000.0	NA	NA	NA	NA	NA	NA
TP-2-S		10-11-94	870 [f,g]	2.9	2.1	19	21	NA	NA	NA	NA	NA	NA

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline

BTEX = Benzene, toluene, ethylbenzene, and xylenes

MTBE = Methyl tertiary butyl ether

TBA = Tertiary butyl alcohol

DIPE = Diisopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

Lead analyzed by EPA Method 3050B

<x = Not detected at reporting limit x

NA = Not analyzed

a = Reporting limit raised due to high level of analyte present in sample.

b = Extracted out of hold time.

c = Internal standard out of range.

d = Estimated value. The concentration exceeded the calibration of analysis.

e = Initial analysis within holding time, but required dilution.

f = Heavier gasoline range compounds are significant (aged gasoline?).

g = Gasoline range compounds are significant; no recognizable pattern.

Table 2. Soil Vapor Analytical Data, Former Shell Service Station, 2703 Martin Luther King Jr. Way, Oakland, California

Sample ID	Sample Depth (fbg)	Date Sampled	TPHg ($\mu g/m^3$)	B ($\mu g/m^3$)	T ($\mu g/m^3$)	E ($\mu g/m^3$)	X ($\mu g/m^3$)	Isobutane ($\mu g/m^3$)	Butane ($\mu g/m^3$)	Propane ($\mu g/m^3$)
VP-1-3	3	30-May-07	**5,500,000**	**<510**	690	<690	<2,090	--	--	--
VP-1-5	5	30-May-07	Unable to sample; water in probe							
VP-2-3	3	30-May-07	Unable to sample; water in probe							
VP-2-5	5	30-May-07	Unable to sample; water in probe							
VP-3-3	3	30-May-07	Unable to sample; water in probe							
VP-3-5	5	30-May-07	**31,000,000**	**760**	<75	<86	<256	--	--	--
VP-4-3	3	30-May-07	**800,000**	<79	240	<110	<320	--	--	--
VP-4-5	5	30-May-07	**680,000**	<66	170	<90	<270	--	--	--
VP-5-3	3	30-May-07	Unable to sample; water in probe							
VP-5-5	5	30-May-07	Unable to sample; water in probe							
VP-6-3	3	30-May-07	**3,500,000**	110	320	<55	160	--	--	--
VP-6-3	3	17-Apr-08	<17,000	<2.3	<2.8	<3.2	<9.6	ND	ND	ND
VP-6-5	5	30-May-07	**1,900,000**	<100	410	<140	<420	--	--	--
VP-6-5	5	17-Apr-08	**14,000,000**	3.6	<2.6	<3.0	<9.0	**66.8**	ND	ND
Ambient (at site)	--	30-May-07	<19,000	16	16	<3.1	<9.2	--	--	--
VP-7-3	3	12-Jun-07	**<21,000**	23	7,000	110	241	--	--	--
VP-7-3	3	30-Oct-07	**<19,000**	<2.7	9.6	<3.6	<17.6	657.3	16.6	ND
VP-7-3	3	18-Jan-08	**23,000**	4.3	23	3.4	13.8	ND	ND	ND
VP-7-3	3	17-Apr-08	**<16,000**	<2.2	6.1	<3.0	<9.1	648.95	ND	ND
VP-7-3-DUP	3	17-Apr-08	**<16,000**	<2.2	7.1	<3.0	<9.0	144.53	ND	ND
VP-7-3	**3**	**24-Jul-08**	**<19,000**	<2.7	51	<3.6	<10.8	601.17	10.93	ND
Ambient (near VP-7)	--	**24-Jul-08**	**<16,000**	<2.3	<2.7	<3.1	<9.2	ND	ND	ND
VP-7-5	5	12-Jun-07	**<21,000**	23	2,100	110	230	--	--	--
VP-7-5	5	30-Oct-07	**<18,000**	<2.5	15	<3.4	<16.4	402.4	ND	ND
VP-7-5	5	18-Jan-08	**<20,000**	<2.8	7.9	<3.8	<11.3	105.5	ND	ND
VP-7-5-DUP	5	18-Jan-08	**<19,000**	<2.6	7.6	<3.6	<10.8	66.6	ND	ND
VP-7-5	5	17-Apr-08	**<15,000**	<2.2	7.8	<2.9	<8.8	220.83	25.2	ND

Table 2. Soil Vapor Analytical Data, Former Shell Service Station, 2703 Martin Luther King Jr. Way, Oakland, California

Sample ID	Sample Depth (fbg)	Date Sampled	TPHg ($\mu g/m^3$)	B ($\mu g/m^3$)	T ($\mu g/m^3$)	E ($\mu g/m^3$)	X ($\mu g/m^3$)	Isobutane ($\mu g/m^3$)	Butane ($\mu g/m^3$)	Propane ($\mu g/m^3$)
VP-7-5	**5**	**24-Jul-08**	Unable to sample; water in probe							
VP-8-3	3	12-Jun-07	**<23,000**	20	9,300	120	267	--	--	--
VP-8-3	3	30-Oct-07	**<24,000**	<3.4	34	<4.6	<22.6	395.1	7.8	ND
VP-8-3-DUP	3	30-Oct-07	**<18,000**	<2.6	6.5	<3.5	<17.5	366.6	ND	ND
VP-8-3	3	18-Jan-08	**<18,000**	<2.6	7.2	<3.5	<10.4	128.6	ND	ND
VP-8-3	3	17-Apr-08	**<16,000**	<2.3	7.1	<3.1	<9.3	666.54	57.29	ND
VP-8-3	**3**	**24-Jul-08**	**<18,000**	<2.5	290	14	38	ND	ND	ND
VP-8-3-DUP	**3**	**24-Jul-08**	**<19,000**	<2.6	210	11	28.9	6.42	ND	ND
VP-8-5	5	12-Jun-07	**<22,000**	33	11,000	120	278	--	--	--
VP-8-5	5	30-Oct-07	**<19,000**	<2.6	8.5	<3.6	<17.6	468.3	5.9	ND
VP-8-5	5	18-Jan-08	**<19,000**	<2.6	5.7	<3.5	<10.5	ND	ND	ND
VP-8-5	5	17-Apr-08	**<17,000**	11	<1.9	<3.2	<9.6	59.43	9.98	ND
VP-8-5	**5**	**24-Jul-08**	**<17,000**	<2.4	630	29	76	10.22	7.84	ND
VP-9-5	**5**	**08-Aug-08**	280	<3.9	17	<5.2	<10.4	ND	ND	ND
Ambient (near VP-9)	--	**08-Aug-08**	280	<3.2	<3.8	<4.4	<8.8	ND	ND	ND
Trip Blank	--	**24-Jul-08**	**<11,000**	<1.6	<1.9	<2.2	<6.5	ND	ND	ND
Trip Blank	--	**08-Aug-08**	<100	<1.6	<1.9	<2.2	<4.4	ND	ND	ND
Environmental Screening Levels SFBRWQCB, November 2007	**Commercial**	**29,000**	**280**	**180,000**	**3,300**	**58,000**	--	--	--
	Residential	**10,000**	**84**	**63,000**	**920**	**21,000**	--	--	--

Abbreviations and Notes:

Results in **bold** exceed Environmental Screening Level

fbg = Feet below grade

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

<x = Not detected at reporting limit x

ND = Not detected

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

BTEX = Benzene, tolunene, ethylbenzene, and xylenes by Modified EPA Method TO-15

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

Attachment A

Site History

ATTACHMENT A
Site History
Former Shell Service Station
2703 Martin Luther King Jr. Drive
Oakland, CA

PREVIOUS WORK

1994 UST Removal: The 2,000-gallon UST was removed on October 11, 1994 by KTW & Associates on behalf of ATW. Two soil samples (TP-1-N and TP-2-S) were collected from beneath the tank. Chemical analysis of the soil samples identified the presence of total petroleum hydrocarbons as gasoline (TPHg) at concentrations ranging from 870 milligrams per kilogram (mg/kg) to 18,000 mg/kg. Benzene concentrations in these samples ranged from 2.9 to 100 mg/kg. The tank pit remained open until March 19, 1996 when the excavation was back-filled subsequent to over-excavation by a Shell contractor.

1995 Phase I Environmental Site Assessment (ESA): In August and September 1995, Enviros Inc. (Enviros) performed a Phase I ESA for this site. Available information collected during this ESA indicates that the subject property was occupied by residential housing prior to approximately 1959. A building permit to erect a building was obtained for Shell Oil Company in February 1959. A building permit to "close lube bays with sheet metal panels" was secured for Shell Oil Company in July 1976.

In 1979, several building permits were secured for Acme to modify existing site structures. Two building permits were secured in 1979 related to the installation of a fuel pump at the site.

During a site survey in conjunction with the Phase I ESA, an excavation was observed near the southwest corner of the service building. The excavation was covered by a blue tarp. This excavation's location is consistent with that of the 2,000-gallon UST removed in 1994 by ATW, and with a large concrete slab observed in aerial photographs taken in 1971 and 1973, and a smaller concrete slab observed in aerial photographs taken in 1981 and 1985. The larger concrete slab observed in the aerial photographs was likely covering the USTs operated by Shell, and the smaller slab was likely covering the UST operated by Acme, confirming that the same location was used for both UST complexes.

1995 Subsurface Investigation: A site assessment was performed by ACC Environmental Consultants on May 23, 1995. This included drilling nine soil borings (B-1 through B-9) using a pneumatic sampling tool in the vicinity of the excavation (which formerly housed both Shell's and Acme's USTs) and the product dispenser islands, and collecting soil and groundwater samples for chemical analysis. TPHg concentrations in soil samples ranged from <20.0 to 830 mg/kg. Benzene concentrations ranged from <1.0 to 1.8 mg/kg. Separate phase hydrocarbons (SPH) were identified in water samples collected from four of the soil borings (B-1, B-5, B-6, and B-9). TPHg concentrations in the non-SPH grab groundwater samples submitted

for chemical analysis ranged from <50 to 89,000 micrograms per liter (µg/l). Benzene concentrations in the grab groundwater samples ranged from <0.5 to 21,000 µg/l.

1996 Over-Excavation: Over-excavation and back-filling of Acme's former UST excavation were performed on March 19, 1996. The excavation, originally left open to 9 fbg, was over-excavated to approximately 11 fbg. Two soil samples (TP-3-W and TP-4-E) were collected from the bottom of the over-excavated former UST area. Soil sample TP-3-W, collected from the western end of the excavation, contained 560 mg/kg TPHg, and 3.1 mg/kg benzene. Soil sample TP-4-E, collected from the eastern end of the excavation, contained 2,700 mg/kg TPHg and <3.0 mg/kg benzene. The excavation was back-filled with clean imported fill material. Soil sampling and back-filling activities are documented in Enviros' May 10, 1996 correspondence.

1996 Subsurface Investigation: In July 1996, Enviros performed additional site assessment activities. Six exploratory borings (B-10, B-11, B-12, B-13, V-1, and V-2) were drilled and sampled on July 17 and 19, 1996 using a hollow-stem auger drill rig. 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, respectively. Soil sampling was not performed in boring V-1 due to the fact that it was installed into the back-fill material within the former UST excavation. A soil sample from below the saturated zone in boring V-2 was submitted for physical parameter analyses (porosity, permeability, fractional organic carbon content, and dry bulk density).

TPHg and benzene were not detected in soil samples collected from MW-1 (B-11), MW-2 (B-12), and B-13. TPHg was detected in soil samples collected from B-10 and V-2 at concentrations of 1.7 and 110 mg/kg, respectively. Benzene concentrations in soil samples from B-10 and V-2 were <0.0050 and 0.29 mg/kg, respectively.

Grab groundwater samples were collected from borings B-10, B-12 (MW-2), and B-13 at the depth of first encountered groundwater (approximately 8 to 11 fbg) for chemical analysis. Boring B-11 (MW-1) did not yield sufficient groundwater for grab groundwater sample collection. Monitoring wells MW-1 and MW-2 were developed and sampled on August 2, 1999 by Blaine Tech Services (Blaine) of San Jose, CA. TPHg concentrations in the groundwater samples ranged from <50 to 290,000 µg/l. Benzene concentrations ranged from <0.50 to 34,000 µg/l.

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 onsite. 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) 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: In late 2000, Cambria performed a sensitive receptor survey which attempted to identify wells and underground utility conduits. Cambria obtained utility conduit maps from the City of Oakland Engineering Department to locate and map underground utility conduits which may act as preferential pathways for contaminant migration from the site. These conduit trenches are typically back-filled with materials which are more permeable than the surrounding native soils, therefore providing a path of least resistance for petroleum hydrocarbon migration within the local groundwater. Using these maps, Cambria identified the sanitary and storm sewer systems as the only utility conduits in the site vicinity which may act as preferential pathways. All other utilities are typically buried at depths which are shallower than those of the sewer systems. 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. Groundwater depth onsite historically ranges from approximately 4.5 to 10 fbg. However, since the typical groundwater flow direction onsite 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 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.

2000 Subsurface Investigation: In November 2000, Cambria installed three soil borings (B-17, B-18 and B-19) and three groundwater monitoring wells (MW-3, MW-4 and MW-5). Up to 2,100 mg/kg TPHg and 3.3 mg/kg benzene were reported in soil samples collected. No TPHg or benzene was detected in soil samples collected from well MW-3. Except for 0.0070 mg/kg detected in soil sample B-18-7.0, no methyl tertiary butyl ether (MTBE) was detected in any of the analyzed soil samples. Tertiary butyl alcohol (TBA) was detected in soil samples MW-4-5.0 and B-19-5.0 at concentrations of 0.0079 and 0.0059 mg/kg, respectively.

Grab groundwater samples were collected from borings B-17 through B-19 at first encountered groundwater for analyses during the investigation. TPHg concentrations in grab water samples collected from the borings ranged from 58,000 to 190,000 µg/l. Benzene concentrations ranged from 4,400 to 13,000 µg/l. MTBE was detected in groundwater at concentrations of 16 and

300 µg/l from B-19 and B-17, respectively, and TBA was detected at 240 µg/l in B-19 only. No SPH was observed during the investigation.

2001 Oxygen Releasing Compound (ORC) Installation: As approved by the (ACHCSA), Blaine installed ORCs in wells V-1 and V-2 during the second quarter monitoring event on May 2, 2001. ORCs were removed during the fourth quarter 2001 monitoring event. MTBE has not been detected in these two wells since the ORCs were installed.

2002 Site Investigation: In April 2002, Cambria installed borings B-20 through B-22. Groundwater was first encountered in the borings between 8.0 fbg (B-20) and 8.8 fbg (B-21 and B-22). The maximum TPHg and benzene concentrations detected in soil were 380 and 0.17 mg/kg, respectively, in the soil sample collected from 8.0 fbg in boring B-22, located behind the station building. No TPHg was detected in soil samples collected from boring B-21. No MTBE was detected in any of the analyzed soil samples collected from borings B-20, B-21, or B-22. Up to 160,000 µg/l TPHg and 18,000 µg/l benzene were reported in grab groundwater samples collected from borings B-20, B-21, and B-22. No MTBE was detected in grab groundwater samples collected from the borings. The complete report of findings was included in Cambria's June 21, 2002 *Site Investigation Report*. This document included recommendations for additional activities; however, a response from ACHCSA was never received.

2003 - 2005 Oxygen Releasing Compound (ORC) Installation: Although agency approval was not received, Shell proactively installed ORC in wells MW-5 and V-2 during first quarter of 2003. The ORCs were replaced on a semi-annual basis. The use of ORC was discontinued during the first quarter 2005, at Shell's request.

May 2005 Agency Meeting: Since no agency response was received to the June 2002 *Site Investigation Report* that contained recommendations for additional investigation, and since monitoring continued to indicate elevated concentrations of volatile constituents in groundwater, Shell authorized Cambria to prepare a work plan to investigate subsurface soil, groundwater, and soil vapor conditions along the property boundaries and at select locations on site. A new case worker was assigned to this project in early 2005, and following a meeting with the new case worker, technical comments and work plan approval were received in ACEH correspondence dated June 6, 2005. On August 15, 2005, Cambria submitted correspondence providing responses to the technical comments, notification of field work, and a request for extension for the report of findings. In correspondence dated August 19, 2005, ACEH granted the extension.

2005 Soil Vapor Investigation: From August 28 through 31, 2005, Cambria installed ten soil borings (GP-1 through GP-10). In soil, TPHg was detected from borings GP-1 at 10.0 fbg, GP-2 at 4.5 fbg, GP-3 at 5.0 and 8.5 fbg, GP-6 at 9.5 fbg, and GP-7 at 9.5 fbg at concentrations ranging from 1.5 to 3,300 mg/kg and benzene was detected from borings GP-2 at 4.5 fbg, and GP-3 at 5.0

and 8.5 fbg at concentrations ranging from 0.027 to 15 mg/kg. In groundwater, TPHg was detected in all four borings (GP-1, GP-3, GP-6, and GP-7) at concentrations ranging from 9,100 to 140,000 µg/l and benzene was also detected in all four groundwater samples at concentrations ranging from 320 to 17,000 µg/l. Soil vapor samples were collected from each boring and TPHg was detected in GP-1 through GP-10 at concentrations ranging from 350 to 71,000,000 micrograms per cubic meter (ug/m^3). Benzene was detected in soil samples collected from borings GP-1 through GP-3 and GP-5 through GP-10 at concentrations ranging from <4.1 to 170,000 ug/m^3. A complete discussion and presentation of these activities and findings is included in Cambria's November 15, 2005 *Site Investigation Report*. This report also included recommendations for performing a door-to-door survey within 300 feet of the site to confirm basement locations, building construction, and potential sources; preparing work plans for pilot testing and plume delineation. Cambria submitted the November 22, 2005 *Feasibility Study Work Plan* and the December 16, 2005 *Plume Delineation Work Plan*, which Alameda County Environmental Health (ACEH) staff approved in their December 29, 2005 correspondence.

December 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. Tabulated data and a list of properties included in the survey, and which completed surveys were received was included in our *Door to Door Survey Report, Access Agreement Update, and Status/Schedule Update* submittal dated January 15, 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. Responses for the other 10 properties were either left blank, marked as unknown, or the response was contradictory or unclear. Regarding underground storage tanks, 17 responses were negative, four responses were marked as "unknown", and four responses were left blank. With the exception of the monitoring wells at the subject site, no wells were identified through the survey activities.

January 2006 – Subsurface Investigation: On January 3 and 4, 2006, Cambria advanced three monitoring wells (MW-6 through MW-8), one soil boring (B-23), and six soil vapor probes (VP-1 through VP-6). In soil, TPHg was detected from borings MW-6 at 10.0 and 15.5 fbg, MW-7 at 11.5 and 16.5 fbg, MW-8 at 10.5 and 19 fbg, and B-23 at 10, 15.5, and 19.5 fbg at concentrations ranging from 7.1 to 3,800 mg/kg. Benzene was detected from borings MW-6 at 19.5 fbg, MW-8 at 19.5 fbg, and B-23 at 15.5 and 19.5 fbg at concentrations ranging from 0.0090 to 33 mg/kg. The vapor probes were not installed due to saturated soil conditions. A complete discussion and

presentation of these activities and findings is included in Cambria's April 14, 2006 *Site Investigation Report, and First Quarter 2006 – Groundwater Monitoring Report*.

January 2006 – DPE Pilot Test: Cambria conducted a five-day dual-phase extraction pilot test the week of January 16, 2006. The details and results were presented in Cambria's *Pilot Test Report* dated March 14, 2006. DPE was performed on wells V-1, V-2, MW-6, MW-7, MW-4, MW-5, and MW-8. On January 20, 2006, a constant vacuum DPE test was conducted 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.

February 2006 – Install Offsite Wells MW-12 and MW-14: The December 20, 2005 *Plume Delineation Work Plan* proposed offsite activities including the installation of seven offsite monitoring wells and eight soil vapor probes. Based on responses from only two of the offsite property owners, Cambria completed a portion of the scope of work recommended. Monitoring wells MW-12 and MW-14 were installed at two offsite properties to 20 and 14.5 fbg, respectively. Groundwater was first encountered during drilling activities in borings MW-12 and MW-14 at 14.0 and 11.0 fbg, respectively. None of the soil samples from well MW-12 indicated the presence of any TPHg or BTEX. The 5-fbg sample from MW-14 also did not contain any reportable concentrations. TPHg was reported in the 10- and 14-fbg samples from MW-14 at concentrations of 32 and 970 mg/kg, respectively. Benzene was reported in the same two samples at concentrations of 0.0083 and 2.3 mg/kg, respectively. Fuel oxygenates were requested on the 10-fbg and 14-fbg soil samples from MW-14, and none were reported above the detection limits. These activities are documented in Cambria's May 25, 2006 *Subsurface Investigation Report.*

April 2006 – Survey and Site Visit: In addition to surveying the new wells, Cambria identified historical boring locations from patches on the ground surface, historical excavation edges, trenches, and other site features, and requested that they be included in the survey. Report figures since May 2006 have included the new survey data. Also, during the site visit, an inspection inside the building identified two bathrooms. 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. Thus, a sample from the floor drain was collected and submitted for analyses of volatile organic compounds (VOCs) by EPA Method 8260 and semi-volatile organic compounds (SVOCs) by EPA Method 8270. The floor drain sample was analyzed for VOCs and SVOCs. The results indicated the presence of carbon disulfide (3.69 µg/l), ethylbenzene (0.610 µg/l) and toluene (0.770 µg/l). This information was reported in Cambria's May 25, 2006 *Subsurface Investigation Report.*

May 2006 – Geophysical Survey: As recommended in Cambria's May 25, 2006 *Subsurface Investigation Report,* a geophysical study was performed on May 22, 2006. The objectives of this effort were to determine whether or not a waste oil UST was in the ground in the northwest portion of the property, and to evaluate the presence of subsurface utilities in this area that may 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. The results did not identify the presence of a UST on the northwest corner of the site, but did find another 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 dual-phase extraction pilot test performed in January 2006. NORCAL was unable to run a line down the floor drain inside of the building due to the trap in the line, so the sewer cleanout was found on the exterior of the building. Accessing the cleanout would have resulted in damage to the cap, and the property owner would not grant permission for Cambria to open the cleanout and repair any damage. Thus, the location, direction, and depth of the sewer line in this area are still unknown. However, based on the GPR survey that was performed to try to locate a non-metallic sewer line, NORCAL concludes that the sewer line may be more than 4 feet below grade, since the GPR was unable to identify the line. This information was presented in Cambria's July 25, 2006 *Status Update, Report of Geophysical Survey, and Request for Agency Meeting.*

ATTACHMENT A
Site History
Former Shell Service Station
2703 Martin Luther King Jr. Drive
Oakland, CA

August 2006 – Agency Meeting: On August 2, 2006, a meeting between Shell and the ACEH was held to discuss results of recent activities, the status of pending activities, and an agreed upon course for proposed additional activities. During that meeting, the parties agreed to a scope of work, which was presented in Cambria's August 31, 2006 *Subsurface Investigation Work Plan*. The objectives detailed in that work plan were to:

- Obtain detailed lithologic information onsite and offsite by continuous sampling using electronic logging by cone penetration testing (CPT) technique in five onsite and five offsite borings labeled CPT-1 through CPT-10;
- Collect shallow soil gas samples from approximately 5 feet below grade (fbg) near offsite monitoring well MW-14 (CPT-8);
- Obtain groundwater samples from first encountered groundwater from areas where wells have not been installed (CPT-5 through CPT-7, CPT-9, and CPT-10);
- Collect groundwater from deeper within the first aquifer at all locations from approximately 20-25 fbg, depending on the CPT log results;
- Collect groundwater samples from a deeper interval at select locations for vertical groundwater profiling (CPT-4, CPT-6, CPT-8, and CPT-9);
- Install the onsite vapor probes to allow for the future collection of soil gas samples near the western property boundary;
- Collect ambient air samples from the above-ground basement area at 664 27th Street for chemical analysis.

This scope of work was approved by the ACEH in correspondence dated September 5, 2006.

October 2006 – CPT-1 through CPT-5 and VP-1 through VP-6: Cambria installed CPT-1 through CPT-5 and VP-1 through VP-6 on the subject site. Offsite borings were not successful due to concerns about property damage (CPT-8 and CPT-9), and utility conflicts (CPT-6 and CPT-7), and lack of access agreement (CPT-10). There was a lack of adequate groundwater recharge for many of the groundwater samples attempted between 15 and 29 fbg. Groundwater sample results from between 31-37 fbg confirm significant attenuation of contaminants of at least one order of magnitude from the interval monitored by the site wells (5-20 fbg), thus nor further vertical delineation is warranted. Comparison of data from 1995, 2000, and 2006 in similar location (B-6 & B-9, B-19, and CPT-5, respectively) demonstrates attenuation of contaminant concentrations over time is occurring. The six onsite vapor probes could not be sampled due to the presence of water in some of the probes. 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 above-ground basement was no longer warranted. These activities are documented in Cambria's January 31, 2007 *CPT Investigation and Vapor Probe Installation Report*.

ATTACHMENT A
Site History
Former Shell Service Station
2703 Martin Luther King Jr. Drive
Oakland, CA

May – June 2007 – CPT-6, CPT-7, CPT-10,VP-7, and VP-8: Conestoga-Rovers & Associates (CRA) installed CPT-6 and CPT-7 within 27th Street southwest of the site, CPT-10 on the Marcus-Foster school property northwest of the site, and VP-7 and VP-8 on private properties west-northwest of the site. The CPT logs identified thin lithologic units of higher permeability that appear to be allowing preferential migration of contaminants in groundwater toward MW-14 and CPT-10. Further delineation and monitoring of the first encountered water zone to the northwest and west of the site was recommended. Soil vapor samples collected from onsite probes indicated petroleum hydrocarbon concentrations exceeding screening levels for protection of onsite commercial workers. Soil vapor samples collected from offsite 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 downgradient do no exceed the residential ESLs. Results of the investigation are documented in CRA's August 27, 2007 *Plume Delineation and Soil Vapor Sampling Report*.

February 2005 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 followed by a bio-sparge curtain to assist biodegradation was recommended as remedial action for the site. A *Remedial Action Plan* was submitted by CRA on May 28, 2008 detailing the excavation and bio-sparging.

1996 to Present – Ongoing Groundwater Monitoring: Quarterly groundwater monitoring has been ongoing at the site since August 1996 and currently includes onsite monitoring wells MW-1 through MW-8, VP-1, and VP-2, and offsite monitoring wells MW-12 and MW-14. Fuel oxygenates are not a significant component of the groundwater plumes, although some detections of di-isopropyl ether and tertiary butyl alcohol have been observed. Overall, the groundwater flow direction is primarily to the west, with some radial components on site 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. Maximum historical concentrations of TPHg and benzene have been observed in onsite monitoring well MW-5. The Second Quarter 2008 sample event (May) reported maximum concentrations of TPHg and benzene at 130,000 and 8,200 µg/l, respectively in well MW-5. Downgradient monitoring well MW-14 reported TPHg and benzene at 16,000 and 830 µg/l, respectively, for this same event.

2007 to Present – Ongoing Vapor Monitoring: Quarterly vapor monitoring of the offsite soil vapor probes VP-7 and VP-8 has been ongoing at the site since October 2007. BTEX concentrations in soil vapor samples have consistently been below applicable screening levels in offsite vapor probes.

Attachment B

Permits

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: 07/08/2008 By jamesy

Permit Numbers: W2008-0412 to W2008-0416
Permits Valid from 07/22/2008 to 07/25/2008

Application Id: 1215120509133
Site Location: 2703 Martin Luther King Way
Project Start Date: 07/22/2008
Requested Inspection: 07/22/2008
Scheduled Inspection: 07/22/2008 at 3:00 PM (Contact your inspector, Vicky Hamlin at (510) 670-5443, to confirm.)

City of Project Site: Oakland
Completion Date: 07/25/2008

Applicant: Conestoga-Rovers & Associates - Erin Reinhart-Koylu
5900 Hollis St., Suite A, Emeryville, CA 94608
Phone: 510-420-3372

Property Owner: Timothy White
2850 West St., Oakland, CA 94608
Phone: --

Client: ** same as Property Owner **

Contact: Erin Reinhart-Koylu
Phone: 510-420-3372
Cell: 510-385-0074

Total Due: $1725.00
Receipt Number: WR2008-0236 **Total Amount Paid:** $1725.00
Payer Name : Conestoga-Rovers & Associates Paid By: CHECK
PAID IN FULL

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 3 Wells
Driller: Gregg Drilling - Lic #: 485165 - Method: auger

Work Total: $1035.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2008-0412	07/08/2008	10/20/2008	MW-10	8.00 in.	2.00 in.	3.00 ft	20.00 ft
W2008-0413	07/08/2008	10/20/2008	MW-11	8.00 in.	2.00 in.	3.00 ft	20.00 ft
W2008-0414	07/08/2008	10/20/2008	MW-9	8.00 in.	2.00 in.	3.00 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. Permitte, 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 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 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. 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.

7. Minimum surface seal thickness is two inches of cement grout placed by tremie

8. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

9. 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.

Well Construction-Vapor Monitoring Well-Vapor Monitoring Well - 2 Wells
Driller: Gregg Drilling - Lic #: 485165 - Method: auger **Work Total: $690.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2008-0415	07/08/2008	10/20/2008	VP-10	3.50 in.	0.25 in.	4.50 ft	5.00 ft
W2008-0416	07/08/2008	10/20/2008	VP-9	3.50 in.	0.25 in.	4.50 ft	5.00 ft

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Permitte, 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 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. 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.

7. Minimum surface seal thickness is two inches of cement grout placed by tremie

8. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

9. 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.

Attachment 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	Clean Gravels (≤5% fines)		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

Conestoga-Rovers & Associates
1420 80th Street, SW, Suite A
Everett, Washington 98203
Telephone: 425-212-5100
Fax: 425-212-5199

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	VP-9
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	23-Jul-08
LOCATION	2703 Martin Luther King Jr. Way, Oakland, CA	**DRILLING COMPLETED**	23-Jul-08
PROJECT NUMBER	0781	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	31.17 ft above msl
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3.5"	**SCREENED INTERVAL**	4.625 to 4.875 fbg
LOGGED BY	E. Reinhart-Koylu	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	A. Friel, PG 6452	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Located at 2721 Martin Luther King Jr Way.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0					ML		**SILT (ML)**; black (2.5Y 2.5/1); dry; 20% clay, 75% silt, 5% sand; medium plasticity; fill including glass, plastic, and trash to 1.5 fbg.		1/4-diameter Tephlon tubing
0		VP-9-4.5		5			@ 5' - 35% clay, 60% silt, 5% sand.	5.2	Bentonite Seal Monterey Sand #2/12 3" length stainless steel screen Bottom of Boring @ 5.17 ft
				10					

WELL LOG (PID) I:\SONOMA~1.SHE\OAFEB7~1\GINT\0781.GPJ DEFAULT.GDT 9/4/08

Attachment D

Certified Analytical Reports

Calscience Environmental Laboratories, Inc.

July 30, 2008

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

Subject: **Calscience Work Order No.: 08-07-2330**
Client Reference: 2703 MLK, Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/26/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

EPA TO-15 Tentatively Identified Compound (TIC)

	Isobutane (CAS Number 75-28-5)		Butane (CAS Number 106-97-8)		Propane (CAS Number 74-98-6)	
Client Sample ID:	**Estimated Conc. (ug/m3)**	**RT (min)**	**Estimated Conc. (ug/m3)**	**RT (min)**	**Estimated Conc. (ug/m3)**	**RT (min)**
VP-8-5'	10.22	5.28	7.84	5.62	ND	NA
VP-8-3'	ND	NA	ND	NA	ND	NA
VP-8-3' DUP	6.42	5.28	ND	NA	ND	NA
VP-7-3'	601.17	4.81	10.93	5.59	ND	NA
Ambient Air	ND	NA	ND	NA	ND	NA
Trip Blank	ND	NA	ND	NA	ND	NA

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	07/26/08
5900 Hollis Street, Suite A		Work Order No:	08-07-2330
Emeryville, CA 94608-2008		Preparation:	N/A
		Method:	EPA TO-3M

Project: 2703 MLK, Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-8-5'	**08-07-2330-1-A**	**07/24/08 00:00**	**Air**	**GC 39**	**N/A**	**07/26/08 20:43**	**080726L02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	17000	1.51		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-8-3'	**08-07-2330-2-A**	**07/24/08 12:20**	**Air**	**GC 39**	**N/A**	**07/26/08 20:53**	**080726L02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	18000	1.57		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-8-3' Dup	**08-07-2330-3-A**	**07/24/08 13:16**	**Air**	**GC 39**	**N/A**	**07/26/08 21:03**	**080726L02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	19000	1.63		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-7-3'	**08-07-2330-4-A**	**07/24/08 15:03**	**Air**	**GC 39**	**N/A**	**07/26/08 21:14**	**080726L02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	19000	1.66		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Ambient Air	**08-07-2330-7-A**	**07/24/08 15:31**	**Air**	**GC 39**	**N/A**	**07/26/08 21:30**	**080726L02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	16000	1.41		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Trip Blank	**08-07-2330-8-A**	**07/24/08 15:40**	**Air**	**GC 39**	**N/A**	**07/26/08 21:43**	**080726L02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	11000	1		ug/m3

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	07/26/08
5900 Hollis Street, Suite A	Work Order No:	08-07-2330
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	EPA TO-3M

Project: 2703 MLK, Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**098-01-005-1,411**	**N/A**	**Air**	**GC 39**	**N/A**	**07/26/08 17:21**	**080726L02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	11000	1		ug/m3

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	07/26/08
5900 Hollis Street, Suite A		Work Order No:	08-07-2330
Emeryville, CA 94608-2008		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: 2703 MLK, Oakland, CA			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-8-5'	**08-07-2330-1-A**	**07/24/08 00:00**	**Air**	**GC/MS ZZ**	**N/A**	**07/27/08 15:50**	**080727L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.4	1.51		p/m-Xylene	52	6.6	1.51	
Toluene	630	11	6.04		o-Xylene	24	3.3	1.51	
Ethylbenzene	29	3.3	1.51		Methyl-t-Butyl Ether (MTBE)	ND	11	1.51	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	98	57-129			1,2-Dichloroethane-d4	102	47-137		
Toluene-d8	103	78-156							

VP-8-3'	**08-07-2330-2-A**	**07/24/08 12:20**	**Air**	**GC/MS ZZ**	**N/A**	**07/27/08 16:50**	**080727L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.5	1.57		p/m-Xylene	25	6.8	1.57	
Toluene	290	3.0	1.57		o-Xylene	13	3.4	1.57	
Ethylbenzene	14	3.4	1.57		Methyl-t-Butyl Ether (MTBE)	ND	11	1.57	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	99	57-129			1,2-Dichloroethane-d4	102	47-137		
Toluene-d8	103	78-156							

VP-8-3' Dup	**08-07-2330-3-A**	**07/24/08 13:16**	**Air**	**GC/MS ZZ**	**N/A**	**07/27/08 17:48**	**080727L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.6	1.63		p/m-Xylene	19	7.1	1.63	
Toluene	210	3.1	1.63		o-Xylene	9.9	3.5	1.63	
Ethylbenzene	11	3.5	1.63		Methyl-t-Butyl Ether (MTBE)	ND	12	1.63	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	57-129			1,2-Dichloroethane-d4	100	47-137		
Toluene-d8	101	78-156							

VP-7-3'	**08-07-2330-4-A**	**07/24/08 15:03**	**Air**	**GC/MS ZZ**	**N/A**	**07/27/08 18:47**	**080727L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.7	1.66		p/m-Xylene	ND	7.2	1.66	
Toluene	51	3.1	1.66		o-Xylene	ND	3.6	1.66	
Ethylbenzene	ND	3.6	1.66		Methyl-t-Butyl Ether (MTBE)	ND	12	1.66	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	96	57-129			1,2-Dichloroethane-d4	99	47-137		
Toluene-d8	102	78-156							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 07/26/08
Work Order No: 08-07-2330
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 2703 MLK, Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Ambient Air	**08-07-2330-7-A**	**07/24/08 15:31**	**Air**	**GC/MS ZZ**	**N/A**	**07/28/08 13:19**	**080728L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.3	1.41		p/m-Xylene	ND	6.1	1.41	
Toluene	ND	2.7	1.41		o-Xylene	ND	3.1	1.41	
Ethylbenzene	ND	3.1	1.41		Methyl-t-Butyl Ether (MTBE)	ND	10	1.41	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	94	57-129			1,2-Dichloroethane-d4	103	47-137		
Toluene-d8	102	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Trip Blank	**08-07-2330-8-A**	**07/24/08 15:40**	**Air**	**GC/MS ZZ**	**N/A**	**07/28/08 14:04**	**080728L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		p/m-Xylene	ND	4.3	1	
Toluene	ND	1.9	1		o-Xylene	ND	2.2	1	
Ethylbenzene	ND	2.2	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	96	57-129			1,2-Dichloroethane-d4	100	47-137		
Toluene-d8	105	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-09-002-7,434**	**N/A**	**Air**	**GC/MS ZZ**	**N/A**	**07/27/08 14:51**	**080727L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		p/m-Xylene	ND	4.3	1	
Toluene	ND	1.9	1		o-Xylene	ND	2.2	1	
Ethylbenzene	ND	2.2	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	57-129			1,2-Dichloroethane-d4	102	47-137		
Toluene-d8	101	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-09-002-7,435**	**N/A**	**Air**	**GC/MS ZZ**	**N/A**	**07/28/08 12:18**	**080728L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		p/m-Xylene	ND	4.3	1	
Toluene	ND	1.9	1		o-Xylene	ND	2.2	1	
Ethylbenzene	ND	2.2	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	94	57-129			1,2-Dichloroethane-d4	102	47-137		
Toluene-d8	101	78-156							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

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

Date Received:	07/26/08
Work Order No:	08-07-2330
Preparation:	N/A
Method:	EPA TO-3M

Project: 2703 MLK, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
08-07-2352-21	**Air**	**GC 39**	**N/A**	**07/26/08**	**080726D02**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	43000	42000	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Conestoga-Rovers & Associates		Date Received:	N/A
5900 Hollis Street, Suite A		Work Order No:	08-07-2330
Emeryville, CA 94608-2008		Preparation:	N/A
		Method:	EPA TO-15

Project: 2703 MLK, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-09-002-7,434	**Air**	**GC/MS ZZ**	**N/A**	**07/27/08**	**080727L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	90	93	60-156	3	0-40	
Toluene	89	91	56-146	2	0-43	
Ethylbenzene	89	91	52-154	2	0-38	
p/m-Xylene	85	87	42-156	2	0-41	
o-Xylene	86	88	52-148	3	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Conestoga-Rovers & Associates		Date Received:	N/A
5900 Hollis Street, Suite A		Work Order No:	08-07-2330
Emeryville, CA 94608-2008		Preparation:	N/A
		Method:	EPA TO-15

Project: 2703 MLK, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-09-002-7,435	**Air**	**GC/MS ZZ**	**N/A**	**07/28/08**	**080728L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	93	90	60-156	3	0-40	
Toluene	92	88	56-146	5	0-43	
Ethylbenzene	94	89	52-154	5	0-38	
p/m-Xylene	91	86	42-156	6	0-41	
o-Xylene	92	87	52-148	5	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-07-2330

Qualifier	Definition
*	See applicable analysis comment.
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 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 with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	A Marginal Exceedance (ME) is defined as a LCS percent recovery beyond the normal 3 standard deviation Control Limits but still within the marginal exceedance limits (set at 4 standard deviations from the mean)
N	Nontarget Analyte.
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.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

SHELL Chain Of Custody Record

LAB: TA

- ☐ TA - Irvine, California
- ☐ TA - Morgan Hill, California
- ☐ TA - Sacramenta, California
- ☐ TA - Nashville, Tennesee
- ☑ Calscience
- ☐ Other_____

NAME OF PERSON TO BILL: Denis Brown

- ☑ ENVIRONMENTAL SERVICES
- ☐ NETWORK DEV / FE
- ☐ BILL CONSULTANT
- ☐ COMPLIANCE
- ☐ RMT/CRMT

☐ CHECK BOX TO VERIFY IF NO INCIDENT # APPLIES

INCIDENT # (ES ONLY): 9 7 0 9 3 3 9 7

PO #:

SAP or CRMT #:

Date: 7/24/08

PAGE: 1 of 1

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS: Street and City	State	GLOBAL ID NO.:
Conestoga-Rovers & Associates (CRA)	CRAW	2703 MLK, Oakland	CA	T0600101876

ADDRESS:	EDF DELIVERABLE TO (Name, Company, Office Location):	PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
5900 Hollis St, Suite A, Emeryville, CA 94608	Ballard, Felicia, CRA, Sonoma	707.933.2360	sonomaedf@craworld.com	240781-2008-10

PROJECT CONTACT (Hardcopy or PDF Report to):	TELEPHONE:	FAX:	E-MAIL:
Ana Friel	707 268 3812	707 268 8180	afriel@craworld.com

SAMPLER NAME(S) (Print): Carmen Rodriguez

LAB USE ONLY: 07-2330

TAT (STD IS 10 BUSINESS DAYS / RUSH IS CALENDAR DAYS): ☐ STD ☐ 5 DAY ☑ 3 DAY ☐ 2 DAY ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

SPECIAL INSTRUCTIONS OR NOTES:

- ☐ EDD NOT NEEDED
- ☑ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMB RATE APPLIES
- ☑ RECEIPT VERIFICATION REQUESTED

please report results in µg/m3

No partial lab reports, send final PDF report only.

REQUESTED ANALYSIS

FIELD NOTES:
Container/Preservative or PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPHg (TO-3)	TPHd - Extractable (8015M)	BTEX (T0-15)	MTBE (TO-15)	TBA (TO-15)	O2, CO2, & Methane	Isobutane, butane, & propane (TO-15, GC/MS)	TEMPERATURE ON RECEIPT C°
1	VP-8-5'	7/24		Air	1	X		X	X			X	LC 370
2	VP-8-3'	7/24	1220										LC 305
3	VP-8-3' Dup		1316										LC 226
4	VP-7-3'		1503										LC 123
5	Purge 1		—										LC 315
6	Purge 2		—										LC 048
7	Ambient Air		1531			X		X	X			X	LC 034
8	Trip Blank		1540			X		X	X			X	LC 063
													LC 063

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Carmen Rodriguez	Secure location	7/24/08	1640
Jennifer Mendoza 1730	Tom O'Malley CEL	7/25/08	1435
Tom O'Malley TO GSO 7/25/08	CEL	7-26-08	9:40

TRK#: 510057567 510057915
510054363
510054356

05/02/06 Revision

Q&Q Graphic (714) 898-9702

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 07 - 2330

~~Cooler~~ BOX 1 of 4

SAMPLE RECEIPT FORM

CLIENT: CRA **DATE:** 07-26-08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature (For Air & Filter only).

___ ___.___ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

___ ___.___ °C Temperature blank.
___ ___.___ °C IR thermometer.
✓ Ambient temperature (For Air & Filter only).
SUMA CAN

Initial: TD

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: TD

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: TD

COMMENTS:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 07 - 2330

~~Cooler~~ BOX 2 of 4

SAMPLE RECEIPT FORM

CLIENT: CBA **DATE:** 07-26-08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature (For Air & Filter only).

___ ___.___ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

___ ___.___ °C Temperature blank.
___ ___.___ °C IR thermometer.
✓ Ambient temperature (For Air & Filter only).
SUMA CAN

Initial: TD

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: TD

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: TD

COMMENTS:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 07 - 2330

BOX

~~Cooler~~ 3 of 4

SAMPLE RECEIPT FORM

CLIENT: CRA **DATE:** 07-26-08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature (For Air & Filter only).

__ __.__ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

__ __.__ °C Temperature blank.
__ __.__ °C IR thermometer.
✓ Ambient temperature (For Air & Filter only).
SUMA CAN

Initial: TD

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: TD

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: TD

COMMENTS:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 07 - 2330

~~Cooler~~ BOX 4 of 4

SAMPLE RECEIPT FORM

CLIENT: CRA **DATE:** 07-26-08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature (For Air & Filter only).

___ ___.___ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

___ ___.___ °C Temperature blank.
___ ___.___ °C IR thermometer.
✓ Ambient temperature (For Air & Filter only).

Initial: TD

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: TD

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: TD

COMMENTS:

Calscience Environmental Laboratories, Inc.

August 05, 2008

Ana Friel
Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Subject: **Calscience Work Order No.: 08-07-2211**
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 7/25/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	07/25/08
19449 Riverside Drive, Suite 230	Work Order No:	08-07-2211
Sonoma, CA 95476-6955	Preparation:	EPA 5030B
	Method:	EPA 8015B (M)

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

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-9-4.5ft	**08-07-2211-1-A**	**07/23/08 09:00**	**Solid**	**GC 22**	**08/03/08**	**08/03/08 16:27**	**080803B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	97	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-279-2,061**	**N/A**	**Solid**	**GC 22**	**08/03/08**	**08/03/08 14:10**	**080803B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	78	42-126	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	07/25/08
19449 Riverside Drive, Suite 230	Work Order No:	08-07-2211
Sonoma, CA 95476-6955	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	mg/kg

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-9-4.5ft	**08-07-2211-1-A**	**07/23/08 09:00**	**Solid**	**GC/MS JJ**	**07/26/08**	**07/26/08 14:47**	**080726L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Toluene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
p/m-Xylene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
o-Xylene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	120	73-139			1,2-Dichloroethane-d4	129	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	99	71-113		

Method Blank	**099-10-005-16,624**	**N/A**	**Solid**	**GC/MS JJ**	**07/26/08**	**07/26/08 12:52**	**080726L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Toluene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
p/m-Xylene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
o-Xylene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	122	73-139			1,2-Dichloroethane-d4	133	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	99	71-113		

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: 07/25/08
Work Order No: 08-07-2211
Preparation: EPA 5030B
Method: EPA 8015B (M)

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
VP-9-4.5ft	**Solid**	**GC 22**	**08/03/08**	**08/03/08**	**080803S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	84	87	48-114	3	0-23	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: 07/25/08
Work Order No: 08-07-2211
Preparation: EPA 5030B
Method: EPA 8260B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-07-2282-1	**Solid**	**GC/MS JJ**	**07/26/08**	**07/26/08**	**080726S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	93	94	79-115	1	0-13	
Carbon Tetrachloride	103	105	55-139	2	0-15	
Chlorobenzene	96	95	79-115	1	0-17	
1,2-Dibromoethane	99	98	70-130	1	0-30	
1,2-Dichlorobenzene	92	94	63-123	2	0-23	
1,1-Dichloroethene	100	103	69-123	3	0-16	
Ethylbenzene	103	103	70-130	0	0-30	
Toluene	99	101	79-115	1	0-15	
Trichloroethene	97	99	66-144	2	0-14	
Vinyl Chloride	99	100	60-126	0	0-14	
Methyl-t-Butyl Ether (MTBE)	94	97	68-128	2	0-14	
Tert-Butyl Alcohol (TBA)	75	78	44-134	4	0-37	
Diisopropyl Ether (DIPE)	87	89	75-123	2	0-12	
Ethyl-t-Butyl Ether (ETBE)	90	94	75-117	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	92	95	79-115	3	0-12	
Ethanol	94	97	42-138	3	0-28	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates	Date Received:	N/A
19449 Riverside Drive, Suite 230	Work Order No:	08-07-2211
Sonoma, CA 95476-6955	Preparation:	EPA 5030B
	Method:	EPA 8015B (M)

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-2,061	**Solid**	**GC 22**	**08/03/08**	**08/03/08**	**080803B01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	105	108	70-124	3	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: N/A
Work Order No: 08-07-2211
Preparation: EPA 5030B
Method: EPA 8260B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-005-16,624	**Solid**	**GC/MS JJ**	**07/26/08**	**07/26/08**	**080726L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	94	84-114	0	0-7	
Carbon Tetrachloride	105	104	66-132	2	0-12	
Chlorobenzene	98	96	87-111	2	0-7	
1,2-Dibromoethane	100	99	80-120	1	0-20	
1,2-Dichlorobenzene	97	95	79-115	3	0-8	
1,1-Dichloroethene	103	102	73-121	1	0-12	
Ethylbenzene	105	103	80-120	1	0-20	
Toluene	102	101	78-114	1	0-7	
Trichloroethene	100	99	84-114	0	0-8	
Vinyl Chloride	103	101	63-129	2	0-15	
Methyl-t-Butyl Ether (MTBE)	101	102	77-125	1	0-11	
Tert-Butyl Alcohol (TBA)	78	78	47-137	0	0-27	
Diisopropyl Ether (DIPE)	92	93	76-130	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	97	98	76-124	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	99	82-118	0	0-11	
Ethanol	98	98	59-131	0	0-21	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-07-2211

Qualifier	Definition
*	See applicable analysis comment.
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 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 with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	A Marginal Exceedance (ME) is defined as a LCS percent recovery beyond the normal 3 standard deviation Control Limits but still within the marginal exceedance limits (set at 4 standard deviations from the mean)
N	Nontarget Analyte.
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.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Shell Oil Products Chain Of Custody Record

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

Please Check Appropriate Box:
☑ ENV. SERVICES | ☐ MOTIVA RETAIL | ☐ SHELL RETAIL
☐ MOTIVA SD&CM | ☐ CONSULTANT | ☐ LUBES
☐ SHELL PIPELINE | ☐ OTHER _____

Print Bill To Contact Name: Denis Brown
PO #
INCIDENT # (ENV SERVICES): 9 7 0 9 3 3 9 7 ☑ CHECK IF NO INCIDENT # APPLIES
SAP #: 1 2 9 4 4 9
DATE: 7/ 23 /2008
PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates	LOG CODE:
ADDRESS: 19449 Riverside Drive, Suite 230, Sonoma, California 95476	
PROJECT CONTACT (Hardcopy or PDF Report to): Ana Friel	
TELEPHONE: 707-268-3812	FAX: 707-268-8180
E-MAIL: afriel@craworld.com	
SITE ADDRESS: Street and City: 2703 Martin Luther King Jr. Way, Oakland	State: CA
GLOBAL ID NO.: T0600101876	
EDF DELIVERABLE TO (Name, Company, Office Location): Felica Ballard, CRA, Sonoma	PHONE NO.: 707-935-4850
E-MAIL: sonomaedf@craworld.com	CONSULTANT PROJECT NO.: 240781-2008-10
SAMPLER NAME(S) (Print): Erin Reinhart-Koylu	LAB USE ONLY: 08-07-2211

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

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

Call composite sample ID and field point name: D-A

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	Ice	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)	TPHg gasoline (8015M)		TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
	VP-9-4.5 ft	7/23/08	9:00	SO					X		1			X	X															X		

Relinquished by: (Signature) Erin Reinhart-Koylu	Received by: (Signature) Secure location	Date: 7/23/08	Time: 11:10
Relinquished by: (Signature) Jennifer Mendoza CO 7-24-08 GSO 1730 GSO	Received by: (Signature) CEL GSO	Date: 7-24-08	Time: 1045
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

TRK #: 510049250

7-25-08 9:30

05/2/08 Revision

2211

Contingent analyses

- Organic lead required if TTLC lead ≥ 13 mg/kg
- Aquatic bioassay required if **any** TPH (gasoline, diesel, or motor oil) ≥ 5,000 mg/kg
- TCLP benzene required if benzene ≥ 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 ≥ 150 mg/kg
Arsenic	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Barium	1,000/2,000	STLC required if TTLC ≥ 1,000 mg/kg; STLC and TCLP required if TTLC ≥ 2,000 mg/kg
Beryllium	7.5	STLC required if TTLC ≥ 7.5 mg/kg
Cadmium	10/20	STLC required if TTLC ≥ 10 mg/kg; STLC and TCLP required if TTLC ≥ 20 mg/kg
Chromium	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Cobalt	800	STLC required if TTLC ≥ 800 mg/kg
Copper	250	STLC required if TTLC ≥ 250 mg/kg
Lead	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Mercury	2/4	STLC required if TTLC ≥ 2 mg/kg; STLC and TCLP required if TTLC ≥ 4 mg/kg
Molybdenum	350	STLC required if TTLC ≥ 350 mg/kg
Nickel	200	STLC required if TTLC ≥ 200 mg/kg
Selenium	10/20	STLC required if TTLC ≥ 10 mg/kg; STLC and TCLP required if TTLC ≥ 20 mg/kg
Silver	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Thallium	70	STLC required if TTLC ≥ 70 mg/kg
Vanadium	240	STLC required if TTLC ≥ 240 mg/kg
Zinc	2,500	STLC required if TTLC ≥ 2,500 mg/kg

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 07 - 2211

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: CRA **DATE:** 7-25-08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature (For Air & Filter only).

___ ___.___ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

___ ___.___ °C Temperature blank.
___ 3.6 °C IR thermometer.
_____ Ambient temperature (For Air & Filter only).

Initial: WB

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: WB

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: WB

COMMENTS:

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Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0808289A

Work Order Summary

CLIENT:	Ms. Ana Friel Conestoga-Rovers Associates (CRA) 19449 Riverside Drive Suite 230 Sonoma, CA 95476	**BILL TO:**	Ms. Ana Friel Conestoga-Rovers Associates (CRA) 19449 Riverside Drive Suite 230 Sonoma, CA 95476
PHONE:	(707)-935-4850	**P.O. #**	
FAX:	707-935-6649	**PROJECT #**	240781-2008-10
DATE RECEIVED:	08/13/2008	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	08/15/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VP-9	Modified TO-15/TICs	5.0 "Hg	15 psi
01AA	VP-9 Lab Duplicate	Modified TO-15/TICs	5.0 "Hg	15 psi
02A	Ambient Air	Modified TO-15/TICs	0.0 "Hg	15 psi
03A	Trip Blank	Modified TO-15/TICs	27.5 "Hg	15 psi
04A	Lab Blank	Modified TO-15/TICs	NA	NA
05A	CCV	Modified TO-15/TICs	NA	NA
06A	LCS	Modified TO-15/TICs	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 08/18/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
Conestoga-Rovers Associates (CRA)
Workorder# 0808289A

Three 1 Liter Summa Canister (100% Certified) samples were received on August 13, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	</= 30% Difference	</= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Chain of Custody (COC) arrived at the laboratory without samples. The samples arrived on 8/13/08.

Analytical Notes

Specific analytes that are requested by the client to be reported as tentatively identified compounds (TICs) are determined by searching for each compound's characteristic spectra. If no chromatographic peak displaying the compound specific spectra exists, then the TIC is reported as not detected. Please note that the laboratory has not evaluated the stability of any heretofore tentatively identified compound in the vapor phase or for efficiency of recovery through the analytical system.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no

performed).

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VP-9

Lab ID#: 0808289A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	1.2	4.5	4.6	17

Client Sample ID: VP-9 Lab Duplicate

Lab ID#: 0808289A-01AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	1.2	4.3	4.6	16

Client Sample ID: Ambient Air

Lab ID#: 0808289A-02A

No Detections Were Found.

Client Sample ID: Trip Blank

Lab ID#: 0808289A-03A

No Detections Were Found.

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Client Sample ID: VP-9

Lab ID#: 0808289A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7081416**	**Date of Collection: 8/8/08**	
Dil. Factor:	**2.42**	**Date of Analysis: 8/14/08 08:38 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
Toluene	1.2	4.5	4.6	17
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Butane	106-97-8	NA	Not Detected
Isobutane	75-28-5	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: VP-9 Lab Duplicate

Lab ID#: 0808289A-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7081419**	**Date of Collection: 8/8/08**	
Dil. Factor:	**2.42**	**Date of Analysis: 8/14/08 10:58 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
Toluene	1.2	4.3	4.6	16
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Butane	106-97-8	NA	Not Detected
Isobutane	75-28-5	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: Ambient Air

Lab ID#: 0808289A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7081417**	**Date of Collection: 8/8/08**	
Dil. Factor:	**2.02**	**Date of Analysis: 8/14/08 09:31 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	1.0	Not Detected	3.6	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
Ethyl Benzene	1.0	Not Detected	4.4	Not Detected
m,p-Xylene	1.0	Not Detected	4.4	Not Detected
o-Xylene	1.0	Not Detected	4.4	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Butane	106-97-8	NA	Not Detected
Isobutane	75-28-5	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: Trip Blank

Lab ID#: 0808289A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7081418**	**Date of Collection: 8/8/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/14/08 10:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Butane	106-97-8	NA	Not Detected
Isobutane	75-28-5	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: Lab Blank

Lab ID#: 0808289A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7081408**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/14/08 12:56 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Butane	106-97-8	NA	Not Detected
Isobutane	75-28-5	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: CCV

Lab ID#: 0808289A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7081405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/14/08 10:36 AM**	

Compound	**%Recovery**
Methyl tert-butyl ether	117
Benzene	103
Toluene	104
Ethyl Benzene	102
m,p-Xylene	101
o-Xylene	102

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	101	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0808289A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7081403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/14/08 09:15 AM**	

Compound	**%Recovery**
Methyl tert-butyl ether	114
Benzene	99
Toluene	104
Ethyl Benzene	98
m,p-Xylene	97
o-Xylene	98

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	98	70-130

LAB: TA

☐ TA - Irvine, California
☐ TA - Morgan Hill, California
☐ TA - Sacramento, California
☐ TA - Nashville, Tennessee
☐ Calscience
☑ Other Air Toxics

SHELL Chain Of Custody Record

0808289

NAME OF PERSON TO BILL: Denis Brown

☑ ENVIRONMENTAL SERVICES ☐ NETWORK DEVELOPMENT ☐ SITE CONSULTANTS ☐ COMPLIANCE ☐ REFORMATE

☐ CHECK BOX TO VERIFY IF NO INCIDENT # APPLIES

INCIDENT #(ES ONLY): 9 7 0 9 3 3 9 7

PO #:

SAP or CRMT #:

Date: 8/7/08

PAGE: 1 of 1

CONSULTANT/COMPANY: Conestoga-Rovers & Associates (CRA)	JOB CODE: CRAW	SITE ADDRESS: Street and City: 2703 MLK, Oakland	State: CA	GLOBAL ID NO.: T0600101876
ADDRESS: 5900 Hollis St, Suite A, Emeryville, CA 94608		FOR DELIVERABLES (Name, Company, Site Location): Ballard, Felicia, CRA, Sonoma	PHONE NO.: 707.933.2369	E-MAIL: sonomag4ff@craworld.com	CONSULTANT PROJECT NO.: 240781-2006-10
PROJECT CONTACT (Hardcopy or PDF Report to): Ana Friel		SAMPLER NAME(S) Print: Carmen Rodriguez	LAB USE ONLY	
TELEPHONE: 707 268 3812	FAX: 707 268 8180	E-MAIL: afrie@craworld.com		

TAT (STD IS 10 BUSINESS DAYS / RUSH IS 5 CALENDAR DAYS): ☐ STD ☐ 5 DAY ☑ 3 DAY ☐ 2 DAY ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

☑ EDD NOT NEEDED
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMB RATE APPLIES
☑ RECEIPT VERIFICATION REQUESTED

please report results in ug/m3

No partial lab reports, send final PDF report only

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPHg (TO-3)	TPHd - Extractable (8015M)	BTEX (TO-15)	MTBE (TO-15)	TBA (TO-15)	O2, CO2, & Methane	Butane, butane, & propane (TO-15, GC/MS)	TEMPERATURE ON RECEIPT OF
01A	VP-9	8/8	1511	Air	1	X		X	X			X	Can# 2036
02A	Ambient Air	"	1521	"	"								Can# 2166
03A	Trip Blank	"	1530	"	"								Can# 1485
	Purge												Can# 12027

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

Relinquished by: (Signature) Carmen Rodriguez	Received by: (Signature) Securebatian	Date: 8/8/08	Time: 1630
Relinquished by: (Signature)	Received by: (Signature) Monica Gregsen ATL	Date: 8/9/08	Time: 1025
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Quest Graphics (714) 895-9702

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0808289BR1

Work Order Summary

CLIENT:	Ms. Ana Friel Conestoga-Rovers Associates (CRA) 19449 Riverside Drive Suite 230 Sonoma, CA 95476	**BILL TO:**	Ms. Ana Friel Conestoga-Rovers Associates (CRA) 19449 Riverside Drive Suite 230 Sonoma, CA 95476
PHONE:	(707)-935-4850	**P.O. #**	
FAX:	707-935-6649	**PROJECT #**	240781-2008-10
DATE RECEIVED:	08/13/2008	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	08/18/2008		
DATE REISSUED:	08/20/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VP-9	Modified TO-3	5.0 "Hg	15 psi
02A	Ambient Air	Modified TO-3	0.0 "Hg	15 psi
02AA	Ambient Air Lab Duplicate	Modified TO-3	0.0 "Hg	15 psi
03A	Trip Blank	Modified TO-3	27.5 "Hg	15 psi
04A	Lab Blank	Modified TO-3	NA	NA
05A	LCS	Modified TO-3	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 08/20/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
Conestoga-Rovers Associates (CRA)
Workorder# 0808289BR1

Three 1 Liter Summa Canister (100% Certified) samples were received on August 13, 2008. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/m3.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-3***	***ATL Modifications***
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

The Chain of Custody (COC) arrived at the laboratory without samples. The samples arrived on 8/13/08.

Analytical Notes

There were no analytical discrepancies.

THE WORKORDER WAS REISSUED ON AUGUST 20, 2008 TO REPORT RESULTS IN PPMV & UG/M3.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: VP-9

Lab ID#: 0808289BR1-01A

Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	0.060	0.068	250	280

Client Sample ID: Ambient Air

Lab ID#: 0808289BR1-02A

Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	0.050	0.068	210	280

Client Sample ID: Ambient Air Lab Duplicate

Lab ID#: 0808289BR1-02AA

Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	0.050	0.066	210	270

Client Sample ID: Trip Blank

Lab ID#: 0808289BR1-03A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-9

Lab ID#: 0808289BR1-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**6081505**	**Date of Collection: 8/8/08**	
Dil. Factor:	**2.42**	**Date of Analysis: 8/15/08 10:53 AM**	

Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	0.060	0.068	250	280

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	94	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Ambient Air

Lab ID#: 0808289BR1-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**6081506**	**Date of Collection:**	**8/8/08**
Dil. Factor:	**2.02**	**Date of Analysis:**	**8/15/08 11:24 AM**

Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	0.050	0.068	210	280

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	100	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Ambient Air Lab Duplicate

Lab ID#: 0808289BR1-02AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**6081508**	**Date of Collection: 8/8/08**	
Dil. Factor:	**2.02**	**Date of Analysis: 8/15/08 12:43 PM**	

Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	0.050	0.066	210	270

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	96	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Trip Blank

Lab ID#: 0808289BR1-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**6081507**	**Date of Collection: 8/8/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/15/08 12:03 PM**	

Compound	**Rpt. Limit (ppmv)**	**Amount (ppmv)**	**Rpt. Limit (uG/m3)**	**Amount (uG/m3)**
TPH (Gasoline Range)	0.025	Not Detected	100	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	100	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0808289BR1-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**6081503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/15/08 09:35 AM**	

Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	0.025	Not Detected	100	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	85	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0808289BR1-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**6081516**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/15/08 07:34 PM**	

Compound	**%Recovery**
TPH (Gasoline Range)	98

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	122	75-150

Attachment E

Disposal Documentation

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000175406		888-423-6068	004521301 JJK

GENERATOR

5. Generator's Name and Mailing Address
Shell Oil Products US
12700 Northborough Drive
Houston, TX 77067
Generator's Phone: 281-874-2210

Generator's Site Address (if different than mailing address)
2703 Martin Luther King W
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
Siemens Water Technologies
5375 South Boyle Avenue
Los Angeles, CA 90058
Facility's Phone: 323-277-1800
U.S. EPA ID Number: CAD009709383

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid (STLC for Lead)	1	DM	45	P	181	611	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Wear appropriate PPE while handling. Weights or volumes are approximate.
Soil contaminated with STLC for Lead
Job# 28027 RFP# 71293 SAP# 120449 Profile# 180475 D122247 RS62270 1X5 Gal

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AIS on behalf of SCRUS - J Sharman
Signature
Month: 8 Day: 26 Year: 01

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
Signature
Month: 8 Day: 26 Year: 01

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

Calscience Environmental Laboratories, Inc.

August 18, 2008

Ana Friel
Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Subject: **Calscience Work Order No.: 08-07-2208**
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 7/25/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: 07/25/08
Work Order No: 08-07-2208
Preparation: EPA 1311
Method: EPA 6010B

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

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D-1	**08-07-2208-1-A**	**07/23/08 09:44**	**Solid**	**ICP 5300**	**08/14/08**	**08/15/08 22:36**	**080815LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	0.251	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-05-001-3,727**	**N/A**	**Solid**	**ICP 5300**	**08/13/08**	**08/16/08 00:22**	**080815LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.100	1		mg/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: 07/25/08
Work Order No: 08-07-2208
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

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

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D-1	**08-07-2208-1-A**	**07/23/08 09:44**	**Solid**	**ICP 5300**	**07/28/08**	**08/04/08 20:39**	**080728L02**

Comment(s): -Mercury was analyzed on 8/5/2008 3:10:18 PM with batch 080804L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	0.853	0.0835	1	
Arsenic	12.1	0.750	1		Molybdenum	0.640	0.250	1	
Barium	684	0.500	1		Nickel	36.0	0.250	1	
Beryllium	0.524	0.250	1		Selenium	ND	0.750	1	
Cadmium	3.87	0.500	1		Silver	0.282	0.250	1	
Chromium	40.4	0.250	1		Thallium	ND	0.750	1	
Cobalt	7.24	0.250	1		Vanadium	29.8	0.250	1	
Copper	130	0.500	1		Zinc	1290	1.00	1	
Lead	2630	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-04-007-5,685**	**N/A**	**Solid**	**Mercury**	**08/04/08**	**08/04/08 12:53**	**080804L05**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-11,328**	**N/A**	**Solid**	**ICP 5300**	**07/28/08**	**07/28/08 18:38**	**080728L02**

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: 07/25/08
Work Order No: 08-07-2208
Preparation: T22.11.5. AII
Method: EPA 6010B

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

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D-1	**08-07-2208-1-A**	**07/23/08 09:44**	**Solid**	**ICP 5300**	**08/14/08**	**08/18/08 13:13**	**080818LA1**

Parameter	Result	RL	DF	Qual	Units
Lead	99.0	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-05-006-4,207**	**N/A**	**Solid**	**ICP 5300**	**08/14/08**	**08/18/08 13:08**	**080818LA1**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.100	1		mg/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	07/25/08
19449 Riverside Drive, Suite 230	Work Order No:	08-07-2208
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B

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

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D-1	**08-07-2208-1-A**	**07/23/08 09:44**	**Solid**	**GC 45**	**07/29/08**	**07/30/08 09:40**	**080729B10**

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	220	50	10		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	116	61-145	

Method Blank	099-12-025-380	N/A	Solid	GC 45	07/29/08	07/30/08 07:02	080729B10

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	61-145	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: 07/25/08
Work Order No: 08-07-2208
Preparation: EPA 3550B
Method: EPA 8015B (M)

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

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D-1	**08-07-2208-1-A**	**07/23/08 09:44**	**Solid**	**GC 45**	**07/29/08**	**07/30/08 09:40**	**080729B11**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	750	250	10		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	116	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-254-539**	**N/A**	**Solid**	**GC 45**	**07/29/08**	**07/30/08 07:02**	**080729B11**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	61-145	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: 07/25/08
Work Order No: 08-07-2208
Preparation: DHS LUFT
Method: DHS LUFT

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

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D-1	**08-07-2208-1-A**	**07/23/08 09:44**	**Solid**	**FLAA**	**08/14/08**	**08/14/08 18:28**	**080814L04**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

Method Blank	**099-10-020-977**	**N/A**	**Solid**	**FLAA**	**08/14/08**	**08/14/08 18:28**	**080814L04**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	07/25/08
19449 Riverside Drive, Suite 230		Work Order No:	08-07-2208
Sonoma, CA 95476-6955		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	mg/kg

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

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D-1	**08-07-2208-1-A**	**07/23/08 09:44**	**Solid**	**GC/MS WW**	**07/28/08**	**07/29/08 12:17**	**080728L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	0.50	1		Toluene	ND	0.0050	1	
Benzene	ND	0.0050	1		p/m-Xylene	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		o-Xylene	ND	0.0050	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	103	70-130			1,4-Bromofluorobenzene-TPPH	102	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-717-155**	**N/A**	**Solid**	**GC/MS WW**	**07/28/08**	**07/29/08 06:19**	**080728L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	0.50	1		Toluene	ND	0.0050	1	
Benzene	ND	0.0050	1		p/m-Xylene	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		o-Xylene	ND	0.0050	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	70-130			1,4-Bromofluorobenzene-TPPH	98	70-130		

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: 07/25/08
Work Order No: 08-07-2208
Preparation: EPA 1311
Method: EPA 6010B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-08-1059-1	**Solid**	**ICP 5300**	**08/13/08**	**08/15/08**	**080815SA2**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	107	105	75-125	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: 07/25/08
Work Order No: 08-07-2208
Preparation: EPA 3050B
Method: EPA 6010B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-07-2218-1	**Solid**	**ICP 5300**	**07/28/08**	**07/28/08**	**080728S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	41	33	50-115	22	0-20	3,4
Arsenic	88	85	75-125	2	0-20	
Barium	4X	4X	75-125	4X	0-20	Q
Beryllium	83	76	75-125	9	0-20	
Cadmium	75	71	75-125	6	0-20	3
Chromium	93	70	75-125	9	0-20	3
Cobalt	83	67	75-125	8	0-20	3
Copper	4X	4X	75-125	4X	0-20	Q
Lead	88	74	75-125	16	0-20	3
Molybdenum	72	70	75-125	2	0-20	3
Nickel	81	71	75-125	5	0-20	3
Selenium	76	80	75-125	5	0-20	
Silver	101	94	75-125	7	0-20	
Thallium	19	22	75-125	12	0-20	3
Vanadium	102	67	75-125	8	0-20	3
Zinc	57	16	75-125	10	0-20	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: 07/25/08
Work Order No: 08-07-2208
Preparation: T22.11.5. AII
Method: EPA 6010B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
D-1	**Solid**	**ICP 5300**	**08/14/08**	**08/18/08**	**080818SA1**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	4X	4X	75-125	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: 07/25/08
Work Order No: 08-07-2208
Preparation: EPA 3550B
Method: EPA 8015B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-07-2188-1	**Solid**	**GC 45**	**07/29/08**	**07/30/08**	**080729S10**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	107	95	64-130	12	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: 07/25/08
Work Order No: 08-07-2208
Preparation: EPA 3550B
Method: EPA 8015B (M)

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-07-2188-1	**Solid**	**GC 45**	**07/29/08**	**07/30/08**	**080729S11**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	106	120	64-130	12	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Conestoga-Rovers & Associates		Date Received:	07/25/08
19449 Riverside Drive, Suite 230		Work Order No:	08-07-2208
Sonoma, CA 95476-6955		Preparation:	DHS LUFT
		Method:	DHS LUFT

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-08-1048-1	**Solid**	**FLAA**	**08/14/08**	**08/14/08**	**080814S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	85	87	22-148	3	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: 07/25/08
Work Order No: 08-07-2208
Preparation: EPA 7471A Total
Method: EPA 7471A

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-07-2637-11	**Solid**	**Mercury**	**08/04/08**	**08/04/08**	**080804S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	106	106	84-138	0	0-7	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: 07/25/08
Work Order No: 08-07-2208
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-07-2308-1	**Solid**	**GC/MS WW**	**07/28/08**	**07/29/08**	**080728S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	15	2	70-130	151	0-30	3,4
Ethylbenzene	74	73	70-130	1	0-30	
Toluene	33	12	70-130	92	0-30	3,4
p/m-Xylene	74	73	70-130	1	0-30	
o-Xylene	76	73	70-130	4	0-30	
Methyl-t-Butyl Ether (MTBE)	102	101	70-130	2	0-30	
Tert-Butyl Alcohol (TBA)	94	85	70-130	10	0-30	
Diisopropyl Ether (DIPE)	90	90	70-130	0	0-30	
Ethyl-t-Butyl Ether (ETBE)	100	99	70-130	1	0-30	
Tert-Amyl-Methyl Ether (TAME)	99	98	70-130	1	0-30	
Ethanol	75	77	70-130	4	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Conestoga-Rovers & Associates		Date Received:	N/A
19449 Riverside Drive, Suite 230		Work Order No:	08-07-2208
Sonoma, CA 95476-6955		Preparation:	EPA 1311
		Method:	EPA 6010B

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

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-05-001-3,727	**Solid**	**ICP 5300**	**08/16/08**	**080815-la-2 d**	**080815LA2**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Lead	5.00	5.27	105	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: N/A
Work Order No: 08-07-2208
Preparation: EPA 3050B
Method: EPA 6010B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-11,328	**Solid**	**ICP 5300**	**07/28/08**	**07/28/08**	**080728L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	105	104	80-120	1	0-20	
Arsenic	104	104	80-120	0	0-20	
Barium	108	108	80-120	0	0-20	
Beryllium	104	103	80-120	0	0-20	
Cadmium	109	108	80-120	1	0-20	
Chromium	102	101	80-120	0	0-20	
Cobalt	111	110	80-120	1	0-20	
Copper	107	107	80-120	0	0-20	
Lead	108	108	80-120	0	0-20	
Molybdenum	109	108	80-120	1	0-20	
Nickel	113	112	80-120	1	0-20	
Selenium	100	99	80-120	1	0-20	
Silver	104	104	80-120	0	0-20	
Thallium	95	95	80-120	1	0-20	
Vanadium	101	101	80-120	0	0-20	
Zinc	107	106	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Conestoga-Rovers & Associates		Date Received:	N/A
19449 Riverside Drive, Suite 230		Work Order No:	08-07-2208
Sonoma, CA 95476-6955		Preparation:	T22.11.5. AII
		Method:	EPA 6010B

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

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-05-006-4,207	**Solid**	**ICP 5300**	**08/18/08**	**080818-I-01**	**080818LA1**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Lead	5.00	5.63	113	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates	Date Received:	N/A
19449 Riverside Drive, Suite 230	Work Order No:	08-07-2208
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-380	**Solid**	**GC 45**	**07/29/08**	**07/30/08**	**080729B10**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	83	84	75-123	1	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates		Date Received:	N/A
19449 Riverside Drive, Suite 230		Work Order No:	08-07-2208
Sonoma, CA 95476-6955		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-254-539	**Solid**	**GC 45**	**07/29/08**	**07/30/08**	**080729B11**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	95	92	75-123	4	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Conestoga-Rovers & Associates		Date Received:	N/A
19449 Riverside Drive, Suite 230		Work Order No:	08-07-2208
Sonoma, CA 95476-6955		Preparation:	DHS LUFT
		Method:	DHS LUFT

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

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-020-977	**Solid**	**FLAA**	**08/14/08**	**NONE**	**080814L04**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	25.0	25.2	101	72-126	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received:	N/A
Work Order No:	08-07-2208
Preparation:	EPA 7471A Total
Method:	EPA 7471A

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-5,685	**Solid**	**Mercury**	**08/04/08**	**08/04/08**	**080804L05**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	100	102	87-117	1	0-3	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received:	N/A
Work Order No:	08-07-2208
Preparation:	EPA 5030B
Method:	LUFT GC/MS / EPA 8260B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-717-155	**Solid**	**GC/MS WW**	**07/28/08**	**07/29/08**	**080728L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPPH	79	75	65-135	6	0-30	
Benzene	79	79	70-130	0	0-30	
Ethylbenzene	86	86	70-130	1	0-30	
Toluene	83	81	70-130	3	0-30	
p/m-Xylene	87	86	70-130	1	0-30	
o-Xylene	90	88	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	100	98	70-130	2	0-30	
Tert-Butyl Alcohol (TBA)	81	82	70-130	1	0-30	
Diisopropyl Ether (DIPE)	89	88	70-130	1	0-30	
Ethyl-t-Butyl Ether (ETBE)	101	97	70-130	4	0-30	
Tert-Amyl-Methyl Ether (TAME)	99	94	70-130	5	0-30	
Ethanol	116	113	70-130	3	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-07-2208

Qualifier	Definition
*	See applicable analysis comment.
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 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 with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	A Marginal Exceedance (ME) is defined as a LCS percent recovery beyond the normal 3 standard deviation Control Limits but still within the marginal exceedance limits (set at 4 standard deviations from the mean)
N	Nontarget Analyte.
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.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Shell Oil Products Chain Of Custody Record

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

Please Check Appropriate Box:
☑ ENV. SERVICES | ☐ MOTIVA RETAIL | ☐ SHELL RETAIL
☐ MOTIVA SD&CM | ☐ CONSULTANT | ☐ LUBES
☐ SHELL PIPELINE | ☐ OTHER _____

Print Bill To Contact Name: Denis Brown

PO #:

INCIDENT # (ENV SERVICES): 97093397 ☑ CHECK IF NO INCIDENT # APPLIES

SAP #: 129449

DATE: 7/23/2008

PAGE: 1 of 1

SAMPLING COMPANY:	Conestoga-Rovers & Associates
LOG CODE:	
SITE ADDRESS: Street and City	2703 Martin Luther King Jr. Way, Oakland
State	CA
GLOBAL ID NO.:	T0600101876
ADDRESS:	19449 Riverside Drive, Suite 230, Sonoma, California 95476
EDF DELIVERABLE TO (Name, Company, Office Location):	Felica Ballard, CRA, Sonoma
PHONE NO.:	707-935-4850
E-MAIL:	sonomaedf@craworld.com
CONSULTANT PROJECT NO.:	240781-2008-10
PROJECT CONTACT (Hardcopy or PDF Report to):	Ana Friel
SAMPLER NAME(S) (Print):	Erin Reinhart-Koylu
TELEPHONE:	707-268-3812
FAX:	707-268-8180
E-MAIL:	afriel@craworld.com
LAB USE ONLY	08-07-2208

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

cc: Kari Dupler, kdupler@craworld.com

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	Ice	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)			Container PID Readings or Laboratory Notes
	D-1	7/23/08	9:44	SO					X		1	X	X	X											X	X						

Relinquished by: (Signature) Erin Reinhart-Koylu — Received by: (Signature) Secure location — Date: 7/23 — Time: 11:10

Relinquished by: (Signature) Jennifer Mendoza — Received by: (Signature) CER — Date: 7-24-08 — Time: 1045

Relinquished by: (Signature) GSO 7-24-08 1730 GSO — Received by: (Signature) GSO CEL — Date: 7-25-08 — Time: 9:30

TRK #: 510049250

05/2/06 Revision

Contingent analyses

- Organic lead required if TTLC lead ≥ 13 mg/kg
- Aquatic bioassay required if **any** TPH (gasoline, diesel, or motor oil) ≥ 5,000 mg/kg
- TCLP benzene required if benzene ≥ 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 ≥ 150 mg/kg
Arsenic	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Barium	1,000/2,000	STLC required if TTLC ≥ 1,000 mg/kg; STLC and TCLP required if TTLC ≥ 2,000 mg/kg
Beryllium	7.5	STLC required if TTLC ≥ 7.5 mg/kg
Cadmium	10/20	STLC required if TTLC ≥ 10 mg/kg; STLC and TCLP required if TTLC ≥ 20 mg/kg
Chromium	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Cobalt	800	STLC required if TTLC ≥ 800 mg/kg
Copper	250	STLC required if TTLC ≥ 250 mg/kg
Lead	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Mercury	2/4	STLC required if TTLC ≥ 2 mg/kg; STLC and TCLP required if TTLC ≥ 4 mg/kg
Molybdenum	350	STLC required if TTLC ≥ 350 mg/kg
Nickel	200	STLC required if TTLC ≥ 200 mg/kg
Selenium	10/20	STLC required if TTLC ≥ 10 mg/kg; STLC and TCLP required if TTLC ≥ 20 mg/kg
Silver	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Thallium	70	STLC required if TTLC ≥ 70 mg/kg
Vanadium	240	STLC required if TTLC ≥ 240 mg/kg
Zinc	2,500	STLC required if TTLC ≥ 2,500 mg/kg

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 07 - 2208

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: CRA **DATE:** 7-25-08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature (For Air & Filter only).

___ ___.___ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

___ ___.___ °C Temperature blank.
___ 3.6 °C IR thermometer.
_____ Ambient temperature (For Air & Filter only).

Initial: WB

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: WB

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: WB

COMMENTS:

Field Report

Site address: 2703 Martin Luther King Jr Way, Oakland, CA
Project number: 240781
Project manager: Ana Friel/ J. England

Field work dates
- Utility survey: 7/16/08
- Borehole clearance: 7/16/08 and 7/238
- Drilling: 7/23/08
- Other: _____

Onsite Company/Personnel
- CRA / Erin Reinhart-Koylu & Carmen Rodriguez
- CU Surveys / Paul McMarlow
- Gregg Drilling / Ernie Lopez
- Gregg Drilling /

PG/PE supervising work: Ana Friel/ J. England

Drilling permit number(s): W2008-0416
Agency Permit obtained from: Alameda County Public Works Agency

Drilling Method: Hand Auger

Boring names: **VP-9**

Well names: **VP-9**

DRW logs send to: DWR, CRA
Agency contact for the permit including address: Vicky Hamilin (510) 670-5443
399 Elmhurst St., Hayward, CA 94544

Attach copy of drilling permit(s), COC(s), boring logs, completed DWR logs, and field map showing utility locations and final measured boring/well locations.

CONESTOGA-ROVERS & ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, CA 94608
Tel. (510) 420-0700 Fax (510) 420-9170

Boring/Well Name VP-9 page 1 of 1
PE/RG
Hand Augered to 5' Total Depth 5
Date Started 7/23/08
Date Completed 7/23/08
Well Development Date (yield) Vapor probe
Ground Surface Elevation
Top of Casing Elevation
Screened Interval 5-4.75 ft
Depth to water (first encountered) N/A
Depth to water (static) N/A
Located See Map

Client Name Shell Oil Company
Job/Site Name 2703 Martin Luther King Jr Way
Location 2703 Martin Luther King Jr Way, Oakland
Project Number 240781
Driller Gregg
Drilling Method hand Auger
Boring Diameter
Logged by ERK

Depth/Sample Interval	Time	Sample ID	PID/Odor	Well Construction	USC Class	Soil Type and Comments	Color	Penetration Resistance/ Blow Counts	Moisture	Percentages: Clay	Silt	Sand	Gravel	Plasticity	Estimated Permeability
0				Well cover		TOP SOIL									
		0.0		4" Bentonite		Fill 0-1.5' Clayey silt with sand (fine)	2.5/1 Black	None	dry	75	20	5		m	Low
		0.0													
5	9:00	VP-9 4.5ft		5ft 2"						60	35	5		m	Low
						4'4.5 - Surface bentonite slurry									
						4'7.5" - 4'4.5" dry bentonite									
						5'2" - 4'7.5" Sand.									
						4.75ft - Surface tube									
						5-4.75 ft vapor screen									
						Boring terminated at 5'ft 2"									
10															
15															
20															
25															
30															

Q:\SPECIALTY FIGURES\BORING-SHEET.AI

Virgil Chavez Land Surveying
721 Tuolumne Street
Vallejo, California 94590
(707) 553-2476 • Fax (707) 553-8698

August 14, 2008
Project No.: 1233-18

Erin Reinhart
Conestoga-Rovers, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608

Subject: Monitoring Well Survey
Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, CA

Dear Erin:

This is to confirm that we have proceeded at your request to survey the new monitoring well located at the above referenced location. The survey was completed on August 8, 2008. The benchmark for this survey was a City of Oakland benchmark being a cut square in the top of curb in the return at the northeast corner of Martin Luther King Jr. Way, and 28th Street. The latitude, longitude and coordinates are for top of casings and are based on the California State Coordinate System, Zone III (NAD83). Benchmark Elevation = 31.90 feet (NGVD 29).

Latitude	Longitude	Northing	Easting	Elev.	Desc.
				31.17	RIM VP-9
37.8175834	-122.2718874	2125007.64	6049877.41	30.45	VP-9

Sincerely,

Virgil D. Chavez, PLS 6323