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

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

Re: Former Shell Service Station
4411 Foothill Boulevard
Oakland, California
SAP Code 135686
Incident No. 98995746
Agency Site No. RO0415

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

March 13, 2008

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

Re: **Soil Vapor Probe Installation and Sampling Report**
Former Shell Service Station
4411 Foothill Boulevard
Oakland, California
SAP Code 135686
Incident No. 98995746
Agency Case No. RO0000415

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 recent site investigation activities performed at the referenced site (Figures 1 and 2). The purpose of the investigation was to evaluate the extent of vapor migration through site soils and to asses the potential for vapor intrusion into indoor air at the site. CRA followed the scope of work presented in the July 27, 2007 *Soil Gas Survey and Groundwater Assessment Work Plan*, which was approved in the August 16, 2007 Alameda County Health Care Services Agency (ACHCSA) letter to Shell. The work was performed in accordance with ACHCSA and San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) guidelines.

As was noted in a January 3, 2008 letter to ACHCSA, the proposed onsite vapor probes V-8 and V-9 were not able to be installed due to potential conflicts with underground utilities, and the proposed offsite groundwater monitoring wells S-10, S-11, and S-12 on the 4340 Bond Street property were not able to be installed because that site is currently being re-developed as a parking lot. A status update and a schedule for the installation of the remaining onsite vapor probes and the offsite groundwater monitoring wells will be provided to ACHCSA by April 15, 2008, as agreed to by ACHCSA in electronic correspondence dated January 3, 2008.

EXECUTIVE SUMMARY

- Nine soil vapor probes (V-1 through V-7, and V-10 and V-11) were installed on the site on December 13 and 14, 2007, to assess the potential for vapor intrusion into indoor air from shallow soil gas beneath the site.

- Soil samples for chemical analysis were collected from all nine borings from approximately 5 feet below grade (fbg) on December 13 and 14, 2007, and soil vapor samples were collected from eight of the nine vapor probes (V-1 through V-7, and V-11) on January 14, 2008.
- Low level concentrations of total petroleum hydrocarbons as gasoline (TPHg) were reported in the soil samples from borings V-2, V-3, and V-6, and low level concentrations of ethylbenzene and xylenes were reported in the soil sample from boring V-2.
- During the January 2008 soil vapor sampling event, concentrations of TPHg were reported in all eight soil vapor samples with the concentration reported in vapor probes V-1 through V-7 exceeding the applicable Environmental Screening Levels (ESLs); and concentrations of benzene were reported in soil vapor samples from V-2, V-3, and V-6, with each of these concentrations also exceeding the applicable ESLs.

SITE DESCRIPTION AND BACKGROUND

The site is a former Shell-branded service station located on the southern corner of the intersection of Foothill Boulevard and High Street in Oakland, California (Figure 1). The former station layout included three first-generation underground storage tanks (USTs) (1958 to 1971), three second-generation USTs (1971 to 1984), three third-generation gasoline USTs (1984 to 2002), a waste oil UST (removed 1992), and four product dispensers (Figure 2). Land use in the vicinity of the site is a mix of commercial and residential, with gasoline service stations occupying the northern and western corners of the intersection. The subject property is currently developed as a strip mall with a variety of commercial and retail uses.

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

INVESTIGATION RESULTS

Permits: A drilling permit was obtained from Alameda County Public Works Agency, and a copy is provided in Attachment B.

Drilling Date: December 13 and 14, 2007.

Drilling Company: Gregg Drilling and Testing, Inc. (Gregg) of Martinez, California (C57 License No. 485165).

Personnel Present: CRA geologist Scott Lewis working under the supervision of California Professional Geologist Ana Friel.

Drilling Method: Air knife and hand auger.

Number of Borings: Nine vapor probe borings (V-1 through V-7, and V-10 and V-11) were drilled on site during this investigation (Figure 2). Two proposed onsite vapor probe borings (V-8 and V-9) were not drilled due to potential conflicts with underground utilities and related safety concerns.

The boring and vapor probe specifications and soil types encountered are described on the boring logs presented in Attachment C, and the locations are shown on Figure 2.

Boring Depths: Total depths ranged from approximately 5.2 to 5.5 fbg.

Soil Sampling: Soil samples for chemical analysis were collected from each of the nine borings from approximately 5 fbg. Soil samples were analyzed for TPHg and total petroleum hydrocarbons as diesel (TPHd) by EPA Method 8015M, and for benzene, toluene, ethylbenzene, xylenes (BTEX) and the oxygenates methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA), di-isopropyl ether, ethyl tertiary butyl ether, and tertiary amyl methyl ether, and 1,2-dichloroethane and ethylene dibromide, by EPA Method 8260B.

Vapor Point Materials: The vapor probes were constructed using 1/4-inch diameter Teflon tubing attached to 3-inch length stainless steel screen intervals manufactured by Geoprobe, and #2/12 Monterey sand filter pack.

Screened Intervals: The vapor probes were screened from approximately 4.5 to 4.8 fbg (Attachment C).

Soil Vapor Sampling: During sampling, the Teflon tubing for each vapor probe was connected to a control value, and then to a flow regulator attached to a lab-supplied sampling manifold connecting two 1-liter summa canisters (one purge canister and one sampling canister) with flow regulators and pressure

gauges. Prior to sampling, 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. Additionally, gauze moistened with isopropanol was placed on each tube fitting and held in place with aluminum foil during sampling activities for leak detection. At least three tubing volumes of air were purged into the purge canister prior to sampling. Immediately after purging, soil vapor samples were collected using the second 1-liter summa canister. Ambient air samples were collected by opening a summa canister until sufficient sample had been collected. The vapor samples were labeled and stored in a non-cooled ice chest until delivery to the analytical laboratory.

CRA geologist Scott Lewis sampled the vapor probes V-1 through V-7, and V-11, and collected an ambient air sample, on January 14, 2008. No soil vapor sample could be collected from vapor probe V-10 during the sample event due to water present in the Teflon tubing.

Soil Vapor Analyses: Soil vapor and the ambient air sample were analyzed for TPHg by EPA Method TO-3, and for BTEX, MTBE, TBA, and isopropanol by EPA Method TO-15.

Soil Disposal: Soil generated during field activities was stored onsite, covered with plastic sheeting, sampled, and profiled for disposal. Soils were transported to Waste Management, Inc.'s Altamont Landfill located in Livermore, California. Soil profile analytical data is provided in Attachment D, and waste disposal confirmation documentation is pending and can be provided by CRA upon request.

FINDINGS

Soil: The soil chemical analytical data from the borings are summarized in Table 1, and the TPHg, TPHd, benzene, and MTBE analytical results are presented on Figure 3. The laboratory analytical reports are presented in Attachment E.

Soil Vapor: The soil vapor chemical analytical data from the probes are summarized in Table 2 along with the SFBRWQCB's Environmental Screening Levels (ESLs) for potential vapor intrusion for shallow soil gas, for both commercial and residential land use (Ref. Table E in SFBRWQCB's *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater*- Interim Final – November 2007). The TPHg, benzene, and MTBE analytical results for soil vapor are presented on Figure 4, and the associated laboratory analytical reports are presented in Attachment E.

DISCUSSION

Nine soil vapor probes (V-1 through V-7, and V-10 and V-11) were installed on the site to evaluate the presence of gasoline constituent in vapor in site soils and to assess the potential for vapor intrusion into indoor air at the site. Soil samples for chemical analysis were collected from each of the borings from approximately 5 fbg. Low level concentration of TPHg were reported in borings V-2, V-3, and V-6, with maximum TPHg reported in boring V-2 at 13 milligrams per kilogram (mg/kg). In addition, low level concentrations of ethylbenzene and xylenes were reported in V-2 at 0.021 and 0.022 mg/kg, respectively.

Soil vapor samples were collected from eight of the nine onsite soil vapor probes (V-1 through V-7, and V-11). TPHg was detected in the vapor samples collected from all eight soil vapor probes at concentrations ranging from 18,000 to 20,000,000 micrograms per cubic meter ($\mu g/m^3$). The TPHg concentrations in seven of the probes (V-1 through V-7) exceed the TPHg ESL of 29,000 $\mu g/m^3$ for vapor intrusion from shallow soils on commercial sites. Benzene was detected in the vapor samples collected from three of the eight soil vapor probes (V-2, V-3, and V-6) at concentrations ranging from 3,800 to 9,100 $\mu g/m^3$. These concentrations exceed the benzene ESL of 280 $\mu g/m^3$for vapor intrusion from shallow soils on commercial sites.

Detectable concentrations of ethylbenzene and xylenes were reported in the vapor sample collected from soil vapor probe V-2, and detectable concentrations of toluene were reported in the vapor sample collected from soil vapor probe V-11, but none of these concentrations exceed the respective ESL for vapor intrusion from shallow soils on commercial sites.

No detectable concentrations of MTBE or TBA were reported in any of the vapor samples collected from the eight soil vapor probes.

An ambient air sample was also collected during the soil vapor sample event. The only gasoline constituent detected in the ambient air sample was toluene at 4.1 $\mu g/m^3$ which does not exceed the ESL for vapor intrusion from shallow soils on commercial sites.

Isopropanol (IPA), which was used as a tracer gas for leak detection, was detected in some of the soil vapor samples. As previously noted, prior to sample collection, sampling equipment vacuum tests were performed at each vapor well to insure that the seals were not leaking. None of the vacuum tests showed leaks in the sampling equipment prior to sample collection. The source of IPA in the samples is unknown, but could be due to cross-contamination during equipment transport or handling prior to sampling. The highest IPA concentration detected in the samples, 4,200 $\mu g/m^3$ in V-1, corresponds to approximately 0.0002 % by volume of the sample. This indicates that if any leaks occurred during sampling, they did not significantly affect the sample results.

RECOMMENDATIONS

Based on the information presented herein, Shell recommends that the soil vapor probes be re-sampled to confirm the soil vapor concentrations reported in the soil vapor probes at this site.

CLOSING

A status update and schedule for the installation of the two remaining onsite vapor probes and the offsite groundwater monitoring wells will be provided to ACHCSA by April 15, 2008, as agreed to by ACHCSA in electronic correspondence dated January 3, 2008.

If you have any questions regarding the contents of this document, please call Dennis Baertschi at (707) 268-3813.

CONESTOGA-ROVERS
& ASSOCIATES

Sincerely,
Conestoga-Rovers & Associates

Dennis Baertschi
Project Manager

Joe W. Neely, PG

PROFESSIONAL GEOLOGIST
JOSEPH W. NEELY
No. 6927
STATE OF CALIFORNIA

Figures: 1 - Vicinity Map
2 - Site Plan
3 - Soil Chemical Concentration Map
4 - Soil Vapor Chemical Concentration Map

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

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

cc: Mr. Denis Brown, Shell Oil Products US
Mr. Bill Phua, Foothill Boulevard LLC, P.O. Box 10664, Oakland, CA 94610

I:\Sonoma.Shell\Oakland 4411 Foothill\REPORTS\Dec 07 & Jan 08 Vapor SIR\Soil Vapor SIR Mar 08.doc

07/23/07

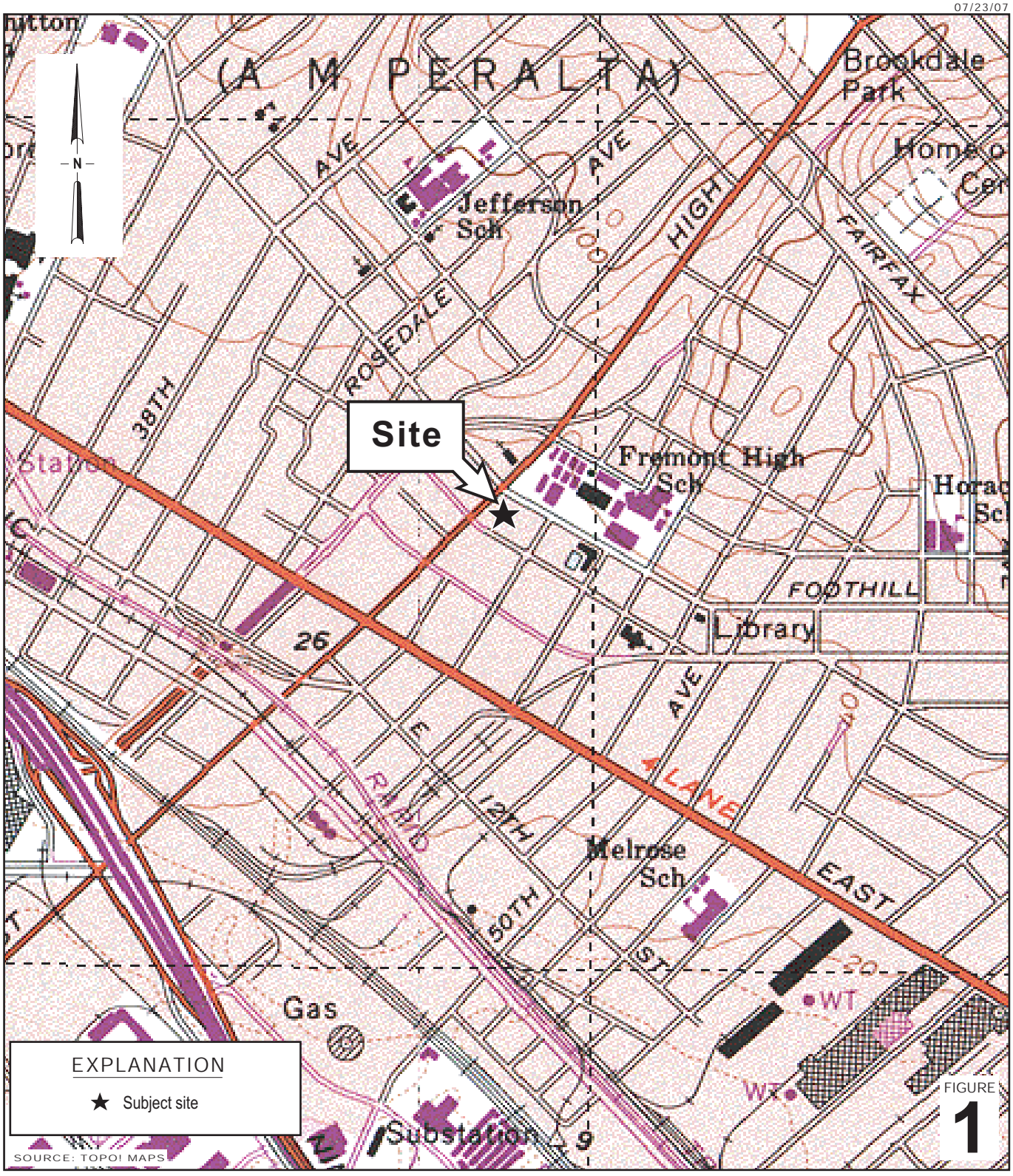


FIGURE 1

0 1/6 1/3 1/2 1

SCALE : 1" = 1/6 MILE

G:\OAKLAND4411FOOTHILL\FIGURES\VICINITY.AI

Former Shell Service Station
4411 Foothill Boulevard
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

26-Dec-07

Site Plan

EXPLANATION

- Monitoring well location
- Destroyed monitoring well location
- Vapor probe location
- Proposed soil vapor probe
- Proposed monitoring well location
- Electrical (E)
- Storm Drain (SD)
- Sanitary Sewer (SS)
- Gas (G)
- Water (W)
- Telecommunications (T)
- Overhead electrical lines (E)
- Unknown Line (UNK)
- Fire hydrant
- Manhole
- Power pole
- Flow direction

FOOTHILL BOULEVARD

HIGH STREET

4411

4413 Wood Mouling and Doors

4415

4417

4419

4421 Jackson Hewitt Tax Services

4423 Nails and Spa

BLDG. A

BLDG. B

Former Shell Station 4411 Foothill

Third Generation USTs (1984 to 2002)

Former Dispenser Islands

Former W/O UST (removed 1992)

First and Second Generation USTs (~1958 to 1984)

Laundry Mat

Former Dispenser Islands

Planter

Natural Gas Distrubution Manifold

Trash Enclosure

Restaurant

Parking

Parking

Commercial
4340 Bond St.

Residential
1724 High Street

Residential
4320 Bond Street

V-1 V-2 V-3 V-4 V-5 V-6 V-7 V-8 V-9 V-10 V-11 V-12

S-1 S-2 S-3 S-4 S-5 S-6 S-7 S-8 S-9 S-10 S-11 S-12 S-13

Scale (ft)
0 10 20 40

FIGURE
2

Former Shell Service Station
4411 Foothill Boulevard
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

0897

28-Feb-08

Soil Chemical Concentration Map

December 13 and 14, 2007

EXPLANATION

- Monitoring well location
- Destroyed monitoring well location
- Vapor probe location
- Proposed soil vapor probe
- Proposed monitoring well location
- **11/ND/ND/ND/5'** — TPHg/TPHd/benzene/MTBE concentration in mg/kg/depth of sample
- **ND** — Not detected at laboratory detection limit
- Electrical (E)
- Storm Drain (SD)
- Sanitary Sewer (SS)
- Gas (G)
- Water (W)
- Telecommunications (T)
- Overhead electrical lines (E)
- Unknown Line (UNK)
- Fire hydrant
- Manhole
- Power pole
- Flow direction

FOOTHILL BOULEVARD

HIGH STREET

4411
S-2
BLDG. A
Former Shell Station 4411 Foothill
BW-A
Third Generation USTs (1984 to 2002)
S-5
Laundry Mat
Former Dispenser Islands
Planter
S-8
Former W/O UST (removed 1992)
S-3
Planter
Residential 1724 High Street

4413
Wood Moulding and Doors

Natural Gas Distrubution Manifold
4415
V-5
ND/ND/ND/ND/5'
4417
BLDG. B
V-4
ND/ND/ND/ND/5'
S-6
V-6
11/ND/ND/ND/5'
4419
S-4
4421
Jackson Hewitt Tax Services
V-7
ND/ND/ND/ND/5'
V-3
0.85/ND/ND/ND/5'
4423
Nails and Spa
S-7
V-2
13/ND/ND/ND/5'
Natural Gas Distrubution Manifold
V-1
ND/ND/ND/ND/5'
Planter
Restaurant
V-8
S-9
V-9
First and Second Generation USTs (~1958 to 1984)
S-1
V-11
ND/ND/ND/ND/5'
V-10
ND/ND/ND/ND/5'
Trash Enclosure
S-13
V-12
Residential 4320 Bond Street

Parking
S-10
S-11
Parking
S-12
Commercial *4340 Bond St.*

Scale (ft)
0 10 20 40

FIGURE
3

Former Shell Service Station
4411 Foothill Boulevard
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

0897

28-Feb-08

Soil Vapor Chemical Concentration Map

January 14, 2008

FOOTHILL BOULEVARD

HIGH STREET

EXPLANATION

- Monitoring well location
- Destroyed monitoring well location
- Vapor probe location
- Proposed soil vapor probe
- Proposed monitoring well location
- **ND/ND/ND** — TPHg/benzene/MTBE soil vapor concentrations in micrograms per cubic meter
- **ND** — Not detected at laboratory detection limit
- **NS** — Not sampled
- Electrical (E)
- Storm Drain (SD)
- Sanitary Sewer (SS)
- Gas (G)
- Water (W)
- Telecommunications (T)
- Overhead electrical lines (E)
- Unknown Line (UNK)
- Fire hydrant
- Manhole
- Power pole
- Flow direction

4411
S-2
BLDG. A
Former Shell Station 4411 Foothill
BW-A
Third Generation USTs (1984 to 2002)
Laundry Mat
Former Dispenser Islands
Planter
Former W/O UST (removed 1992)
S-8
S-3
Planter
Residential 1724 High Street

4413
Wood Moulding and Doors

4415
Natural Gas Distrubution Manifold
V-5 **2,500,000**/ND/ND

4417
BLDG. B
V-4 **1,300,000**/ND/ND
S-6
V-6 **15,000,000/9,100**/ND

4419
S-4
4421
Jackson Hewitt Tax Services
V-7 **170,000**/ND/ND
V-3 **20,000,000/3,800**/ND
S-5
4423
Nails and Spa
S-7
V-2 **15,000,000/9,000**/ND
V-1 **16,000,000**/ND/ND
Natural Gas Distrubution Manifold
V-8
Restaurant
Planter
S-9
V-9
First and Second Generation USTs (~1958 to 1984)
S-1
V-11 **18,000**/ND/ND
Trash Enclosure
S-13
V-12
Residential 4320 Bond Street

Parking
S-10
S-11
Parking
S-12
Commercial *4340 Bond St.*

Scale (ft)
0 10 20 40

FIGURE
4

CONESTOGA-ROVERS & ASSOCIATES

Former Shell Service Station
4411 Foothill Boulevard
Oakland, California

0897

Table 1. Soil Analytical Data, Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

Sample ID	Depth (feet)	Date	TPHg (mg/kg)	TPHd (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
V-1-5	5	14-Dec-07	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050
V-2-5	5	14-Dec-07	**13**	<5.0	<0.0050	<0.0050	**0.021**	**0.022**	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050
V-3-5	5	13-Dec-07	**0.85**	<5.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050
V-4-5	5	13-Dec-07	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050
V-5-5	5	13-Dec-07	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050
V-6-5	5	14-Dec-07	**11**	<5.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050
V-7-5	5	14-Dec-07	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050
V-10-5	5	14-Dec-07	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050
V-11-5	5	13-Dec-07	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050

Notes and Abbreviations:

mg/kg = Milligrams per kilogram

TPHd = Total petroleum hydrocarbons as diesel w/silica gel by EPA 8015B

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015B

The following constituents analyzed by GCMS/8260B:

BTEX = Benzene, toluene, ethylbenzene, xylenes

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

TBA = Tertiary butyl alcohol

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

<x = Not detected at or below reporting limits

Table 2. Soil Vapor Analytical Data, Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

Sample ID	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 ($\mu g/m^3$)	MTBE ($\mu g/m^3$)	TBA ($\mu g/m^3$)	Isopropanol ($\mu g/m^3$)
V-1	4.5-4.8	14-Jan-08	**16,000,000**	**<1,200**	<1,400	<1,700	<5,000	<5,500	<4,600	4,200
V-2	4.5-4.8	14-Jan-08	**15,000,000**	**9,000**	<1,100	20,000	7,700	<4,100	<3,500	1,700
V-3	4.5-4.8	14-Jan-08	**20,000,000**	**3,800**	<2,800	<3,300	<9,800	<11,000	<9,100	<3,700
V-4	4.5-4.8	14-Jan-08	**1,300,000**	<150	<180	<210	<620	<680	<570	<230
V-5	4.5-4.8	14-Jan-08	**2,500,000**	**<290**	<340	<400	<1,190	<1,300	<1,100	520
V-6	4.5-4.8	14-Jan-08	**15,000,000**	**9,100**	<270	<310	<930	<1,000	<860	390
V-7	4.5-4.8	14-Jan-08	**170,000**	<19	<22	<25	<76	<84	<71	<29
V-10	4.5-4.8	14-Jan-08	**Unable to sample due to water in sample tube**							
V-11	4.5-4.8	14-Jan-08	18,000	<2.2	5.1	<3.0	<8.9	<9.8	<8.2	4.9
Ambient Air	NA	14-Jan-08	<17,000	<2.4	4.1	<3.2	<9.7	<11	<9.0	<3.7
***SFBRWQCB ESL's for Shallow Soil Gas**	**Commercial Land Use**		**29,000**	**280**	**180,000**	**580,000**	**58,000**	**31,000**	**NA**	**NA**
	Residential Land Use		**10,000**	**84**	**63,000**	**210,000**	**21,000**	**9,400**	**NA**	**NA**

Table 2. Soil Vapor Analytical Data, Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

Abbreviations and Notes:

fbg = Feet below grade

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

<x = Not detected at reporting limit x

NA = Not analyzed, not applicable, or not available

Results in **bold** exceed Environmental Screening Level for commercial land use

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

Methyl tertiary butyl ether (MTBE) and tertiary butyl alcohol (TBA) by Modified EPA Method TO-15

Isopropanol by EPA Method TO-15

* From Table E of SFBRWQCB ESLs. Ref: Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater - Interim Final - November 2007.

Attachment A

Site History

PREVIOUS WORK

Former Shell Service Station
4411 Foothill Boulevard
Oakland, California

1958 UST Piping Leak: On April 19, 1958, a gasoline shortage was discovered at the operating Shell station. It was determined that there was a piping leak into a concrete pump pit and then into the soil in the vicinity of the storage tanks. Product was found in an irrigation well located at 4320 Bond Street, adjacent to the Shell site. Shell installed 22 8-inch wells to depths of 15 feet below grade (fbg) along the property boundary and 1 well within the tank complex. Groundwater was pumped from the wells, and the extracted water was transported to a separator. Though the volume of the release is not known, Shell reported in a June 2, 1958 letter to Traveler's Insurance Company that they recovered 650 gallons of gasoline from the wells. No documentation of any soil or groundwater sampling in response to the release has been located.

1971 UST Removal and Replacement: A Shell document dated July 15, 1971 notes plans to remove the existing 6,000-gallon under ground storage tanks (USTs). No documentation of the UST removal or of any soil or groundwater sampling has been located in the archived files.

An invoice dated September 17, 1971 indicates the delivery of one 10,000-gallon UST, one 8,000-gallon UST, and one 550-gallon underground waste oil tank. No documentation of the tank installations has been located in the archived files.

1977 Dispenser Piping Leak: A Shell Oil Company Spill Report dated October 19, 1977 documents the release of 2,000 gallons of gasoline from a leaking pipe that ran from the USTs to the dispenser located closest to High Street. The report noted that the damaged section of pipe was replaced and that leak detectors were installed on all systems. No documentation of the repair or of any soil or groundwater sampling in response to the release has been located in the archived files.

1984 UST Removal and Replacement: A Shell purchase order dated October 1, 1984 indicates the removal of the existing USTs and installation of three 10,000-gallon fiberglass USTs. No documentation of the UST removal or of any confirmation sampling has been located in the archived files.

1991 Waste Oil Tank Leak: On June 5, 1991, Shell submitted to ACHCSA an Underground Storage Tank Unauthorized Release Report detailing a release from the 550-gallon waste oil tank at the site. The report stated that the release was caused by tank failure, that the volume of release was unknown, and that the contents of the tank had been removed. Shell's suggested remedial action to remove the waste oil tank.

1992 Waste Oil Tank Removal: A 550-gallon waste oil tank was removed on February 5, 1992. A soil sample was collected at the bottom of the excavation at a depth of approximately 11 fbg. No total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), benzene, toluene, ethylbenzene and xylenes (BTEX), oil and grease, halogenated volatile organic compounds, or metals were detected in the sample. Total lead was detected at 6.7 milligrams per kilogram (mg/kg). Details of the waste oil tank removal and sampling activities are presented in a March 26, 1992 GeoStrategies Inc. (GeoStrategies) report.

1992 Monitoring Well Installation: A single monitoring well (S-1) was installed in the vicinity of the waste-oil tank location. Details of this well installation are presented in the GeoStrategies' January 19, 1993 *Monitoring Well Installation Report.*

1993 Monitoring Well Installations: Hydro Environmental Technologies, Inc. (HETI) installed monitoring wells S-2 and S-3 on May 21, 1993. Well installation details are presented in HETI's July 22, 1993 report.

1995 Soil and Groundwater Investigation: Pacific Environmental Group (PEG) of San Jose, California conducted a Geoprobe® investigation in June 1995. The investigation consisted of advancing eight on-site soil borings and two off-site borings to collect soil and groundwater samples. PEG's September 12, 1995 *Site Investigation* report presents investigation details.

1998 Product Equipment Upgrades: In November 1998, Paradiso Mechanical (Paradiso) of San Leandro, California upgraded the service station by adding secondary containment to the gasoline turbines and dispensers. Details of dispenser upgrade and sampling activities are presented in Cambria's November 30, 1998 *Dispenser Soil Sampling Report.*

January 1999 Letter Response and Work Plan: In response to the December 7, 1998 ACHCSA letter to Equiva Services LLC (Equiva), Cambria prepared a *Letter Response and Work Plan* dated January 11, 1999. In this work plan, Cambria proposed an additional on-site groundwater monitoring well (S-4) and enhanced groundwater oxygenation via hydrogen peroxide injection into existing site wells.

March 1999 Work Plan Addendum: In a phone conversation with Cambria on February 1, 1999, ACHCSA requested additional information regarding the location of proposed well S-4 and the use of hydrogen peroxide. As a result, Cambria submitted a *Work Plan Addendum* on March 18, 1999. In this addendum, Cambria proposed locating well S-4 between the station building and the nearest dispenser-island to the north. Due to the lack of requested response from the Oakland Fire Department on the safety of hydrogen peroxide use, Cambria also proposed the application of oxygen releasing compound (ORC) in lieu of hydrogen peroxide.

April 1999 ACHCSA Letter: In an April 30, 1999 letter to Equiva, ACHCSA requested further information regarding the application of ORC. In addition, the ACHCSA requested that Cambria perform a feasibility study to evaluate alternatives to prevent methyl tertiary butyl ether (MTBE) migration. Cambria provided the requested information in the *Letter Response* dated June 15, 1999. In September 1999, ORC socks were installed in wells S-1, S-2, and BW-A.

December 1999 Letter Response, Work Plan, and Conduit Study: In a November 10, 1999 letter, the ACHCSA requested that a site conceptual model (SCM) and work plan be prepared for the site. Cambria submitted a *Letter Response and Work Plan* on December 13, 1999. In that work plan, Cambria presented findings of a subsurface conduit study. Several conduits, which may provide limited preferential groundwater flow at times of high groundwater elevations, were identified.

January 2000 Site Investigation: Cambria conducted a site investigation in January 2000. Per ACHCSA requests, well S-4 was proposed between the station building and southeastern dispenser island. However, a conduit was encountered while drilling boring SB-4, and the boring was relocated approximately 50 feet southeast. The second boring (SB-4B) was located adjacent to the southeast corner of the station building, and well S-4 was installed in boring SB-4B to a depth of 20 fbg. In boring SB-4B, the maximum TPHd and TPHg concentrations were detected in sample SB-4B-5.5 at 27.2 mg/kg and 28.2 mg/kg, respectively. The maximum benzene concentration was detected in sample SB-4B-10.5 at 0.0696 mg/kg. The maximum MTBE concentration by EPA Method 8020 was reported in sample SB-4B-19.0 at 0.233 mg/kg. MTBE was confirmed by EPA Method 8260 in sample SB-4B-19.0 at a concentration of 0.0549 mg/kg. Investigation details are contained in Cambria's November 17, 2000 *Site Investigation Report.*

November 2001 Corrective Action Plan (CAP): On November 12, 2001, Cambria submitted a CAP in preparation for impending site demolition and fueling facility removal. In the CAP, Cambria discussed remedial alternatives and made remedial action recommendations. Cambria recommended additional on-site over-excavation, following removal of the underground facilities, to substantially remove residual impacted soils from within the property boundaries. Cambria also recommended removing groundwater from the excavation, and placing ORC at the base of the excavation to enhance biological degradation of residual impacted soil and groundwater. Continued quarterly groundwater monitoring was recommended to track the subsequent natural attenuation process.

February 2002 UST Closure Report: Paradiso removed the gasoline USTs and hydraulic hoists, and over-excavated approximately 1,250 cubic yards of impacted soil around and beneath the USTs, product dispenser islands, and hydraulic hoists. Phillips Services Corporation extracted approximately 16,000 gallons of groundwater from the excavation pits. Following over-excavation, Paradiso placed 810 pounds of ORC powder on the bottom of the excavation. Details of the fuel facilities removal and corrective action are presented in Cambria's February 25, 2002 *Underground Storage Tank Closure Report.*

May 2002 Well Installation: In May 2002, Cambria installed one groundwater monitoring well (S-5) to complete the network of monitoring wells on site. The well was installed at a depth of 22 fbg. During the boring advancement, soil samples were collected at 15 and 20 fbg for lithologic logging purposes. Because these soil samples were collected beneath the water table, they were not submitted for chemical analysis. The well installation is described in Cambria's July 2, 2002 *Monitoring Well Installation Report.*

2005 Subsurface Investigation Work Plan and SCM: In response to a request in a June 10, 2005 letter from ACHCSA, Cambria submitted a *Subsurface Investigation Work Plan and Site Conceptual Model* on August 16, 2005. In anticipation of site redevelopment, Cambria recommended destroying all on-site wells, and replacing them following a subsurface investigation of the site to assist with re-locating the wells after site development was completed.

2005 Well Destructions: In anticipation of redevelopment of the site, Cambria destroyed wells S-1 through S-5 on July 14, 2005. The well destructions were completed in accordance with Alameda County Public Works Agency and San Francisco Regional Water Quality Control Board guidelines. The well destructions are described in Cambria's August 19, 2005 *Well Destruction Report.*

2005 Subsurface Investigation and Over-Excavation: In August 2005, Cambria advanced two soil borings to investigate the extent of petroleum hydrocarbon impacted soil and groundwater from the 1958 UST release. Borings TB-1 and TB-3 were advanced to 32 fbg and 22.5 fbg, respectively, and contained concentrations of up to 1,600 mg/kg TPHg in soil and 180,000 micrograms per liter (µg/l) TPHg, 22,000 µg/l benzene, 9,700 µg/l toluene, 5,200 µg/l ethylbenzene, 25,000 µg/l total xylenes, and 13.4 µg/l lead in groundwater. Because the former UST area was located within the proposed footprint of a new building to be constructed at the site, Cambria excavated soil to the extent feasible in order to remove hydrocarbon-impacted soil beneath the building prior to site redevelopment. The excavation was completed to dimensions of 20 feet long by 25 feet wide by 20 feet deep. Following excavation, Cambria collected one confirmation soil sample from each sidewall and two soil samples from the excavation base. No water was observed in the bottom of the excavation. The activities are described in their entirety in Cambria's November 16, 2005 *Subsurface Investigation and Over-Excavation Report.*

2006 Subsurface Investigation for Replacement Wells: In May 2006, Cambria advanced five soil borings (SB-5 through SB-8, and SB-12) at the site to provide additional information on the site's lithology, to assist with determining screen intervals for the replacement wells proposed for the site, and to assess the vertical profile of subsurface contamination. Proposed soil borings SB-9, SB-10, and SB-11, which were proposed offsite and adjacent to the site, toward the south, south-southeast, and east to investigate offsite soil and groundwater conditions associated with the large 1958 fuel release, were not installed because Shell was denied access to the subject offsite property. Based on this and previous investigation investigations at the site, the below noted conclusions were made.

The soil impacts appear to be limited to the vicinity of the former USTs, dispensers, and product piping, to depths above approximately 15 fbg. Historical maximum concentrations of petroleum constituents in site soils have been reported at 3,100 mg/kg TPHg, 244 mg/kg TPHd, 9.6 mg/kg benzene, and 2.5 mg/kg MTBE (by EPA 8260).

The vertical extent of impact in the groundwater at the site has been determined by the groundwater results from boring SB-12, located just downgradient of the source area of the first- and second-generation USTs. Although the sample SB-12W was collected from a temporary well screen from the interval between 0 to 27 fbg, the source of the groundwater sample is likely the more permeable soils between 8 to 15 fbg, and above the silts and clays between 15 and 27 fbg. The results from the groundwater sample from 31 to 35 fbg in this boring indicate that the detectable hydrocarbon constituents attenuate one to two orders of magnitude with depth.

It appears that the chemicals of concern in the shallow groundwater at this site are TPHg, BTEX, and MTBE. MTBE has been most evident in the upgradient well S-2, and may actually reflect influence from known off-site upgradient and crossgradient sources of MTBE. Since 2005, maximum TPHg, BTEX, and MTBE concentrations were reported in a grab shallow groundwater sample from boring TB-3 (advanced in August 2005 within the former first- and second-generation UST area) at 180,000 µg/l TPHg, 22,000 µg/l benzene, 9,700 µg/l toluene, 5,200 µg/l ethylbenzene, 25,000 µg/l total xylenes, and 890 µg/l MTBE. Maximum concentrations of these constituents in the on-site wells the last time they were sampled (June 2005) were at 13,000 µg/l TPHg (S-1 and S-4), 200 µg/l benzene (S-2), 310 µg/l toluene (S-1), 1,200 µg/l ethylbenzene (S-1), 3,300 µg/l total xylenes (S-1), and 890 µg/l MTBE (S-4).

A February 2000 sensitive receptor survey identified 58 monitoring, test, or industrial wells located within a ½-mile radius of the site. No municipal, domestic, or irrigation wells were identified. Given the depth and distance of the identified wells, it was concluded that it was unlikely that chemicals originating from the subject site would impact any of these wells. Although groundwater in this area cannot be precluded from being a potential future source of drinking water, it is not currently a source of drinking water, and given the commercial nature of the land use at the site, the proximity to San Leandro Bay, and the shallow depth, it is unlikely that the first water-bearing zone would be used as a source of drinking water in the foreseeable future. Further, in accordance with the June 1999 California Regional Water Quality Control Board, San Francisco Bay Region Groundwater Committee "East Bay Plain Groundwater Basin Beneficial Use Evaluation Report for Alameda and Contra Costa Counties, CA." the City of Oakland (among other cities) does not have plans to develop local groundwater resources for drinking water purposes, because of existing or potential saltwater intrusion, contamination, or poor or limited quantity. Thus, the environmental screening levels (ESLs) published in San Francisco Bay Regional Water Quality Control Board's *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater* (Interim Final – February 2005) for drinking water do not apply at the site, and Table B with ESLs for sites were groundwater is considered not potable becomes applicable.

Post-2005 maximum concentrations of MTBE do not exceed the lowest ESL of 1,800 µg/l established for protection of groundwater considered to be non-drinking water. Thus, the focus of the ongoing groundwater investigation at this site should pertain to assessing TPHg and BTEX concentrations and trends, and evaluating any potential vapor threat from these constituents in shallow groundwater to nearby receptors.

The activities are described in their entirety in Cambria's July 25, 2005 *Subsurface Investigation Report and Monitoring Well Installation Work Plan.*

2007 Subsurface Investigation to Install Replacement Wells: In February 2007, four replacement wells (S-6 through S-9) were installed at the site by Conestoga-Rovers & Associates (CRA) at locations determined by the findings of Cambria's July 25, 2005 *Subsurface Investigation Report and Monitoring Well Installation Work Plan.* The findings of the investigation indicate that:

- Low level concentrations of TPHd, TPHg, benzene, MTBE, and tertiary butyl alcohol (TBA) were reported in site soils in these borings extending into the groundwater interface. The concentrations reported in saturated soil samples may actually represent groundwater impact.
- To assess general groundwater quality at this location, all four site wells were analyzed for total dissolved solids (TDS). The TDS concentrations ranged from 500 to 910 milligrams per liter (mg/l), which do not exceed the secondary Maximum Contaminant Level (MCL) established for drinking water of 3,000 mg/l. Thus, the TDS data do not eliminate the groundwater from potentially being used for drinking water.
- Detectable concentrations of TPHd, TPHg, BTEX, and MTBE were reported in the groundwater samples from all four wells. Additionally, concentrations of TBA and 1,2-dichlorethane (1,2-DCA) were reported in all wells except S-9.
- The chemicals of concern in the groundwater samples collected from these four wells at the site during this investigation appear to be TPHg and benzene, with the maximum concentrations of each reported in well S-7 (March 2007) at 100,000 and 32,000 µg/l, respectively.

The activities are described in their entirety in CRA's April 19, 2007 *Site Investigation and First Quarter 2007 Groundwater Monitoring Report.*

Groundwater Characteristics and Monitoring Results to Date: Groundwater has been monitored at the site since December 1992. Since then, groundwater depths have ranged from approximately 6 to 12 fbg. The calculated groundwater gradient typically trends southwesterly at approximately 0.12 feet per foot (ft/ft). Groundwater at the site appears to be semi-confined to confined, as indicated by the differences between the depth at which it is first encountered during boring advancement and the measured depth in wells.

Elevated concentrations of select petroleum hydrocarbon constituents are present in groundwater at the site. Groundwater monitoring was temporary discontinued at the site following the second quarter 2005 sampling event, and the site's monitoring wells S-1 through S-5 were abandoned on July 14, 2005 in anticipation of redevelopment construction at the site. During the second quarter 2005 monitoring event, which occurred just prior to the abandonment of wells S-1 through S-5, the highest TPHg concentration detected was 13,000 µg/l in both wells S-1 and S-4. At that time, the maximum benzene and MTBE concentrations in groundwater were 1,900 µg/l and 460 µg/l, respectively, in S-4. In addition, during the September 2004 sampling, tert-butyl alcohol (TBA) was detected in wells S-2, S-4, and S-5 at concentrations of 450, 140, and 3,700 µg/l, respectively. Up through June of 2006, no other oxygenates had been detected in groundwater at the site, and TPHd had been reported historically in the wells, with the maximum concentration reported in June of 2002 at 2,700 µg/l in well S-4.

Groundwater monitoring at the site continued in March of 2007 with the installation of the replacement wells S-6 through S-9, with wells S-7 and S-8 reported elevated concentrations of petroleum hydrocarbons, particularly TPHg and benzene. During the Fourth Quarter 2007 sample event, maximum concentrations of select hydrocarbons were reported at 100,000 µg/l of TPHg (S-7), 25,000 µg/l TPHd (S-7), and 22,000 µg/l benzene (S-7). Many of the TPHd results historically reported in all site wells also had associated laboratory notes stating either that the chromatogram pattern indicates an unidentified hydrocarbon and the hydrocarbon pattern did not match the pattern of the laboratory's standard, or that hydrocarbon reported was in the early diesel range and did not match the laboratory's standard. This suggests that is possible that the TPHd being reported at this site could be that of weathered gasoline.

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: 11/20/2007 By vickyh1

Permit Numbers: W2007-1178
Permits Valid from 12/17/2007 to 12/19/2007

Application Id: 1194040534645
Site Location: 4411 Foothill Blvd, Oakland, CA
Project Start Date: 12/17/2007

City of Project Site: Oakland
Completion Date: 12/19/2007

Applicant: Conestoga-Rovers & Associates - Scott Lewis
19449 Riverside Dr #230, Sonoma, CA 94576
Phone: 707-933-2369

Property Owner: Bill Phwa
PO Box 10664, Oakland, CA 94610
Phone: 510-761-3333

Client: ** same as Property Owner **

Total Due: $200.00
Receipt Number: WR2007-0515 **Total Amount Paid:** $200.00
Payer Name : Conestoga-Rovers & Paid By: CHECK **PAID IN FULL**
Associates

Works Requesting Permits:

Remedian Well Construction-Vapor Probe Well - 11 Wells
Driller: Gregg Drilling - Lic #: 485165 - Method: other **Work Total: $200.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2007-1178	11/20/2007	03/16/2008	V1	3.50 in.	0.50 in.	2.00 ft	2.50 ft
W2007-1178	11/20/2007	03/16/2008	V10	3.50 in.	0.50 in.	2.00 ft	2.50 ft
W2007-1178	11/20/2007	03/16/2008	V11	3.50 in.	0.50 in.	2.00 ft	2.50 ft
W2007-1178	11/20/2007	03/16/2008	V2	3.50 in.	0.50 in.	2.00 ft	2.50 ft
W2007-1178	11/20/2007	03/16/2008	V3	3.50 in.	0.50 in.	2.00 ft	2.50 ft
W2007-1178	11/20/2007	03/16/2008	V4	3.50 in.	0.50 in.	2.00 ft	2.50 ft
W2007-1178	11/20/2007	03/16/2008	V5	3.50 in.	0.50 in.	2.00 ft	2.50 ft
W2007-1178	11/20/2007	03/16/2008	V6	3.50 in.	0.50 in.	2.00 ft	2.50 ft
W2007-1178	11/20/2007	03/16/2008	V7	3.50 in.	0.50 in.	2.00 ft	2.50 ft
W2007-1178	11/20/2007	03/16/2008	V8	3.50 in.	0.50 in.	2.00 ft	2.50 ft
W2007-1178	11/20/2007	03/16/2008	V9	3.50 in.	0.50 in.	2.00 ft	2.50 ft

Specific Work Permit Conditions

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

2. 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 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.

5. Minimum seal depth (Neat Cement Seal) is 2 feet below ground surface (BGS).

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

7. 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.

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

Attachment C

Boring Logs

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
19449 Riverside Drive, Suite 230
Sonoma, CA 95476
Telephone: 707-935-4850
Fax: 707-935-6649

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	V-1
JOB/SITE NAME	Former Shell Branded Service Station	**DRILLING STARTED**	14-Dec-17
LOCATION	4411 Foothill Blvd, Oakland, California	**DRILLING COMPLETED**	14-Dec-07
PROJECT NUMBER	0897	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Airknife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	4"	**SCREENED INTERVAL**	4.5 to 4.8 fbg
LOGGED BY	S. Lewis	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	D. Baertshci	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					CONCRETE		**CONCRETE**	0.5	1/4" diam., Teflon Tubing
					ML		**SILT with Gravel (ML)** ; dark brown (10YR 3/3); moist; 15% clay, 50% silt, 5% fine to coarse sand, 30% fine to coarse gravel; low plasticity. @ 1' - **SILT (ML)** ; black (10YR 2/1); moist; 15% clay, 80% silt, 5% fine to coarse sand; low to medium plasticity.		Bentonite Slurry with Pellet Base
1.2		V-1-5'		5			@ 4' - 20% clay, 80% silt.	5.2	#2/12 Sand 3" length of Stainless Steel Screen
				10					Bottom of Boring @ 5.16 ft

WELL LOG (PID) I:\SONOMA.SHELL\OAKLAND 4411 FOOTHILL\GINT\0897.GPJ DEFAULT.GDT 12/27/07

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476
Telephone: 707-935-4850
Fax: 707-935-6649

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	V-2
JOB/SITE NAME	Former Shell Branded Service Station	**DRILLING STARTED**	14-Dec-07
LOCATION	4411 Foothill Blvd, Oakland, California	**DRILLING COMPLETED**	14-Dec-07
PROJECT NUMBER	0897	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Airknife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	4"	**SCREENED INTERVAL**	4.5 to 4.8 fbg
LOGGED BY	S. Lewis	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	D. Baertshci	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					CONCRETE		**CONCRETE**	0.5	1/4" diam., Teflon Tubing
					ML		**SILT (ML)** ; brown (10YR 4/3); moist; 10% clay, 80% silt, 5% fine to coarse sand, 510% fine to coarse gravel; low plasticity.		Bentonite Slurry with Pellet Base
51.7		V-2-5'		5			@ 4' - 10% clay, 85% silt, 5% fine to coarse sand.	5.2	#2/12 Sand 3" length of Stainless Steel Screen
				10					Bottom of Boring @ 5.25 ft

WELL LOG (PID) I:\SONOMA.SHELL\OAKLAND 4411 FOOTHILL\GINT\0897.GPJ DEFAULT.GDT 12/27/07

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476
Telephone: 707-935-4850
Fax: 707-935-6649

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	V-3
JOB/SITE NAME	Former Shell Branded Service Station	**DRILLING STARTED**	13-Dec-07
LOCATION	4411 Foothill Blvd, Oakland, California	**DRILLING COMPLETED**	13-Dec-07
PROJECT NUMBER	0897	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Airknife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	4"	**SCREENED INTERVAL**	4.5 to 4.8 fbg
LOGGED BY	S. Lewis	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	D. Baertshci	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					CONCRETE		**CONCRETE**	0.5	1/4" diam., Teflon Tubing
							SILT (ML); dark grayish brown (2.5Y 4/2); moist; 15% clay, 80% silt, 5% fine sand; low plasticity.		
							@ 2' - very dark gray (10YR 3/1).		
					ML				Bentonite Slurry with Pellet Base
0.0		V-3-5'		5				5.5	#2/12 Sand
									3" length of Stainless Steel Screen
				10					Bottom of Boring @ 5.5 ft

WELL LOG (PID) I:\SONOMA.SHELL\OAKLAND 4411 FOOTHILL\GINT\0897.GPJ DEFAULT.GDT 12/27/07

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476
Telephone: 707-935-4850
Fax: 707-935-6649

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	V-4
JOB/SITE NAME	Former Shell Branded Service Station	**DRILLING STARTED**	13-Dec-07
LOCATION	4411 Foothill Blvd, Oakland, California	**DRILLING COMPLETED**	13-Dec-07
PROJECT NUMBER	0897	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Airknife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	4"	**SCREENED INTERVAL**	4.5 to 4.8 fbg
LOGGED BY	S. Lewis	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	D. Baertshci	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					CONCRETE		**CONCRETE**	0.5	1/4" diam., Teflon Tubing
					ML		**SILT with Gravel (ML)** ; yellowish brown (10YR 5/4); moist; 10% clay, 70% silt, 5% fine to coarse sand, 5% fine to coarse gravel; low plasticity. @ 1' - **SILT (ML)** ; yellowish brown (10YR 5/4); moist; 10% clay, 80% silt, 5% fine to coarse sand, 5% fine to coarse gravel; low plasticity.		Bentonite Slurry with Pellet Base
0.0		V-4-5'		5				5.2	#2/12 Sand 3" length of Stainless Steel Screen
				10					Bottom of Boring @ 5.25 ft

WELL LOG (PID) I:\SONOMA.SHELL\OAKLAND 4411 FOOTHILL\GINT\0897.GPJ DEFAULT.GDT 12/27/07

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476
Telephone: 707-935-4850
Fax: 707-935-6649

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	V-5
JOB/SITE NAME	Former Shell Branded Service Station	**DRILLING STARTED**	13-Dec-07
LOCATION	4411 Foothill Blvd, Oakland, California	**DRILLING COMPLETED**	13-Dec-07
PROJECT NUMBER	0897	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Airknife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	4"	**SCREENED INTERVAL**	4.5 to 4.8 fbg
LOGGED BY	S. Lewis	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	D. Baertshci	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					CONCRETE		**CONCRETE**	0.8	1/4" diam., Teflon Tubing
					ML		**Gravelly SILT (ML)**; brown (10YR 5/3); moist; 5% clay, 65% silt, 5% fine to coarse sand, 25% fine to coarse gravel. @ 2' - **SILT with Sand (ML)**; brown (10YR 5/3); moist; 5% clay, 70% silt, 25% fine to coarse sand. @ 3' - **SILT (ML)**; dark grayish brown (2.5Y 4/2); moist; 5% clay, 85% silt, 5% fine to coarse sand, 5% fine to coarse gravel.	5.3	Bentonite Slurry with Pellet Base #2/12 Sand 3" length of Stainless Steel Screen Bottom of Boring @ 5.3 ft
0.0		V-5-5'		5					
				10					

WELL LOG (PID) I:\SONOMA.SHELL\OAKLAND 4411 FOOTHILL\GINT\0897.GPJ DEFAULT.GDT 12/27/07

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476
Telephone: 707-935-4850
Fax: 707-935-6649

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	V-6
JOB/SITE NAME	Former Shell Branded Service Station	**DRILLING STARTED**	14-Dec-07
LOCATION	4411 Foothill Blvd, Oakland, California	**DRILLING COMPLETED**	14-Dec-07
PROJECT NUMBER	0897	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Airknife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	4"	**SCREENED INTERVAL**	4.5 to 4.8 fbg
LOGGED BY	S. Lewis	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	D. Baertshci	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					CONCRETE		**CONCRETE**	0.5	1/4" diam., Teflon Tubing
					ML		**SILT (ML)**; yellowish brown (10YR 5/4); moist; 10% clay, 80% silt, 5% fine to coarse sand, 5% fine to coarse gravel; low plasticity. @ 2' - 10% clay, 85% silt, 5% fine to coarse sand.		Bentonite Slurry with Pellet Base
3.3		V-6-5'		5			@ 4.5' - 15% clay, 85% silt; low to medium plasticity.	5.3	#2/12 Sand 3" length of Stainless Steel Screen Bottom of Boring @ 5.25 ft
				10					

WELL LOG (PID) I:\SONOMA.SHELL\OAKLAND 4411 FOOTHILL\GINT\0897.GPJ DEFAULT.GDT 12/27/07

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476
Telephone: 707-935-4850
Fax: 707-935-6649

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	V-7
JOB/SITE NAME	Former Shell Branded Service Station	**DRILLING STARTED**	14-Dec-07
LOCATION	4411 Foothill Blvd, Oakland, California	**DRILLING COMPLETED**	14-Dec-07
PROJECT NUMBER	0897	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Airknife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	4"	**SCREENED INTERVAL**	4.5 to 4.8 fbg
LOGGED BY	S. Lewis	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	D. Baertshci	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					CONCRETE		**CONCRETE**	0.5	1/4" diam., Teflon Tubing
					ML		**SILT (ML)** ; dark grayish brown (10YR 4/2); moist; 10% clay, 80% silt, 5% fine to coarse sand, 5% fine to coarse gravel; low plasticity. @ 1' - 10% clay, 85% silt, 5% fine to coarse sand.		Bentonite Slurry with Pellet Base
0.2		V-7-5'		5				5.3	#2/12 Sand 3" length of Stainless Steel Screen
				10					Bottom of Boring @ 5.25 ft

WELL LOG (PID) I:\SONOMA.SHELL\OAKLAND 4411 FOOTHILL\GINT\0897.GPJ DEFAULT.GDT 12/27/07

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476
Telephone: 707-935-4850
Fax: 707-935-6649

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	V-10
JOB/SITE NAME	Former Shell Branded Service Station	**DRILLING STARTED**	14-Dec-07
LOCATION	4411 Foothill Blvd, Oakland, California	**DRILLING COMPLETED**	14-Dec-07
PROJECT NUMBER	0897	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Airknife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	4"	**SCREENED INTERVAL**	4.5 to 4.8 fbg
LOGGED BY	S. Lewis	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	D. Baertshci	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					CONCRETE		**CONCRETE**	0.5	1/4" diam., Teflon Tubing
					ML		**SILT (ML)**; brown (7.5YR 4/4); moist; 10% clay, 80% silt, 5% fine to coarse sand, 5% fine to coarse gravel; low plasticity. @ 1.5' - black (10YR 2/1).		Bentonite Slurry with Pellet Base
0.5		V-10-5'		5			@ 4' - dark grayish brown (2.5Y 4/2); 20% clay, 80% silt; medium plasticity.	5.2	#2/12 Sand 3" length of Stainless Steel Screen
				10					Bottom of Boring @ 5.16 ft

WELL LOG (PID) I:\SONOMA.SHELL\OAKLAND 4411 FOOTHILL\GINT\0897.GPJ DEFAULT.GDT 12/27/07

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476
Telephone: 707-935-4850
Fax: 707-935-6649

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	V-11
JOB/SITE NAME	Former Shell Branded Service Station	**DRILLING STARTED**	13-Dec-07
LOCATION	4411 Foothill Blvd, Oakland, California	**DRILLING COMPLETED**	13-Dec-07
PROJECT NUMBER	0897	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Airknife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	4"	**SCREENED INTERVAL**	4.5 to 4.8 fbg
LOGGED BY	S. Lewis	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	D. Baertshci	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					CONCRETE		**CONCRETE**	0.5	
					ML		**SILT with Gravel (ML)** ; olive brown (2.5Y 4/3); moist; 10% clay, 75% silt, 5% fine to coarse sand, 10% fine to coarse gravel; low plasticity. @ 1' - **SILT (ML)** ; olive brown (2.5Y 4/3); moist; 10% clay, 80% silt, 5% fine to coarse sand, 5% fine to coarse gravel; low plasticity. @ 3' - black (10YR 2/1); 15% clay, 85% silt; low to medium plasticity.		1/4" diam., Teflon Tubing Bentonite Slurry with Pellet Base #2/12 Sand 3" length of Stainless Steel Screen
0.0		V-11-5'		5				5.2	Bottom of Boring @ 5.16 ft
				10					

WELL LOG (PID) I:\SONOMA.SHELL\OAKLAND 4411 FOOTHILL\GINT\0897.GPJ DEFAULT.GDT 12/27/07

Attachment D

Waste Disposal Documentation

Calscience Environmental Laboratories, Inc.

December 31, 2007

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

Subject: **Calscience Work Order No.: 07-12-1621**
Client Reference: 4411 Foothill Blvd., Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/19/2007 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.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 12/19/07
Work Order No: 07-12-1621
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
SP-1	**07-12-1621-5-A**	**12/14/07**	**Solid**	**ICP 5300**	**12/19/07**	**12/20/07**	**071219L12**

Comment(s): -Mercury was analyzed on 12/19/2007 7:46:15 PM with batch 071219L07

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	0.159	0.0835	1	
Arsenic	4.10	0.750	1		Molybdenum	ND	0.250	1	
Barium	188	0.500	1		Nickel	57.3	0.250	1	
Beryllium	0.553	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	42.7	0.250	1		Thallium	ND	0.750	1	
Cobalt	13.4	0.250	1		Vanadium	38.3	0.250	1	
Copper	24.5	0.500	1		Zinc	39.5	1.00	1	
Lead	16.3	0.500	1						

Method Blank	**099-04-007-5,203**	**N/A**	**Solid**	**Mercury**	**12/19/07**	**12/19/07**	**071219L07**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	**097-01-002-10,216**	**N/A**	**Solid**	**ICP 5300**	**12/19/07**	**12/19/07**	**071219L12**

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: 12/19/07
Work Order No: 07-12-1621
Preparation: EPA 3550B
Method: EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
SP-1	**07-12-1621-5-A**	**12/14/07**	**Solid**	**GC 43**	**12/26/07**	**12/26/07**	**071226B04**

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.
-The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	20	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	61-145	

Method Blank	**099-12-025-95**	**N/A**	**Solid**	**GC 43**	**12/26/07**	**12/26/07**	**071226B04**

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	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: 12/19/07
Work Order No: 07-12-1621
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
SP-1	**07-12-1621-5-A**	**12/14/07**	**Solid**	**GC 43**	**12/26/07**	**12/26/07**	**071226B05**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	47	25	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	61-145	

Method Blank	**099-12-254-348**	**N/A**	**Solid**	**GC 43**	**12/26/07**	**12/26/07**	**071226B05**

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	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: 12/19/07
Work Order No: 07-12-1621
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
SP-1	**07-12-1621-5-A**	**12/14/07**	**Solid**	**GC 22**	**12/19/07**	**12/20/07**	**071219B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	12	5.0	10		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	76	42-126	

Method Blank	099-12-279-1,395	N/A	Solid	GC 22	12/19/07	12/19/07	071219B02

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5.0	10		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
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: 12/19/07
Work Order No: 07-12-1621
Preparation: DHS LUFT
Method: DHS LUFT

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
SP-1	**07-12-1621-5-A**	**12/14/07**	**Solid**	**FLAA**	**12/28/07**	**12/28/07**	**071228L02**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	1.89	1.00	1		mg/kg

Method Blank	**099-10-020-785**	**N/A**	**Solid**	**FLAA**	**12/28/07**	**12/28/07**	**071228L02**

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:	12/19/07
19449 Riverside Drive, Suite 230		Work Order No:	07-12-1621
Sonoma, CA 95476-6955		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	mg/kg

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
SP-1	**07-12-1621-5-A**	**12/14/07**	**Solid**	**GC/MS X**	**12/26/07**	**12/27/07**	**071226L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.0063	0.0050	1		p/m-Xylene	0.049	0.0050	1	
Ethylbenzene	0.012	0.0050	1		o-Xylene	0.037	0.0050	1	
Toluene	0.030	0.0050	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	73-139		1,2-Dichloroethane-d4	102	73-145	
Toluene-d8	98	90-108		1,4-Bromofluorobenzene	98	71-113	

Method Blank	099-10-005-15,249	N/A	Solid	GC/MS X	12/26/07	12/27/07	071226L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		p/m-Xylene	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		o-Xylene	ND	0.0050	1	
Toluene	ND	0.0050	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	98	73-139		1,2-Dichloroethane-d4	100	73-145	
Toluene-d8	96	90-108		1,4-Bromofluorobenzene	97	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: 12/19/07
Work Order No: 07-12-1621
Preparation: EPA 3050B
Method: EPA 6010B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-12-1654-2	**Solid**	**ICP 5300**	**12/19/07**	**12/19/07**	**071219S12**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	24	25	50-115	3	0-20	3
Arsenic	101	104	75-125	2	0-20	
Barium	4X	4X	75-125	4X	0-20	Q
Beryllium	98	104	75-125	6	0-20	
Cadmium	95	101	75-125	6	0-20	
Chromium	103	112	75-125	5	0-20	
Cobalt	97	105	75-125	6	0-20	
Copper	103	116	75-125	7	0-20	
Lead	94	103	75-125	7	0-20	
Molybdenum	92	96	75-125	5	0-20	
Nickel	102	109	75-125	5	0-20	
Selenium	84	89	75-125	5	0-20	
Silver	91	99	75-125	8	0-20	
Thallium	38	67	75-125	55	0-20	3,4
Vanadium	105	118	75-125	5	0-20	
Zinc	90	104	75-125	4	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: 12/19/07
Work Order No: 07-12-1621
Preparation: EPA 3550B
Method: EPA 8015B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-12-1842-5	**Solid**	**GC 43**	**12/26/07**	**12/26/07**	**071226S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	103	93	64-130	10	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: 12/19/07
Work Order No: 07-12-1621
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-12-1842-5	**Solid**	**GC 43**	**12/26/07**	**12/26/07**	**071226S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	103	90	64-130	13	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: 12/19/07
Work Order No: 07-12-1621
Preparation: DHS LUFT
Method: DHS LUFT

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-12-2088-21	**Solid**	**FLAA**	**12/28/07**	**12/28/07**	**071228S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	98	100	22-148	2	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: 12/19/07
Work Order No: 07-12-1621
Preparation: EPA 7471A Total
Method: EPA 7471A

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-12-0890-2	**Solid**	**Mercury**	**12/19/07**	**12/19/07**	**071219S07**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	86	87	84-138	1	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: 12/19/07
Work Order No: 07-12-1621
Preparation: EPA 5030B
Method: EPA 8260B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-12-1620-9	**Solid**	**GC/MS X**	**12/26/07**	**12/27/07**	**071226S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	91	79-115	3	0-13	
Carbon Tetrachloride	76	79	55-139	3	0-15	
Chlorobenzene	95	91	79-115	4	0-17	
1,2-Dibromoethane	94	99	70-130	6	0-30	
1,2-Dichlorobenzene	86	85	63-123	1	0-23	
1,1-Dichloroethene	85	83	69-123	3	0-16	
Ethylbenzene	93	91	70-130	2	0-30	
Toluene	96	93	79-115	3	0-15	
Trichloroethene	94	91	66-144	2	0-14	
Vinyl Chloride	80	79	60-126	2	0-14	
Methyl-t-Butyl Ether (MTBE)	91	90	68-128	0	0-14	
Tert-Butyl Alcohol (TBA)	81	89	44-134	10	0-37	
Diisopropyl Ether (DIPE)	90	90	75-123	0	0-12	
Ethyl-t-Butyl Ether (ETBE)	92	91	75-117	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	95	93	79-115	2	0-12	
Ethanol	84	88	42-138	5	0-28	

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: 07-12-1621
Preparation: EPA 3050B
Method: EPA 6010B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-10,216	**Solid**	**ICP 5300**	**12/19/07**	**12/19/07**	**071219L12**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	92	92	80-120	0	0-20	
Arsenic	102	102	80-120	0	0-20	
Barium	105	105	80-120	0	0-20	
Beryllium	99	100	80-120	0	0-20	
Cadmium	104	104	80-120	0	0-20	
Chromium	105	106	80-120	0	0-20	
Cobalt	104	104	80-120	0	0-20	
Copper	97	97	80-120	0	0-20	
Lead	103	104	80-120	1	0-20	
Molybdenum	103	103	80-120	0	0-20	
Nickel	109	109	80-120	0	0-20	
Selenium	97	97	80-120	0	0-20	
Silver	97	96	80-120	0	0-20	
Thallium	101	102	80-120	1	0-20	
Vanadium	102	102	80-120	0	0-20	
Zinc	108	108	80-120	0	0-20	

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:	07-12-1621
Sonoma, CA 95476-6955		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-95	**Solid**	**GC 43**	**12/26/07**	**12/26/07**	**071226B04**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	78	80	75-123	2	0-12	

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:	07-12-1621
Preparation:	EPA 3550B
Method:	EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-254-348	**Solid**	**GC 43**	**12/26/07**	**12/26/07**	**071226B05**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	91	91	75-123	0	0-12	

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:	07-12-1621
Preparation:	EPA 5030B
Method:	EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-1,395	**Solid**	**GC 22**	**12/19/07**	**12/19/07**	**071219B02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	99	100	70-124	0	0-18	

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:	07-12-1621
Sonoma, CA 95476-6955		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-020-785	**Solid**	**FLAA**	**12/28/07**	**NONE**	**071228L02**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	25.0	23.9	96	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:	07-12-1621
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-5,203	**Solid**	**Mercury**	**12/19/07**	**12/19/07**	**071219L07**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	94	93	87-117	0	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: 07-12-1621
Preparation: EPA 5030B
Method: EPA 8260B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-005-15,249	**Solid**	**GC/MS X**	**12/26/07**	**12/27/07**	**071226L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	103	84-114	4	0-7	
Carbon Tetrachloride	85	92	66-132	8	0-12	
Chlorobenzene	103	106	87-111	3	0-7	
1,2-Dibromoethane	100	105	80-120	5	0-20	
1,2-Dichlorobenzene	96	98	79-115	3	0-8	
1,1-Dichloroethene	103	109	73-121	6	0-12	
Ethylbenzene	102	107	80-120	5	0-20	
Toluene	102	106	78-114	4	0-7	
Trichloroethene	102	105	84-114	3	0-8	
Vinyl Chloride	87	87	63-129	0	0-15	
Methyl-t-Butyl Ether (MTBE)	95	99	77-125	5	0-11	
Tert-Butyl Alcohol (TBA)	88	94	47-137	6	0-27	
Diisopropyl Ether (DIPE)	98	99	76-130	2	0-8	
Ethyl-t-Butyl Ether (ETBE)	98	101	76-124	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	101	82-118	2	0-11	
Ethanol	91	97	59-131	6	0-21	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-12-1621

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.
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 - Irvine, California
- ☐ TA - Morgan Hill, California
- ☐ TA - Sacramento, California
- ☐ TA - Nashville, Tennessee
- ☑ 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): 98995746

PO #:

SAP or CRMT #:

DATE: 12-14-07

PAGE: 1 of 2

SAMPLING COMPANY: Conestoga-Rovers & Associates (CRA)

LOG CODE: CRAW

SITE ADDRESS: Street and City: 4411 Foothill Blvd, Oakland

State: CA

GLOBAL ID NO.: T0600101065

ADDRESS: 19449 Riverside Drive, Suite 230, Sonoma, CA 95476

EDF DELIVERABLE TO (Name, Company, Office Location): Felicia Ballard, CRA, Sonoma

PHONE NO.: 707-933-2376

E-MAIL: sonomaedf@craworld.com

CONSULTANT PROJECT NO.: 240897

PROJECT CONTACT (Hardcopy or PDF Report to): Dennis Baertschi

TELEPHONE: 707-268-3813

FAX: 707-935-6649

E-MAIL: dbaertschi@craworld

SAMPLER NAME(S) (Print): ~~Scott~~ Scott Lewis

LAB USE ONLY: 12-1621

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

cc: Tobias Schroeder, tschroeder@craworld.com

Call composite sample IDs and field point names: SP-1

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M) w/SGC	BTEX (8260B)	5 Oxygenates (8260B) (MTBE, TBA, DIPE, TAME, ETBE)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	VOCs by 8260B	Semi-Volatiles by 8270C	Lead ☐ Total ☐ STLC ☐ TCLP	LUFT5 ☐ Total ☐ STLC ☐ TCLP	CAM17 ☐ Total ☐ STLC ☐ TCLP	TPHmo (8015M)		TEMPERATURE ON RECEIPT C°
1	SP-1A	12-14-07	1050	SO	1	X	X	X															X	X		Please call
2	SP-1B	12-14-07	1050	SO	1	X	X	X															X	X		composite
3	SP-1C	12-14-07	1050	SO	1	X	X	X															X	X		sample
4	SP-1D	12-14-07	1050	SO	1	X	X	X															X	X		SP-1

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

Relinquished by: (Signature) Scott Lewis	Received by: (Signature) Sonoma Office	Date: 12-14-07	Time: 1700
Relinquished by: (Signature) Sonoma Office	Received by: (Signature)	Date: 12-18-07	Time: 1055
Relinquished by: (Signature)	Received by: (Signature)	Date: 12/19/07	Time: 0945

Rev. 05-May-06

05/02/06 Revision

2 of 2

(1621)

Date: 11

page: 2 of 2

Contingent analyses

(1647)

- 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 #: 07-12-1621

Cooler 1 **of** 1

SAMPLE RECEIPT FORM

CLIENT: CRA **DATE:** 12/19/07

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.

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

5.1 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

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

Initial: [illegible]

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: [illegible]

COMMENTS:

Attachment E

Certified Analytical Reports

Calscience Environmental Laboratories, Inc.

December 28, 2007

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

Subject: **Calscience Work Order No.: 07-12-1620**
Client Reference: 4411 Foothill Blvd., Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/19/2007 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.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	12/19/07
19449 Riverside Drive, Suite 230	Work Order No:	07-12-1620
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-5-5'	**07-12-1620-1-A**	**12/13/07**	**Solid**	**GC 43**	**12/21/07**	**12/22/07**	**071221B11**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	61-145	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-3-5'	**07-12-1620-2-A**	**12/13/07**	**Solid**	**GC 43**	**12/21/07**	**12/22/07**	**071221B11**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	91	61-145	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-4-5'	**07-12-1620-3-A**	**12/13/07**	**Solid**	**GC 43**	**12/21/07**	**12/22/07**	**071221B11**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	61-145	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-11-5'	**07-12-1620-4-A**	**12/13/07**	**Solid**	**GC 43**	**12/21/07**	**12/22/07**	**071221B11**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	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: 12/19/07
Work Order No: 07-12-1620
Preparation: EPA 3550B
Method: EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-6-5'	**07-12-1620-5-A**	**12/14/07**	**Solid**	**GC 43**	**12/21/07**	**12/22/07**	**071221B11**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	87	61-145	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-7-5'	**07-12-1620-6-A**	**12/14/07**	**Solid**	**GC 43**	**12/21/07**	**12/22/07**	**071221B11**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	61-145	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-2-5'	**07-12-1620-7-A**	**12/14/07**	**Solid**	**GC 43**	**12/21/07**	**12/22/07**	**071221B11**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	61-145	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-1-5'	**07-12-1620-8-A**	**12/14/07**	**Solid**	**GC 43**	**12/21/07**	**12/22/07**	**071221B11**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	84	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: 12/19/07
Work Order No: 07-12-1620
Preparation: EPA 3550B
Method: EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-10-5'	**07-12-1620-9-A**	**12/14/07**	**Solid**	**GC 43**	**12/21/07**	**12/22/07**	**071221B11**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	61-145	

Method Blank	**099-12-025-93**	**N/A**	**Solid**	**GC 43**	**12/21/07**	**12/21/07**	**071221B11**

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	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: 12/19/07
Work Order No: 07-12-1620
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-5-5'	**07-12-1620-1-A**	**12/13/07**	**Solid**	**GC 22**	**12/19/07**	**12/19/07**	**071219B01**

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

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	72	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-3-5'	**07-12-1620-2-A**	**12/13/07**	**Solid**	**GC 22**	**12/19/07**	**12/19/07**	**071219B01**

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
TPH as Gasoline	0.85	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	79	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-4-5'	**07-12-1620-3-A**	**12/13/07**	**Solid**	**GC 22**	**12/19/07**	**12/19/07**	**071219B01**

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

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	77	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-11-5'	**07-12-1620-4-A**	**12/13/07**	**Solid**	**GC 22**	**12/19/07**	**12/19/07**	**071219B01**

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

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	83	42-126	

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: 12/19/07
Work Order No: 07-12-1620
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-6-5'	**07-12-1620-5-A**	**12/14/07**	**Solid**	**GC 22**	**12/20/07**	**12/20/07**	**071220B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	11	5.0	10		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	83	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-7-5'	**07-12-1620-6-A**	**12/14/07**	**Solid**	**GC 1**	**12/21/07**	**12/21/07**	**071221B01**

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

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	100	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-2-5'	**07-12-1620-7-A**	**12/14/07**	**Solid**	**GC 22**	**12/19/07**	**12/20/07**	**071219B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	13	12	25		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	75	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-1-5'	**07-12-1620-8-A**	**12/14/07**	**Solid**	**GC 1**	**12/21/07**	**12/21/07**	**071221B01**

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

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	99	42-126	

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: 12/19/07
Work Order No: 07-12-1620
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-10-5'	**07-12-1620-9-A**	**12/14/07**	**Solid**	**GC 1**	**12/21/07**	**12/21/07**	**071221B01**

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

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	100	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-279-1,394**	**N/A**	**Solid**	**GC 22**	**12/19/07**	**12/19/07**	**071219B01**

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

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	85	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-279-1,395**	**N/A**	**Solid**	**GC 22**	**12/19/07**	**12/19/07**	**071219B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5.0	10		mg/kg

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

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-279-1,398**	**N/A**	**Solid**	**GC 22**	**12/20/07**	**12/20/07**	**071220B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5.0	10		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	81	42-126	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received: 12/19/07
19449 Riverside Drive, Suite 230	Work Order No: 07-12-1620
Sonoma, CA 95476-6955	Preparation: EPA 5030B
	Method: EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-279-1,401**	**N/A**	**Solid**	**GC 1**	**12/21/07**	**12/21/07**	**071221B01**

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

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	99	42-126	

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: 12/19/07
Work Order No: 07-12-1620
Preparation: EPA 5030B
Method: EPA 8260B
Units: mg/kg

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-5-5'	**07-12-1620-1-A**	**12/13/07**	**Solid**	**GC/MS X**	**12/26/07**	**12/27/07**	**071226L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		o-Xylene	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dichloroethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-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	101	73-139			1,2-Dichloroethane-d4	104	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	99	71-113		

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-3-5'	**07-12-1620-2-A**	**12/13/07**	**Solid**	**GC/MS X**	**12/26/07**	**12/27/07**	**071226L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		o-Xylene	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dichloroethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-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	100	73-139			1,2-Dichloroethane-d4	101	73-145		
Toluene-d8	97	90-108			1,4-Bromofluorobenzene	99	71-113		

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-4-5'	**07-12-1620-3-A**	**12/13/07**	**Solid**	**GC/MS X**	**12/26/07**	**12/26/07**	**071226L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		o-Xylene	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dichloroethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-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	99	73-139			1,2-Dichloroethane-d4	103	73-145		
Toluene-d8	96	90-108			1,4-Bromofluorobenzene	99	71-113		

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	12/19/07
19449 Riverside Drive, Suite 230	Work Order No:	07-12-1620
Sonoma, CA 95476-6955	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	mg/kg

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-11-5'	**07-12-1620-4-A**	**12/13/07**	**Solid**	**GC/MS X**	**12/27/07**	**12/27/07**	**071227L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		o-Xylene	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dichloroethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-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	100	73-139			1,2-Dichloroethane-d4	103	73-145		
Toluene-d8	97	90-108			1,4-Bromofluorobenzene	99	71-113		

V-6-5'	**07-12-1620-5-A**	**12/14/07**	**Solid**	**GC/MS X**	**12/27/07**	**12/27/07**	**071227L01**		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		o-Xylene	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dichloroethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	0.16	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-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	99	73-139			1,2-Dichloroethane-d4	103	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	99	71-113		

V-7-5'	**07-12-1620-6-A**	**12/14/07**	**Solid**	**GC/MS X**	**12/26/07**	**12/27/07**	**071226L03**		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		o-Xylene	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dichloroethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-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	101	73-139			1,2-Dichloroethane-d4	101	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	99	71-113		

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	12/19/07
19449 Riverside Drive, Suite 230	Work Order No:	07-12-1620
Sonoma, CA 95476-6955	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	mg/kg

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
V-2-5'	**07-12-1620-7-A**	**12/14/07**	**Solid**	**GC/MS X**	**12/27/07**	**12/27/07**	**071227L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		o-Xylene	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dichloroethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	0.021	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-Xylene	0.022	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	100	73-139			1,2-Dichloroethane-d4	101	73-145		
Toluene-d8	96	90-108			1,4-Bromofluorobenzene	98	71-113		

V-1-5'	**07-12-1620-8-A**	**12/14/07**	**Solid**	**GC/MS X**	**12/26/07**	**12/27/07**	**071226L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		o-Xylene	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dichloroethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-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	104	73-139			1,2-Dichloroethane-d4	105	73-145		
Toluene-d8	97	90-108			1,4-Bromofluorobenzene	100	71-113		

V-10-5'	**07-12-1620-9-A**	**12/14/07**	**Solid**	**GC/MS X**	**12/26/07**	**12/27/07**	**071226L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		o-Xylene	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dichloroethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-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	99	73-139			1,2-Dichloroethane-d4	100	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	97	71-113		

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	12/19/07
19449 Riverside Drive, Suite 230	Work Order No:	07-12-1620
Sonoma, CA 95476-6955	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	mg/kg

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-005-15,247**	**N/A**	**Solid**	**GC/MS X**	**12/26/07**	**12/26/07**	**071226L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		o-Xylene	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dichloroethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-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	98	73-139			1,2-Dichloroethane-d4	99	73-145		
Toluene-d8	96	90-108			1,4-Bromofluorobenzene	97	71-113		

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-005-15,249**	**N/A**	**Solid**	**GC/MS X**	**12/26/07**	**12/27/07**	**071226L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		o-Xylene	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dichloroethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-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	98	73-139			1,2-Dichloroethane-d4	100	73-145		
Toluene-d8	96	90-108			1,4-Bromofluorobenzene	97	71-113		

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-005-15,252**	**N/A**	**Solid**	**GC/MS X**	**12/27/07**	**12/27/07**	**071227L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		o-Xylene	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dichloroethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-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	99	73-139			1,2-Dichloroethane-d4	100	73-145		
Toluene-d8	96	90-108			1,4-Bromofluorobenzene	97	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: 12/19/07
Work Order No: 07-12-1620
Preparation: EPA 3550B
Method: EPA 8015B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-12-1397-9	**Solid**	**GC 43**	**12/21/07**	**12/21/07**	**071221S11**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	99	89	64-130	10	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:	12/19/07
Work Order No:	07-12-1620
Preparation:	EPA 5030B
Method:	EPA 8015B (M)

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
V-5-5'	**Solid**	**GC 22**	**12/19/07**	**12/19/07**	**071219S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	94	97	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: 12/19/07
Work Order No: 07-12-1620
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-12-1724-4	**Solid**	**GC 1**	**12/21/07**	**12/21/07**	**071221S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	87	77	48-114	13	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: 12/19/07
Work Order No: 07-12-1620
Preparation: EPA 5030B
Method: EPA 8260B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
V-4-5'	**Solid**	**GC/MS X**	**12/26/07**	**12/26/07**	**071226S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	83	85	79-115	3	0-13	
Carbon Tetrachloride	72	76	55-139	5	0-15	
Chlorobenzene	83	87	79-115	4	0-17	
1,2-Dibromoethane	88	89	70-130	1	0-30	
1,2-Dichlorobenzene	78	81	63-123	4	0-23	
1,1-Dichloroethene	76	79	69-123	4	0-16	
Ethylbenzene	83	86	70-130	4	0-30	
Toluene	87	90	79-115	3	0-15	
Trichloroethene	87	89	66-144	2	0-14	
Vinyl Chloride	70	69	60-126	2	0-14	
Methyl-t-Butyl Ether (MTBE)	83	83	68-128	1	0-14	
Tert-Butyl Alcohol (TBA)	76	75	44-134	1	0-37	
Diisopropyl Ether (DIPE)	82	84	75-123	2	0-12	
Ethyl-t-Butyl Ether (ETBE)	83	86	75-117	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	88	90	79-115	2	0-12	
Ethanol	77	75	42-138	3	0-28	

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: 12/19/07
Work Order No: 07-12-1620
Preparation: EPA 5030B
Method: EPA 8260B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
V-10-5'	**Solid**	**GC/MS X**	**12/26/07**	**12/27/07**	**071226S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	91	79-115	3	0-13	
Carbon Tetrachloride	76	79	55-139	3	0-15	
Chlorobenzene	95	91	79-115	4	0-17	
1,2-Dibromoethane	94	99	70-130	6	0-30	
1,2-Dichlorobenzene	86	85	63-123	1	0-23	
1,1-Dichloroethene	85	83	69-123	3	0-16	
Ethylbenzene	93	91	70-130	2	0-30	
Toluene	96	93	79-115	3	0-15	
Trichloroethene	94	91	66-144	2	0-14	
Vinyl Chloride	80	79	60-126	2	0-14	
Methyl-t-Butyl Ether (MTBE)	91	90	68-128	0	0-14	
Tert-Butyl Alcohol (TBA)	81	89	44-134	10	0-37	
Diisopropyl Ether (DIPE)	90	90	75-123	0	0-12	
Ethyl-t-Butyl Ether (ETBE)	92	91	75-117	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	95	93	79-115	2	0-12	
Ethanol	84	88	42-138	5	0-28	

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: 12/19/07
Work Order No: 07-12-1620
Preparation: EPA 5030B
Method: EPA 8260B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
V-11-5'	**Solid**	**GC/MS X**	**12/27/07**	**12/27/07**	**071227S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	91	79-115	4	0-13	
Carbon Tetrachloride	74	77	55-139	3	0-15	
Chlorobenzene	92	90	79-115	2	0-17	
1,2-Dibromoethane	98	96	70-130	2	0-30	
1,2-Dichlorobenzene	83	81	63-123	2	0-23	
1,1-Dichloroethene	84	81	69-123	4	0-16	
Ethylbenzene	93	90	70-130	3	0-30	
Toluene	95	93	79-115	2	0-15	
Trichloroethene	93	91	66-144	2	0-14	
Vinyl Chloride	81	76	60-126	6	0-14	
Methyl-t-Butyl Ether (MTBE)	95	95	68-128	0	0-14	
Tert-Butyl Alcohol (TBA)	93	83	44-134	12	0-37	
Diisopropyl Ether (DIPE)	95	93	75-123	2	0-12	
Ethyl-t-Butyl Ether (ETBE)	96	95	75-117	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	98	98	79-115	1	0-12	
Ethanol	90	85	42-138	5	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:	07-12-1620
Sonoma, CA 95476-6955		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-93	**Solid**	**GC 43**	**12/21/07**	**12/21/07**	**071221B11**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	88	88	75-123	0	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:	07-12-1620
Sonoma, CA 95476-6955	Preparation:	EPA 5030B
	Method:	EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-1,395	**Solid**	**GC 22**	**12/19/07**	**12/19/07**	**071219B02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	99	100	70-124	0	0-18	

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:	07-12-1620
Sonoma, CA 95476-6955	Preparation:	EPA 5030B
	Method:	EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-1,398	**Solid**	**GC 22**	**12/20/07**	**12/20/07**	**071220B02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	98	99	70-124	1	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:	07-12-1620
Preparation:	EPA 5030B
Method:	EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-1,394	**Solid**	**GC 22**	**12/19/07**	**12/19/07**	**071219B01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	99	100	70-124	0	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:	07-12-1620
Preparation:	EPA 5030B
Method:	EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-1,401	**Solid**	**GC 1**	**12/21/07**	**12/21/07**	**071221B01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	96	97	70-124	1	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: 07-12-1620
Preparation: EPA 5030B
Method: EPA 8260B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-005-15,247	**Solid**	**GC/MS X**	**12/26/07**	**12/26/07**	**071226L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	99	84-114	2	0-7	
Carbon Tetrachloride	92	95	66-132	3	0-12	
Chlorobenzene	101	102	87-111	1	0-7	
1,2-Dibromoethane	101	101	80-120	0	0-20	
1,2-Dichlorobenzene	99	99	79-115	0	0-8	
1,1-Dichloroethene	93	91	73-121	3	0-12	
Ethylbenzene	101	102	80-120	1	0-20	
Toluene	100	101	78-114	2	0-7	
Trichloroethene	99	101	84-114	2	0-8	
Vinyl Chloride	80	85	63-129	6	0-15	
Methyl-t-Butyl Ether (MTBE)	90	94	77-125	5	0-11	
Tert-Butyl Alcohol (TBA)	89	99	47-137	10	0-27	
Diisopropyl Ether (DIPE)	92	95	76-130	3	0-8	
Ethyl-t-Butyl Ether (ETBE)	91	94	76-124	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	94	96	82-118	2	0-11	
Ethanol	87	96	59-131	9	0-21	

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: 07-12-1620
Preparation: EPA 5030B
Method: EPA 8260B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-005-15,249	**Solid**	**GC/MS X**	**12/26/07**	**12/27/07**	**071226L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	103	84-114	4	0-7	
Carbon Tetrachloride	85	92	66-132	8	0-12	
Chlorobenzene	103	106	87-111	3	0-7	
1,2-Dibromoethane	100	105	80-120	5	0-20	
1,2-Dichlorobenzene	96	98	79-115	3	0-8	
1,1-Dichloroethene	103	109	73-121	6	0-12	
Ethylbenzene	102	107	80-120	5	0-20	
Toluene	102	106	78-114	4	0-7	
Trichloroethene	102	105	84-114	3	0-8	
Vinyl Chloride	87	87	63-129	0	0-15	
Methyl-t-Butyl Ether (MTBE)	95	99	77-125	5	0-11	
Tert-Butyl Alcohol (TBA)	88	94	47-137	6	0-27	
Diisopropyl Ether (DIPE)	98	99	76-130	2	0-8	
Ethyl-t-Butyl Ether (ETBE)	98	101	76-124	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	101	82-118	2	0-11	
Ethanol	91	97	59-131	6	0-21	

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:	07-12-1620
Preparation:	EPA 5030B
Method:	EPA 8260B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-005-15,252	**Solid**	**GC/MS X**	**12/27/07**	**12/27/07**	**071227L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	104	84-114	4	0-7	
Carbon Tetrachloride	80	86	66-132	7	0-12	
Chlorobenzene	102	106	87-111	4	0-7	
1,2-Dibromoethane	106	103	80-120	2	0-20	
1,2-Dichlorobenzene	96	100	79-115	4	0-8	
1,1-Dichloroethene	100	97	73-121	4	0-12	
Ethylbenzene	102	108	80-120	6	0-20	
Toluene	101	107	78-114	5	0-7	
Trichloroethene	101	103	84-114	2	0-8	
Vinyl Chloride	86	86	63-129	0	0-15	
Methyl-t-Butyl Ether (MTBE)	98	98	77-125	0	0-11	
Tert-Butyl Alcohol (TBA)	95	102	47-137	7	0-27	
Diisopropyl Ether (DIPE)	97	98	76-130	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	98	98	76-124	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	101	82-118	2	0-11	
Ethanol	101	98	59-131	3	0-21	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-12-1620

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.
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: Calscience

- ☐ TA - Irvine, California
- ☐ TA - Morgan Hill, California
- ☐ TA - Sacramento, California
- ☐ TA - Nashville, Tennessee
- ☑ Calscience
- ☐ Other_____

NAME OF PERSON TO BILL: Denis Brown

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

☐ CHECK BOX TO VERIFY IF NO INCIDENT # APPLIES

INCIDENT # (ES ONLY): 9 8 9 9 5 7 4 6

PO #:

SAP or CRMT #:

DATE: 12-14-07

PAGE: 1 of 1

SAMPLING COMPANY:	LOG CODE:
Conestoga-Rovers & Associates (CRA)	CRAW

ADDRESS: 19449 Riverside Drive, Suite 230, Sonoma, CA 95476

PROJECT CONTACT (Hardcopy or PDF Report to): Dennis Baertschi

TELEPHONE:	FAX:	E-MAIL:
707-268-3813	707-935-6649	dbaertschi@craworld.com

SITE ADDRESS: Street and City: 9411 Foothill Blvd, Oakland | State: CA | GLOBAL ID NO.: T0600101065

EDF DELIVERABLE TO (Name, Company, Office Location): Felicia Ballard, CRA, Sonoma | PHONE NO.: 707-935-4850 | E-MAIL: sonomaedf@craworld.com | CONSULTANT PROJECT NO.: 240877

SAMPLER NAME(S) (Print): Scott Lewis

LAB USE ONLY: 12-1620

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M) w/SGC	BTEX (8260B)	5 Oxygenates (8260B) (MTBE, TBA, DIPE, TAME, ETBE)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	VOCs by 8260B	Semi-Volatiles by 8270C	Lead ☐ Total ☐ STLC ☐ TCLP	LUFT5 ☐ Total ☐ STLC ☐ TCLP	CAM17 ☐ Total ☐ STLC ☐ TCLP	Test for Disposal (see attached)		TEMPERATURE ON RECEIPT C°
1	V-5-5'	12-13-07	0952	SO	1	X	X	X	X						X	X										
2	V-3-5'	12-13-07	1259	SO	1	X	X	X	X						X	X										
3	V-4-5'	12-13-07	1354	SO	1	X	X	X	X						X	X										
4	V-11-5'	12-13-07	1522	SO	1	X	X	X	X						X	X										
5	V-6-5'	12-14-07	0733	SO	1	X	X	X	X						X	X										
6	V-7-5'	12-14-07	0830	SO	1	X	X	X	X						X	X										
7	V-2-5'	12-14-07	0934	SO	1	X	X	X	X						X	X										
8	V-1-5'	12-14-07	1039	SO	1	X	X	X	X						X	X										
9	V-10-5'	12-14-07	1313	SO	1	X	X	X	X						X	X										

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Scott Lewis	Sonoma Office	12-14-07	1700
Relinquished by: (Signature) Sonoma Office	Received by: (Signature)	Date: 12-18-07	Time: 10 55
Relinquished by: (Signature) to GSV	Received by: (Signature)	Date: 12/19/07	Time: 0945

05/02/06 Revision

Rev. 05-May-06

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07-12-1620

Cooler 1 **of** 1

SAMPLE RECEIPT FORM

CLIENT: CRA **DATE:** 12/19/07

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.

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

3.9 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

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

Initial: [illegible]

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: [illegible]

COMMENTS:

Calscience
Environmental
Laboratories, Inc.

January 21, 2008

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

Subject: **Calscience Work Order No.: 08-01-1047**
Client Reference: 4411 Foothills Blvd, Oakland CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/16/2008 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.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 01/16/08
Work Order No: 08-01-1047
Preparation: N/A
Method: EPA TO-3M

Project: 4411 Foothills Blvd, Oakland CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-3	**08-01-1047-1-A**	**01/14/08**	**Air**	**GC 13**	**N/A**	**01/17/08 9:42**	**080117L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	20000000	69000	6		ug/m3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-4	**08-01-1047-2-A**	**01/14/08**	**Air**	**GC 13**	**N/A**	**01/16/08 18:20**	**080116L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	1300000	15000	1.35		ug/m3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-5	**08-01-1047-3-A**	**01/14/08**	**Air**	**GC 13**	**N/A**	**01/16/08 19:05**	**080116L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	2500000	16000	1.41		ug/m3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-2	**08-01-1047-4-A**	**01/14/08**	**Air**	**GC 13**	**N/A**	**01/17/08 9:56**	**080117L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	15000000	66000	5.72		ug/m3

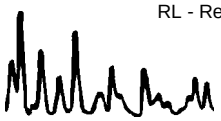
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-1	**08-01-1047-5-A**	**01/14/08**	**Air**	**GC 13**	**N/A**	**01/17/08 10:37**	**080117L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	16000000	70000	6.08		ug/m3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-6	**08-01-1047-6-A**	**01/14/08**	**Air**	**GC 13**	**N/A**	**01/17/08 15:54**	**080117L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	15000000	140000	12.6		ug/m3

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: 01/16/08
Work Order No: 08-01-1047
Preparation: N/A
Method: EPA TO-3M

Project: 4411 Foothills Blvd, Oakland CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-7	**08-01-1047-7-A**	**01/14/08**	**Air**	**GC 13**	**N/A**	**01/17/08 14:47**	**080117L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	170000	17000	1.46		ug/m3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Ambient Air	**08-01-1047-8-A**	**01/14/08**	**Air**	**GC 13**	**N/A**	**01/17/08 14:57**	**080117L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	17000	1.49		ug/m3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-11	**08-01-1047-9-A**	**01/14/08**	**Air**	**GC 13**	**N/A**	**01/17/08 15:09**	**080117L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	18000	16000	1.36		ug/m3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**098-01-005-1,148**	**N/A**	**Air**	**GC 13**	**N/A**	**01/16/08 8:54**	**080116L01**

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

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**098-01-005-1,150**	**N/A**	**Air**	**GC 13**	**N/A**	**01/17/08 8:42**	**080117L01**

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:	01/16/08
5900 Hollis Street, Suite A	Work Order No:	08-01-1047
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ug/m3

Project: 4411 Foothills Blvd, Oakland CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-3	**08-01-1047-1-A**	**01/14/08**	**Air**	**GC/MS DD**	**N/A**	**01/20/08 19:00**	**080120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	3800	2400	1500		p/m-Xylene	ND	6500	1500	
Ethylbenzene	ND	3300	1500		Tert-Butyl Alcohol (TBA)	ND	9100	1500	
Methyl-t-Butyl Ether (MTBE)	ND	11000	1500		Toluene	ND	2800	1500	
o-Xylene	ND	3300	1500		Isopropanol	ND	3700	1500	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	93	57-129			1,2-Dichloroethane-d4	78	47-137		
Toluene-d8	93	78-156							

V-4	**08-01-1047-2-A**	**01/14/08**	**Air**	**GC/MS DD**	**N/A**	**01/20/08 19:50**	**080120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	150	94.5		p/m-Xylene	ND	410	94.5	
Ethylbenzene	ND	210	94.5		Tert-Butyl Alcohol (TBA)	ND	570	94.5	
Methyl-t-Butyl Ether (MTBE)	ND	680	94.5		Toluene	ND	180	94.5	
o-Xylene	ND	210	94.5		Isopropanol	ND	230	94.5	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	92	57-129			1,2-Dichloroethane-d4	76	47-137		
Toluene-d8	92	78-156							

V-5	**08-01-1047-3-A**	**01/14/08**	**Air**	**GC/MS DD**	**N/A**	**01/20/08 20:40**	**080120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	290	183		p/m-Xylene	ND	790	183	
Ethylbenzene	ND	400	183		Tert-Butyl Alcohol (TBA)	ND	1100	183	
Methyl-t-Butyl Ether (MTBE)	ND	1300	183		Toluene	ND	340	183	
o-Xylene	ND	400	183		Isopropanol	520	450	183	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	96	57-129			1,2-Dichloroethane-d4	76	47-137		
Toluene-d8	90	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: 01/16/08
Work Order No: 08-01-1047
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 4411 Foothills Blvd, Oakland CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-2	**08-01-1047-4-A**	**01/14/08**	**Air**	**GC/MS DD**	**N/A**	**01/20/08 21:29**	**080120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	9000	910	572		p/m-Xylene	7700	2500	572	
Ethylbenzene	20000	1200	572		Tert-Butyl Alcohol (TBA)	ND	3500	572	
Methyl-t-Butyl Ether (MTBE)	ND	4100	572		Toluene	ND	1100	572	
o-Xylene	ND	1200	572		Isopropanol	1700	1400	572	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	90	57-129			1,2-Dichloroethane-d4	74	47-137		
Toluene-d8	89	78-156							

V-1	**08-01-1047-5-A**	**01/14/08**	**Air**	**GC/MS DD**	**N/A**	**01/20/08 22:18**	**080120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1200	760		p/m-Xylene	ND	3300	760	
Ethylbenzene	ND	1700	760		Tert-Butyl Alcohol (TBA)	ND	4600	760	
Methyl-t-Butyl Ether (MTBE)	ND	5500	760		Toluene	ND	1400	760	
o-Xylene	ND	1700	760		Isopropanol	4200	1900	760	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	90	57-129			1,2-Dichloroethane-d4	73	47-137		
Toluene-d8	90	78-156							

V-6	**08-01-1047-6-A**	**01/14/08**	**Air**	**GC/MS DD**	**N/A**	**01/20/08 23:07**	**080120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	9100	230	142		p/m-Xylene	ND	620	142	
Ethylbenzene	ND	310	142		Tert-Butyl Alcohol (TBA)	ND	860	142	
Methyl-t-Butyl Ether (MTBE)	ND	1000	142		Toluene	ND	270	142	
o-Xylene	ND	310	142		Isopropanol	390	350	142	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	113	57-129			1,2-Dichloroethane-d4	73	47-137		
Toluene-d8	54	78-156		2					

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	01/16/08
5900 Hollis Street, Suite A	Work Order No:	08-01-1047
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ug/m3

Project: 4411 Foothills Blvd, Oakland CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-7	**08-01-1047-7-A**	**01/14/08**	**Air**	**GC/MS DD**	**N/A**	**01/20/08 23:56**	**080120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	19	11.7		p/m-Xylene	ND	51	11.7	
Ethylbenzene	ND	25	11.7		Tert-Butyl Alcohol (TBA)	ND	71	11.7	
Methyl-t-Butyl Ether (MTBE)	ND	84	11.7		Toluene	ND	22	11.7	
o-Xylene	ND	25	11.7		Isopropanol	ND	29	11.7	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	89	57-129			1,2-Dichloroethane-d4	69	47-137		
Toluene-d8	85	78-156							

Ambient Air	**08-01-1047-8-A**	**01/14/08**	**Air**	**GC/MS DD**	**N/A**	**01/21/08 0:45**	**080120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.4	1.49		p/m-Xylene	ND	6.5	1.49	
Ethylbenzene	ND	3.2	1.49		Tert-Butyl Alcohol (TBA)	ND	9.0	1.49	
Methyl-t-Butyl Ether (MTBE)	ND	11	1.49		Toluene	4.1	2.8	1.49	
o-Xylene	ND	3.2	1.49		Isopropanol	ND	3.7	1.49	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	90	57-129			1,2-Dichloroethane-d4	70	47-137		
Toluene-d8	87	78-156							

V-11	**08-01-1047-9-A**	**01/14/08**	**Air**	**GC/MS DD**	**N/A**	**01/21/08 1:34**	**080120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.2	1.36		p/m-Xylene	ND	5.9	1.36	
Ethylbenzene	ND	3.0	1.36		Tert-Butyl Alcohol (TBA)	ND	8.2	1.36	
Methyl-t-Butyl Ether (MTBE)	ND	9.8	1.36		Toluene	5.1	2.6	1.36	
o-Xylene	ND	3.0	1.36		Isopropanol	4.9	3.3	1.36	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	88	57-129			1,2-Dichloroethane-d4	73	47-137		
Toluene-d8	90	78-156							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	01/16/08
5900 Hollis Street, Suite A	Work Order No:	08-01-1047
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ug/m3

Project: 4411 Foothills Blvd, Oakland CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-5,633**	**N/A**	**Air**	**GC/MS DD**	**N/A**	**01/20/08 13:20**	**080120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		p/m-Xylene	ND	4.3	1	
Ethylbenzene	ND	2.2	1		Tert-Butyl Alcohol (TBA)	ND	6.1	1	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1		Toluene	ND	1.9	1	
o-Xylene	ND	2.2	1		Isopropanol	ND	2.5	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	90	57-129			1,2-Dichloroethane-d4	73	47-137		
Toluene-d8	87	78-156							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Conestoga-Rovers & Associates		Date Received:	01/16/08
5900 Hollis Street, Suite A		Work Order No:	08-01-1047
Emeryville, CA 94608-2008		Preparation:	N/A
		Method:	EPA TO-3M

Project: 4411 Foothills Blvd, Oakland CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
08-01-1001-1	**Air**	**GC 13**	**N/A**	**01/16/08**	**080116D01**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000000	1900000	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Conestoga-Rovers & Associates	Date Received: 01/16/08
5900 Hollis Street, Suite A	Work Order No: 08-01-1047
Emeryville, CA 94608-2008	Preparation: N/A
	Method: EPA TO-3M

Project: 4411 Foothills Blvd, Oakland CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
V-1	**Air**	**GC 13**	**N/A**	**01/21/08**	**080117D01**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	16000000	15000000	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-01-1047
Preparation: N/A
Method: EPA TO-15

Project: 4411 Foothills Blvd, Oakland CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-5,633	**Air**	**GC/MS DD**	**N/A**	**01/20/08**	**080120L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	93	94	60-156	1	0-40	
Carbon Tetrachloride	75	76	64-154	1	0-32	
1,2-Dibromoethane	96	96	54-144	0	0-36	
1,2-Dichlorobenzene	77	76	34-160	1	0-47	
1,2-Dichloroethane	73	74	69-153	1	0-30	
1,2-Dichloropropane	89	90	67-157	1	0-35	
1,4-Dichlorobenzene	78	78	36-156	1	0-47	
c-1,3-Dichloropropene	91	91	61-157	0	0-35	
Ethylbenzene	100	101	52-154	0	0-38	
o-Xylene	88	89	52-148	1	0-38	
p/m-Xylene	90	90	42-156	1	0-41	
Tetrachloroethene	101	101	56-152	0	0-40	
Toluene	101	102	56-146	1	0-43	
Trichloroethene	92	93	63-159	1	0-34	
1,1,2-Trichloroethane	86	87	65-149	1	0-37	
Vinyl Chloride	68	70	45-177	2	0-36	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-01-1047

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.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

LAB: TA

- [ ] TA - Irvine, California
- [ ] TA - Morgan Hill, California
- [ ] TA - Sacramento, California
- [ ] TA - Nashville, Tennesee
- [x] Calscience
- [ ] Other_____

SHELL Chain Of Custody Record

NAME OF PERSON TO BILL: Denis Brown

- [x] ENVIRONMENTAL SERVICES
- [ ] NETWORK DEV / FE
- [ ] BILL CONSULTANT
- [ ] COMPLIANCE
- [ ] RMT/CRMT

[ ] CHECK BOX TO VERIFY IF NO INCIDENT # APPLIES

INCIDENT # (ES ONLY): 9 8 9 9 5 7 4 6

PO #

SAP or CRMT #

Date: 1/14/08

PAGE: 1 of 2

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS: Street and City	State	GLOBAL ID NO.:
Conestoga-Rovers & Associates (CRA)	CRAW	4411 Foothills Blvd, Oakland	CA	T0600101065

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	240897-008

PROJECT CONTACT (Hardcopy or PDF Report to):	TELEPHONE:	FAX:	E-MAIL:
Dennis Baertschi	707 268 3813	707 268 8180	dbaertschi@craworld.com

SAMPLER NAME(S) (Print): Carmen Rodriguez

LAB USE ONLY: 01-1047

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

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

SPECIAL INSTRUCTIONS OR NOTES:

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

cc: Phil Sellers at psellers@craworld.com,

cc: Tobias Schroeder at tschroeder@craworld.com

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 (TO-15)	MTBE (TO-15)	TBA (TO-15)	Isopropyl alcohol	TEMPERATURE ON RECEIPT C°
	V-3 ✓	1/14/08	1100	Vapor	1	X		X	X	X	X	SLC-164
	V-4 ✓		1142									LC-423
	V-5 ✓		1219									SLC-160
	V-2 ✓		1356									LC 311
	V-1 ✓		1426									LC 009
	~~V-10~~											
	V-6 ✓		1640									LC 359
	V-7 ✓		1718									LC 161
	Ambient Air ✓		1740									LC 377
	V-11 ✓	✓	1757	✓	✓	✓		✓	✓	✓	✓	LC 237

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	1/15/08	0930
[signature]	[signature]	1/15/08	1700
[signature]	[signature]	1/16/08	0830

05/02/06 Revision

Q&Q Graphic (714) 898-9702

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 01 - 1047

Cooler 0 of 0

SAMPLE RECEIPT FORM

CLIENT: CRA DATE: 1/16/08

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.

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
✓ Ambient temperature.

Initial: JP

CUSTODY SEAL INTACT:

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

Initial: JP

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: JP

COMMENTS: