Roya C. Kambin
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6270
RKLG@chevron.com

Alameda County Health Care Services Agency
Environmental Health Department
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

RECEIVED

8:25 am, Jul 01, 2011
Alameda County
Environmental Health

Re: TOSCO 76 #3737/Chevron
1400 Powell Street
Emeryville, CA

I have reviewed the attached report dated June 28, 2011.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

Roya Kambin
Project Manager

Attachment: Report

CONESTOGA-ROVERS
& ASSOCIATES

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

June 28, 2011 Reference No. 060716

Mr. Mark Detterman
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Second Quarter 2011
Groundwater Monitoring and Sampling Report
TOSCO 76 #3737/Chevron
Union Oil Company of California Site 35-1780
1400 Powell Street
Emeryville, California
Fuel Leak Case No. RO0000067

Dear Mr. Mark Detterman:

Conestoga-Rovers & Associates (CRA), on behalf of Union Oil Company of California, is submitting this *Second Quarter 2011 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1). As of March 25, 2011 ("Effective Date"), ConocoPhillips Company transferred the management of the environmental remediation activities at TOSCO 76 #3737 to Union Oil Company of California ("Union Oil"). From the Effective Date forward, Union Oil (or its designees or representatives, including Chevron Environmental Management Company) will manage the day-to-day corrective action/remediation obligations related to the referenced case.

Groundwater monitoring and sampling was performed by TRC Solutions of Irvine, California (TRC). TRC's May 18, 2011 *Groundwater Monitoring Data* is presented as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1. Laboratory analyses were performed by BC Laboratories of Bakersfield, California. BC Laboratories' May 23, 2011 *Analytical Results* are included as Attachment B. Historical groundwater monitoring and sampling data is included as Attachment C.

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RESULTS OF SECOND QUARTER 2011 EVENT

On May 1, 2011, TRC monitored and sampled the site wells per the established schedule.

Results of the current monitoring event indicate the following:

- Groundwater Flow Direction — West (Shallow Zone), southwest (Deeper Zone)
- Hydraulic Gradient — 0.02 (both Shallow and Deeper Zones)
- Depth to Groundwater — 4.68 to 6.40 feet below grade (Shallow Zone) and 6.68 to 8.51 feet below grade (Deeper Zone)

An abbreviated summary of the current sampling event are presented below in Table A:

TABLE A: GROUNDWATER ANALYTICAL DATA

Well ID	*TPHd (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Total Xylenes (µg/L)*	*MTBE (µg/L)*
ESLs	100	100	1	40	30	20	5
MW-1A	**450**	**1,100**	**36**	0.86	5.9	1.9	**31**
MW-2A	**1,500**	**2,800**	**860**	4.6	**61**	12	**220**
MW-3A	**460**	**2,700**	**130**	2.7	**98**	3.6	<0.50
MW-1B	82	<50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-2B	<50	<50	**1.2**	<0.50	<0.50	<1.0	3.4
MW-3B	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50

µg/L Micrograms per Liter
<0.50 Below laboratory detection limit 0.50
Bold Exceeds ESL
ESLs Environmental Screening Levels from *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, California Regional Water Quality Control Board-San Francisco Bay Region, Interim Final November 2007, Revised May 2008

CONCLUSIONS AND RECOMMENDATIONS

The results of ongoing groundwater monitoring and sampling indicate the following:

- Groundwater gauging procedures were modified for the second quarter 2011 event to account for slow groundwater recharge rates in MW-2A. This modification appears

effective as the groundwater flow directions seen this quarter are now consistent with nearby sites identified on the GeoTracker database.
- Dissolved hydrocarbons are vertically defined by wells MW-1B, MW-2B, MW-3B.
- Except for benzene (1.2 µg/L in MW-2B), all constituents in the deeper groundwater zone are below ESLs.
- Groundwater has been monitored and sampled twice and hydrocarbon concentrations have been relatively consistent between these events.

CRA recommends continuing quarterly monitoring and sampling until first quarter 2012 to determine groundwater conditions over one annual hydrologic cycle. If hydrocarbon concentrations are consistent, we will propose a reduced monitoring schedule.

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring
TRC will monitor and sample site wells per the established schedule and forward the samples to BC Labs for analyses. Upon final results, CRA will submit a groundwater monitoring and sampling report.

Please contact Ian Hull at (510) 420-3344 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Ian Hull

Jim Schneider, PG 7914

PROFESSIONAL GEOLOGIST
VICTOR J. SCHNEIDER
No. 7914
EXP. 3/13
STATE OF CALIFORNIA

IH/aa/2
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation and Hydrocarbon Concentration Map (Shallow Zone)
Figure 3	Groundwater Elevation and Hydrocarbon Concentration Map (Deeper Zone)
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report
Attachment C	Historical Groundwater Monitoring and Sampling Data

cc: Ms. Roya Kambin, Union Oil Company of California (electronic copy)
Mr. Najmeddin Revan, Property Owner

FIGURES

SOURCE: USGS QUADRANGLE MAP: OAKLAND WEST, CA.

Figure 1

VICINITY MAP
TOSCO 76 #3737/CHEVRON
1400 POWELL STREET
Emeryville, California

60716-95(002)GN-WA001 JUN 24/2011

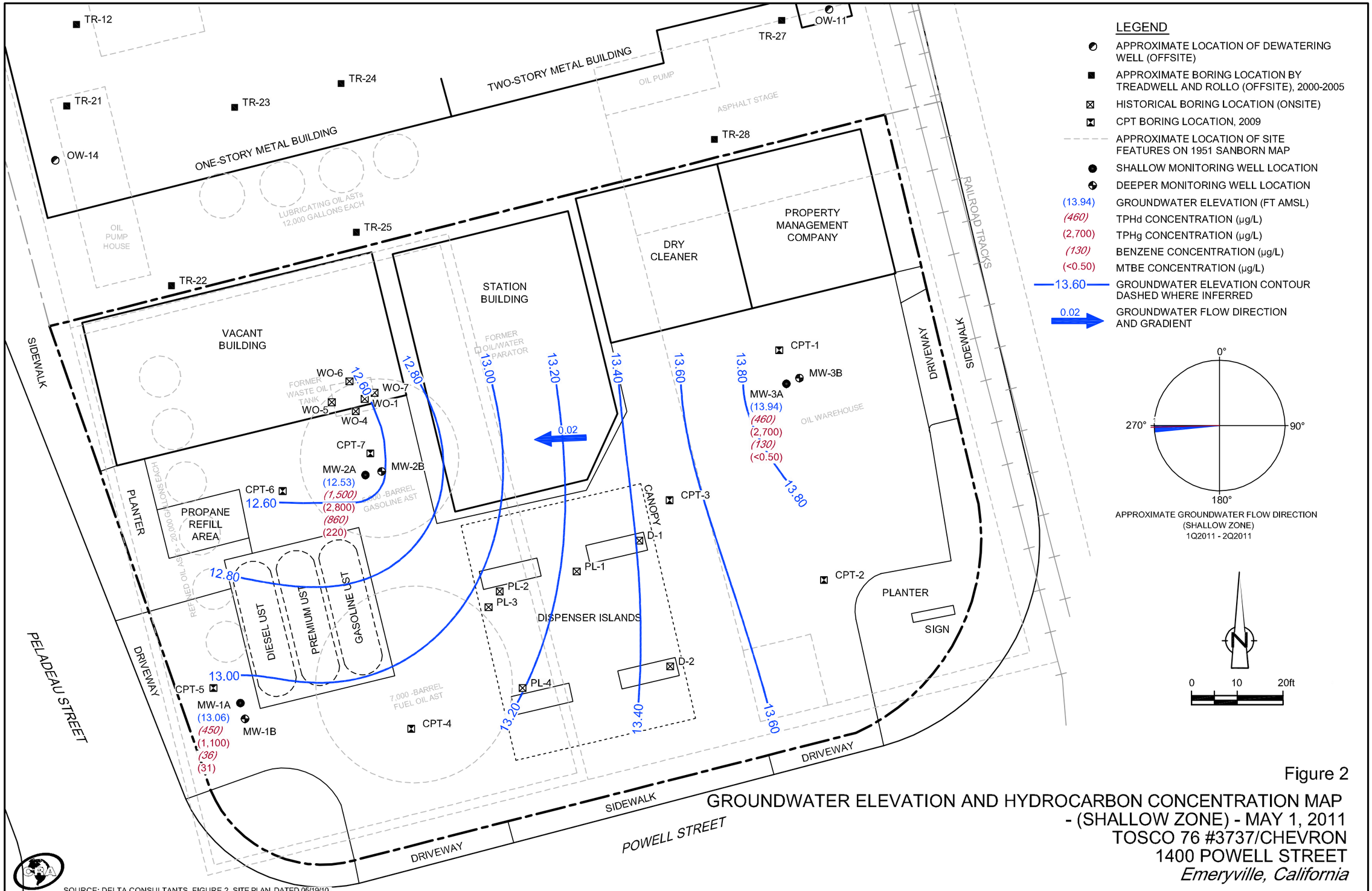
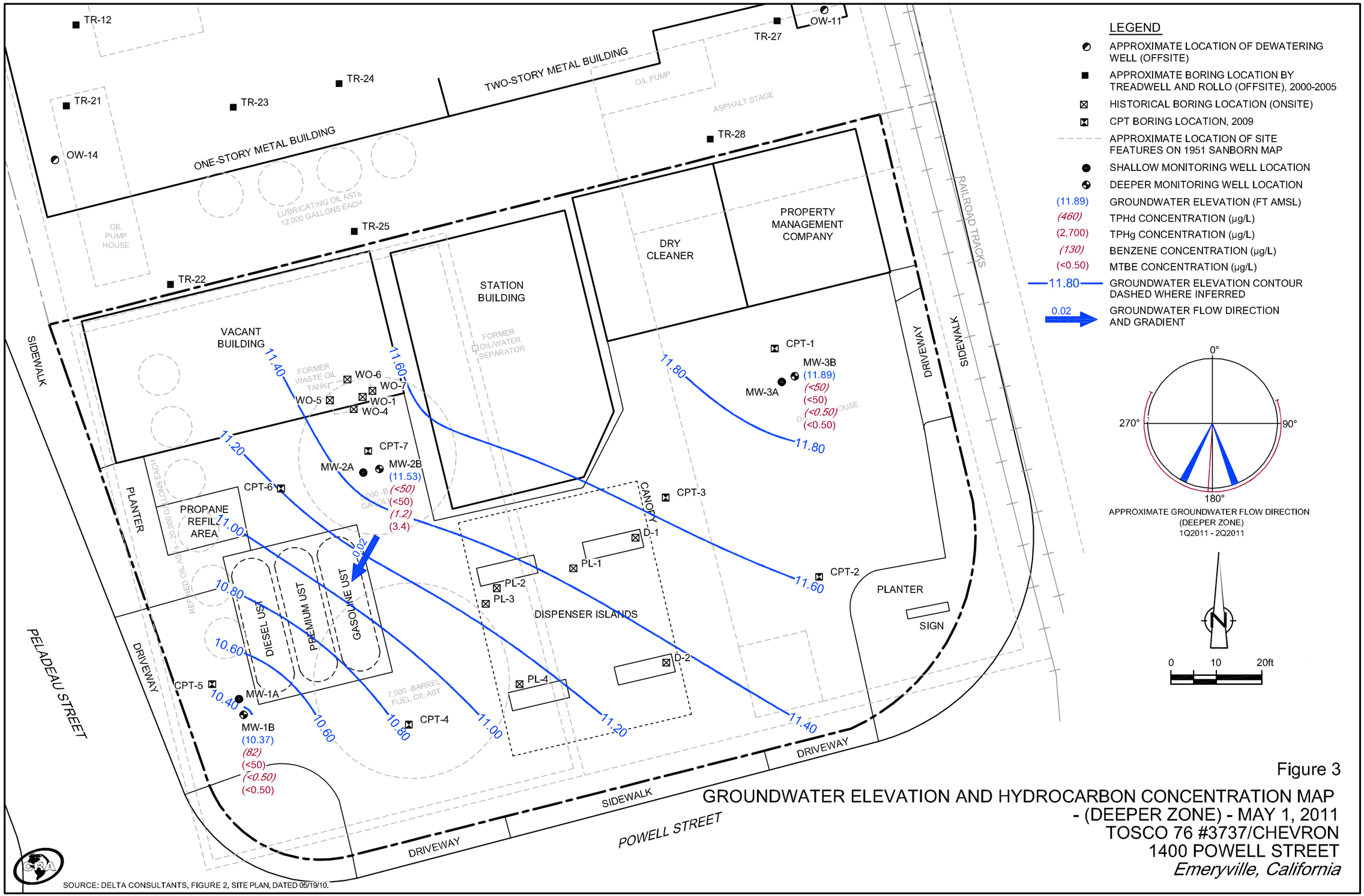


Figure 2

GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP
- (SHALLOW ZONE) - MAY 1, 2011
TOSCO 76 #3737/CHEVRON
1400 POWELL STREET
Emeryville, California

SOURCE: DELTA CONSULTANTS, FIGURE 2, SITE PLAN, DATED 05/19/10.

60716-95(002)GN-WA002 JUN 27/2011



SOURCE: DELTA CONSULTANTS, FIGURE 2, SITE PLAN, DATED 05/19/10.

Figure 3

GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP
- (DEEPER ZONE) - MAY 1, 2011
TOSCO 76 #3737/CHEVRON
1400 POWELL STREET
Emeryville, California

60716-95(002)GN-WA003 JUN 27/2011

TABLE

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
TOSCO 76 #3737/CHEVRON
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*											*GENERAL CHEMISTRY*
Location	Date	*TOC*	*DTW*	*GWE*	*TPH - Motor Oil*	*TPH - Diesel*	*TPHg*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*TBA*	*ETBE*	*DIPE*	*TAME*	*EDB*	*1,2-DCA*	*Ethanol*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-1A	**05/01/2011**	**18.74**	**5.68**	**13.06**	**<200**	**450**	**1,100**	**36**	**0.86**	**5.9**	**1.9**	**31**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**
MW-1B	**05/01/2011**	**18.88**	**8.51**	**10.37**	**<200**	**82**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**19**	**<250**
MW-2A	**05/01/2011[1]**	**18.93**	**6.40**	**12.53**	**<1,000**	**1,500**	**2,800**	**860**	**4.6**	**61**	**12**	**220**	**2,500**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**
MW-2B	**05/01/2011**	**19.10**	**7.57**	**11.53**	**<200**	**<50**	**<50**	**1.2**	**<0.50**	**<0.50**	**<1.0**	**3.4**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**
MW-3A	**05/01/2011**	**18.62**	**4.68**	**13.94**	**<200**	**460**	**2,700**	**130**	**2.7**	**98**	**3.6**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**1.2**	**<250**
MW-3B	**05/01/2011**	**18.57**	**6.68**	**11.89**	**<200**	**<50**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**

Abbreviations and Notes:

TOC = Top of Casing

DTW = Depth to Water

GWE = Groundwater elevation

(ft-amsl) = Feet Above Mean sea level

ft = Feet

µg/L = Micrograms per Liter

TPH - Total Petroleum Hydrocarbons

TPHg - Total Purgeable Petroleum Hydrocarbons

VOCS = Volatile Organic Compounds

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
TOSCO 76 #3737/CHEVRON
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylene

MTBE = Methyl tert butyl ether

TBA = Tert-Butyl alcohol

DIPE = Diisopropyl ether

ETBE = Tert-Butyl ethyl ether

TAME = Tert-Amyl methyl ether

EDB = 1,2-Dibromoethane (Ethylene dibromide)

1,2-DCA = 1,2-Dichloroethane

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

U	Compound not detected.
J	Estimated value.
1	Well dewatered and only adequate pre-purge groundwater was available for TPHmo analysis: two samples collected.

ATTACHMENT A

MONITORING DATA PACKAGE

123 Technology Drive West
Irvine, CA 92618

949.727.9336 PHONE
949.727.7399 FAX

www.TRCsolutions.com

DATE: May 18, 2011

TO: Ian Hull
CRA
5900 Hollis Street, Suite A
Emeryville, California 94608

SITE: Unocal Site 3737
Facility 351780
1400 Powell Street, Emeryville, CA

RE: Transmittal of Groundwater Monitoring Data

Dear Mr. Hull,

Please find attached the field data sheets, chain of custody (COC) forms, and technical services request (TSR) form for the monitoring event that was completed on May 1, 2011. Field measurements and collection of samples submitted to the laboratory were completed in general accordance with our usual groundwater monitoring protocol which is also attached for your reference.

Please call me at 949-341-7440 if you have questions.

Sincerely,

TRC

Anju Farfan
Groundwater Program Operations Manager

GENERAL FIELD PROCEDURES

Groundwater Gauging and Sampling Assignments

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater gauging and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

Fluid Level Measurements

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not typically purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed.

Purging and Groundwater Parameter Measurement

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

Groundwater Sample Collection

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable, ½-inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designation, sample date, sample time, and the sampler's initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

Sequence of Gauging, Purging and Sampling

The sequence in which monitoring activities are conducted is specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well.

Decontamination

In order to reduce the possibility of cross contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging, and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liquinox and water and rinsing twice. The final rinse is in deionized water.

Exceptions

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, are documented in field notes on the following pages.

FIELD MONITORING DATA SHEET

Technician: A. Vidwers Job #/Task #: 183487.0035.1780/TA01 Date: 5/1/11

Site # 3737 Project Manager AF Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-1B	✓	0633	21.73	8.51	—	—	0853	2"
MW-3B	✓	0638	23.83	6.68	—	—	0903	2"
MW-2B	✓	0642	23.58	7.57	—	—	0923	2"
MW-1A	✓	0646	9.92	5.68	—	—	0939	2"
MW-2A	✓	0650	10.18	6.40	—	—	1034	2"
MW-3A	✓	0654	9.26	4.68	—	—	1008	2"
								* Note:
								MW-2A sample time
								for TPH-d +
								TPH-Motor oil: 0828

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Vidmar

Site: 3737 Project No.: 183487.0035.1780 Date: 5/1/11

Well No. MW-1B Purge Method: Sub

Depth to Water (feet): 8.51 Depth to Product (feet): —

Total Depth (feet) 21.73 LPH & Water Recovered (gallons): —

Water Column (feet): 13.22 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 11.15 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0726	0729		3	1328	14.6	6.58			
			6						
			9						

Static at Time Sampled	Total Gallons Purged	Sample Time
10.21	3	0853

Comments: Well went dry at 3 gallons. Did not recover in 45 minutes

Well No. MW-3B Purge Method: Sub

Depth to Water (feet): 6.68 Depth to Product (feet): —

Total Depth (feet) 23.83 LPH & Water Recovered (gallons): —

Water Column (feet): 17.15 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 10.11 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0751	0755		3	1362	18.4	6.78			
			6						
			9						

Static at Time Sampled	Total Gallons Purged	Sample Time
8.93	4	0903

Comments: Well went dry at 4 gallons. Did not recover in 45 minutes.

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Vidners

Site: 3737 Project No.: 183497.0035.1780 Date: 5/1/11

Well No. MW-2A Purge Method: HB

Depth to Water (feet): 6.40 Depth to Product (feet): —

Total Depth (feet) 10.18 LPH & Water Recovered (gallons): —

Water Column (feet): 3.78 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 7.16 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0828			1	2608	18.2	6.89			
	0834		2	2617	18.3	6.77			
			3						

Static at Time Sampled	Total Gallons Purged	Sample Time
9.27	2	1034

Comments: Pre-purge sample taken at 0828. Well went dry at 2 gallons. Did not recover in 2 hours. Unable to fill 32 oz. Ambers, submitted pre-purge samples for TPH-d + iPH Motor oil

Well No. MW-3A Purge Method: HB

Depth to Water (feet): 4.68 Depth to Product (feet): —

Total Depth (feet) 9.26 LPH & Water Recovered (gallons): —

Water Column (feet): 4.58 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 5.60 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0758			1	1015	19.4	9.36			
			2	1028	19.8	8.11			
	0803		3	1046	19.8	8.10			

Static at Time Sampled	Total Gallons Purged	Sample Time
6.78	3	1008

Comments: Well went dry at 3 gallons.

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Vidmers

Site: 3737 Project No.: 183487.0035.1780 Date: 5/1/11

Well No. MW-2B Purge Method: Sub

Depth to Water (feet): 7.57 Depth to Product (feet): —

Total Depth (feet) 23.58 LPH & Water Recovered (gallons): —

Water Column (feet): 16.01 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 10.77 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0820	0823		3	1645	18.3	11.62			
			6						
			9						

Static at Time Sampled	Total Gallons Purged	Sample Time
10.77	3	0923

Comments: Well went dry at 3 gallons. Did not recover in 45 minutes.

Well No. MW-1A Purge Method: HB

Depth to Water (feet): 5.68 Depth to Product (feet): —

Total Depth (feet) 9.92 LPH & Water Recovered (gallons): —

Water Column (feet): 4.24 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 6.53 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0734			1	1090	16.5	6.68			
			2	1063	17.3	6.66			
	0739		3	1000	17.4	6.67			

Static at Time Sampled	Total Gallons Purged	Sample Time
6.93	3	0939

Comments: Did not recover in 2 hours.

TRC

WELL BOX CONDITION REPORT
(NORTHERN CALIFORNIA)

SITE NO. 3737

ADDRESS 1400 Powell St. Emeryville, CA

DATE 5/1/11

PERFOMED BY: A. Vidmers

PAGE 1 OF 1

Well Name	# of Ears	# of Stripped Ears	# of Broken Ears	# of Broken Bolts	# of Missing Bolts	Seal Damaged	Missing Lid	Broken Lid	Well Box is Exposed	Well Box is Below Grade	Unable to Access	Unable to Locate	Foundation Damaged	Paved Over	Street Well	Comments
MW-1B	2															12" ok
MW-3B	2															
MW-2B	2															
MW-1A	2															
MW-2A	2															
MW-3A	2															

TRC

BC LABORATORIES, INC.

4100 Atlas Court Bakersfield, CA 93308
(661) 327-4911 FAX (661) 327-1918

CHAIN OF CUSTODY

Analysis Requested

Bill to: ~~Conoco Phillips/ TRC~~ Union oil

Consultant Firm: ~~TRC~~ CRA Ian Hull

Address: 1400 Powell St.

~~21 Technology Drive~~
~~Irvine, CA 92618-2302~~
~~Attn: Anju Farfan~~

City: Emeryville

4-digit site#: 3737

Workorder # 351780

State: CA Zip:

Project #: 183487.0035.1780

~~Conoco Phillips~~ Mgr: Roya Kambin

Sampler Name: A. Vidners

MATRIX (GW) Ground-water (S) Soil (WW) Waste-water (SL) Sludge — (GW) circled

Lab#	Sample Description	Field Point Name	Date & Time Sampled		# of containers	BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015 w/ silica gel cleanup	8260 full list w/ oxygenates	BTEX/MTBE/OXYS BY 8260B	ETHANOL by 8260B	TPH –G by GC/MS	TPH-G by 8260B	Full Scan 8260B including OXYs	TPH-Motor oil by 8015 w/ silica gel cleanup	Turnaround Time Requested
		MW-1B	5/1/11	0853	5			X			X		X	X	X	STP
		MW-3B	↓	0903	↓			X			X		X	X	X	↓
		MW-2B	↓	0923	↓			X			X		X	X	X	↓
		MW-1A	↓	0939	↓			X			X		X	X	X	↓
		MW-2A	↓	1034	3						X		X	X		↓
		MW-3A	↓	1008	5			X			X		X	X	X	↓
		MW-2A	↓	0928	2			X							X	↓

Comments:

GLOBAL ID: T06019745736

Relinquished by: (Signature)	Received by:	Date & Time
[signature]	stored in refridgerator	5/1/11 1230
[signature]	[signature]	5.6.11 1300

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

25-Apr-11

Site ID:	3737	**Project No.:**	183487.0035.1780 / 00TA01
Address	1400 Powell Street	**Client:**	Roya Kambin
City:	Emeryville	**Contact #:**	925-790-6270
Cross Street	Peladeau Street	**PM:**	Ian Hull CRA
		PM Contact #:	510-420-3344

Total number of wells: 6 **Min. Well Diameter (in.):** **# of Techs, # of Hrs:** 1, 6

Depth to Water (ft.): **Max. Well Diameter (in.):** **Travel Time (hrs):**

Max. Well Depth (ft):

ACTIVITIES:		Frequency	Notes
Gauging:	☑	Quarterly	
Purge/Sampling:	☑	Quarterly	
No Purge/Sample	☐		

RELATED ACTIVITIES		Note
Drums:	☑	
Other Activities:	☐	
Traffic Control:	☐	

PERMIT INFORMATION:

NOTIFICATIONS:

Station Owner/Operator: Mr. Najmeddin Ravan, 510-653-2251. He is at the station until noon.

SITE INFORMATION:

The site is currently a Chevron station.

Prior to gauging, uncap all wells and allow tto equilibrate for 15 minutes.

Well MW-2A does not recharge quickly.
- collect a no purge sample (these will be submitted if the well does not recharge after purging)
- then purge and sample the well
- if the well recharges after pruging, please collect post-purge samples (submit these to the laboratory and discard the pre-purge samples)

2Q11 gauging and purging order: MW-1B, MW-3B, MW-2B, MW-1A, MW-2A, MW-3A

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

25-Apr-11

Site ID:	3737	**Project No.:**	183487.0035.1780 / 00TA01
Address	1400 Powell Street	**Client:**	Roya Kambin
City:	Emeryville	**Contact #:**	925-790-6270
Cross Street	Peladeau Street	**PM:**	Ian Hull CRA
		PM Contact #:	510-420-3344

LAB INFORMATION:

Global ID: T06019745736

Lab WO: 351780

Lab Used: BC

Lab Notes: Lab Analyses:
TPH-G by 8260B, Full Scan 8260B including OXYS, Ethanol by 8260B [Containers: 3 voas w/ HCl]
TPH-Diesel by 8015 w/ silica gel cleanup, TPH-Motor Oil by 8015 w/ silica gel cleanup [Container: two 1L ambers unpreserved]

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

25-Apr-11

Site ID.: 3737
Address 1400 Powell Street
City: Emeryville
Cross Street Peladeau Street

Well IDs	Benz.	MTBE	Gauging Q1	Gauging Q2	Gauging Q3	Gauging Q4	Sampling Q1	Sampling Q2	Sampling Q3	Sampling Q4	Field Measurements Pre-Purge	Field Measurements Post-Purge	Type	Comments
MW-3B			☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-3A			☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-2B			☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-2A			☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-1B			☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-1A			☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 05/23/2011

Ian Hull

Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Project:	3737
BC Work Order:	1107254
Invoice ID:	B100826

Enclosed are the results of analyses for samples received by the laboratory on 5/6/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

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Table of Contents

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BC LABORATORIES, INC. 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918

CHAIN OF CUSTODY

11-07254

Bill to: ~~ConocoPhillips/TRC~~ Union Oil	Consultant Firm: ~~TRC~~ Fan Hull CRA	MATRIX (GW) Ground-water (S) Soil (WW) Waste-water (SL) Sludge
Address: 1400 Powell St.	~~21 Technology Drive~~ ~~Irvine, CA 92618-2302~~ ~~Attention: Anju Farfan~~ SO-15077899	
City: Emeryville	4-digit site#: 3737	
	Workorder # 351780	
State: CA Zip:	Project #: 183487.0035.1780	
~~ConocoPhillips~~ Mgr: Roya Kambin	Sampler Name: A. Vidales	

Analysis Requested

Lab#	Sample Description	Field Point Name	Date & Time Sampled	# of containers	BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015 w/ silica gel cleanup	8260 full list w/ oxygenates	BTEX/MTBE/OXYS BY 8260B	ETHANOL by 8260B	TPH –G by GC/MS	TPH-G by 8260B	Full Scan 8260B including OXYs	TPH-Motor oil by 8015 w/ silica gel cleanup	Turnaround Time Requested
	-1	MW-1B	5/1/11 0853	5			X			X		X	X	X	STD
	-2	MW-3B	↓ 0903	↓			X			X		X	X	X	↓
	-3	MW-2B	0923				X			X		X	X	X	
	-4	MW-1A	0939	↓			X			X		X	X	X	
	-5	MW-2A	1034	3			X			X		X	X		
	-6	MW-3A	1008	5			X			X		X	X	X	
	-7	MW-2A	↓ 0928	2			X							X	↓

CHK BY [signature] DISTRIBUTION [initials] SUB-OUT

Comments:	Relinquished by: (Signature)	Received by:	Date & Time
	[signature]	stored in refridgerator	5/1/11 1230
GLOBAL ID: T0601974573б	Relinquished by: (Signature) [signature]	Received by: Ross Dickey	5-6-11 1300
	Relinquished by: (Signature) Ross Dickey 5-6-11	Received by: R.L. Ruiz [signature]	5-6-11 1620
	R L Ruiz 5-6-11 1900	[signature]	5-6-11 1900

Chain of Custody and Cooler Receipt Form for 1107254 Page 2 of 3

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 2

Submission #: 11-07254

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify) ________

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify) ________

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: VOA Thermometer ID: 103
Temperature: A 4.3 °C / C 4.3 °C

Date/Time 5-10-11 1908
Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A 3	A 3	A 3	A 3	A 3	A 3				
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: Did not receive samples labeled MW-2A [illegible] 5/4/11 0820 JNW 5-11-11
Sample Numbering Completed By: JNW Date/Time: 5/9/11 1957
A = Actual / C = Corrected [H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Chain of Custody and Cooler Receipt Form for 1107254 Page 3 of 3

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 2 of 2

Submission #: 11-07254

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: VOA Thermometer ID: 103

Temperature: A 4.1 °C / C 4.1 °C

Date/Time 5-10-11 1908

Analyst Init: JNW

SAMPLE CONTAINERS	SAMPLE NUMBER 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
P1A PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER	BC	BC	BC	BC	BC	BC	AB			
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: JNW Date/Time: 5-9-11 1757
A = Actual / C = Corrected

[H:\DOCS\WP60\LAB_DOCS\FORMS\SAMREC2.WPD]

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Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1107254-01	**COC Number:**	---	**Receive Date:**	05/06/2011 19:00
	Project Number:	3737	**Sampling Date:**	05/01/2011 08:53
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-1B	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T06019745736			
	Location ID (FieldPoint): MW-1B			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1107254-02	**COC Number:**	---	**Receive Date:**	05/06/2011 19:00
	Project Number:	3737	**Sampling Date:**	05/01/2011 09:03
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3B	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T06019745736			
	Location ID (FieldPoint): MW-3B			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1107254-03	**COC Number:**	---	**Receive Date:**	05/06/2011 19:00
	Project Number:	3737	**Sampling Date:**	05/01/2011 09:23
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2B	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T06019745736			
	Location ID (FieldPoint): MW-2B			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			

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Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1107254-04	**COC Number:**	---	**Receive Date:**	05/06/2011 19:00
	Project Number:	3737	**Sampling Date:**	05/01/2011 09:39
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-1A	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T06019745736	
			Location ID (FieldPoint): MW-1A	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1107254-05	**COC Number:**	---	**Receive Date:**	05/06/2011 19:00
	Project Number:	3737	**Sampling Date:**	05/01/2011 10:34
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2A	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T06019745736	
			Location ID (FieldPoint): MW-2A	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1107254-06	**COC Number:**	---	**Receive Date:**	05/06/2011 19:00
	Project Number:	3737	**Sampling Date:**	05/01/2011 10:08
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3A	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T06019745736	
			Location ID (FieldPoint): MW-3A	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information

1107254-07

COC Number: ---
Project Number: 3737
Sampling Location: ---
Sampling Point: MW-2A
Sampled By: TRCI

Receive Date: 05/06/2011 19:00
Sampling Date: 05/01/2011 08:28
Sample Depth: ---
Lab Matrix: Water
Sample Type: Water
Delivery Work Order:
Global ID: T06019745736
Location ID (FieldPoint): MW-2A
Matrix: W
Sample QC Type (SACode): CS
Cooler ID:

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Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-01 | **Client Sample Name:** 3737, MW-1B, 5/1/2011 8:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	**19**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1

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Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-01 | **Client Sample Name:** 3737, MW-1B, 5/1/2011 8:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Naphthalene	ND	ug/L	0.50	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1

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Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-01 | **Client Sample Name:** 3737, MW-1B, 5/1/2011 8:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.3	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	90.4	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	05/10/11	05/10/11 16:24	JCC	HPCHEM	1	BUE0582

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5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1107254-01 | **Client Sample Name:** 3737, MW-1B, 5/1/2011 8:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**82**	**ug/L**	**50**	**Luft/FFP**	**ND**	**A52**	1
TPH - Motor Oil	ND	ug/L	200	Luft/FFP	ND		1
Tetracosane (Surrogate)	74.3	%	37 - 134 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	05/12/11	05/19/11 05:04	EJB	GC-2	1	BUE1265

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-02 | **Client Sample Name:** 3737, MW-3B, 5/1/2011 9:03:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-02 | **Client Sample Name:** 3737, MW-3B, 5/1/2011 9:03:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Naphthalene	ND	ug/L	0.50	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-02 | **Client Sample Name:** 3737, MW-3B, 5/1/2011 9:03:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	92.5	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.1	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	88.0	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	05/10/11	05/10/11 12:51	JCC	HPCHEM	1	BUE0582

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1107254-02 | **Client Sample Name:** 3737, MW-3B, 5/1/2011 9:03:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	ug/L	50	Luft/FFP	ND		1
TPH - Motor Oil	ND	ug/L	200	Luft/FFP	ND		1
Tetracosane (Surrogate)	69.7	%	37 - 134 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	05/12/11	05/19/11 05:27	EJB	GC-2	0.980	BUE1265

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-03 | **Client Sample Name:** 3737, MW-2B, 5/1/2011 9:23:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**1.2**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-03 | **Client Sample Name:** 3737, MW-2B, 5/1/2011 9:23:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	**3.4**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Naphthalene	ND	ug/L	0.50	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-03 | **Client Sample Name:** 3737, MW-2B, 5/1/2011 9:23:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.6	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.3	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	05/10/11	05/10/11 13:13	JCC	HPCHEM	1	BUE0582

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1107254-03 | **Client Sample Name:** 3737, MW-2B, 5/1/2011 9:23:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	ug/L	50	Luft/FFP	ND		1
TPH - Motor Oil	ND	ug/L	200	Luft/FFP	ND		1
Tetracosane (Surrogate)	73.7	%	37 - 134 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	05/12/11	05/19/11 05:50	EJB	GC-2	0.980	BUE1265

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-04 | **Client Sample Name:** 3737, MW-1A, 5/1/2011 9:39:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**36**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	**2.6**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
sec-Butylbenzene	**1.9**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	**33**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
4-Chlorotoluene	**35**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	**5.1**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1

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5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-04 | **Client Sample Name:** 3737, MW-1A, 5/1/2011 9:39:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		1
Ethylbenzene	**5.9**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	**14**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
p-Isopropyltoluene	**0.90**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	**31**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Naphthalene	ND	ug/L	0.50	EPA-8260	ND		1
n-Propylbenzene	**19**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	**0.86**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	**1.4**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	**1.1**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
1,3,5-Trimethylbenzene	**1.2**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**1.9**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-04 | **Client Sample Name:** 3737, MW-1A, 5/1/2011 9:39:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**1100**	**ug/L**	**50**	**Luft-GC/MS**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	96.1	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.8	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	05/10/11	05/10/11 13:34	JCC	HPCHEM	1	BUE0582

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1107254-04 | **Client Sample Name:** 3737, MW-1A, 5/1/2011 9:39:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**450**	**ug/L**	**50**	**Luft/FFP**	**ND**	**A52**	1
TPH - Motor Oil	ND	ug/L	200	Luft/FFP	ND		1
Tetracosane (Surrogate)	69.5	%	37 - 134 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	05/12/11	05/19/11 07:29	EJB	GC-2	0.960	BUE1265

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-05 | **Client Sample Name:** 3737, MW-2A, 5/1/2011 10:34:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**860**	**ug/L**	**12**	**EPA-8260**	**ND**	**A01**	1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		2
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		2
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		2
Bromoform	ND	ug/L	0.50	EPA-8260	ND		2
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		2
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		2
sec-Butylbenzene	**2.9**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		2
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		2
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		2
Chloroform	ND	ug/L	0.50	EPA-8260	ND		2
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		2
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		2
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		2
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		2
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		2
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		2
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		2
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		2
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		2
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		2
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		2
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		2
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		2

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-05 | **Client Sample Name:** 3737, MW-2A, 5/1/2011 10:34:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		2
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		2
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		2
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		2
Ethylbenzene	**61**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		2
Isopropylbenzene	ND	ug/L	0.50	EPA-8260	ND		2
p-Isopropyltoluene	**5.2**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		2
Methyl t-butyl ether	**220**	**ug/L**	**12**	**EPA-8260**	**ND**	**A01**	1
Naphthalene	**36**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
n-Propylbenzene	**19**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
Styrene	ND	ug/L	0.50	EPA-8260	ND		2
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		2
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		2
Toluene	**4.6**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		2
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2,4-Trimethylbenzene	**1.6**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
1,3,5-Trimethylbenzene	**2.3**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		2
Total Xylenes	**12**	**ug/L**	**1.0**	**EPA-8260**	**ND**		2
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		2
t-Butyl alcohol	**2500**	**ug/L**	**250**	**EPA-8260**	**ND**	**A01**	1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		2
Ethanol	ND	ug/L	250	EPA-8260	ND		2

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-05 | **Client Sample Name:** 3737, MW-2A, 5/1/2011 10:34:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		2
Total Purgeable Petroleum Hydrocarbons	**2800**	**ug/L**	**1200**	**Luft-GC/MS**	**ND**	**A01**	1
1,2-Dichloroethane-d4 (Surrogate)	93.1	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	107	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	98.4	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.5	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	94.1	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	05/10/11	05/10/11 15:00	JCC	HPCHEM	25	BUE0582
2	EPA-8260	05/10/11	05/10/11 13:56	JCC	HPCHEM	1	BUE0582

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-06 | **Client Sample Name:** 3737, MW-3A, 5/1/2011 10:08:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**130**	**ug/L**	**2.5**	**EPA-8260**	**ND**	**A01**	1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		2
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		2
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		2
Bromoform	ND	ug/L	0.50	EPA-8260	ND		2
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		2
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		2
sec-Butylbenzene	**5.3**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
tert-Butylbenzene	**0.63**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		2
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		2
Chloroform	ND	ug/L	0.50	EPA-8260	ND		2
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		2
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		2
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		2
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		2
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		2
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		2
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dichloroethane	**1.2**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		2
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		2
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		2
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		2
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		2
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		2
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		2

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-06 | **Client Sample Name:** 3737, MW-3A, 5/1/2011 10:08:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		2
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		2
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		2
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		2
Ethylbenzene	**98**	**ug/L**	**2.5**	**EPA-8260**	**ND**	**A01**	1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		2
Isopropylbenzene	**44**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
p-Isopropyltoluene	**8.8**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		2
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		2
Naphthalene	**2.5**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
n-Propylbenzene	**48**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
Styrene	ND	ug/L	0.50	EPA-8260	ND		2
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		2
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		2
Toluene	**2.7**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		2
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2,4-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,3,5-Trimethylbenzene	**1.4**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		2
Total Xylenes	**3.6**	**ug/L**	**1.0**	**EPA-8260**	**ND**		2
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		2
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		2
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		2
Ethanol	ND	ug/L	250	EPA-8260	ND		2

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Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1107254-06 | **Client Sample Name:** 3737, MW-3A, 5/1/2011 10:08:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		2
Total Purgeable Petroleum Hydrocarbons	**2700**	**ug/L**	**250**	**Luft-GC/MS**	**ND**	**A01**	1
1,2-Dichloroethane-d4 (Surrogate)	99.7	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	94.2	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	103	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	05/10/11	05/10/11 15:21	JCC	HPCHEM	5	BUE0582
2	EPA-8260	05/10/11	05/10/11 14:17	JCC	HPCHEM	1	BUE0582

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1107254-06 | **Client Sample Name:** 3737, MW-3A, 5/1/2011 10:08:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**460**	**ug/L**	**50**	**Luft/FFP**	**ND**	**A52**	1
TPH - Motor Oil	ND	ug/L	200	Luft/FFP	ND		1
Tetracosane (Surrogate)	63.0	%	37 - 134 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	05/12/11	05/19/11 07:51	EJB	GC-2	0.960	BUE1265

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1107254-07 | **Client Sample Name:** 3737, MW-2A, 5/1/2011 8:28:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**1500**	**ug/L**	**250**	**Luft/FFP**	**ND**	**A01**	1
TPH - Motor Oil	ND	ug/L	1000	Luft/FFP	ND	A01	1
Tetracosane (Surrogate)	79.4	%	37 - 134 (LCL - UCL)	Luft/FFP		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	05/12/11	05/19/11 15:11	EJB	GC-2	5	BUE1265

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUE0582						
Benzene	BUE0582-BLK1	ND	ug/L	0.50		
Bromobenzene	BUE0582-BLK1	ND	ug/L	0.50		
Bromochloromethane	BUE0582-BLK1	ND	ug/L	0.50		
Bromodichloromethane	BUE0582-BLK1	ND	ug/L	0.50		
Bromoform	BUE0582-BLK1	ND	ug/L	0.50		
Bromomethane	BUE0582-BLK1	ND	ug/L	1.0		
n-Butylbenzene	BUE0582-BLK1	ND	ug/L	0.50		
sec-Butylbenzene	BUE0582-BLK1	ND	ug/L	0.50		
tert-Butylbenzene	BUE0582-BLK1	ND	ug/L	0.50		
Carbon tetrachloride	BUE0582-BLK1	ND	ug/L	0.50		
Chlorobenzene	BUE0582-BLK1	ND	ug/L	0.50		
Chloroethane	BUE0582-BLK1	ND	ug/L	0.50		
Chloroform	BUE0582-BLK1	ND	ug/L	0.50		
Chloromethane	BUE0582-BLK1	ND	ug/L	0.50		
2-Chlorotoluene	BUE0582-BLK1	ND	ug/L	0.50		
4-Chlorotoluene	BUE0582-BLK1	ND	ug/L	0.50		
Dibromochloromethane	BUE0582-BLK1	ND	ug/L	0.50		
1,2-Dibromo-3-chloropropane	BUE0582-BLK1	ND	ug/L	1.0		
1,2-Dibromoethane	BUE0582-BLK1	ND	ug/L	0.50		
Dibromomethane	BUE0582-BLK1	ND	ug/L	0.50		
1,2-Dichlorobenzene	BUE0582-BLK1	ND	ug/L	0.50		
1,3-Dichlorobenzene	BUE0582-BLK1	ND	ug/L	0.50		
1,4-Dichlorobenzene	BUE0582-BLK1	ND	ug/L	0.50		
Dichlorodifluoromethane	BUE0582-BLK1	ND	ug/L	0.50		
1,1-Dichloroethane	BUE0582-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BUE0582-BLK1	ND	ug/L	0.50		
1,1-Dichloroethene	BUE0582-BLK1	ND	ug/L	0.50		
cis-1,2-Dichloroethene	BUE0582-BLK1	ND	ug/L	0.50		
trans-1,2-Dichloroethene	BUE0582-BLK1	ND	ug/L	0.50		
Total 1,2-Dichloroethene	BUE0582-BLK1	ND	ug/L	1.0		
1,2-Dichloropropane	BUE0582-BLK1	ND	ug/L	0.50		
1,3-Dichloropropane	BUE0582-BLK1	ND	ug/L	0.50		
2,2-Dichloropropane	BUE0582-BLK1	ND	ug/L	0.50		
1,1-Dichloropropene	BUE0582-BLK1	ND	ug/L	0.50		

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Emeryville, CA 94608

Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUE0582						
cis-1,3-Dichloropropene	BUE0582-BLK1	ND	ug/L	0.50		
trans-1,3-Dichloropropene	BUE0582-BLK1	ND	ug/L	0.50		
Total 1,3-Dichloropropene	BUE0582-BLK1	ND	ug/L	1.0		
Ethylbenzene	BUE0582-BLK1	ND	ug/L	0.50		
Hexachlorobutadiene	BUE0582-BLK1	ND	ug/L	0.50		
Isopropylbenzene	BUE0582-BLK1	ND	ug/L	0.50		
p-Isopropyltoluene	BUE0582-BLK1	ND	ug/L	0.50		
Methylene chloride	BUE0582-BLK1	ND	ug/L	1.0		
Methyl t-butyl ether	BUE0582-BLK1	ND	ug/L	0.50		
Naphthalene	BUE0582-BLK1	ND	ug/L	0.50		
n-Propylbenzene	BUE0582-BLK1	ND	ug/L	0.50		
Styrene	BUE0582-BLK1	ND	ug/L	0.50		
1,1,1,2-Tetrachloroethane	BUE0582-BLK1	ND	ug/L	0.50		
1,1,2,2-Tetrachloroethane	BUE0582-BLK1	ND	ug/L	0.50		
Tetrachloroethene	BUE0582-BLK1	ND	ug/L	0.50		
Toluene	BUE0582-BLK1	ND	ug/L	0.50		
1,2,3-Trichlorobenzene	BUE0582-BLK1	ND	ug/L	0.50		
1,2,4-Trichlorobenzene	BUE0582-BLK1	ND	ug/L	0.50		
1,1,1-Trichloroethane	BUE0582-BLK1	ND	ug/L	0.50		
1,1,2-Trichloroethane	BUE0582-BLK1	ND	ug/L	0.50		
Trichloroethene	BUE0582-BLK1	ND	ug/L	0.50		
Trichlorofluoromethane	BUE0582-BLK1	ND	ug/L	0.50		
1,2,3-Trichloropropane	BUE0582-BLK1	ND	ug/L	1.0		
1,1,2-Trichloro-1,2,2-trifluoroethane	BUE0582-BLK1	ND	ug/L	0.50		
1,2,4-Trimethylbenzene	BUE0582-BLK1	ND	ug/L	0.50		
1,3,5-Trimethylbenzene	BUE0582-BLK1	ND	ug/L	0.50		
Vinyl chloride	BUE0582-BLK1	ND	ug/L	0.50		
Total Xylenes	BUE0582-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BUE0582-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BUE0582-BLK1	ND	ug/L	10		
Diisopropyl ether	BUE0582-BLK1	ND	ug/L	0.50		
Ethanol	BUE0582-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BUE0582-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BUE0582-BLK1	ND	ug/L	50		

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Emeryville, CA 94608

Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUE0582						
1,2-Dichloroethane-d4 (Surrogate)	BUE0582-BLK1	106	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUE0582-BLK1	101	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BUE0582-BLK1	93.1	%	86 - 115 (LCL - UCL)		

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Emeryville, CA 94608

Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUE0582										
Benzene	BUE0582-BS1	LCS	22.830	25.000	ug/L	91.3		70 - 130		
Bromodichloromethane	BUE0582-BS1	LCS	23.550	25.000	ug/L	94.2		70 - 130		
Chlorobenzene	BUE0582-BS1	LCS	23.630	25.000	ug/L	94.5		70 - 130		
Chloroethane	BUE0582-BS1	LCS	24.400	25.000	ug/L	97.6		70 - 130		
1,4-Dichlorobenzene	BUE0582-BS1	LCS	24.040	25.000	ug/L	96.2		70 - 130		
1,1-Dichloroethane	BUE0582-BS1	LCS	23.290	25.000	ug/L	93.2		70 - 130		
1,1-Dichloroethene	BUE0582-BS1	LCS	23.710	25.000	ug/L	94.8		70 - 130		
Toluene	BUE0582-BS1	LCS	23.480	25.000	ug/L	93.9		70 - 130		
Trichloroethene	BUE0582-BS1	LCS	23.820	25.000	ug/L	95.3		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUE0582-BS1	LCS	10.080	10.000	ug/L	101		76 - 114		
Toluene-d8 (Surrogate)	BUE0582-BS1	LCS	10.200	10.000	ug/L	102		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUE0582-BS1	LCS	10.160	10.000	ug/L	102		86 - 115		

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUE0582	Used client sample: Y - Description: MW-3B, 05/01/2011 09:03										
Benzene	MS	1107254-02	ND	23.350	25.000	ug/L		93.4		70 - 130	
	MSD	1107254-02	ND	22.940	25.000	ug/L	1.8	91.8	20	70 - 130	
Bromodichloromethane	MS	1107254-02	ND	25.910	25.000	ug/L		104		70 - 130	
	MSD	1107254-02	ND	24.820	25.000	ug/L	4.3	99.3	20	70 - 130	
Chlorobenzene	MS	1107254-02	ND	23.870	25.000	ug/L		95.5		70 - 130	
	MSD	1107254-02	ND	23.770	25.000	ug/L	0.4	95.1	20	70 - 130	
Chloroethane	MS	1107254-02	ND	23.100	25.000	ug/L		92.4		70 - 130	
	MSD	1107254-02	ND	23.430	25.000	ug/L	1.4	93.7	20	70 - 130	
1,4-Dichlorobenzene	MS	1107254-02	ND	24.030	25.000	ug/L		96.1		70 - 130	
	MSD	1107254-02	ND	25.140	25.000	ug/L	4.5	101	20	70 - 130	
1,1-Dichloroethane	MS	1107254-02	ND	23.350	25.000	ug/L		93.4		70 - 130	
	MSD	1107254-02	ND	23.010	25.000	ug/L	1.5	92.0	20	70 - 130	
1,1-Dichloroethene	MS	1107254-02	ND	23.100	25.000	ug/L		92.4		70 - 130	
	MSD	1107254-02	ND	23.260	25.000	ug/L	0.7	93.0	20	70 - 130	
Toluene	MS	1107254-02	ND	23.580	25.000	ug/L		94.3		70 - 130	
	MSD	1107254-02	ND	24.130	25.000	ug/L	2.3	96.5	20	70 - 130	
Trichloroethene	MS	1107254-02	ND	23.290	25.000	ug/L		93.2		70 - 130	
	MSD	1107254-02	ND	24.050	25.000	ug/L	3.2	96.2	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1107254-02	ND	10.280	10.000	ug/L		103		76 - 114	
	MSD	1107254-02	ND	8.5800	10.000	ug/L	18.0	85.8		76 - 114	
Toluene-d8 (Surrogate)	MS	1107254-02	ND	10.100	10.000	ug/L		101		88 - 110	
	MSD	1107254-02	ND	10.040	10.000	ug/L	0.6	100		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1107254-02	ND	9.8500	10.000	ug/L		98.5		86 - 115	
	MSD	1107254-02	ND	10.030	10.000	ug/L	1.8	100		86 - 115	

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Emeryville, CA 94608

Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUE1265						
TPH - Diesel (FFP)	BUE1265-BLK1	ND	ug/L	50		
TPH - Motor Oil	BUE1265-BLK1	ND	ug/L	200		
Tetracosane (Surrogate)	BUE1265-BLK1	71.4	%	37 - 134 (LCL - UCL)		

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUE1265										
TPH - Diesel (FFP)	BUE1265-BS1	LCS	305.12	500.00	ug/L	61.0		52 - 128		
Tetracosane (Surrogate)	BUE1265-BS1	LCS	15.607	20.000	ug/L	78.0		37 - 134		

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Emeryville, CA 94608

Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUE1265	Used client sample: N										
TPH - Diesel (FFP)	MS	1105230-96	ND	270.25	500.00	ug/L		54.1		50 - 127	
	MSD	1105230-96	ND	273.99	500.00	ug/L	1.4	54.8	24	50 - 127	
Tetracosane (Surrogate)	MS	1105230-96	ND	15.855	20.000	ug/L		79.3		37 - 134	
	MSD	1105230-96	ND	14.935	20.000	ug/L	6.0	74.7		37 - 134	

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Reported: 05/23/2011 15:28
Project: 3737
Project Number: SO-15077899
Project Manager: Ian Hull

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A52	Chromatogram not typical of diesel.

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ATTACHMENT C

HISTORICAL GROUNDWATER MONITORING AND SAMPLING DATA

Table 2
Summary of Current Groundwater Analytical Data
Chevron Branded Service Station No. 3737
1400 Powell Street
Emeryville, California

Sample ID	Date	Time	Depth to Water	TOC Elevation	Groundwater Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-MO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	n-Butyl-benzene (µg/L)	sec-Butyl-benzene (µg/L)	Chloroform (µg/L)	Isopropyl-benzene (µg/L)	p-Isopropyl-toluene (µg/L)	Napthalene (µg/L)	n-Propyl-benzene (µg/L)	1,2,4-Trimethyl-benzene (µg/L)	1,3,5 Trimethyl-benzene (µg/L)
MW-1A	1/26/2011	2:20	5.8	18.743	12.94	**960**	**450** A52	<200	**8.4**	<0.50	**1.9**	**1.6**	**50**	**1.4**	**62**	<0.50	<250	<0.50	<0.50	<0.50	**2.2**	**1.2**	<0.50	**4.2**	**1.8**	**1.8**	**7.3**	**1.0**	**1.2**
MW-1B	1/26/2011	1:20	9.46	18.884	9.42	<50	<50	<200	<0.50	<0.50	<0.50	<1.0	**0.66**	<0.50	<10	<0.50	<250	<0.50	<0.50	**24**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-2A	1/26/2011	10:33	8.02	18.925	10.91	**2,500**	**1,200**	<1000	**100**	**2.2**	**28**	**9.0**	**140**	<0.50	**1,300**	<0.50	<250	<0.50	<0.50	<0.50	**6.6**	**3.9**	**2.5**	**14**	**7.6**	**17**	**23**	**2.5**	**2.4**
MW-2B	1/26/2011	2:10	5.51	19.099	13.59	<50	<50	<200	**0.55**	<0.50	<0.50	<1.0	**3.4**	<0.50	<10	<0.50	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-3A	1/26/2011	2:30	4.75	18.616	13.87	**3,100**	**830**	<200	**160**	<5.0	**96**	<10	<5.0	<5.0	<100	<5.0	<2500	<5.0	<5.0	<5.0	<5.0	**6.2**	<5.0	**40**	**9.2**	<5.0	**54**	<5.0	<5.0
MW-3B	1/26/2011	1:35	7.33	18.571	11.24	<50	**57**	<200	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<10	<0.50	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
COMP	1/26/2011	1:15	NA	NA	NA	**1,200**	**350**	<200	**13**	**0.57**	**5.4**	**1.5**	**6.0**	<0.50	**92**	<0.50	**15,000**	<0.50	<0.50	**3.6**	**5.3**	**2.3**	<0.50	**4.0**	**2.9**	**5.6**	**8.4**	**0.60**	**0.52**
ESL	--	--	--	--	--	100	100	100	1	40	30	20	5	NA	12	NA	NA	NA	0.05	0.5	NA	NA	70	NA	NA	17	NA	NA	NA

Notes:

Depth to water measured in feet below top of casing
Groundwtaer elevation measured in feet above mean sea level
Bold concentrations indicate detection above laboratory reporting limit

(µg/L)	micrograms per liter
TPH-D	Total Petroleum Hydrocarbons as Diesel
TPH-MO	Total Petroleum Hydrocarbons as Motor Oil
TPH-G	Total Petroleum Hydrocarbons as Gasoline
MTBE	methyl tertiary butyl ether
TBA	tertiary buty alcohol
ETBE	ethyl tertiary butyl ether
DIPE	di-isopropyl ether
TAME	tertiary amyl ethyl ether
EDB	ethylene dibromide
1,2-DCA	1,2-dichloroethane
ESL	Regional Water Quality Control Board - San Francisco Region Environmental Screening Level
A52	Data Qualifier: Chromatogram not typical of diesel

ESL based on residential land use, shallow soil, and groundwater as a potential drinking resource.
TPH-D and TPH-MO analysis by Environmental Protection Agency (EPA) Test Method 8015 with Silica Gel Cleanup
All other analyses by EPA Method 8260B.
Samples were analyzed for a full VOC Scan by EPA Method 8260B with oxygenates and lead scavengers. All Oxygenates and lead scavenger data are summarized, only VOCs with detections are presented in table.
Data qualifiers regarding sample dilution, surrogate recovery, or quality control are not presented in table. Please refer to laboratory reports for full explanation of qualifiers.