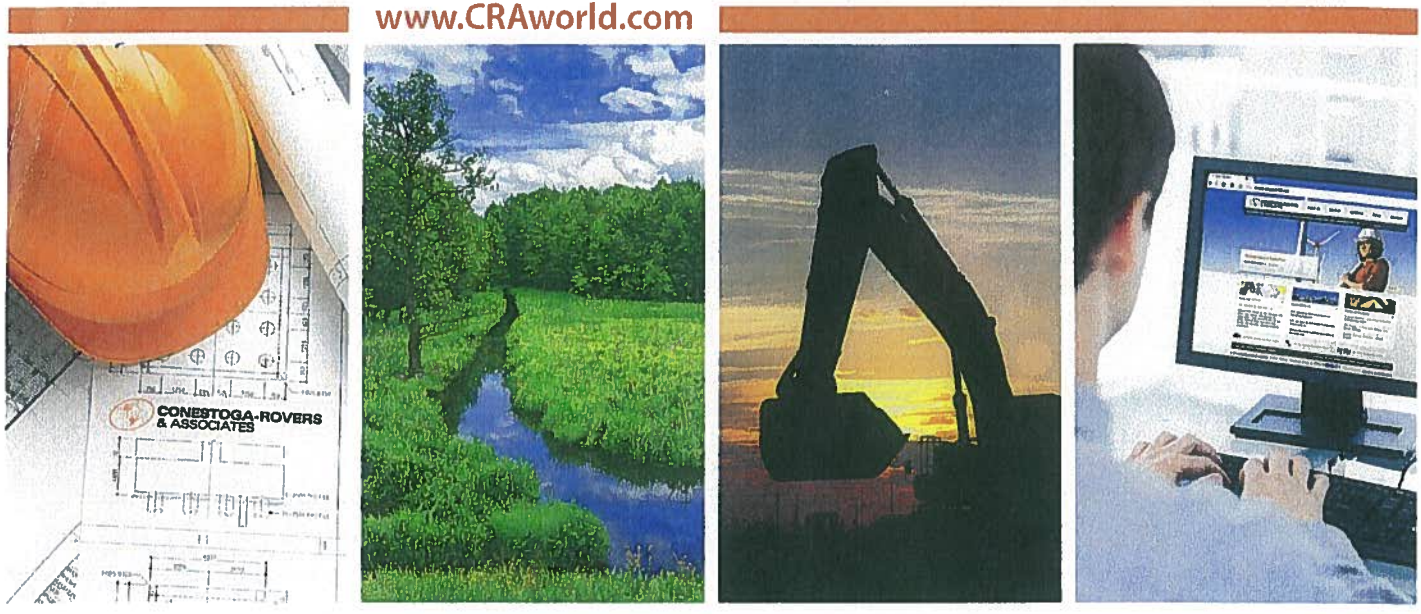


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2013 Annual Groundwater Monitoring Report

Former Jiffy Lube Facility
6808 196th Street Southwest
Lynnwood, Washington

Prepared for: Shell Oil Products US

Conestoga-Rovers & Associates

20818 44th Ave. West, Suite 190
Lynnwood, Washington 98036

June 9, 2014 • 241739 • Report No. 11





**CONESTOGA-ROVERS
& ASSOCIATES**

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JUN 12 2014

DEPT OF ECOLOGY
TCP - NWRO

DATE: June 9, 2014 REFERENCE NO.: 241739
PROJECT NAME: 6808 196th Street SW, Lynnwood, WA

To: Department of Ecology - NWRO
Attn: Sonia Fernandez
3190 160th Ave. SE
Bellevue, WA 98008-5452

Please find enclosed: Draft Final
 Originals Other
 Prints

Sent via: Mail Same Day Courier
 Overnight Courier Other

QUANTITY	DESCRIPTION
1	2013 Annual Groundwater Monitoring Report

As Requested For Review and Comment
 For Your Use _____

COMMENTS:

Copy to: Mr. Perry Pineda, Shell Oil Products
US (Sharepoint)
Completed by: Christine Diel Signed:
[Please Print]

Filing: **Correspondence File**



2013 Annual Groundwater Monitoring Report

**Former Jiffy Lube Facility
6808 196th Street Southwest
Lynnwood, Washington**

**Sap Code 171152
Incident No. 97605410
Agency No. 27496218
VCP NO. NW2070**

Christine Diel

Christina McClelland

**Prepared by:
Conestoga-Rovers
& Associates**

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Suite 190
Lynnwood, Washington
U.S.A. 98036

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**JUNE 2014
REF. NO. 241739 (11)**

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- Figure 2 Groundwater Contour and Chemical Concentration Map – April 30, 2013
- Figure 3 Groundwater Contour and Chemical Concentration Map – October 24, 2013

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(Following Text)**

- Table 1 Summary of Groundwater Monitoring Data

List of Appendices

Appendix A Field Forms

Appendix B Laboratory Analytical Reports

Section 1.0 Introduction

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (SOPUS). This annual report includes all groundwater monitoring data collected in 2013.

1.1 Site Information

Site Address	6808 196 th Street Southwest, Lynnwood
Site Use	Former Jiffy Lube Facility
Shell Project Manager	Perry Pineda
CRA Project Manager	Christina McClelland
Lead Agency and Contact	Washington State Department of Ecology (Ecology), Sonia Fernandez
Agency Case No.	27496218
Shell SAP Code:	171152
Shell Incident No.	97605410
VCP No.	NW2070

The most recent agency correspondence on record is from April 16, 2012.

Section 2.0 Site Activities, Findings, and Discussion

2.1 Current Activities

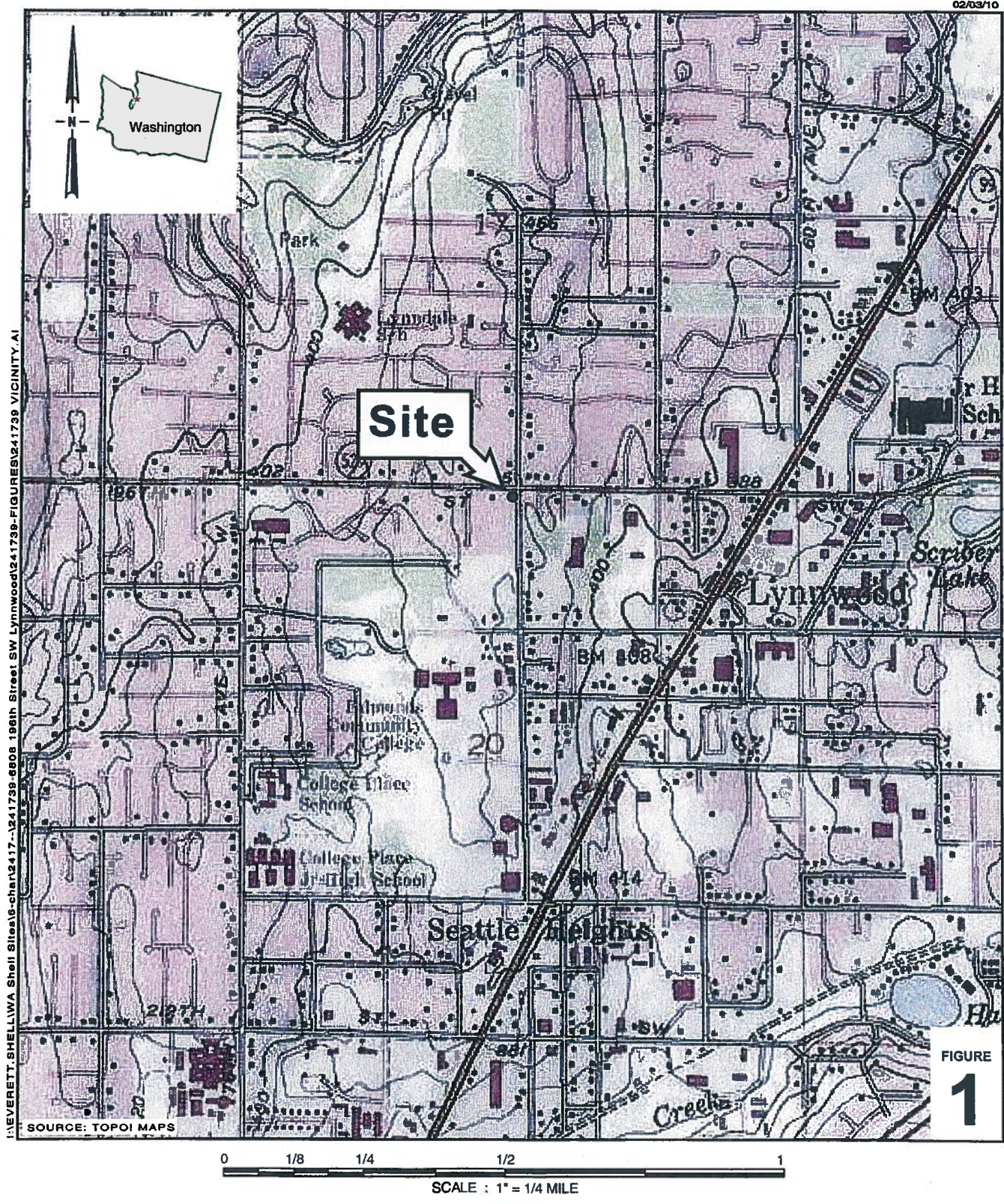
Blaine Tech Services, Inc. (Blaine) gauged and sampled wells according to the established monitoring program for this site during the second and fourth quarters of 2013.

CRA prepared a vicinity map (Figure 1) and groundwater contour and chemical concentration maps (Figures 2 and 3). CRA prepared Table 1 summarizing groundwater monitoring data and laboratory analytical results. Field forms and the laboratory analytical report are included as Appendices A and B.

2.2 Findings

Quarter/Date	2 nd /April 30, 2013
Groundwater Flow Direction	Estimated to the southwest
Hydraulic Gradient	0.03 foot/foot
Depth to Water	5.21 to 8.87 feet below top of well casing
Quarter/Date	4th/October 24, 2013
Groundwater Flow Direction	Estimated to the southwest
Hydraulic Gradient	0.03 foot/foot
Depth to Water	9.35 to 13.39 feet below top of well casing

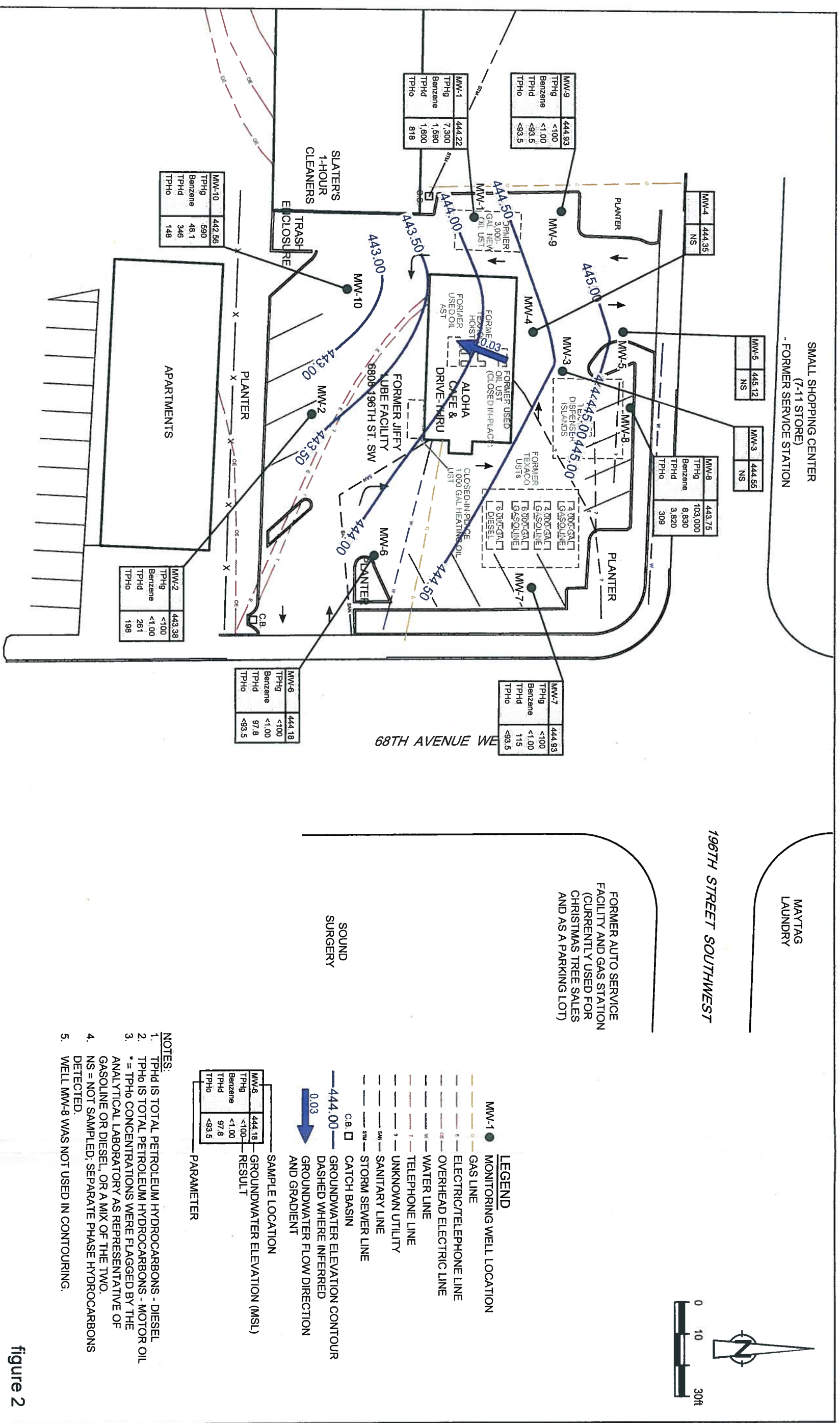
Figures



Former Jiffy Lube Facility
 6808 196th Street Southwest
 Lynnwood, Washington



Vicinity Map



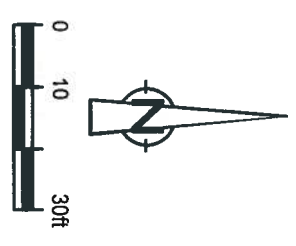
GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP - APRIL 30, 2013
 FORMER JIFFY LUBE FACILITY
 6808 196TH STREET SOUTHWEST
 Lynnwood, Washington

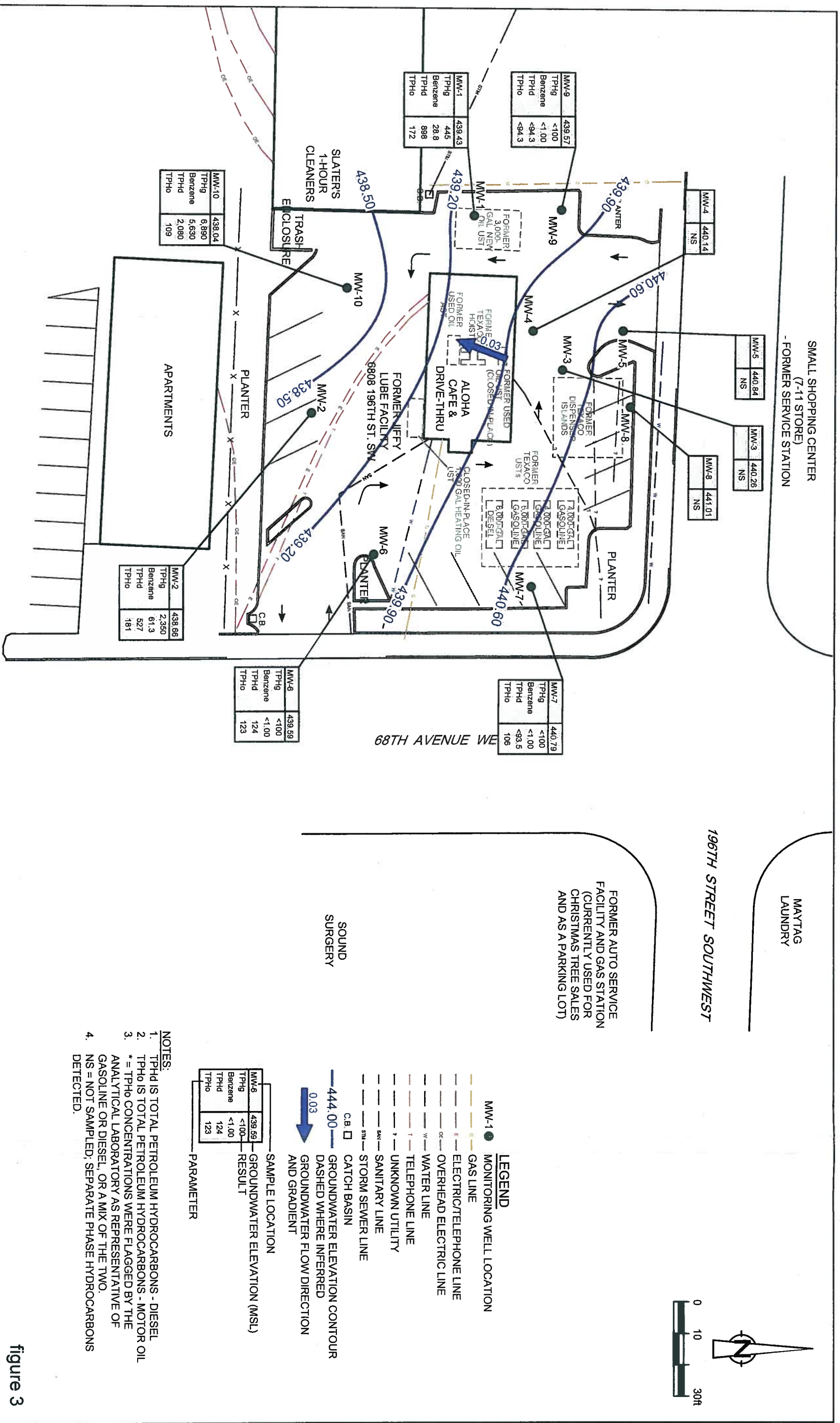
figure 2

- NOTES:
1. TPHd IS TOTAL PETROLEUM HYDROCARBONS - DIESEL
 2. TPHo IS TOTAL PETROLEUM HYDROCARBONS - MOTOR OIL
 3. * = TPHo CONCENTRATIONS WERE FLAGGED BY THE ANALYTICAL LABORATORY AS REPRESENTATIVE OF GASOLINE OR DIESEL, OR A MIX OF THE TWO.
 4. NS = NOT SAMPLED; SEPARATE PHASE HYDROCARBONS DETECTED.
 5. WELL MW-8 WAS NOT USED IN CONTOURING.

PARAMETER	GROUNDWATER ELEVATION (MSL)	RESULT
MW-6	444.18	
TPH	<1.00	
Benzene	97.8	
TPHd	<1.00	
TPHo	<93.5	

- LEGEND
- MW-1 ● MONITORING WELL LOCATION
 - GAS LINE
 - ELECTRIC/TELEPHONE LINE
 - OVERHEAD ELECTRIC LINE
 - WATER LINE
 - TELEPHONE LINE
 - UNKNOWN UTILITY
 - SANITARY LINE
 - STORM SEWER LINE
 - CATCH BASIN
 - GROUNDWATER ELEVATION CONTOUR
 - - - DASHED WHERE INFERRED
 - GROUNDWATER FLOW DIRECTION AND GRADIENT





GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP - OCTOBER 24, 2013

FORMER JIFEY LUBE FACILITY
 6808 196TH STREET SOUTHWEST
 Lynnwood, Washington

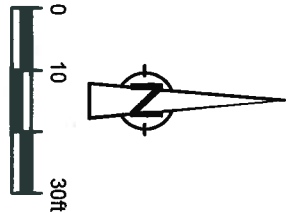
figure 3

- NOTES:
1. TPHd IS TOTAL PETROLEUM HYDROCARBONS - DIESEL.
 2. TPHo IS TOTAL PETROLEUM HYDROCARBONS - MOTOR OIL
 3. * = TPHo CONCENTRATIONS WERE FLAGGED BY THE ANALYTICAL LABORATORY AS REPRESENTATIVE OF GASOLINE OR DIESEL, OR A MIX OF THE TWO.
 4. NS = NOT SAMPLED; SEPARATE PHASE HYDROCARBONS DETECTED.

SAMPLE LOCATION		GROUNDWATER ELEVATION (MSL)	
PARAMETER	RESULT	PARAMETER	RESULT
MW-6	439.59	TPHd	<1.00
		Benzene	124
		TPHd	124
		TPHo	123

LEGEND

- MW-1 ● MONITORING WELL LOCATION
- GAS LINE
- ELECTRIC/TELEPHONE LINE
- OVERHEAD ELECTRIC LINE
- WATER LINE
- TELEPHONE LINE
- UNKNOWN UTILITY
- SANITARY LINE
- STORM SEWER LINE
- CATCH BASIN
- GROUNDWATER ELEVATION CONTOUR
- - - - DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION AND GRADIENT



Tables

TABLE 1
SUMMARY OF GROUNDWATER MONITORING DATA
FORMER JIFFY LUBE FACILITY
6808 196TH STREET SOUTHWEST,
LYNNWOOD, WASHINGTON

Sample ID	Date Model Toxics Control Act Method A Cleanup Levels	TOC	DTW	SPH Thickness	GWE	HYDROCARBONS					PRIMARY VOCs					OXYGENATES					LEAD Total 15 (ug/L)				
						TPHg 800/1000 (ug/L)	TPHD 500 (ug/L)	TPHo 500 (ug/L)	B 5 (ug/L)	T 1000 (ug/L)	E 700 (ug/L)	X 1000 (ug/L)	EDB 0.01 (ug/L)	EDC 5 (ug/L)	MTBE 20 (ug/L)	TBA NE (ug/L)	DIPE NE (ug/L)	ETBE NE (ug/L)	TAME NE (ug/L)						
MW-3	08/26/08	451.69	9.55	0.02	442.16 d																				
MW-3	09/22/08	451.69	10.00	0.03	441.71 d																				
MW-3	01/06/09	451.69	8.47	0.02	443.24 d	NOT SAMPLED - SPH PRESENT																			
MW-3	07/29/10	451.69	9.21	0.03	442.50 d	NOT SAMPLED - SPH PRESENT																			
MW-3	01/20/11	451.69	7.60		444.09 d	87,800 r	7,690 s	12,100	23,200	3,020	19,700														
MW-3	11/07/12	451.69	11.28	0.15	440.53 d	NOT SAMPLED - SPH PRESENT																			
MW-3	04/30/13	451.69	7.16	0.02	444.55	NOT SAMPLED - SPH PRESENT																			
MW-3	10/24/13	451.69	11.63	0.25	440.26	NOT SAMPLED - SPH PRESENT																			
MW-4	12/28/06	452.01	9.41		442.60																				
MW-4	12/29/06	452.01	9.36		442.65	207,000	1,810	32,400	39,700	3,200	18,800														
MW-4	02/15/07	452.01	9.96		442.05	253,000 a, b	72,100 c	31,500 a, b	40,500 a, b	2,990 a, b	18,100 a, b														
MW-4	04/06/07	452.01	10.41	0.04	441.63 d	NOT SAMPLED - SPH PRESENT																			
MW-4	07/09/07	452.01	10.47	0.03	441.56 d																				
MW-4	07/28/07	452.01	10.81	0.04	441.23 d	NOT SAMPLED - SPH PRESENT																			
MW-4	10/01/07	452.01	14.24	0.13	437.87 d	NOT SAMPLED - SPH PRESENT																			
MW-4	11/12/07	452.01	13.83	0.16	438.31 d																				
MW-4	11/20/07	452.01	13.68	0.14	438.44 d																				
MW-4	11/26/07	452.01	13.52	0.11	438.58 d																				
MW-4	12/08/07	452.01	12.87	0.10	439.22 d																				
MW-4	12/14/08	452.01	12.41	0.07	439.66 d																				
MW-4	12/19/07	452.01	12.33	0.05	439.72 d																				
MW-4	12/28/07	452.01	12.24	0.04	439.80 d																				
MW-4	01/10/08	452.01	9.61	0.03	442.42 d	NOT SAMPLED - SPH PRESENT																			
MW-4	01/14/08	452.01	9.23	0.02	442.80 d																				
MW-4	01/21/08	452.01	8.07	0.03	443.96 d																				
MW-4	02/26/08	452.01	9.03	0.03	443.00 d																				
MW-4	07/10/08	452.01	9.71	0.14	442.41 d	NOT SAMPLED - SPH PRESENT																			
MW-4	08/26/08	452.01	10.52	0.24	441.68 d																				
MW-4	09/22/08	452.01	11.01	0.34	441.27 d																				
MW-4	01/06/09	452.01	9.24	0.02	442.79 d	NOT SAMPLED - SPH PRESENT																			
MW-4	07/29/10	452.01	9.81	0.02	442.22 d	NOT SAMPLED - SPH PRESENT																			
MW-4	01/20/11	452.01	8.11		443.90 d	313,000 t	<9,520 m	12,800	28,700	3,180	21,200														
MW-4	11/07/12	452.01	11.98	0.15	440.15 d	NOT SAMPLED - SPH PRESENT																			
MW-4	04/30/13	452.01	7.68	0.03	444.35	NOT SAMPLED - SPH PRESENT																			
MW-4	10/24/13	452.01	12.05	0.22	440.14	NOT SAMPLED - SPH PRESENT																			
MW-5	12/28/06	451.38	8.11		443.27																				
MW-5	12/29/06	451.38	8.17		443.21	122,000	603	7,220	24,400	2,280	13,200														
MW-5	02/15/07	451.38	8.49		442.89	771,000 a, b	49,200 c	12,800 a, b	43,600 a, b	6,000 a, b	40,700 a, b														
MW-5	04/06/07	451.38	9.08	0.03	442.32 d	NOT SAMPLED - SPH PRESENT																			
MW-5	07/09/07	451.38	9.19	0.03	442.21 d																				
MW-5	07/28/07	451.38	9.58	0.04	441.83 d	NOT SAMPLED - SPH PRESENT																			
MW-5	10/01/07	451.38	13.16	0.08	438.28 d	NOT SAMPLED - SPH PRESENT																			
MW-5	11/12/07	451.38	12.74	0.06	438.69 d																				
MW-5	11/20/07	451.38	12.55	0.08	438.89 d																				

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER JIFFY LUBE FACILITY
6808 196TH STREET SOUTHWEST,
LYNNWOOD, WASHINGTON

Sample ID	Date	TOC Model Toxics Control Act Method A Cleanup Levels	DTW Thickness	SPH Thickness Levels	HYDROCARBONS							PRIMARY VOCs					OXYGENATES					LEAD				
					TPHg 800/1000 (ug/L)	TPHd 500 (ug/L)	TPHo 500 (ug/L)	B 5 (ug/L)	T 1000 (ug/L)	E 700 (ug/L)	X 1000 (ug/L)	EDB 0.01 (ug/L)	EDC 5 (ug/L)	MTBE 20 (ug/L)	TBA NE (ug/L)	DtPE NE (ug/L)	ETBE NE (ug/L)	TAME NE (ug/L)	Total 15 (ug/L)							
MW-8	07/28/07	451.31	8.97	---	442.34	8,580 e	<5,210 m	20,500	43,600	3,550	23,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-8	10/01/07	451.31	12.58	---	438.73	6,540 g, i	<1,110 m	18,000	32,000	2,250	14,900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	01/10/08	451.31	8.16	---	443.15	9,190 c	<4,850 m	13,400	29,600	2,200	14,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	07/10/08	451.31	8.14	0.01	443.18 d	NOT SAMPLED - SPH PRESENT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	08/26/08	451.31	8.30	0.02	443.03 d	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	09/22/08	451.31	8.80	0.01	442.52 d	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	01/06/09	451.31	7.90	---	443.41	6,900	440	2,700	6,300	390	4,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	07/29/10	451.31	7.92	---	443.39	5,300 j	2,000 j	18,000	40,000	17,000	110,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	01/20/11	451.31	7.73	---	443.58	6,570 r	1,550 s	13,800	31,500	3,290	21,900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	11/07/12	451.31	10.07	---	441.24	3,160	<94.3	7,630	15,200	1,140	6,120	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	04/30/13	451.31	7.56	---	443.75	3,820	309	8,830	29,400	1,950	11,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	10/24/13	451.31	10.44	0.17	441.01	NOT SAMPLED - SPH PRESENT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/09/07	451.75	10.83	---	440.92	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/28/07	451.75	11.02	---	440.73	<50.0	<495	<0.500	<0.500	<0.500	<1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	10/01/07	451.75	14.07	---	437.68	299	<111	5.52	<1.00	<1.00	<3.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	01/10/08	451.75	9.76	---	441.99	<50.0	<238	<0.500	<0.500	<0.500	<3.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/10/08	451.75	9.71	---	442.04	<50	<1,000 m	<1	<1	<1	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	01/06/09	451.75	9.35	---	442.40	<100	<100	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/13/09	451.75	9.94	---	441.81	---	---	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/29/10	451.75	9.80	---	441.95	---	<100	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	01/20/11	451.75	8.81	---	442.94	---	463 s	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	11/07/12	451.75	12.41	---	439.34	<100	<94.3	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	04/30/13	451.75	6.82	---	444.93	<100	<93.5	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	10/24/13	451.75	12.18	---	439.57	<100	<94.3	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	07/09/07	451.43	12.44	---	438.99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	07/28/07	451.43	12.77	---	438.66	6,570	<505 m	299	179	237	615	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	10/01/07	451.43	14.87	---	436.56	27,100	<556 m	1,510	1,220	1,210	2,650	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	01/10/08	451.43	10.52	---	440.91	11,400	<495	316	237	842	604	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	07/10/08	451.43	11.69	---	439.74	1,400	<1,000 m	1,400	1,200	710	2,310	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	01/06/09	451.43	10.11	---	441.32	29,000	<100	4,800	1,400	1,800	5,100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-10 *	07/13/09	451.43	12.31	---	439.12	4,800	<100	1,600	260	190	1,000	<0.010	<1.5	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	07/29/10	451.43	11.86	---	439.57	---	<100	240	9.9	45	89	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	01/20/11	451.43	8.12	---	443.31	---	394 q	988	16.6	108	115	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	11/07/12	451.43	12.13	---	439.30	17,300	<94.3	5,920	78.3	594	1,060	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	04/30/13	451.43	8.87	---	442.56	590	148	48.1	1.22	15.1	21.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	10/24/13	451.43	13.39	---	438.04	6,890	109	5,630	188	582	1,230	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-3 n	05/10/10	---	---	0.00	---	360	<100	170	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-4 n	05/10/10	---	---	0.00	---	180	<100	<0.5	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

DTW = Depth to Water in feet

Sample ID	Date	TOC	DTW	Thickness	HYDROCARBONS					PRIMARY VOCs					OXYGENATES			LEAD	
					GWE	TPHg	TPHD	TPHo	B	T	E	X	EDB	EDC	MTBE	TBA	DIPE		ETBE
Model Toxics Control Act Method A Cleanup Levels					800/1000 (ug/l)	500 (ug/l)	500 (ug/l)	5 (ug/l)	1000 (ug/l)	700 (ug/l)	1000 (ug/l)	0.01 (ug/l)	5 (ug/l)	20 (ug/l)	NE (ug/l)	NE (ug/l)	NE (ug/l)	NE (ug/l)	15 (ug/l)

GWE = Groundwater Elevation in feet above mean sea level
TOC = Top of Casing in feet above mean sea level
SPH = Separate Phase Hydrocarbons
MTCA = Model Toxics Control Act
All results in micrograms per liter (ug/L) unless otherwise indicated.
TPHg = Total petroleum hydrocarbons as gasoline analyzed by NWTPH-GX unless otherwise noted. The higher value is based on the assumption that no benzene is present in the groundwater sample. If any detectable amount of benzene is present in the groundwater sample, then the lower TPHg cleanup level is applicable.
TPHD = Total petroleum hydrocarbons as diesel, analyzed by NWTPH-DX with silica gel cleanup unless otherwise noted.
TPHo = Total petroleum hydrocarbons as oil, analyzed by NWTPH-DX with silica gel cleanup unless otherwise noted.
VOCs = Volatile organic compounds
BTEX = Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B unless otherwise noted.
Xylenes = o-xylene + m,p-xylene
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B
EDB = 1,2-Dibromoethane analyzed by EPA Method 8011
EDC = 1,2-Dichloroethane analyzed by EPA Method 8260B
TBA = Tertiary-butanol analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME = Tertiary-amyyl methyl ether analyzed by EPA Method 8260B
Total Lead analyzed by EPA Method 6020 unless otherwise noted.
<x = Not detected at laboratory reporting limit x
NE = Not established
--- = Not analyzed

Concentrations in bold type indicate the analyte was detected above MTCA Method A cleanup levels

- a = Due to multiple re-shots required for re-analysis, the aliquot of sample analyzed on the instrument was taken from a VOA vial containing headspace.
 - b = Sample container contained headspace
 - c = Results reported in the diesel organics range are primarily due to overlap from a gasoline-range product.
 - d = Groundwater elevation formula adjusted for the presence of SPH: (TOC - DTW)÷ (SPHT*0.80)
 - e = Hydrocarbon pattern most closely resembles a blend of gasoline and diesel.
 - f = The primary contamination elutes between C8 and C28, which is in the diesel range.
 - g = The contamination did not match any standard in our library.
 - h = The primary contamination elutes between C8 and C14, which is in the mineral spirits range.
 - i = The primary contamination elutes between C8 and C16, which is in the kerosene range.
 - j = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard.
 - m = The laboratory reporting limit exceeded the MTCA Method A cleanup level.
 - n = Grab groundwater sample taken from temporary well. Sample ID is abbreviated from GW-241739-051010-HB-[Unique ID].
 - p = The hydrocarbon pattern most closely resembles a gasoline & diesel product.
 - q = The hydrocarbon pattern most closely resembles a diesel product.
 - r = The hydrocarbon pattern most closely resembles a gasoline product.
 - s = The contamination did not match any standards in the laboratory's library.
 - t = The hydrocarbon pattern most closely resembles a gasoline & mineral spirits product.
 - u = There was insufficient contamination present to perform a pattern match.
- * = Sample also analyzed for one or more of the following: carcinogenic polycyclic aromatic hydrocarbons (PCHA) by EPA Method 8270C-SIM, polychlorinated biphenyls (PCBs) by EPA Method 8082, and halogenated volatile organic compounds (HVOCs) by EPA Method 8260B. For those constituents analyzed, no concentrations exceeded the laboratory MDL. Please see applicable laboratory report(s) for more information.

Appendix A

Field Forms

WELL GAUGING DATA

Project # 130430 - LBI Date 4/30/13 Client CRA

Site 6806 166TH ST SW, LYNNWOOD, WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOE	Notes
MW-1	0644	2					7.52	24.72		
MW-2	0638	2					7.21	17.15		
MW-3	0708	2	ODOR	7.14	0.02		7.16	—		
MW-4	0702	2	ODOR	7.65	0.03		7.68	—		
MW-5	0657	2	ODOR	6.23	0.15		6.38	—		
MW-6	0624	2					5.22	19.37		
MW-7	0635	2					5.21	19.37		
MW-8	0653	2	ODOR				7.66	18.62		
MW-9	0630	2					6.82	19.86		
MW-10	0649	2					8.87	20.04	↓	

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>130430-LB1</u>	Client: <u>CRA</u>
Sampler: <u>LB</u>	Gauging Date: <u>4/30/13</u>
Well I.D.: <u>MW-1</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>24.72</u>	Depth to Water (ft.): <u>7.52</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PX0</u> Grade	Flow Cell Type: <u>YSL 536</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0947 Flow Rate: 100 mL / MIN Pump Depth: 10'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to Water (ft.)
0953	12.21	7.00	564	11	1.09	10.3	600	7.61
0956	12.18	7.02	569	10	1.03	3.0	900	7.63
0959	12.16	7.02	569	10	1.02	-1.3	1200	7.65
1002	12.17	7.01	570	9	1.01	-3.4	1500	7.68
1005	12.18	7.01	570	8	1.00	-4.0	1800	7.71

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1006</u>	Sampling Date: <u>4/30/13</u>
Sample I.D.: <u>GW-241739-043013-LB-MW-1</u>	Laboratory: <u>TA</u>
Analyzed for: <u>PH</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u>	Other: <u>TPH-G</u>
Equipment Blank I.D.: @ _____ Time _____	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 130430-LB1	Client: CFA
Sampler: LB	Gauging Date: 4/30/13
Well I.D.: MW-2	Well Diameter (in.): \varnothing 3 4 6 8 _____
Total Well Depth (ft.): 17.15	Depth to Water (ft.): 7.21
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> PVC Grade	Flow Cell Type: YSE 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0911 Flow Rate: 100 mL/MIN Pump Depth: 10'

Time	Temp. (C or F)	pH	Cond. (mS/cm or μ S/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0917	11.77	6.65	535	15	1.99	73.1	600	7.29
0920	11.76	6.67	537	14	1.65	67.2	900	7.31
0923	11.76	6.66	537	11	1.84	62.8	1200	7.33
0926	11.78	6.65	538	10	1.83	61.7	1500	7.35
0929	11.79	6.64	540	10	1.82	60.2	1800	7.38

Did well dewater? Yes <input checked="" type="checkbox"/> No	Amount actually evacuated: 1.8L
Sampling Time: 0930	Sampling Date: 4/30/13
Sample I.D.: GW-241739-043013-LB-MW-2	Laboratory: TA
Analyzed for: <input checked="" type="checkbox"/> TPH <input checked="" type="checkbox"/> BTEX MTBE <input checked="" type="checkbox"/> TPHD	Other <input checked="" type="checkbox"/> TPH-O
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 130430-LB1	Client: CRD
Sampler: LB	Gauging Date: 4/30/13
Well I.D.: MW-3	Well Diameter (in.): <input checked="" type="radio"/> 2 3 4 6 8 ___
Total Well Depth (ft.): ___	Depth to Water (ft.): 7.16
Depth to Free Product: 7.14	Thickness of Free Product (feet): 0.02
Referenced to: PVC Grade	Flow Cell Type: _____

Purge Method: 2" Grundfos Pump	Peristaltic Pump	Bladder Pump
Sampling Method: Dedicated Tubing	New Tubing	Other _____
Start Purge Time: _____	Flow Rate: _____	Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
_____			0.02' OF SPH DETECTED	w/ PROBE		INTERFACE		
_____			No SAMPLE TAKEN					

Did well dewater? Yes No	Amount actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	Laboratory:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.:	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 130430-LB1	Client: CRA
Sampler: LB	Gauging Date: 4/30/13
Well I.D.: MW-4	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.):	Depth to Water (ft.): 7.68
Depth to Free Product: 7.65	Thickness of Free Product (feet): 0.03
Referenced to: PVC Grade	Flow Cell Type:

Purge Method: 2" Grundfos Pump	Peristaltic Pump	Bladder Pump
Sampling Method: Dedicated Tubing	New Tubing	Other
Start Purge Time:	Flow Rate:	Pump Depth:

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
—	—	0.03'	at	SPH	DETECTED	X/	INTERFACE	
				PROBE				
—	—		Nb	SAMPLE TAKEN	—		—	

Did well dewater? Yes No	Amount actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	Laboratory:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.:	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 130430-LB1	Client: CEA
Sampler: LB	Gauging Date: 4/30/03
Well I.D.: MW-5	Well Diameter (in.): ② 3 4 6 8
Total Well Depth (ft.):	Depth to Water (ft.): 6.38
Depth to Free Product: 6.23	Thickness of Free Product (feet): 0.15
Referenced to: PVC Grade	Flow Cell Type:

Purge Method: ~~2" Grundfos Pump~~ Peristaltic Pump Bladder Pump
 Sampling Method: ~~Dedicated Tubing~~ New Tubing Other
 Start Purge Time: Flow Rate: Pump Depth:

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
_____		0.	15' OF	SPH DETECTED		XI/	INTERFERENCE	
				PROBE				
_____		No	SAMPLE	TAKEN				

Did well dewater? Yes No Amount actually evacuated: _____

Sampling Time: _____ Sampling Date: _____

Sample I.D.: _____ Laboratory: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 130430-LB	Client: CRA
Sampler: LB	Gauging Date: 4/30/13
Well I.D.: MW-6	Well Diameter (in.): \varnothing 3 4 6 8
Total Well Depth (ft.): 19.37	Depth to Water (ft.): 5.22
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 536</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0720 Flow Rate: 100 mL/MIN Pump Depth: 8'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μ S/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0720	11.74	6.60	336	6	2.01	91.6	600	5.30
0729	11.64	6.55	349	8	1.74	93.6	700	5.33
0732	11.63	6.52	352	8	1.73	82.4	1200	5.36
0735	11.64	6.53	353	7	1.72	81.3	1500	5.38
0736	11.85	6.54	354	6	1.71	80.6	1800	5.39

Did well dewater? Yes <input checked="" type="checkbox"/>	Amount actually evacuated: 1.8L
Sampling Time: 0739	Sampling Date: 4/30/13
Sample I.D.: GW-241739-043013-LB-MW-6	Laboratory: TA
Analyzed for: <input checked="" type="checkbox"/> TPH-G <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH-D	Other: <input checked="" type="checkbox"/> TPH-O
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 130430-LB1	Client: CPA
Sampler: LB	Gauging Date: 4/30/13
Well I.D.: MW-7	Well Diameter (in.): \varnothing 3 4 6 8 _____
Total Well Depth (ft.): 10.37	Depth to Water (ft.): 5.21
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: RVC Grade	Flow Cell Type: YSE 536

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0833 Flow Rate: 100 mL/MIN Pump Depth: 8'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0839	11.31	6.67	409	16	2.09	82.2	600	5.27
0842	11.33	6.70	411	15	1.99	80.0	900	5.29
0845	11.28	6.71	414	14	1.95	77.7	1200	5.32
0848	11.27	6.72	416	13	1.94	76.8	1500	5.34
0851	11.26	6.74	418	12	1.93	75.4	1800	5.37

Did well dewater? Yes NO	Amount actually evacuated: 1.8L
Sampling Time: 0852	Sampling Date: 4/30/13
Sample I.D.: GW-241739-043013-LB-MW-7	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE PH-D	Other: SEE COL
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 130430-LB1	Client: CLP
Sampler: LB	Gauging Date: 4/30/13
Well I.D.: MW-8	Well Diameter (in.): \varnothing 3 4 6 8 _____
Total Well Depth (ft.): 18.62	Depth to Water (ft.): 7.56
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PXQ Grade	Flow Cell Type: YSC 536

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1058 Flow Rate: 100 mL/MIN Pump Depth: 10.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μ S/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1104	11.72	6.80	540	18	1.40	4.1	600	7.61
1107	11.74	6.82	542	17	1.25	-1.3	900	7.63
1110	11.73	6.84	544	15	1.24	-6.7	1200	7.65
1113	11.72	6.85	545	14	1.23	-7.9	1500	7.68
1116	11.71	6.86	546	15	1.22	-8.6	1800	7.69

Did well dewater? Yes ~~NO~~ Amount actually evacuated: 1.8L

Sampling Time: 1117 Sampling Date: 4/30/13

Sample I.D.: GW-241739-0430B-LB-MW-8 Laboratory: TA

Analyzed for: ~~TPH-G~~ ~~BTEX~~ ~~MTBE~~ ~~TPH-D~~ Other: ~~TPH-O~~

Equipment Blank I.D.: @ Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 130430-LB1	Client: CRA
Sampler: LB	Gauging Date: 4/30/13
Well I.D.: MW-9	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 19.86	Depth to Water (ft.): 6.82
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSE 536

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0756 Flow Rate: 100 mL / MIN Pump Depth: 9.5'

Time	Temp. (C or F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0804	12.03	6.52	201	11	2.31	98.1	600	6.89
0807	12.02	6.46	199	11	2.30	96.8	900	6.91
0810	12.04	6.42	198	10	2.24	91.7	1200	6.94
0813	12.05	6.41	198	10	2.23	90.0	1500	6.96
0816	12.06	6.40	199	10	2.22	89.4	1800	6.98

Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 1.8L
Sampling Time: 0817	Sampling Date: 4/30/13
Sample I.D.: GW-241739-043013-LB-MW-9	Laboratory: TA
Analyzed for: TPHG BTEX MTBE TPHD	Other: TPH-G
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 130430-LB1	Client: CPA
Sampler: LB	Gauging Date: 4/30/13
Well I.D.: MW-10	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 20.04	Depth to Water (ft.): 8.87
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PYG Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1023 Flow Rate: 100 mL/MIN Pump Depth: 11.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ML)	Depth to Water (ft.)
1029	12.29	6.69	523	10	1.51	234	600	8.91
1032	12.27	6.68	523	10	1.48	22.0	900	8.94
1035	12.28	6.67	525	9	1.44	20.5	1200	8.97
1038	12.27	6.65	527	9	1.43	19.1	1500	8.99
1041	12.26	6.64	528	10	1.42	18.4	1800	9.01

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 1.8L
Sampling Time: 1042	Sampling Date: 4/30/13
Sample I.D.: GW-241739-042013-LB-MW-10	Laboratory: TA
Analyzed for: TPH BTEX MTBE TPH	Other: TPH-C
Equipment Blank I.D.: @	Duplicate I.D.:

LAB (LOCATION)

- CASCIENCE ()
- SPL Houston ()
- MEXCO ()
- TEST AMERICA ()
- OTHER ()
- ENV. SERVICES
- POTIVA RETAIL
- CONSULTANT
- SHELL PIPELINE
- SHELL RETAIL
- LUBES



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box

POTIVA RETAIL

CONSULTANT

OTHER

SHIPMENT TYPE

INCIDENT # (ENV. SERVICES)

9 7 6 0 5 4 1 0

DATE: 4/30/13

PAGE: 1 of 1

CHECK IF NO INCIDENT APPLIES

SHIPPER COMPANY: Blaine Tech Services

ADDRESS: 20735 Belshaw Avenue, Carson, CA 90746

PROJECT CONTACT (Name, Title, Phone, Email): Loris King (310) 885-4455 x 108 lking@blaintech.com

SHIPMENT TYPE: REGULATORY

CUSTOMER PROJECT NO: 130430-LB1

LABORATORY: Shell-US-LabDataManagement@CRAworld.com

SHIP TO: Shell-US-LabDataManagement@CRAworld.com

SHIP FROM: Lee Burek

SHIP TO STATE: WA

SHIP TO COUNTY: NA

SHIP TO CITY: Lynnwood

SHIP TO ADDRESS: 8808 196th St. SW, Lynnwood, WA 98048

SHIP TO PHONE: 425-683-6600

SHIP TO ZIP: 98048

- RESULTS NEEDED ON WEEKEND
- 24 HOURS
- 2 DAYS
- 5 DAYS
- 7 DAYS
- 14 DAYS
- LAB AGENCY:
- LA - RWOCB REPORT FORMAT
- USE AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

1) Please upload the "CRA EOUS 4-file EDD" to the CRA Website (http://crataceupload.craeworld.com/equid/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.

Copy final report to Shell.Lab.Billing@craeworld.com, Shell.results@craeworld.com, and Shell-US-LabDataManagement@CRAworld.com

Email invoice to Shell.Lab.Billing@craeworld.com

See Laboratory PM for WA Dept. of Ecology METCA Method A cleanup levels for minimum detection limits.

WELL ID	PROJECT NUMBER	DATE (MM/DD/YY)	WELL ID	SAMPLER INITIALS	TIME	PRESERVATIVE				NO. OF CONT.
						WCL	HWCL	H2SO4	NONE	
GW-241739	241739	042013	MW-1	LB	1006	X				8
GW-241729	241729	042013	MW-2	LB	0950	X				8
GW-241729	241729	042013	MW-6	LB	0739	X				8
GW-241729	241729	042013	MW-7	LB	0852	X				8
GW-241729	241729	042013	MW-8	LB	1117	X				8
GW-241729	241729	042013	MW-9	LB	0817	X				8
GW-241729	241729	043013	MW-10	LB	1042	X				0

Container PFD Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS														
SW/TPH-CX	NW/TPH-CX	BTEX (2850B)	5 Oxygenates, MTBE, TBA, DPE, TAME, ETBE (2850B)	EDC (2650B)	EDC (2611)	Total Lead (5020)	PCBs (2082)	PAHs (2070 Sum)	VOCs Full list (2550B)	Post (2080)	NW/TPH-VPH	NW/TPH-EPPH	MTBE (2550B)	TPH-O
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Signature: SHEPHERD VIA FEDEX

Date: 4/30/13

Date:

Date:

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 97605410
 DATE: 4/30/13

ADDRESS G808 196TH ST SW
 CITY & STATE LYNNWOOD, WA

WELL ID	Well Cap / Cover Type Condition & Size		Observations Upon Arrival				Well Lock Condition		Well/Side Sealing Condition		Notes, Remarks, Meter (Provide) Explanation of Information Recommended and Permitted	Probes of Well Condition	Repair Date and PIH Initials
	Size (inch)	Condition	Well Labeled / Painted Property	Well Labeled / Painted Property	Well Cap (Grip) Condition	Well Lock Condition	Well/Side Sealing Condition	Well/Side Sealing Condition	Well/Side Sealing Condition				
MW-1	Standpipe	Flush	8	P	N	G	R	NL	G	P		Y	N
MW-2	Standpipe	Flush	8	P	N	G	R	NL	G	P		Y	N
MW-3	Standpipe	Flush	8	P	N	G	R	NL	G	P		Y	N
MW-4	Standpipe	Flush	8	P	N	G	R	NL	G	P		Y	N
MW-5	Standpipe	Flush	8	P	N	G	R	NL	G	P		Y	N
MW-6	Standpipe	Flush	8	P	N	G	R	NL	G	P		Y	N
MW-7	Standpipe	Flush	8	P	N	G	R	NL	G	P		Y	N
MW-8	Standpipe	Flush	8	P	N	G	R	NL	G	P		Y	N
MW-9	Standpipe	Flush	8	P	N	G	R	NL	G	P		Y	N
MW-10	Standpipe	Flush	8	P	N	G	R	NL	G	P		Y	N
TOTAL # OF LOCKS REPLACED = 0													
TOTAL # CAPS REPLACED = 0													
Contactor or Site Owner Personnel (Approved Individuals) (N/A)													
Remediation Compound Type (Check boxes that apply)													
NA													
Building													
Building w/ Fence Comp.													
Fenced Compound													
Trailer													
Does the Label Reveal the Source of the Contaminant?													
Y													
Does the Label Reveal the Labeled Compound and Volume?													
N/A													
Compound Safety													
G													
Calculation of Area Inside Embayment													
G													
Emergency Contact Info Visible													
G													
Cleaning / Repair Responsibility and Contractor													
Detailed Explanation of Any Issues Resolved													
Does Drinking Water Use this Well for Potability?													
Y													

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

LEE BAYES / BJS

Print or type Name of Field Personnel & Consultant Company

G = Good (Acceptable) R = Replaced
 P = Poor (needs attention) NL = No Lock Required
 Note: All repairs other than locks and grippers require Shell PM approval prior to repair.
 * = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.
 Version 2.4, March 2008


SHELL BILL OF LADING

SOURCE RECORD BILL OF LADING
 FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT SHELL FACILITIES IN THE STATE OF WASHINGTON OR OREGON. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS, IS MADE UP INTO LOADS OF APPROPRIATE SIZE TO BE TRANSPORTED & PROCESSED BY A SHELL APPROVED WASTE HAULER.

The contractor performing this work is BLAINE TECH SERVICES, INC. 22727 72nd Ave South, Suite D - 102, Kent, WA 98032. Blaine Tech Services, Inc. is authorized by SHELL OIL COMPANY (SHELL) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the SHELL facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Shell facility to BTS; from one Shell facility to BTS via another Shell facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of SHELL.

This Source Record **BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the SHELL facility described below:

INCIDENT # 976094/6 Perry Pineda
 Shell Engineer
6808 196th St SW Lynnwood WA
 street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	0.5		
MW-2	0.5		
MW-6	0.5		
MW-7	0.5		
MW-8	0.5		
MW-9	0.5		
MW-10	0.5		
added equip.		any other	
rinse water	10	adjustments	
TOTAL GALS. RECOVERED	13.5	loaded onto	86
BTS event #	(SMB0-LB)	time	1:50
signature		date	4/30/88

RECEIVED AT		time	
BTS Kent		date	
unloaded by		signature	

Job Clearance Form

Station # 07605410	Station Address 6808 160TH ST SW LYNNWOOD WA	Work Order Number: 1804130-LB1	Date: 4/30/13
Customer Name BLANIE TECH SERVICES	Customer Address LEE BUES	Start Time: 0620	End Time: 1130
Problem/Work Description: SAMPLE, PURGE + SAMPLE TO GRAINWATER WRTLS			
<input checked="" type="checkbox"/> SAFETY VEST <input checked="" type="checkbox"/> PROTECTIVE CLOTHING <input checked="" type="checkbox"/> HARD HAT <input checked="" type="checkbox"/> GLOVES <input checked="" type="checkbox"/> SHOES & BOOTS <input checked="" type="checkbox"/> SAFETY GLASSES/GOOGLES		<input type="checkbox"/> RESPIRATOR <input type="checkbox"/> OTHER	
Return Call: <input type="checkbox"/> yes / <input type="checkbox"/> no		Damage Claim: <input type="checkbox"/> yes / <input type="checkbox"/> no	
SAMPLE	N/A	N/A	N/A
PURGE	N/A	N/A	N/A
SAMPLE	N/A	N/A	N/A
Work description in plain words: Lowest Risk - no JSA required Work in progress in all cases on top JSA - on closed shell no JSA present Examples of Hazards/Incident Data: <input type="checkbox"/> Working in confined spaces (e.g. tank, manhole or deep manhole entry) <input type="checkbox"/> Network with risk of contact or over-rotation <input type="checkbox"/> LPG system depending on hazards identified			
Work description in plain words: Lowest Risk - no JSA required Work in progress in all cases on top JSA - on closed shell no JSA present Examples of Hazards/Incident Data: <input type="checkbox"/> Working in confined spaces (e.g. tank, manhole or deep manhole entry) <input type="checkbox"/> Network with risk of contact or over-rotation <input type="checkbox"/> LPG system depending on hazards identified		Work description in plain words: Lowest Risk - JSA required & appropriate check list completed (see below) Work in confined spaces (e.g. tank, manhole or deep manhole entry) Network with risk of contact or over-rotation LPG system depending on hazards identified	
SIGN IN Operating status to be signed by the Representative Non-operating status to be signed by Contractor Representative only GENERAL SAFETY CHECKS Have all the personnel been informed? Has Luf delivery services been informed? Is a Luf delivery due? Have incident procedures been agreed - just sitting on it? Are work areas combined off to protect workers, the staff & public? Other:		SIGN OUT Operating status to be signed by the Representative Non-operating status to be signed by Contractor Representative only GENERAL SAFETY CHECKS Have all the personnel been left by and safe? Are all personal items of status of work including remaining lock out? Are changes to equipment documented and communicated? All incidents, near incidents, work & situations reported? Other:	
SIGN IN Operating status to be signed by the Representative Non-operating status to be signed by Contractor Representative only GENERAL SAFETY CHECKS Have all the personnel been informed? Has Luf delivery services been informed? Is a Luf delivery due? Have incident procedures been agreed - just sitting on it? Are work areas combined off to protect workers, the staff & public? Other:		SIGN OUT Operating status to be signed by the Representative Non-operating status to be signed by Contractor Representative only GENERAL SAFETY CHECKS Have all the personnel been left by and safe? Are all personal items of status of work including remaining lock out? Are changes to equipment documented and communicated? All incidents, near incidents, work & situations reported? Other:	

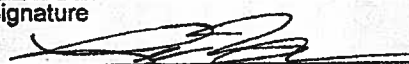
The contractor through its activities representative shall sign, issue and be solely responsible for all job clearance forms and its obligations ending here under applicable to the work. This form covers hazard identification and is not intended to release the contractor from safety performing the work in compliance with all applicable laws and regulations. The Site Representative may require the contractor to stop work if it appears that the contractor or any of its workers are failing to comply with the requirements of this form or other applicable safety requirements.

Site Address: 6808 146TH ST SW, LYNNWOOD, WA Date: 4/30/13

Check-In with site representative completed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	
Is fuel delivery scheduled for today?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Emergency pump cut-off switch located?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	
First aid kit located and confirmed ready-to-use?	<input checked="" type="checkbox"/> Yes	
Fire extinguisher located and confirmed ready-to-use?	<input checked="" type="checkbox"/> Yes	
Eye wash located and confirmed ready-to-use?	<input checked="" type="checkbox"/> Yes	
HASP	Emergency Services information located & reviewed?	<input checked="" type="checkbox"/> Yes
	Hospital map & route located and reviewed?	<input checked="" type="checkbox"/> Yes
	Special Hazard Notice section reviewed?	<input checked="" type="checkbox"/> Yes
	Site Status confirmed or amended, dated and initialed?	<input checked="" type="checkbox"/> Yes
	Emergency Response procedures reviewed with all work crew members?	<input checked="" type="checkbox"/> Yes
	Compliance Roster signed by all work crew members?	<input checked="" type="checkbox"/> Yes
Site walk has been performed to locate wells and identify additional hazards?	<input checked="" type="checkbox"/> Yes	
Job Safety Analysis (JSA) for each task located & reviewed by all work crew members?	<input checked="" type="checkbox"/> Yes	
Work Area Plans reviewed for suitability and effectiveness given current site conditions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	
Traffic Control Plans reviewed for suitability given current road, traffic & weather conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	

- In the space below, note unaddressed hazards and conditions that might compromise compliance with Approved Procedures and/or JSA's or impede the safe and proper execution of the Work Plan, Work Area Plan(s) and/or Traffic Control Plan(s).
- Report unaddressed hazards and adverse conditions to the Project Manager during Pre-Start Call-In and as hazards are identified or conditions change throughout the workday.
- DO NOT COMMENCE OR RESTART WORK until PM has been notified and mitigation measures approved.

Time	Hazard or Adverse Condition	PM Initials	Hazard Control Measure

Site representative briefed on planned work activities and Work Area Plans?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
Job Clearance Form completed?	<input checked="" type="checkbox"/> Yes
Pre-Start Call-In completed and approval to start work received from Project Manager?	<input checked="" type="checkbox"/> Yes
Printed Name <u>LEE BURG</u>	Signature 
	Time <u>0620</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>131024-LB</u>	Client: <u>CRA</u>
Sampler: <u>LB</u>	Gauging Date: <u>10/24/13</u>
Well I.D.: <u>MW-2</u>	Well Diameter (in.): <u>2</u> 3 4 6 8 <u> </u>
Total Well Depth (ft.): <u>17.29</u>	Depth to Water (ft.): <u>11.93</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PTO</u> Grade	Flow Cell Type: <u>VSI 536</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1049 Flow Rate: 100 ML / MIN Pump Depth: 145'

Time	Temp. (Cor °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to Water (ft.)
1055	14.95	6.15	629	15	1.54	74.9	600	11.98
1058	15.19	6.20	636	11	1.45	72.3	900	12.01
1101	15.17	6.19	639	10	1.44	70.8	1200	12.03
1104	15.16	6.18	638	9	1.43	69.2	1500	12.04
1107	15.15	6.17	637	8	1.42	68.7	1800	12.05

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>1.6L</u>
Sampling Time: <u>1108</u>	Sampling Date: <u>10/24/13</u>
Sample I.D.: <u>GW-241789-102413-LB-MW-2</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TRIG</u> <u>BTEX</u> <u>MTBE</u> <u>TPH</u>	Other: <u>SEE CCL</u>
Equipment Blank I.D.: <u> </u> @ <u> </u> Time	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>131024-LB</u>	Client: <u>CRA</u>
Sampler: <u>LB</u>	Gauging Date: <u>10/24/13</u>
Well I.D.: <u>MW-3</u>	Well Diameter (in.): <u>3</u> 4 6 8
Total Well Depth (ft.): <u> </u>	Depth to Water (ft.): <u>11.63</u>
Depth to Free Product: <u>11.38</u>	Thickness of Free Product (feet): <u>0.25</u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u> </u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: Flow Rate: Pump Depth:

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
<u> </u>			<u>0.25'</u>	<u>SPH</u>	<u>DETECTED</u>		<u>w/</u>	
				<u>INTERFACE</u>	<u>PROBE</u>		<u> </u>	
<u> </u>			<u>No</u>	<u>SAMPLE</u>	<u>TAKEN</u>		<u> </u>	

Did well dewater? Yes <u> </u> No <u> </u>	Amount actually evacuated: <u> </u>
Sampling Time: <u> </u>	Sampling Date: <u> </u>
Sample I.D.: <u> </u>	Laboratory: <u> </u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u> Other: <u> </u>	
Equipment Blank I.D.: <u> </u> @ <u> </u> Time	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>B1024-LB1</u>	Client: <u>CRA</u>
Sampler: <u>LB</u>	Gauging Date: <u>10/24/13</u>
Well I.D.: <u>MW-4</u>	Well Diameter (in.): <u>Ø</u> 3 4 6 8 _____
Total Well Depth (ft.): _____	Depth to Water (ft.): <u>12.05</u>
Depth to Free Product: <u>11.83</u>	Thickness of Free Product (feet): <u>0.22</u>
Referenced to: <u>PVO</u> Grade	Flow Cell Type: _____

Purge Method: <u>2" Grundfos Pump</u>	Peristaltic Pump	Bladder Pump
Sampling Method: <u>Dedicated Tubing</u>	New Tubing	Other
Start Purge Time: _____	Flow Rate: _____	Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)

		<u>0.22</u>	<u>OF</u>	<u>SPH</u>	<u>DETECTED</u>	<u>w/</u>		
				<u>INTERFACE</u>	<u>PROBE</u>			
		<u>No</u>	<u>SAMPLE</u>	<u>TAKEN</u>				

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: _____
Sampling Time: _____	Sampling Date: _____
Sample I.D.: _____	Laboratory: _____
Analyzed for: <u>TPH-G BTEX MTBE TPH-D</u>	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>131024-LB1</u>	Client: <u>CRA</u>
Sampler: <u>LB</u>	Gauging Date: <u>10/24/13</u>
Well I.D.: <u>MW-5</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>—</u>	Depth to Water (ft.): <u>10.83</u>
Depth to Free Product: <u>10.47</u>	Thickness of Free Product (feet): <u>0.36</u>
Referenced to: <u>PVG</u> Grade	Flow Cell Type: _____

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ ~~Bladder Pump~~
 Sampling Method: Dedicated Tubing ~~New Tubing~~ ~~Other~~ _____
 Start Purge Time: _____ Flow Rate: _____ Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
—			<u>0.36' OF</u>	<u>SPH</u>	<u>DETECTED</u>		<u>w/</u>	
				<u>INTERFACE</u>	<u>PROBE</u>		<u>—</u>	
<u>— No SAMPLE TAKEN —</u>								

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: _____
Sampling Time: _____	Sampling Date: _____
Sample I.D.: _____	Laboratory: _____
Analyzed for: <u>TPH-G BTEX MTBE TPH-D</u> Other: _____	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 131024-LB1	Client: CRA
Sampler: LB	Gauging Date: 10/24/13
Well I.D.: MW-6	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 19.31	Depth to Water (ft.): 9.81
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PYC Grade	Flow Cell Type: YSL 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0838 Flow Rate: 100 mL / MIN Pump Depth: 12.5'

Time	Temp. (Cor °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0844	16.13	6.55	544	18	1.79	1150	600	9.88
0847	16.13	6.55	550	11	1.70	110.8	900	9.91
0850	16.15	6.54	551	10	1.69	119.5	1200	9.93
0853	16.16	6.53	552	9	1.68	118.4	1500	9.94
0856	16.15	6.52	553	8	1.67	117.7	1800	9.95

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 1.8L
Sampling Time: 0857	Sampling Date: 10/24/13
Sample I.D.: GW-241739-102413-LB-MW-6	Laboratory: TA
Analyzed for: TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH-D <input checked="" type="checkbox"/>	Other: SEE COC
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 131024-LB	Client: CRA
Sampler: LB	Gauging Date: 10/24/13
Well I.D.: MW-7	Well Diameter (in.): \varnothing 3 4 6 8
Total Well Depth (ft.): 19.40	Depth to Water (ft.): 9.35
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVO Grade	Flow Cell Type: YSE 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1004 Flow Rate: 100 mL / MIN Pump Depth: 12'

Time	Temp. (Cor °F)	pH	Cond. (mS/cm or μ S/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1010	15.09	6.97	358	13	1.92	137.5	600	9.41
1013	15.12	6.93	362	10	1.89	132.4	900	9.42
1016	15.12	6.90	363	9	1.87	130.8	1200	9.43
1019	15.13	6.89	364	8	1.86	129.2	1500	9.44
1022	15.14	6.88	366	7	1.85	128.6	1800	9.44

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 1.8L
Sampling Time: 1022	Sampling Date: 10/24/13
Sample I.D.: 6N-241739-102413-LB-MW-7	Laboratory: TA
Analyzed for: TPH-C BTEX MTBE TPH-D	Other: SEE COC
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 131024-LB1	Client: CRA
Sampler: LB	Gauging Date: 10/24/13
Well I.D.: MX1-B	Well Diameter (in.): Ø 3 4 6 8 _____
Total Well Depth (ft.): _____	Depth to Water (ft.): 10.44
Depth to Free Product: 10.27	Thickness of Free Product (feet): 0.17
Referenced to: PVC Grade	Flow Cell Type: _____

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: _____ Flow Rate: _____ Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
_____ 0.17' OF SPH DETECTED W/ INTERFACE PROBE _____								
_____ NO SAMPLE TAKEN _____								

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: _____
Sampling Time: _____	Sampling Date: _____
Sample I.D.: _____	Laboratory: _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 131024-LB1	Client: CPA
Sampler: LB	Gauging Date: 10/24/13
Well I.D.: MW-9	Well Diameter (in.): ② 3 4 6 8
Total Well Depth (ft.): 19.95	Depth to Water (ft.): 12.18
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSL 530

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0920 Flow Rate: 100 mL / MIN Pump Depth: 12.23 15'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0926	15.85	6.42	416	11	1.63	76.6	600	12.23
0929	15.86	6.40	417	10	1.62	72.8	900	12.26
0932	15.87	6.39	418	10	1.61	71.4	1200	12.28
0935	15.86	6.38	416	9	1.60	70.2	1500	12.30
0938	15.89	6.37	415	8	1.59	69.4	1800	12.31

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 1.8 L
Sampling Time: 0939	Sampling Date: 10/24/13
Sample I.D.: GW-241739-102413-LB-MW-9	Laboratory: TA
Analyzed for: TPH-D BTEX MTBE TPH-D	Other: SEE COC
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 131024-LB	Client: CRA
Sampler: LB	Gauging Date: 10/24/13
Well I.D.: MW-10	Well Diameter (in.): <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/> _____
Total Well Depth (ft.): 20.00	Depth to Water (ft.): 13.39
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> Grade	Flow Cell Type: YSI 530

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____

Start Purge Time: 1134 Flow Rate: 100 mL / MIN Pump Depth: 10'

Time	Temp. (C or F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1140	15.28	6.91	623	18	1.91	109.9	600	13.45
1143	15.29	6.84	615	11	1.86	100.3	900	13.47
1146	15.28	6.81	615	10	1.84	99.3	1200	13.48
1149	15.29	6.80	614	9	1.83	98.8	1500	13.49
1152	15.29	6.79	614	8	1.82	97.4	1800	13.50

Did well dewater? Yes No Amount actually evacuated: 1.8L

Sampling Time: 1153 Sampling Date: 10/24/13

Sample I.D.: GW-24173A-102413-LB-MW-10 Laboratory: TA

Analyzed for: TPH BTEX MTBE TPH-D Other: SEE COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LAB (LOCATION)

CALSCIENCE ()
 SYL (location) ()
 XENCO ()
 TEST AMERICA ()
 OTHER ()



Shell Oil Products Chain of Custody Record

ENV. SERVICES
 MOTIVA RETAIL
 MOTIVA SOACH
 SHELL PIPELINE
 SHELL RETAIL
 LUBES
 CONSULTANT
 OTHER

INCIDENT # (ENV. SERVICES): 9 7 6 0 5 4 1 0
 DATE: 10/24/13
 PAGE: 1 of 1

CONTACT NAME: Christina McClelland - 241739.2012.02
 PHONE NO: 425-880-8500
 EMAIL: lking@blainetech.com

SITE ADDRESS: 6808 196th St. SW, Lynnwood, WA
 CONSULTANT PROJECT NO: 131024-LB1

24 HOURS
 2 DAYS
 3 DAYS
 5 DAYS
 7 DAYS
 14 HOURS
 RESULTS NEEDED ON WEEKEND

SHELL CONTRACT RATE APPLIES
 STATE REIMBURSEMENT RATE APPLIES
 EDO NOT NEEDED
 RECEIPT VERIFICATION REQUESTED

SPECIAL INSTRUCTIONS OR NOTES:
 1) Please upload the "CRA EDOIS 4-lb EDO" to the CRA Website (http://cra1abeddbdboard.craworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDO by including "EDO Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.

Copy final report to Shell.Lab.Billing@craworld.com, Shell.results@craworld.com, and Shell-US-LabDataManagement@CRAworld.com

Send invoices to Shell.Lab.Billing@craworld.com
 See Laboratory Bill for WA Dept. of Ecology MTCA Method A cleanup levels for petroleum detection limits.

WELL ID	PROJECT NUMBER	DATE (MM/DD/YY)	SAMPLER INITIALS	TIME	KATIX	PRESERVATIVE				NO. OF CONT.	TEMPERATURE ON RECEIPT C°	Container MD Readings or Laboratory Notes
						HCL	HPO3	H2SO4	OTHER			
GW-241739	241739	10/24/13	LB	1230	WG X					8		
GW-241739	241739	10/24/13	LB	1108	WG X					8		
GW-241739	241739	10/24/13	LB	0857	WG X					8		
GW-241739	241739	10/24/13	LB	1022	WG X					8		
GW-241739	241739	10/24/13	LB	0809	WG X					8		
GW-241739	241739	10/24/13	LB	1153	WG X					8		

RECEIVED BY: (Signature)
 DATE: 10/24/13

RECEIVED BY: (Signature)
 DATE:

RECEIVED BY: (Signature)
 DATE:

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 97605410

ADDRESS GEBB 196TH ST SW

DATE: 10/24/13

CITY & STATE LYNNWOOD, WA

Well ID	Marway/Cover Type/Condition & Size		Observations Upon Arrival		Well Lock Condition	Well Pad/Surface Condition	Detailed Explanation of Maintenance Recommended and if performed	Photos of Well Condition	Repair Date and PW Includes																																																						
	Size (inch)	Condition	Well Labeled/Property Painted	Well Cap (Grip) Condition																																																											
MW-1	Standpipe	Flush	8	P	Y	N		Y																																																							
MW-2	Standpipe	Flush	8	P	Y	N		Y																																																							
MW-3	Standpipe	Flush	8	P	Y	N		Y																																																							
MW-4	Standpipe	Flush	8	P	Y	N		Y																																																							
MW-5	Standpipe	Flush	8	P	Y	N		Y																																																							
MW-6	Standpipe	Flush	8	P	Y	N		Y																																																							
MW-7	Standpipe	Flush	8	P	Y	N		Y																																																							
MW-8	Standpipe	Flush	8	P	Y	N		Y																																																							
MW-9	Standpipe	Flush	8	P	Y	N		Y																																																							
MW-10	Standpipe	Flush	8	P	Y	N		Y																																																							
TOTAL # CAPS REPLACED =					0	= TOTAL # OF LOCKS REPLACED																																																									
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All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

LAE BUES / RST

Print or type Name of Field Personnel & Consultant Company

G = Good (Acceptable) R = Replaced
 P = Poor (needs attention) NL = No Lock Required
 Note: All repairs other than locks and adapters require Staff PW approval prior to capital.
 ** Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.
 Version 2.4, March 2008


SHELL BILL OF LADING

SOURCE RECORD BILL OF LADING
 FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT SHELL FACILITIES IN THE STATE OF WASHINGTON OR OREGON. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS, IS MADE UP INTO LOADS OF APPROPRIATE SIZE TO BE TRANSPORTED & PROCESSED BY A SHELL APPROVED WASTE HAULER.

The contractor performing this work is BLAINE TECH SERVICES, INC. 22727 72ND Ave South, Suite D - 102, Kent, WA 98032. Blaine Tech Services, Inc. is authorized by SHELL OIL COMPANY (SHELL) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the SHELL facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Shell facility to BTS; from one Shell facility to BTS via another Shell facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of SHELL.

This Source Record **BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the SHELL facility described below:

INCIDENT # 97605410 Perry Pineda
 Shell Engineer
6808 196TH ST SW, LYNNWOOD WA
 street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	0.5		
MW-2	0.5		
MW-6	0.5		
MW-7	0.5		
MW-9	0.5		
MW-10	0.5		
added equip.		any other	
rinse water	3.0	adjustments	
TOTAL GALS. RECOVERED	6.0	loaded onto	90
BTS event #	<u>131024-LS</u>	BTS vehicle #	<u>300</u>
signature		time	<u>6/24/13</u>

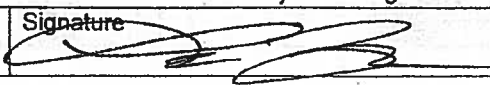
RECEIVED AT		time	date
BTS Kent			
unloaded by		signature	

Job Clearance Form

Student # GRASHIO	Station Address 6666 ROTH ST SW LYNNWOOD, WA	Work Order Number 131024-LB1	Date 10/24/13
Contractor Name BLAKE TECH SERVICES	Contractor Phone 1	Start Time 0700	End Time 1300
Problem/Work Description: GAUGE PURGE + SAMPLE TO GROUNDWATER WELLS			
<input checked="" type="checkbox"/> SAFETY VEST <input checked="" type="checkbox"/> PROTECTIVE CLOTHING <input checked="" type="checkbox"/> HARD HAT <input checked="" type="checkbox"/> GLOVES <input checked="" type="checkbox"/> SHOES & BOOTS <input checked="" type="checkbox"/> SAFETY GLASSES/GOGGLES		<input type="checkbox"/> HEARING PROTECTION <input type="checkbox"/> WELDING PPE <input type="checkbox"/> RESPIRATOR <input type="checkbox"/> OTHER	
Return Call: <input type="checkbox"/> yes <input type="checkbox"/> no		Dump/Spill: <input type="checkbox"/> yes <input type="checkbox"/> no	
This form must be completed for each job and signed and dated by all personnel who are directly involved in the work.			
Work description requirements: <input type="checkbox"/> Work at heights in all cases on open sites - on closed sites if no JSA present <input type="checkbox"/> Trembling or vibration related to underground tank/product line <input type="checkbox"/> Heavy lifting	Lower Risk - no JSA required Medium Risk - Above/Below Risk tools - JSA required Higher Risk - JSA required	JSA required A appropriate check list completed (see below) <input type="checkbox"/> Work in confined spaces (e.g. tank, silo, manhole or deep manhole entry) <input type="checkbox"/> Hot work with risk of igniting or vapor ignition <input type="checkbox"/> LPG system degassing, installation or maintenance	
Examples of Above/Medium Risk: GAUGE PURGE SAMPLE	Lower Risk: NA	Medium Risk: NA	Higher Risk: NA
This form must be completed for each job and signed and dated by all personnel who are directly involved in the work.			
Operating sheet to be signed by the Representative only GENERAL SAFETY CHECKS • Has a full personal been informed? • Has full delivery service been informed? • Is full delivery due? • Has a holden procedure been agreed - lock out/tag out? • Are work areas cordoned off to protect workers, the staff & public? • Other:		SIGNATURE [Signature] Signature:	
Operating sheet to be signed by the Representative only GENERAL SAFETY CHECKS • Has the work area been set up and ready? • Are all personnel aware of risks of work including remaining incident? • Are changes to equipment documented and communicated? • All incidents, near incidents, unsafe situations reported? • Other:		SIGNATURE [Signature] Signature:	

**Daily Tailgate Safety Meeting Checklist &
Hazard Mitigation Form**

TGSM

Site Address: 6808 FOXTH ST SW, LYNNWOOD, WA		Date: 10/24/13	
Check-In with site representative completed?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	
Is fuel delivery scheduled for today?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Emergency pump cut-off switch located?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	
First aid kit located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes	
Fire extinguisher located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes	
Eye wash located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes	
HASP	Emergency Services information located & reviewed?	<input checked="" type="checkbox"/> Yes	
	Hospital map & route located and reviewed?	<input checked="" type="checkbox"/> Yes	
	Special Hazard Notice section reviewed?	<input checked="" type="checkbox"/> Yes	
	Site Status confirmed or amended, dated and initialed?	<input checked="" type="checkbox"/> Yes	
	Emergency Response procedures reviewed with all work crew members?	<input checked="" type="checkbox"/> Yes	
Compliance Roster signed by all work crew members?		<input checked="" type="checkbox"/> Yes	
Site walk has been performed to locate wells and identify additional hazards?		<input checked="" type="checkbox"/> Yes	
Job Safety Analysis (JSA) for each task located & reviewed by all work crew members?		<input checked="" type="checkbox"/> Yes	
Work Area Plans reviewed for suitability and effectiveness given current site conditions?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	
Traffic Control Plans reviewed for suitability given current road, traffic & weather conditions?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	
Stop Work Authority reviewed and understood by all work crew members?		<input checked="" type="checkbox"/> Yes	
<ul style="list-style-type: none"> • In the space below, note unaddressed hazards and conditions that might compromise compliance with Approved Procedures and/or JSA's or impede the safe and proper execution of the Work Plan, Work Area Plan(s) and/or Traffic Control Plan(s). • Report unaddressed hazards and adverse conditions to the Project Manager during Pre-Start Call-in and as hazards are identified or conditions change throughout the workday. • DO NOT COMMENCE OR RESTART WORK until PM has been notified and mitigation measures approved. 			
Time	Hazard or Adverse Condition	PM Initials	Hazard Control Measure
Site representative briefed on planned work activities and Work Area Plans?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	
Job Clearance Form completed?		<input checked="" type="checkbox"/> Yes	
Pre-Start Call-In completed and approval to start work received from Project Manager?		<input checked="" type="checkbox"/> Yes	
Printed Name HE BURES	Signature 	Time 0720	

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME		PROJECT NUMBER					
6808 196TH ST SW, LYNNWOOD, WA		131024-LB1					
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 536	SEA #2	10/24/13 0600	PH 4.0 7.0 10.0	4.03 6.98 10.01	—	15.1	LB
			COND 3900	3886	3900 ✓	15.2	LB
			ORP 244	261.4	244.2 ✓	15.1	LB
			DO 100%	84.3%	100.0% ✓	—	LB

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>131024-LB1</u>	Client: <u>CEA</u>
Sampler: <u>LB</u>	Gauging Date: <u>10/24/13</u>
Well I.D.: <u>MW-1</u>	Well Diameter (in.): <u>Ø 3</u> 4 6 8
Total Well Depth (ft.): <u>24.81</u>	Depth to Water (ft.): <u>12.31</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 536</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 12/19 Flow Rate: 100 mL/MIN Pump Depth: 15'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or liters)	Depth to Water (ft.)
1225	15.85	6.83	409	14	2.00	94.2	600	12.39
1228	16.03	6.87	410	10	1.95	86.7	900	12.41
1231	16.01	6.90	408	9	1.93	84.7	1200	12.42
1234	16.01	6.91	407	8	1.92	83.1	1500	12.43
1237	16.02	6.92	406	7	1.91	82.6	1800	12.44

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>1.5L</u>
Sampling Time: <u>1238</u>	Sampling Date: <u>10/24/13</u>
Sample I.D.: <u>GW-211739-102413-LB-MW1</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH-C</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u>	Other: <u>SEE COL</u>
Equipment Blank I.D.: <u>@</u> Time	Duplicate I.D.:

WELL GAUGING DATA

Project # 131024-481 Date 10/24/13 Client CRA

Site 6808 196th ST SW, LYNNWOOD, WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	0756	2					12.31	24.81	↓	
MW-2	0747	2					11.93	17.29		
MW-3	0814	2	ODOR	11.38 11.63	0.75		11.63 11.38	—		
MW-4	0819	2	ODOR	11.83	0.22		12.05	—		
MW-5	0825	2	ODOR	10.47	0.36		10.83	—		
MW-6	0733	2					9.81	19.31		
MW-7	0743	2					9.35	19.40		
MW-8	0808	2	ODOR	10.27	0.17		10.44	—		
MW-9	0738	2					12.18	19.95		
MW-10	0801	2					13.39	20.06		

Appendix B

Laboratory Analytical Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-25516-1
TestAmerica Sample Delivery Group: SAP 171152 / 241739
Client Project/Site: 6808 196th St. SW, Lynnwood, WA

For:
Conestoga-Rovers & Associates, Inc.
20818 44th Ave W
Suite 190
Lynnwood, Washington 98036

Attn: Christina McClelland



Authorized for release by:
5/14/2013 1:48:12 PM

Ryan Fitzwater, Senior Project Manager
ryan.fitzwater@testamericainc.com

LINKS

Review your project
results through
Total Access

Have a Question?

**Ask
The
Expert**

Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
SDG: SAP 171152 / 241739

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-25516-1	GW-241739-043013-LB-MW-1	Water	04/30/13 10:06	05/01/13 08:00
490-25516-2	GW-241739-043013-LB-MW-2	Water	04/30/13 09:30	05/01/13 08:00
490-25516-3	GW-241739-043013-LB-MW-6	Water	04/30/13 07:39	05/01/13 08:00
490-25516-4	GW-241739-043013-LB-MW-7	Water	04/30/13 08:52	05/01/13 08:00
490-25516-5	GW-241739-043013-LB-MW-8	Water	04/30/13 11:17	05/01/13 08:00
490-25516-6	GW-241739-043013-LB-MW-9	Water	04/30/13 08:17	05/01/13 08:00
490-25516-7	GW-241739-043013-LB-MW-10	Water	04/30/13 10:42	05/01/13 08:00



Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
SDG: SAP 171152 / 241739

Job ID: 490-25516-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-25516-1

Comments

No additional comments.

Receipt

The samples were received on 5/1/2013 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2° C and 2.3° C.

GC/MS VOA

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Job ID: 490-25516-2

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-25516-2

Comments

No additional comments.

Receipt

The samples were received on 5/1/2013 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2° C and 2.3° C.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

Method(s) NWTPH-Dx: There was insufficient contamination present to perform a pattern match for the following sample(s):
GW-241739-043013-LB-MW-6 (490-25516-3), GW-241739-043013-LB-MW-7 (490-25516-4).

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern that most closely resembles a Gasoline and Motor oil product used by the laboratory for quantitative purposes: (490-25516-1 DU), GW-241739-043013-LB-MW-1 (490-25516-1).

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern for analyte C10-C24 that most closely resembles a Gasoline product used by the laboratory for quantitative purposes: GW-241739-043013-LB-MW-8 (490-25516-5). The following sample(s) contained a hydrocarbon pattern for analyte C24-C40 which does not match a typical Total Petroleum Hydrocarbon (TPH) pattern used by the laboratory for quantitative purposes: GW-241739-043013-LB-MW-8 (490-25516-5).

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern that most closely resembles a Gasoline and Motor oil product used by the laboratory for quantitative purposes: GW-241739-043013-LB-MW-10 (490-25516-7).

Method(s) NWTPH-Dx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 76780.

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern that most closely resembles a Motor oil product used by the laboratory for quantitative purposes: GW-241739-043013-LB-MW-2 (490-25516-2).



Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
SDG: SAP 171152 / 241739

Job ID: 490-25516-2 (Continued)

Laboratory: TestAmerica Nashville (Continued)

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern that most closely resembles a Gasoline product used by the laboratory for quantitative purposes: GW-241739-043013-LB-MW-8 (490-25516-5).

No other analytical or quality issues were noted.

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 76780.

No other analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.



Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
SDG: SAP 171152 / 241739

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
♠	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-043013-LB-MW-1

Lab Sample ID: 490-25516-1

Date Collected: 04/30/13 10:06

Matrix: Water

Date Received: 05/01/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1590		10.0		ug/L			05/03/13 19:49	10
Ethylbenzene	374		10.0		ug/L			05/03/13 19:49	10
Xylenes, Total	445		3.00		ug/L			05/02/13 19:50	1
Toluene	100		1.00		ug/L			05/02/13 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130		05/02/13 19:50	1
4-Bromofluorobenzene (Surr)	92		70 - 130		05/03/13 19:49	10
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		05/02/13 19:50	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		05/03/13 19:49	10
Toluene-d8 (Surr)	102		70 - 130		05/02/13 19:50	1
Toluene-d8 (Surr)	102		70 - 130		05/03/13 19:49	10
Dibromofluoromethane (Surr)	95		70 - 130		05/02/13 19:50	1
Dibromofluoromethane (Surr)	94		70 - 130		05/03/13 19:49	10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	7300		500		ug/L			05/02/13 16:10	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		50 - 150		05/02/13 16:10	5

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	1600		93.5		ug/L		05/03/13 08:44	05/04/13 03:58	1
C24-C40	818		93.5		ug/L		05/03/13 08:44	05/04/13 03:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	70		50 - 150	05/03/13 08:44	05/04/13 03:58	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-043013-LB-MW-2

Lab Sample ID: 490-25516-2

Date Collected: 04/30/13 09:30

Matrix: Water

Date Received: 05/01/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/03/13 05:24	1
Ethylbenzene	ND		1.00		ug/L			05/03/13 05:24	1
Xylenes, Total	ND		3.00		ug/L			05/03/13 05:24	1
Toluene	ND		1.00		ug/L			05/03/13 05:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130					05/03/13 05:24	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130					05/03/13 05:24	1
Toluene-d8 (Surr)	99		70 - 130					05/03/13 05:24	1
Dibromofluoromethane (Surr)	97		70 - 130					05/03/13 05:24	1
Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			05/02/13 10:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	84		50 - 150					05/02/13 10:59	1
Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	261		93.5		ug/L		05/03/13 08:44	05/04/13 04:29	1
C24-C40	198		93.5		ug/L		05/03/13 08:44	05/04/13 04:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		50 - 150				05/03/13 08:44	05/04/13 04:29	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-043013-LB-MW-6

Lab Sample ID: 490-25516-3

Date Collected: 04/30/13 07:39

Matrix: Water

Date Received: 05/01/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/03/13 05:52	1
Ethylbenzene	ND		1.00		ug/L			05/03/13 05:52	1
Xylenes, Total	ND		3.00		ug/L			05/03/13 05:52	1
Toluene	ND		1.00		ug/L			05/03/13 05:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130		05/03/13 05:52	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		05/03/13 05:52	1
Toluene-d8 (Surr)	101		70 - 130		05/03/13 05:52	1
Dibromofluoromethane (Surr)	97		70 - 130		05/03/13 05:52	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			05/02/13 11:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	80		50 - 150		05/02/13 11:30	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	97.8		93.5		ug/L		05/03/13 08:44	05/04/13 04:44	1
C24-C40	ND		93.5		ug/L		05/03/13 08:44	05/04/13 04:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
o-Terphenyl	77		50 - 150		05/03/13 08:44	05/04/13 04:44	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-043013-LB-MW-7

Lab Sample ID: 490-25516-4

Date Collected: 04/30/13 08:52

Matrix: Water

Date Received: 05/01/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/03/13 06:19	1
Ethylbenzene	ND		1.00		ug/L			05/03/13 06:19	1
Xylenes, Total	ND		3.00		ug/L			05/03/13 06:19	1
Toluene	ND		1.00		ug/L			05/03/13 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130		05/03/13 06:19	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		05/03/13 06:19	1
Toluene-d8 (Surr)	101		70 - 130		05/03/13 06:19	1
Dibromofluoromethane (Surr)	97		70 - 130		05/03/13 06:19	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			05/02/13 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	80		50 - 150		05/02/13 12:30	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	115		93.5		ug/L		05/03/13 08:44	05/04/13 05:00	1
C24-C40	ND		93.5		ug/L		05/03/13 08:44	05/04/13 05:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150	05/03/13 08:44	05/04/13 05:00	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-043013-LB-MW-8

Lab Sample ID: 490-25516-5

Date Collected: 04/30/13 11:17

Matrix: Water

Date Received: 05/01/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	8830		200		ug/L			05/03/13 20:44	200
Ethylbenzene	1950		20.0		ug/L			05/03/13 20:17	20
Xylenes, Total	11200		60.0		ug/L			05/03/13 20:17	20
Toluene	29400		200		ug/L			05/03/13 20:44	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130		05/03/13 20:17	20
4-Bromofluorobenzene (Surr)	91		70 - 130		05/03/13 20:44	200
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		05/03/13 20:17	20
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		05/03/13 20:44	200
Toluene-d8 (Surr)	102		70 - 130		05/03/13 20:17	20
Toluene-d8 (Surr)	101		70 - 130		05/03/13 20:44	200
Dibromofluoromethane (Surr)	91		70 - 130		05/03/13 20:17	20
Dibromofluoromethane (Surr)	93		70 - 130		05/03/13 20:44	200

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	103000		10000		ug/L			05/02/13 16:41	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		50 - 150		05/02/13 16:41	100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	3820		374		ug/L		05/03/13 08:44	05/06/13 13:10	4
C24-C40	309		93.5		ug/L		05/03/13 08:44	05/04/13 05:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150	05/03/13 08:44	05/04/13 05:15	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-043013-LB-MW-9

Lab Sample ID: 490-25516-6

Date Collected: 04/30/13 08:17

Matrix: Water

Date Received: 05/01/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/03/13 18:55	1
Ethylbenzene	ND		1.00		ug/L			05/03/13 18:55	1
Xylenes, Total	ND		3.00		ug/L			05/03/13 18:55	1
Toluene	ND		1.00		ug/L			05/03/13 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130		05/03/13 18:55	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		05/03/13 18:55	1
Toluene-d8 (Surr)	100		70 - 130		05/03/13 18:55	1
Dibromofluoromethane (Surr)	98		70 - 130		05/03/13 18:55	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			05/02/13 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	84		50 - 150		05/02/13 14:31	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.5		ug/L		05/03/13 08:44	05/04/13 05:31	1
C24-C40	ND		93.5		ug/L		05/03/13 08:44	05/04/13 05:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	76		50 - 150	05/03/13 08:44	05/04/13 05:31	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-043013-LB-MW-10

Lab Sample ID: 490-25516-7

Date Collected: 04/30/13 10:42

Matrix: Water

Date Received: 05/01/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	48.1		1.00		ug/L			05/03/13 19:22	1
Ethylbenzene	15.1		1.00		ug/L			05/03/13 19:22	1
Xylenes, Total	21.4		3.00		ug/L			05/03/13 19:22	1
Toluene	1.22		1.00		ug/L			05/03/13 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130		05/03/13 19:22	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		05/03/13 19:22	1
Toluene-d8 (Surr)	101		70 - 130		05/03/13 19:22	1
Dibromofluoromethane (Surr)	96		70 - 130		05/03/13 19:22	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	590		100		ug/L			05/02/13 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	79		50 - 150		05/02/13 14:01	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	346		93.5		ug/L		05/03/13 08:44	05/04/13 05:46	1
C24-C40	148		93.5		ug/L		05/03/13 08:44	05/04/13 05:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	79		50 - 150	05/03/13 08:44	05/04/13 05:46	1

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-76511/9

Matrix: Water

Analysis Batch: 76511

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		1.00		ug/L			05/02/13 12:31	1
Ethylbenzene	ND		1.00		ug/L			05/02/13 12:31	1
Xylenes, Total	ND		3.00		ug/L			05/02/13 12:31	1
Toluene	ND		1.00		ug/L			05/02/13 12:31	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	91		70 - 130		05/02/13 12:31	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		05/02/13 12:31	1
Toluene-d8 (Surr)	99		70 - 130		05/02/13 12:31	1
Dibromofluoromethane (Surr)	109		70 - 130		05/02/13 12:31	1

Lab Sample ID: LCS 490-76511/3

Matrix: Water

Analysis Batch: 76511

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	50.0	49.40		ug/L		99	80 - 121
Ethylbenzene	50.0	55.94		ug/L		112	80 - 130
Xylenes, Total	150	168.4		ug/L		112	80 - 132
Toluene	50.0	54.44		ug/L		109	80 - 126

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Toluene-d8 (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130

Lab Sample ID: LCSD 490-76511/4

Matrix: Water

Analysis Batch: 76511

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	50.0	48.23		ug/L		96	80 - 121	2	17
Ethylbenzene	50.0	54.79		ug/L		110	80 - 130	2	15
Xylenes, Total	150	164.4		ug/L		110	80 - 132	2	15
Toluene	50.0	52.58		ug/L		105	80 - 126	3	15

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-25484-B-1 MS

Matrix: Water

Analysis Batch: 76511

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Benzene	ND		50.0	57.11		ug/L		114	75 - 133
Ethylbenzene	ND		50.0	60.17		ug/L		120	79 - 139
Xylenes, Total	ND		150	179.2		ug/L		119	74 - 141
Toluene	ND		50.0	57.29		ug/L		115	75 - 136

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Toluene-d8 (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130

Lab Sample ID: 490-25484-C-1 MSD

Matrix: Water

Analysis Batch: 76511

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
Benzene	ND		50.0	56.33		ug/L		113	75 - 133	1	17
Ethylbenzene	ND		50.0	59.37		ug/L		119	79 - 139	1	15
Xylenes, Total	ND		150	176.3		ug/L		118	74 - 141	2	15
Toluene	ND		50.0	56.56		ug/L		113	75 - 136	1	15

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130

Lab Sample ID: MB 490-76722/7

Matrix: Water

Analysis Batch: 76722

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
	Result	Qualifier							
Benzene	ND		1.00		ug/L			05/02/13 23:56	1
Ethylbenzene	ND		1.00		ug/L			05/02/13 23:56	1
Xylenes, Total	ND		3.00		ug/L			05/02/13 23:56	1
Toluene	ND		1.00		ug/L			05/02/13 23:56	1

Surrogate	MB MB		Limits	Prepared	Analyzed	DII Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	92		70 - 130		05/02/13 23:56	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		05/02/13 23:56	1
Toluene-d8 (Surr)	101		70 - 130		05/02/13 23:56	1
Dibromofluoromethane (Surr)	97		70 - 130		05/02/13 23:56	1

TestAmerica Nashville

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-76722/3

Matrix: Water

Analysis Batch: 76722

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	50.0	48.59		ug/L		97	80 - 121
Ethylbenzene	50.0	55.54		ug/L		111	80 - 130
Xylenes, Total	150	166.1		ug/L		111	80 - 132
Toluene	50.0	53.21		ug/L		106	80 - 126

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130

Lab Sample ID: LCSD 490-76722/4

Matrix: Water

Analysis Batch: 76722

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	50.0	47.36		ug/L		95	80 - 121	3	17
Ethylbenzene	50.0	53.54		ug/L		107	80 - 130	4	15
Xylenes, Total	150	161.3		ug/L		108	80 - 132	3	15
Toluene	50.0	51.86		ug/L		104	80 - 126	3	15

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130

Lab Sample ID: 490-25541-A-10 MS

Matrix: Water

Analysis Batch: 76722

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Benzene	ND		50.0	54.23		ug/L		108	75 - 133
Ethylbenzene	ND		50.0	58.07		ug/L		116	79 - 139
Xylenes, Total	ND		150	173.8		ug/L		116	74 - 141
Toluene	ND		50.0	57.50		ug/L		115	75 - 136

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Toluene-d8 (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-25541-A-10 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 76722

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	ND		50.0	55.41		ug/L		111	75 - 133	2	17
Ethylbenzene	ND		50.0	60.03		ug/L		120	79 - 139	3	15
Xylenes, Total	ND		150	179.3		ug/L		120	74 - 141	3	15
Toluene	ND		50.0	58.42		ug/L		117	75 - 136	2	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Toluene-d8 (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130

Lab Sample ID: MB 490-76794/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 76794

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		1.00		ug/L			05/03/13 12:15	1
Ethylbenzene	ND		1.00		ug/L			05/03/13 12:15	1
Xylenes, Total	ND		3.00		ug/L			05/03/13 12:15	1
Toluene	ND		1.00		ug/L			05/03/13 12:15	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	93		70 - 130		05/03/13 12:15	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		05/03/13 12:15	1
Toluene-d8 (Surr)	100		70 - 130		05/03/13 12:15	1
Dibromofluoromethane (Surr)	94		70 - 130		05/03/13 12:15	1

Lab Sample ID: LCS 490-76794/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 76794

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Benzene	50.0	52.74		ug/L		105	80 - 121
Ethylbenzene	50.0	56.00		ug/L		112	80 - 130
Xylenes, Total	150	169.2		ug/L		113	80 - 132
Toluene	50.0	54.56		ug/L		109	80 - 126

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	91		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-76794/4
Matrix: Water
Analysis Batch: 76794

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	50.0	52.39		ug/L		105	80 - 121	1	17
Ethylbenzene	50.0	56.40		ug/L		113	80 - 130	1	15
Xylenes, Total	150	170.3		ug/L		114	80 - 132	1	15
Toluene	50.0	54.45		ug/L		109	80 - 126	0	15

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Toluene-d8 (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130

Lab Sample ID: 490-25573-B-1 MS
Matrix: Water
Analysis Batch: 76794

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Benzene	ND		50.0	56.28		ug/L		113	75 - 133
Ethylbenzene	ND		50.0	60.50		ug/L		121	79 - 139
Xylenes, Total	ND		150	181.9		ug/L		121	74 - 141
Toluene	ND		50.0	58.32		ug/L		117	75 - 136

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
Toluene-d8 (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130

Lab Sample ID: 490-25573-C-1 MSD
Matrix: Water
Analysis Batch: 76794

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
Benzene	ND		50.0	55.97		ug/L		112	75 - 133	1	17
Ethylbenzene	ND		50.0	59.93		ug/L		120	79 - 139	1	15
Xylenes, Total	ND		150	181.3		ug/L		121	74 - 141	0	15
Toluene	ND		50.0	57.71		ug/L		115	75 - 136	1	15

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 490-76476/6
 Matrix: Water
 Analysis Batch: 76476

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C6-C12	ND		100		ug/L			05/02/13 10:19	1
Surrogate	MB MB		Limits				Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
a,a,a-Trifluorotoluene	82		50 - 150					05/02/13 10:19	1

Lab Sample ID: LCS 490-76476/4
 Matrix: Water
 Analysis Batch: 76476

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte		Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
			Result	Qualifier				
C6-C12		1000	1042		ug/L		104	39 - 143
Surrogate	LCS LCS		Limits					
%Recovery	Qualifier							
a,a,a-Trifluorotoluene	62		50 - 150					

Lab Sample ID: LCSD 490-76476/5
 Matrix: Water
 Analysis Batch: 76476

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

Analyte		Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
			Result	Qualifier						
C6-C12		1000	1041		ug/L		104	39 - 143	0	18
Surrogate	LCSD LCSD		Limits							
%Recovery	Qualifier									
a,a,a-Trifluorotoluene	66		50 - 150							

Lab Sample ID: 490-25516-3 DU
 Matrix: Water
 Analysis Batch: 76476

Client Sample ID: GW-241739-043013-LB-MW-6
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D		RPD	RPD Limit
			Result	Qualifier					
C6-C12	ND		ND		ug/L			NC	18
Surrogate	DU DU		Limits						
%Recovery	Qualifier								
a,a,a-Trifluorotoluene	81		50 - 150						

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 490-76780/1-A
 Matrix: Water
 Analysis Batch: 76973

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 76780

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C10-C24	ND		100		ug/L		05/03/13 08:44	05/04/13 03:27	1
C24-C40	ND		100		ug/L		05/03/13 08:44	05/04/13 03:27	1

TestAmerica Nashville

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 490-76780/1-A
Matrix: Water
Analysis Batch: 76973

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 76780

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	79		50 - 150	05/03/13 08:44	05/04/13 03:27	1

Lab Sample ID: LCS 490-76780/2-A
Matrix: Water
Analysis Batch: 76973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 76780

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
C10-C24	1000	704.3		ug/L		70	51 - 132

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	79		50 - 150

Lab Sample ID: 490-25516-1 DU
Matrix: Water
Analysis Batch: 76973

Client Sample ID: GW-241739-043013-LB-MW-1
Prep Type: Total/NA
Prep Batch: 76780

Analyte	Sample Sample		DU DU		Unit	D	RPD RPD	
	Result	Qualifier	Result	Qualifier			RPD	Limit
C10-C24	1600		1588		ug/L		0.8	41
C24-C40	818		767.6		ug/L		6	41

Surrogate	DU DU		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	71		50 - 150



QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

GC/MS VOA

Analysis Batch: 76511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-25484-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
490-25484-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
490-25516-1	GW-241739-043013-LB-MW-1	Total/NA	Water	8260B	
LCS 490-76511/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-76511/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-76511/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 76722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-25516-2	GW-241739-043013-LB-MW-2	Total/NA	Water	8260B	
490-25516-3	GW-241739-043013-LB-MW-6	Total/NA	Water	8260B	
490-25516-4	GW-241739-043013-LB-MW-7	Total/NA	Water	8260B	
490-25541-A-10 MS	Matrix Spike	Total/NA	Water	8260B	
490-25541-A-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 490-76722/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-76722/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-76722/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 76794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-25516-1	GW-241739-043013-LB-MW-1	Total/NA	Water	8260B	
490-25516-5	GW-241739-043013-LB-MW-8	Total/NA	Water	8260B	
490-25516-5	GW-241739-043013-LB-MW-8	Total/NA	Water	8260B	
490-25516-6	GW-241739-043013-LB-MW-9	Total/NA	Water	8260B	
490-25516-7	GW-241739-043013-LB-MW-10	Total/NA	Water	8260B	
490-25573-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
490-25573-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 490-76794/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-76794/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-76794/7	Method Blank	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 76476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-25516-1	GW-241739-043013-LB-MW-1	Total/NA	Water	NWTPH-Gx	
490-25516-2	GW-241739-043013-LB-MW-2	Total/NA	Water	NWTPH-Gx	
490-25516-3	GW-241739-043013-LB-MW-6	Total/NA	Water	NWTPH-Gx	
490-25516-3 DU	GW-241739-043013-LB-MW-6	Total/NA	Water	NWTPH-Gx	
490-25516-4	GW-241739-043013-LB-MW-7	Total/NA	Water	NWTPH-Gx	
490-25516-5	GW-241739-043013-LB-MW-8	Total/NA	Water	NWTPH-Gx	
490-25516-6	GW-241739-043013-LB-MW-9	Total/NA	Water	NWTPH-Gx	
490-25516-7	GW-241739-043013-LB-MW-10	Total/NA	Water	NWTPH-Gx	
LCS 490-76476/4	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 490-76476/5	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
MB 490-76476/6	Method Blank	Total/NA	Water	NWTPH-Gx	

TestAmerica Nashville



QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

GC Semi VOA

Prep Batch: 76780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-25516-1	GW-241739-043013-LB-MW-1	Total/NA	Water	3510C	
490-25516-1 DU	GW-241739-043013-LB-MW-1	Total/NA	Water	3510C	
490-25516-2	GW-241739-043013-LB-MW-2	Total/NA	Water	3510C	
490-25516-3	GW-241739-043013-LB-MW-6	Total/NA	Water	3510C	
490-25516-4	GW-241739-043013-LB-MW-7	Total/NA	Water	3510C	
490-25516-5	GW-241739-043013-LB-MW-8	Total/NA	Water	3510C	
490-25516-6	GW-241739-043013-LB-MW-9	Total/NA	Water	3510C	
490-25516-7	GW-241739-043013-LB-MW-10	Total/NA	Water	3510C	
LCS 490-76780/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-76780/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 76973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-25516-1	GW-241739-043013-LB-MW-1	Total/NA	Water	NWTPH-Dx	76780
490-25516-1 DU	GW-241739-043013-LB-MW-1	Total/NA	Water	NWTPH-Dx	76780
490-25516-2	GW-241739-043013-LB-MW-2	Total/NA	Water	NWTPH-Dx	76780
490-25516-3	GW-241739-043013-LB-MW-6	Total/NA	Water	NWTPH-Dx	76780
490-25516-4	GW-241739-043013-LB-MW-7	Total/NA	Water	NWTPH-Dx	76780
490-25516-5	GW-241739-043013-LB-MW-8	Total/NA	Water	NWTPH-Dx	76780
490-25516-6	GW-241739-043013-LB-MW-9	Total/NA	Water	NWTPH-Dx	76780
490-25516-7	GW-241739-043013-LB-MW-10	Total/NA	Water	NWTPH-Dx	76780
LCS 490-76780/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	76780
MB 490-76780/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	76780

Analysis Batch: 77141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-25516-5	GW-241739-043013-LB-MW-8	Total/NA	Water	NWTPH-Dx	76780



Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-043013-LB-MW-1

Lab Sample ID: 490-25516-1

Date Collected: 04/30/13 10:06

Matrix: Water

Date Received: 05/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	76511	05/02/13 19:50	EL	TAL NSH
Total/NA	Analysis	8260B		10	76794	05/03/13 19:49	EL	TAL NSH
Total/NA	Analysis	NWTPH-Gx		5	76476	05/02/13 16:10	GM	TAL NSH
Total/NA	Prep	3510C			76780	05/03/13 08:44	NR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	76973	05/04/13 03:58	JL	TAL NSH

Client Sample ID: GW-241739-043013-LB-MW-2

Lab Sample ID: 490-25516-2

Date Collected: 04/30/13 09:30

Matrix: Water

Date Received: 05/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	76722	05/03/13 05:24	EL	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	76476	05/02/13 10:59	GM	TAL NSH
Total/NA	Prep	3510C			76780	05/03/13 08:44	NR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	76973	05/04/13 04:29	JL	TAL NSH

Client Sample ID: GW-241739-043013-LB-MW-6

Lab Sample ID: 490-25516-3

Date Collected: 04/30/13 07:39

Matrix: Water

Date Received: 05/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	76722	05/03/13 05:52	EL	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	76476	05/02/13 11:30	GM	TAL NSH
Total/NA	Prep	3510C			76780	05/03/13 08:44	NR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	76973	05/04/13 04:44	JL	TAL NSH

Client Sample ID: GW-241739-043013-LB-MW-7

Lab Sample ID: 490-25516-4

Date Collected: 04/30/13 08:52

Matrix: Water

Date Received: 05/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	76722	05/03/13 08:19	EL	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	76476	05/02/13 12:30	GM	TAL NSH
Total/NA	Prep	3510C			76780	05/03/13 08:44	NR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	76973	05/04/13 05:00	JL	TAL NSH

Client Sample ID: GW-241739-043013-LB-MW-8

Lab Sample ID: 490-25516-5

Date Collected: 04/30/13 11:17

Matrix: Water

Date Received: 05/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	76794	05/03/13 20:17	EL	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-043013-LB-MW-8

Lab Sample ID: 490-25516-5

Date Collected: 04/30/13 11:17

Matrix: Water

Date Received: 05/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	76794	05/03/13 20:44	EL	TAL NSH
Total/NA	Analysis	NWTPH-Gx		100	76476	05/02/13 16:41	GM	TAL NSH
Total/NA	Prep	3510C			76780	05/03/13 08:44	NR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	76973	05/04/13 05:15	JL	TAL NSH
Total/NA	Prep	3510C			76780	05/03/13 08:44	NR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		4	77141	05/06/13 13:10	JL	TAL NSH

Client Sample ID: GW-241739-043013-LB-MW-9

Lab Sample ID: 490-25516-6

Date Collected: 04/30/13 08:17

Matrix: Water

Date Received: 05/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	76794	05/03/13 18:55	EL	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	76476	05/02/13 14:31	GM	TAL NSH
Total/NA	Prep	3510C			76780	05/03/13 08:44	NR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	76973	05/04/13 05:31	JL	TAL NSH

Client Sample ID: GW-241739-043013-LB-MW-10

Lab Sample ID: 490-25516-7

Date Collected: 04/30/13 10:42

Matrix: Water

Date Received: 05/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	76794	05/03/13 19:22	EL	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	76476	05/02/13 14:01	GM	TAL NSH
Total/NA	Prep	3510C			76780	05/03/13 08:44	NR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	76973	05/04/13 05:46	JL	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
SDG: SAP 171152 / 241739

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL NSH
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL NSH

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-25516-1
SDG: SAP 171152 / 241739

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C789	07-19-13



COOLER RECEIPT FORM



Cooler Received/Opened On 5/1/2013 @ 0800

1. Tracking # 6234 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 97310166

2. Temperature of rep. sample or temp blank when opened: 1.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (Initial) NH

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (Initial) NH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Initial) NH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (Initial) NH

I certify that I attached a label with the unique LIMS number to each container (initial) NH

21. Were there Non-Conformance Issues at login? YES...NO Was a NCM generated? YES...NO...



COOLER RECEIPT FORM

Loc: 490
25516

Cooler Received/Opened On 5/1/2013 @ 0800

1. Tracking # 6245 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 23 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 10 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (Initial) WA

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1/5

I certify that I unloaded the cooler and answered questions 7-14 (Initial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Initial) D

17. Were custody papers properly filled out (Ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (Initial) _____

I certify that I attached a label with the unique LIMS number to each container (Initial) _____

21. Were there Non-Conformance Issues at login? YES...NO Was a NCM generated? YES...NO...# _____



Shell Oil Products Chain of Custody Record



OUSOURCE ()

SFL Houston ()

XENO ()

TEST AMERICA ()

OTHER ()

LAB (LOCATION)

Blaine Tech Services

20735 Bealew Avenue, Carson, CA 90746

PROJECT CONTACT: *[Signature]*

PROJECT CONTACT PHONE: (310) 637-8802

PROJECT CONTACT FAX: (310) 637-8802

STANDARD (14 DAY) 5 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

LA - RWOOD REPORT FORMAT LIST AGENCY

INCIDENT # (ENV SERVICES): **97605410**

DATE: **4/30/13**

PAGE: **1 of 1**

PRINT BILL TO CONTACT NAME: **Christina McClelland - 241739.2012.02**

PO # **171152**

SAP # **171152**

SHIP ADDRESS, Street and City: **6808 196th SL SW, Lynnwood**

STATE: **WA**

POSTAL CODE: **425-563-6500**

CITY: **CRA, Seattle, WA**

CONSULTANT PROJECT NO.: **130130-181**

PROJECT CONTACT: **Lee Bores**

PLEASE CHECK APPROPRIATE BOX:

ENV. SERVICES MOTIVA RETAIL SHELL RETAIL

MOTIVA SUACK CONSULTANT LUMES

SHELL PIPELINE OTHER

SPECIAL INSTRUCTIONS OR NOTES:

1) Please upload the "CRA EOUS 4-File EDD" to the CRA Website (<http://trabackupboard.craworld.com/eous4file.asp>) and/or send it to the Shell-US-LabDataManagement@craworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@craworld.com email folder.

Copy final report to ShellLab.Billing@craworld.com, Shell.results@craworld.com, and Shell-US-LabDataManagement@craworld.com

Email Invoice to ShellLab.Billing@craworld.com

See Laboratory PHL for WIA Dept. of Ecology MITCA Method A cleanup levels for petroleum distillation Emits.

SAMPLE ID	PROJECT NUMBER	DATE (MM/DD/YY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	PRESERVATIVE			NO. OF CONT.		
							HCL	HNO3	H2SO4		NONE	OTHER
1 GW	241739	042013	LB	MW-1	1606	W6	X			8		
2 GW	241739	042013	LB	MW-2	0930	W6	X			8		
3 GW	241739	042013	LB	MW-6	0739	W6	X			8		
4 GW	241739	042013	LB	MW-7	0652	W6	X			8		
5 GW	241739	042013	LB	MW-8	1117	W6	X			8		
6 GW	241739	042013	LB	MW-9	0817	W6	X			8		
7 GW	241739	042013	LB	MW-10	1042	W6	X			8		

TEMPERATURE ON RECEIPT °C

Temp 1.2, 2.3

CONTAINER PD READINGS or LABORATORY NOTES

Temp 1.2, 2.3

REQUESTED ANALYSIS

Loc: 490

25516

ANALYSIS	Y	N
5 Oxygenates, MTBE, TBA, DPR, TAME, ETBE (8280B)	X	
BTEX (8280B)	X	
NWTP-H x W/Silica Gel Cleanup	X	
EDC (8280B)	X	
EDC (8011)		
Total Lead (8020)		
PCBs (8082)		
PAHs (8070 SIM)		
VOCs Full list (8290B)		
Peak (8080)		
NWTPH-VPH		
NWTPH-EPH		
TPH-O	X	
MTBE (8280B)	X	

SIGNED BY:

Received by: (Signature) *[Signature]*

Date: **4/30/13**

Received by: (Signature) *[Signature]*

Date: **5/1/13**

Received by: (Signature)

Date: **05:00**

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

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 490-25516-1
SDG Number: SAP 171152 / 241739

Login Number: 25516
List Number: 1
Creator: Himmelck, John

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-38767-1
TestAmerica Sample Delivery Group: SAP 171152 / 241739
Client Project/Site: 6808 196th St. SW, Lynnwood, WA

For:
Conestoga-Rovers & Associates, Inc.
20818 44th Ave W
Suite 190
Lynnwood, Washington 98036

Attn: Christina McClelland



Authorized for release by:
11/8/2013 1:45:34 PM

Ryan Fitzwater, Senior Project Manager
(615)726-0177
ryan.fitzwater@testamericainc.com

LINKS

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results through
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Have a Question?

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The
Expert**

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
SDG: SAP 171152 / 241739

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-38767-1	GW-241739-102413-LB-MW-1	Ground Water	10/24/13 12:38	10/25/13 08:15
490-38767-2	GW-241739-102413-LB-MW-2	Ground Water	10/24/13 11:08	10/25/13 08:15
490-38767-3	GW-241739-102413-LB-MW-6	Ground Water	10/24/13 08:57	10/25/13 08:15
490-38767-4	GW-241739-102413-LB-MW-7	Ground Water	10/24/13 10:22	10/25/13 08:15
490-38767-5	GW-241739-102413-LB-MW-9	Ground Water	10/24/13 09:39	10/25/13 08:15
490-38767-6	GW-241739-102413-LB-MW-10	Ground Water	10/24/13 11:53	10/25/13 08:15

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
SDG: SAP 171152 / 241739

Job ID: 490-38767-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-38767-1

Comments

No additional comments.

Receipt

The samples were received on 10/25/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.3° C and 0.5° C.

GC/MS VOA

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-102413-LB-MW-2

Lab Sample ID: 490-38767-2

Date Collected: 10/24/13 11:08

Matrix: Ground Water

Date Received: 10/25/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	61.3		1.00		ug/L			10/31/13 19:04	1
Ethylbenzene	6.49		1.00		ug/L			10/31/13 19:04	1
Xylenes, Total	3.52		2.00		ug/L			10/31/13 19:04	1
Toluene	1.03		1.00		ug/L			10/31/13 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130		10/31/13 19:04	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		10/31/13 19:04	1
Toluene-d8 (Surr)	97		70 - 130		10/31/13 19:04	1
Dibromofluoromethane (Surr)	104		70 - 130		10/31/13 19:04	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	2350		100		ug/L			11/07/13 05:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	119		50 - 150		11/07/13 05:19	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	527		93.5		ug/L		10/30/13 15:28	10/31/13 18:14	1
C24-C40	181		93.5		ug/L		10/30/13 15:28	10/31/13 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	107		50 - 150	10/30/13 15:28	10/31/13 18:14	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-102413-LB-MW-6

Lab Sample ID: 490-38767-3

Date Collected: 10/24/13 08:57

Matrix: Ground Water

Date Received: 10/25/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Benzene	ND		1.00		ug/L			10/31/13 17:12	1
Ethylbenzene	ND		1.00		ug/L			10/31/13 17:12	1
Xylenes, Total	ND		2.00		ug/L			10/31/13 17:12	1
Toluene	ND		1.00		ug/L			10/31/13 17:12	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	DII Fac
4-Bromofluorobenzene (Surr)	93		70 - 130		10/31/13 17:12	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		10/31/13 17:12	1
Toluene-d8 (Surr)	96		70 - 130		10/31/13 17:12	1
Dibromofluoromethane (Surr)	105		70 - 130		10/31/13 17:12	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
C6-C12	ND		100		ug/L			10/31/13 20:47	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	DII Fac
a,a,a-Trifluorotoluene	88		50 - 150		10/31/13 20:47	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
C10-C24	124		93.5		ug/L		10/30/13 15:28	10/31/13 18:29	1
C24-C40	123		93.5		ug/L		10/30/13 15:28	10/31/13 18:29	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	DII Fac
o-Terphenyl	99		50 - 150	10/30/13 15:28	10/31/13 18:29	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-102413-LB-MW-7

Lab Sample ID: 490-38767-4

Date Collected: 10/24/13 10:22

Matrix: Ground Water

Date Received: 10/25/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			10/31/13 17:40	1
Ethylbenzene	ND		1.00		ug/L			10/31/13 17:40	1
Xylenes, Total	ND		2.00		ug/L			10/31/13 17:40	1
Toluene	ND		1.00		ug/L			10/31/13 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130		10/31/13 17:40	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		10/31/13 17:40	1
Toluene-d8 (Surr)	97		70 - 130		10/31/13 17:40	1
Dibromofluoromethane (Surr)	103		70 - 130		10/31/13 17:40	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			10/31/13 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	83		50 - 150		10/31/13 21:16	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.5		ug/L		10/30/13 15:28	10/31/13 18:44	1
C24-C40	106		93.5		ug/L		10/30/13 15:28	10/31/13 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	107		50 - 150	10/30/13 15:28	10/31/13 18:44	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-102413-LB-MW-9

Lab Sample ID: 490-38767-5

Date Collected: 10/24/13 09:39

Matrix: Ground Water

Date Received: 10/25/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			10/31/13 18:08	1
Ethylbenzene	ND		1.00		ug/L			10/31/13 18:08	1
Xylenes, Total	ND		2.00		ug/L			10/31/13 18:08	1
Toluene	ND		1.00		ug/L			10/31/13 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130		10/31/13 18:08	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		10/31/13 18:08	1
Toluene-d8 (Surr)	95		70 - 130		10/31/13 18:08	1
Dibromofluoromethane (Surr)	107		70 - 130		10/31/13 18:08	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			10/31/13 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	83		50 - 150		10/31/13 21:46	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		94.3		ug/L		10/30/13 15:28	10/31/13 19:00	1
C24-C40	ND		94.3		ug/L		10/30/13 15:28	10/31/13 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	104		50 - 150	10/30/13 15:28	10/31/13 19:00	1

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
SDG: SAP 171152 / 241739

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-102413-LB-MW-1

Lab Sample ID: 490-38767-1

Date Collected: 10/24/13 12:38

Matrix: Ground Water

Date Received: 10/25/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Benzene	28.8		1.00		ug/L			10/31/13 18:36	1
Ethylbenzene	7.91		1.00		ug/L			10/31/13 18:36	1
Xylenes, Total	7.82		2.00		ug/L			10/31/13 18:36	1
Toluene	ND		1.00		ug/L			10/31/13 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	DII Fac
4-Bromofluorobenzene (Surr)	95		70 - 130		10/31/13 18:36	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		10/31/13 18:36	1
Toluene-d8 (Surr)	96		70 - 130		10/31/13 18:36	1
Dibromofluoromethane (Surr)	105		70 - 130		10/31/13 18:36	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
C6-C12	445		100		ug/L			11/07/13 03:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	DII Fac
a,a,a-Trifluorotoluene	106		50 - 150		11/07/13 03:46	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
C10-C24	898		93.5		ug/L		10/30/13 15:28	10/31/13 17:43	1
C24-C40	172		93.5		ug/L		10/30/13 15:28	10/31/13 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	DII Fac
o-Terphenyl	97		50 - 150	10/30/13 15:28	10/31/13 17:43	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-102413-LB-MW-10

Lab Sample ID: 490-38767-6

Date Collected: 10/24/13 11:53

Matrix: Ground Water

Date Received: 10/25/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5630		50.0		ug/L			11/06/13 21:18	50
Ethylbenzene	582		50.0		ug/L			11/06/13 21:18	50
Xylenes, Total	1230		100		ug/L			11/06/13 21:18	50
Toluene	188		1.00		ug/L			10/31/13 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130		10/31/13 19:32	1
4-Bromofluorobenzene (Surr)	97		70 - 130		11/06/13 21:18	50
1,2-Dichloroethane-d4 (Surr)	76		70 - 130		10/31/13 19:32	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		11/06/13 21:18	50
Toluene-d8 (Surr)	96		70 - 130		10/31/13 19:32	1
Toluene-d8 (Surr)	99		70 - 130		11/06/13 21:18	50
Dibromofluoromethane (Surr)	104		70 - 130		10/31/13 19:32	1
Dibromofluoromethane (Surr)	99		70 - 130		11/06/13 21:18	50

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	6890		5000		ug/L			11/01/13 19:02	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	83		50 - 150		11/01/13 19:02	50

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	2080		187		ug/L		10/30/13 15:28	11/01/13 10:03	2
C24-C40	109		93.5		ug/L		10/30/13 15:28	10/31/13 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	102		50 - 150	10/30/13 15:28	10/31/13 19:15	1

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
 SDG: SAP 171152 / 241739

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-118358/7
Matrix: Water
Analysis Batch: 118358

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
	Result	Qualifier							
Benzene	ND		1.00		ug/L			10/31/13 15:48	1
Ethylbenzene	ND		1.00		ug/L			10/31/13 15:48	1
Xylenes, Total	ND		2.00		ug/L			10/31/13 15:48	1
Toluene	ND		1.00		ug/L			10/31/13 15:48	1

Surrogate	MB MB		Limits	Prepared	Analyzed	DII Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	94		70 - 130		10/31/13 15:48	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		10/31/13 15:48	1
Toluene-d8 (Surr)	96		70 - 130		10/31/13 15:48	1
Dibromofluoromethane (Surr)	104		70 - 130		10/31/13 15:48	1

Lab Sample ID: LCS 490-118358/3
Matrix: Water
Analysis Batch: 118358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	50.0	46.89		ug/L		94	80 - 121
Ethylbenzene	50.0	47.30		ug/L		95	80 - 130
Xylenes, Total	100	91.56		ug/L		92	80 - 132
Toluene	50.0	47.37		ug/L		95	80 - 126

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130

Lab Sample ID: LCSD 490-118358/4
Matrix: Water
Analysis Batch: 118358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
		Result	Qualifier						
Benzene	50.0	47.12		ug/L		94	80 - 121	0	17
Ethylbenzene	50.0	46.64		ug/L		93	80 - 130	1	15
Xylenes, Total	100	90.07		ug/L		90	80 - 132	2	15
Toluene	50.0	46.56		ug/L		93	80 - 126	2	15

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
SDG: SAP 171152 / 241739

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-38767-3 MS

Client Sample ID: GW-241739-102413-LB-MW-6

Matrix: Ground Water

Prep Type: Total/NA

Analysis Batch: 118358

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Benzene	ND		50.0	49.75		ug/L		100	75 - 133
Ethylbenzene	ND		50.0	48.21		ug/L		96	79 - 139
Xylenes, Total	ND		100	93.54		ug/L		94	74 - 141
Toluene	ND		50.0	48.88		ug/L		98	75 - 136

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130

Lab Sample ID: 490-38767-3 MSD

Client Sample ID: GW-241739-102413-LB-MW-6

Matrix: Ground Water

Prep Type: Total/NA

Analysis Batch: 118358

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	RPD	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Benzene	ND		50.0	48.27		ug/L		97	75 - 133	3		17
Ethylbenzene	ND		50.0	46.66		ug/L		93	79 - 139	3		15
Xylenes, Total	ND		100	90.02		ug/L		90	74 - 141	4		15
Toluene	ND		50.0	47.56		ug/L		95	75 - 136	3		15

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	92		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130

Lab Sample ID: MB 490-119758/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 119758

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
	Result	Qualifier							
Benzene	ND		1.00		ug/L			11/06/13 13:54	1
Ethylbenzene	ND		1.00		ug/L			11/06/13 13:54	1
Xylenes, Total	ND		2.00		ug/L			11/06/13 13:54	1
Toluene	ND		1.00		ug/L			11/06/13 13:54	1

Surrogate	MB		Limits	Prepared	Analyzed	DII Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	98		70 - 130		11/06/13 13:54	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		11/06/13 13:54	1
Toluene-d8 (Surr)	102		70 - 130		11/06/13 13:54	1
Dibromofluoromethane (Surr)	97		70 - 130		11/06/13 13:54	1

TestAmerica Nashville

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
 SDG: SAP 171152 / 241739

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-119758/3

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 119758

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	50.0	59.36		ug/L		119	80 - 121
Ethylbenzene	50.0	49.57		ug/L		99	80 - 130
Xylenes, Total	100	109.0		ug/L		109	80 - 132
Toluene	50.0	54.78		ug/L		110	80 - 126

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Toluene-d8 (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130

Lab Sample ID: LCSD 490-119758/4

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 119758

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	50.0	58.88		ug/L		118	80 - 121	1	17
Ethylbenzene	50.0	49.82		ug/L		100	80 - 130	1	15
Xylenes, Total	100	109.9		ug/L		110	80 - 132	1	15
Toluene	50.0	55.76		ug/L		112	80 - 126	2	15

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Toluene-d8 (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 490-118515/5

Client Sample ID: Method Blank
 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 118515

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
	Result	Qualifier							
C6-C12	ND		100		ug/L			10/31/13 17:18	1

Surrogate	MB		Limits	Prepared	Analyzed	DII Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene	87		50 - 150		10/31/13 17:18	1

Lab Sample ID: LCS 490-118515/3

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 118515

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
C6-C12	1000	987.9		ug/L		99	39 - 143

TestAmerica Nashville

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
 SDG: SAP 171152 / 241739

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 490-118515/3
Matrix: Water
Analysis Batch: 118515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	101		50 - 150

Lab Sample ID: LCSD 490-118515/27
Matrix: Water
Analysis Batch: 118515

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C12	1000	922.5		ug/L		92	39 - 143	7	18

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	93		50 - 150

Lab Sample ID: 490-39048-E-1 DU
Matrix: Water
Analysis Batch: 118515

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
C6-C12	ND		ND		ug/L		NC	18

Surrogate	DU %Recovery	DU Qualifier	Limits
a,a,a-Trifluorotoluene	88		50 - 150

Lab Sample ID: MB 490-118656/5
Matrix: Water
Analysis Batch: 118656

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			11/01/13 14:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	85		50 - 150		11/01/13 14:15	1

Lab Sample ID: LCS 490-118656/3
Matrix: Water
Analysis Batch: 118656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C12	1000	974.9		ug/L		97	39 - 143

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	99		50 - 150

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
 SDG: SAP 171152 / 241739

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 490-118656/15

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 118656

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C12	1000	988.2		ug/L		99	39 - 143	1	18
Surrogate		LCSD %Recovery	LCSD Qualifier						Limits
a,a,a-Trifluorotoluene		99							50 - 150

Lab Sample ID: MB 490-119839/5

Client Sample ID: Method Blank
 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 119839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			11/07/13 01:42	1
Surrogate		MB %Recovery					Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene		97						11/07/13 01:42	1

Lab Sample ID: LCS 490-119839/3

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 119839

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6-C12	1000	1303		ug/L		130	39 - 143		
Surrogate		LCS %Recovery	LCS Qualifier						Limits
a,a,a-Trifluorotoluene		140							50 - 150

Lab Sample ID: LCSD 490-119839/22

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 119839

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C12	1000	1092		ug/L		109	39 - 143	18	18
Surrogate		LCSD %Recovery	LCSD Qualifier						Limits
a,a,a-Trifluorotoluene		146							50 - 150

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Lab Sample ID: MB 490-118213/1-A

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 118213

Matrix: Water

Analysis Batch: 118483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		100		ug/L		10/30/13 14:27	10/31/13 17:13	1
C24-C40	ND		100		ug/L		10/30/13 14:27	10/31/13 17:13	1

TestAmerica Nashville

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
 SDG: SAP 171152 / 241739

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup
(Continued)

Lab Sample ID: MB 490-118213/1-A
 Matrix: Water
 Analysis Batch: 118483

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 118213

Surrogate	MB MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl		99		50 - 150	10/30/13 14:27	10/31/13 17:13	1

Lab Sample ID: LCS 490-118213/2-A
 Matrix: Water
 Analysis Batch: 118483

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 118213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C24	1000	941.3		ug/L		94	51 - 132

Surrogate	LCS LCS	%Recovery	Qualifier	Limits
o-Terphenyl		115		50 - 150

Lab Sample ID: 490-38767-1 DU
 Matrix: Ground Water
 Analysis Batch: 118483

Client Sample ID: GW-241739-102413-LB-MW-1
 Prep Type: Total/NA
 Prep Batch: 118213

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
C10-C24	898		1107		ug/L		21	41
C24-C40	172		291.4	F	ug/L		51	41

Surrogate	DU DU	%Recovery	Qualifier	Limits
o-Terphenyl		108		50 - 150

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
 SDG: SAP 171152 / 241739

GC/MS VOA

Analysis Batch: 118358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-38767-1	GW-241739-102413-LB-MW-1	Total/NA	Ground Water	8260B	
490-38767-2	GW-241739-102413-LB-MW-2	Total/NA	Ground Water	8260B	
490-38767-3	GW-241739-102413-LB-MW-6	Total/NA	Ground Water	8260B	
490-38767-3 MS	GW-241739-102413-LB-MW-6	Total/NA	Ground Water	8260B	
490-38767-3 MSD	GW-241739-102413-LB-MW-6	Total/NA	Ground Water	8260B	
490-38767-4	GW-241739-102413-LB-MW-7	Total/NA	Ground Water	8260B	
490-38767-5	GW-241739-102413-LB-MW-9	Total/NA	Ground Water	8260B	
490-38767-6	GW-241739-102413-LB-MW-10	Total/NA	Ground Water	8260B	
LCS 490-118358/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-118358/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-118358/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 119758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-38767-6	GW-241739-102413-LB-MW-10	Total/NA	Ground Water	8260B	
LCS 490-119758/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-119758/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-119758/7	Method Blank	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 118515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-38767-3	GW-241739-102413-LB-MW-6	Total/NA	Ground Water	NWTPH-Gx	
490-38767-4	GW-241739-102413-LB-MW-7	Total/NA	Ground Water	NWTPH-Gx	
490-38767-5	GW-241739-102413-LB-MW-9	Total/NA	Ground Water	NWTPH-Gx	
490-39048-E-1 DU	Duplicate	Total/NA	Water	NWTPH-Gx	
LCS 490-118515/3	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 490-118515/27	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
MB 490-118515/5	Method Blank	Total/NA	Water	NWTPH-Gx	

Analysis Batch: 118656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-38767-6	GW-241739-102413-LB-MW-10	Total/NA	Ground Water	NWTPH-Gx	
LCS 490-118656/3	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 490-118656/15	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
MB 490-118656/5	Method Blank	Total/NA	Water	NWTPH-Gx	

Analysis Batch: 119839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-38767-1	GW-241739-102413-LB-MW-1	Total/NA	Ground Water	NWTPH-Gx	
490-38767-2	GW-241739-102413-LB-MW-2	Total/NA	Ground Water	NWTPH-Gx	
LCS 490-119839/3	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 490-119839/22	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
MB 490-119839/5	Method Blank	Total/NA	Water	NWTPH-Gx	

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
 SDG: SAP 171152 / 241739

GC Semi VOA

Prep Batch: 118213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-38767-1	GW-241739-102413-LB-MW-1	Total/NA	Ground Water	3510C	
490-38767-1 DU	GW-241739-102413-LB-MW-1	Total/NA	Ground Water	3510C	
490-38767-2	GW-241739-102413-LB-MW-2	Total/NA	Ground Water	3510C	
490-38767-3	GW-241739-102413-LB-MW-6	Total/NA	Ground Water	3510C	
490-38767-4	GW-241739-102413-LB-MW-7	Total/NA	Ground Water	3510C	
490-38767-5	GW-241739-102413-LB-MW-9	Total/NA	Ground Water	3510C	
490-38767-6	GW-241739-102413-LB-MW-10	Total/NA	Ground Water	3510C	
LCS 490-118213/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-118213/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 118483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-38767-1	GW-241739-102413-LB-MW-1	Total/NA	Ground Water	NWTPH-Dx	118213
490-38767-1 DU	GW-241739-102413-LB-MW-1	Total/NA	Ground Water	NWTPH-Dx	118213
490-38767-2	GW-241739-102413-LB-MW-2	Total/NA	Ground Water	NWTPH-Dx	118213
490-38767-3	GW-241739-102413-LB-MW-6	Total/NA	Ground Water	NWTPH-Dx	118213
490-38767-4	GW-241739-102413-LB-MW-7	Total/NA	Ground Water	NWTPH-Dx	118213
490-38767-5	GW-241739-102413-LB-MW-9	Total/NA	Ground Water	NWTPH-Dx	118213
490-38767-6	GW-241739-102413-LB-MW-10	Total/NA	Ground Water	NWTPH-Dx	118213
490-38767-6	GW-241739-102413-LB-MW-10	Total/NA	Ground Water	NWTPH-Dx	118213
LCS 490-118213/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	118213
MB 490-118213/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	118213

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-102413-LB-MW-1

Lab Sample ID: 490-38767-1

Date Collected: 10/24/13 12:38

Matrix: Ground Water

Date Received: 10/25/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	118358	10/31/13 18:36	BJM	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	119839	11/07/13 03:46	KML	TAL NSH
Total/NA	Prep	3510C			118213	10/30/13 15:28	RCH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	118483	10/31/13 17:43	JML	TAL NSH

Client Sample ID: GW-241739-102413-LB-MW-2

Lab Sample ID: 490-38767-2

Date Collected: 10/24/13 11:08

Matrix: Ground Water

Date Received: 10/25/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	118358	10/31/13 19:04	BJM	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	119839	11/07/13 05:19	KML	TAL NSH
Total/NA	Prep	3510C			118213	10/30/13 15:28	RCH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	118483	10/31/13 18:14	JML	TAL NSH

Client Sample ID: GW-241739-102413-LB-MW-6

Lab Sample ID: 490-38767-3

Date Collected: 10/24/13 08:57

Matrix: Ground Water

Date Received: 10/25/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	118358	10/31/13 17:12	BJM	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	118515	10/31/13 20:47	KML	TAL NSH
Total/NA	Prep	3510C			118213	10/30/13 15:28	RCH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	118483	10/31/13 18:29	JML	TAL NSH

Client Sample ID: GW-241739-102413-LB-MW-7

Lab Sample ID: 490-38767-4

Date Collected: 10/24/13 10:22

Matrix: Ground Water

Date Received: 10/25/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	118358	10/31/13 17:40	BJM	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	118515	10/31/13 21:16	KML	TAL NSH
Total/NA	Prep	3510C			118213	10/30/13 15:28	RCH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	118483	10/31/13 18:44	JML	TAL NSH

Client Sample ID: GW-241739-102413-LB-MW-9

Lab Sample ID: 490-38767-5

Date Collected: 10/24/13 09:39

Matrix: Ground Water

Date Received: 10/25/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	118358	10/31/13 18:08	BJM	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	118515	10/31/13 21:46	KML	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
 SDG: SAP 171152 / 241739

Client Sample ID: GW-241739-102413-LB-MW-9

Lab Sample ID: 490-38767-5

Date Collected: 10/24/13 09:39

Matrix: Ground Water

Date Received: 10/25/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			118213	10/30/13 15:28	RCH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	118483	10/31/13 19:00	JML	TAL NSH

Client Sample ID: GW-241739-102413-LB-MW-10

Lab Sample ID: 490-38767-6

Date Collected: 10/24/13 11:53

Matrix: Ground Water

Date Received: 10/25/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	118358	10/31/13 19:32	BJM	TAL NSH
Total/NA	Analysis	8260B		50	119758	11/06/13 21:18	BJM	TAL NSH
Total/NA	Analysis	NWTPH-Gx		50	118656	11/01/13 19:02	KML	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	118483	10/31/13 19:15	JML	TAL NSH
Total/NA	Prep	3510C			118213	10/30/13 15:28	RCH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		2	118483	11/01/13 10:03	JML	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
SDG: SAP 171152 / 241739

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL NSH
NWTPH-Dx	Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup	NWTPH	TAL NSH

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood, WA

TestAmerica Job ID: 490-38767-1
SDG: SAP 171152 / 241739

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C789	07-19-14

COOLER RECEIPT FORM



Cooler Received/Opened On 10/25/2013@ 0815

1. Tracking # 2494 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 96210146

2. Temperature of rep. sample or temp blank when opened: 0.5 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA
If yes, how many and where: one front

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA
DA

I certify that I opened the cooler and answered questions 1-6 (Initial) DA

7. Were custody seals on containers: (YES) NO and Intact YES...NO...NA
Were these signed and dated correctly? (YES)...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA
b. Was there any observable headspace present in any VOA vial? YES...(NO)...NA

14. Was there a Trip Blank in this cooler? YES...(NO)...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (Initial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Initial) CA

17. Were custody papers properly filled out (Ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (Initial) CA

I certify that I attached a label with the unique LIMS number to each container (Initial) CA

21. Were there Non-Conformance issues at login? YES...(NO) Was a NCM generated? YES...(NO) # _____

COOLER RECEIPT FORM

Cooler Received/Opened On 10/25/2013 @ 0815

1. Tracking # 2347 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 0.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO.. NA

4. Were custody seals on outside of cooler? YES..NO...NA

If yes, how many and where: (1) Front

5. Were the seals intact, signed, and dated correctly? YES..NO...NA

6. Were custody papers inside cooler? YES..NO...NA

I certify that I opened the cooler and answered questions 1-6 (Initial) MDM

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES..NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES..NO...NA

12. Did all container labels and tags agree with custody papers? YES..NO...NA

13a. Were VOA vials received? YES.. NO..NA

b. Was there any observable headspace present in any VOA vial? YES...NO.. NA

14. Was there a Trip Blank in this cooler? YES...NO.. NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (Initial) MD

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO.. NA

b. Did the bottle labels indicate that the correct preservatives were used YES..NO...NA

16. Was residual chlorine present? YES...NO.. NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Initial) Ch

17. Were custody papers properly filled out (ink, signed, etc)? YES..NO...NA

18. Did you sign the custody papers in the appropriate place? YES..NO...NA

19. Were correct containers used for the analysis requested? YES..NO...NA

20. Was sufficient amount of sample sent in each container? YES..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (Initial) Ch

I certify that I attached a label with the unique LIMS number to each container (Initial) Ch

21. Were there Non-Conformance issues at login? YES... NO Was a NCM generated? YES.. NO...# _____

Shell Oil Products Chain Of Custody Record



LAB (LOCATION)
 OILSCIENCE
 S.F. HOUSTON
 XEROX
 TEST AMERICA
 OTHER

LAB (LOCATION)
 BLAINE TECH SERVICES
 S.W. SERVICES
 MOTIVA RETAIL
 MOTIVA SIKON
 CONSULTANT
 LUBES
 OTHER

INCIDENT # (ENV. SERVICES)
 9 7 6 0 5 4 1 0

DATE: 10/24/13
PAGE: 1 of 1

PRINT BILL TO CONTACT NAME: Christina McKelland - 241739-2012.02
PO #:

CONSULTANT PROJECT NO.: 131024-LB1

CLIENT PROJECT NO.:

STATE: WA
CITY: Lynnwood
ADDRESS: 6808 196th St. SW, Lynnwood
PHONE: 425-563-6600
EMAIL: Shell-US-LabDataManagement@CRAworld.com

SHIP TO: LEE BURES

TURNAROUND TIME (CALENDAR DAYS):
 STANDARD (2-4 DAY) 5 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

LA - RWQDS REPORT FORMAT: UST AGENCY: SHELL CONTRACT RATE APPLIES
 STATE REIMBURSEMENT RATE APPLIES
 END NOT NEEDED
 RECEIPT VERIFICATION REQUESTED

SPECIAL INSTRUCTIONS OR NOTES:
 1) Please upload the "CRA EDD" to the CRA Website (http://craialedupload.craworld.com/reqs/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.

Copy final report to Shell Lab. Billing@CRAworld.com, Shell_results@CRAworld.com, and Shell-US-LabDataManagement@CRAworld.com

Email invoice to Shell Lab. Billing@CRAworld.com
See Laboratory Bill for WA Dept. of Ecology MTRCA Method A cleanup levels for minimum detection limits.

LAB USE ONLY	PROJECT NUMBER	DATE (MM/DD/YY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	PRESERVATIVE				NO. OF CONT.	TEMPERATURE ON RECEIPT C°
							HCL	HNO3	H2SO4	OTHER		
GW	241739	102413	LB	MW-1	1230	WG	X				8	0.5, 0.3
GW	241739	102413	LB	MW-2	1108	WG	X				8	
GW	241739	102413	LB	MW-6	0857	WG	X				8	
GW	241739	102413	LB	MW-7	1022	WG	X				8	
GW	241739	102413	LB	MW-9	0759	WG	X				8	
GW	241739	102413	LB	MW-10	1153	WG	X				8	
REQUESTED ANALYSIS NWTPH-GX X NWTPH-DX w/Silica Gel Cleanup X BTEX (826B) X 8 Oxygenates, MTBE, TBA, DIP, TAMR, ETBE X EDC (826B) X EDC (8011) X Total Lead (6020) X PCBs (8082) X PAHs (8070 SIM) X VOCs Full list (826B) X Post (8080) X NWTPH-VPH X NWTPH-EPH X TPH-0 X MTBE (826B) X Sulfate/Gel Cleanup X												
RECEIVED BY: (Signature) <i>Shepard Vea Fedex</i> Date: 10/24/13 RECEIVED BY: (Signature) <i>TAN</i> Date: 10-25-13 RECEIVED BY: (Signature) Date: 0815												

1
2
3
4
5
6

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 490-38767-1
SDG Number: SAP 171152 / 241739

Login Number: 38767

List Number: 1

Creator: Huckaba, Jimmy

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

