



**CONESTOGA-ROVERS  
& ASSOCIATES**

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## TRANSMITTAL

DATE: February 15, 2012 REFERENCE NO.: 060119  
PROJECT NAME: 2350 (2368) Harrison Street, Oakland  
TO: Jerry Wickham  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

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12:48 pm, Feb 16, 2012  
Alameda County  
Environmental Health

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 Prints

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 Overnight Courier  Other GeoTracker and Alameda County FTP

QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report - Fourth Quarter 2011

As Requested  For Review and Comment  
 For Your Use  \_\_\_\_\_  
 \_\_\_\_\_

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

Copy to: Denis Brown, Shell Oil Products US (electronic copy)  
Richard Burge (property owner) , 490 Grand Avenue, Suite 100, Oakland, CA 94610

Completed by: Peter Schaefer Signed: *Aubrey Cool*

Filing: Correspondence File



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

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

Re: Former Shell Service Station  
2350 (2368) Harrison Street  
Oakland, California  
SAP Code 173318  
Incident No. 97743969  
ACEH No. RO0000505

Dear Mr. Wickham:

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Denis Brown", is located below the "Sincerely," text.

Denis L. Brown  
Senior Program Manager



## **GROUNDWATER MONITORING REPORT - FOURTH QUARTER 2011**

**FORMER SHELL SERVICE STATION  
2350 (2368) HARRISON STREET  
OAKLAND, CALIFORNIA**

**SAP CODE           173318  
INCIDENT NO.    97743969  
AGENCY NO.      RO0000505**

**FEBRUARY 15, 2012  
REF. NO. 060119 (23)**  
This report is printed on recycled paper.

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

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## 1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell).

### 1.1 SITE INFORMATION

Site Address	2350 (2368) Harrison Street, Oakland
Site Use	7-Eleven Store
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0000505
Shell SAP Code	173318
Shell Incident No.	97743969

Date of most recent agency correspondence was November 17, 2011.

## 2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

### 2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the established monitoring program for this site.

CRA prepared a vicinity map (Figure 1), a groundwater contour and chemical concentration map (Figure 2), and a groundwater data table (Table 1). Blaine's field notes are presented in Appendix A, and the laboratory report is presented in Appendix B.

CRA's October 28, 2011 *Air Exchange Measurement Work Plan* presented a proposal to measure the air exchange rate in the on-site 7-Eleven store building in order to calculate site-specific soil vapor screening levels. The site-specific soil vapor screening levels will be used to assess potential for soil vapor intrusion to the building as requested in

Alameda County Environmental Health's (ACEH's) August 29, 2011 letter and discussed in a telephone conversation between CRA and ACEH on October 4, 2011.

**2.2      CURRENT QUARTER'S FINDINGS**

Groundwater Flow Direction	Variable
Hydraulic Gradient	Variable
Depth to Water	3.80 to 7.00 feet below top of well casing

**2.3      PROPOSED ACTIVITIES**

Blaine will gauge and sample wells according to the established monitoring program for this site. This site is monitored semiannually during the second and fourth quarters, and CRA will issue groundwater monitoring reports semiannually following the sampling events.

As requested in ACEH's November 17, 2011 letter, CRA will submit a report detailing our air exchange measurements in the 7-Eleven store by March 12, 2012.

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

*A. Schaefer* for:

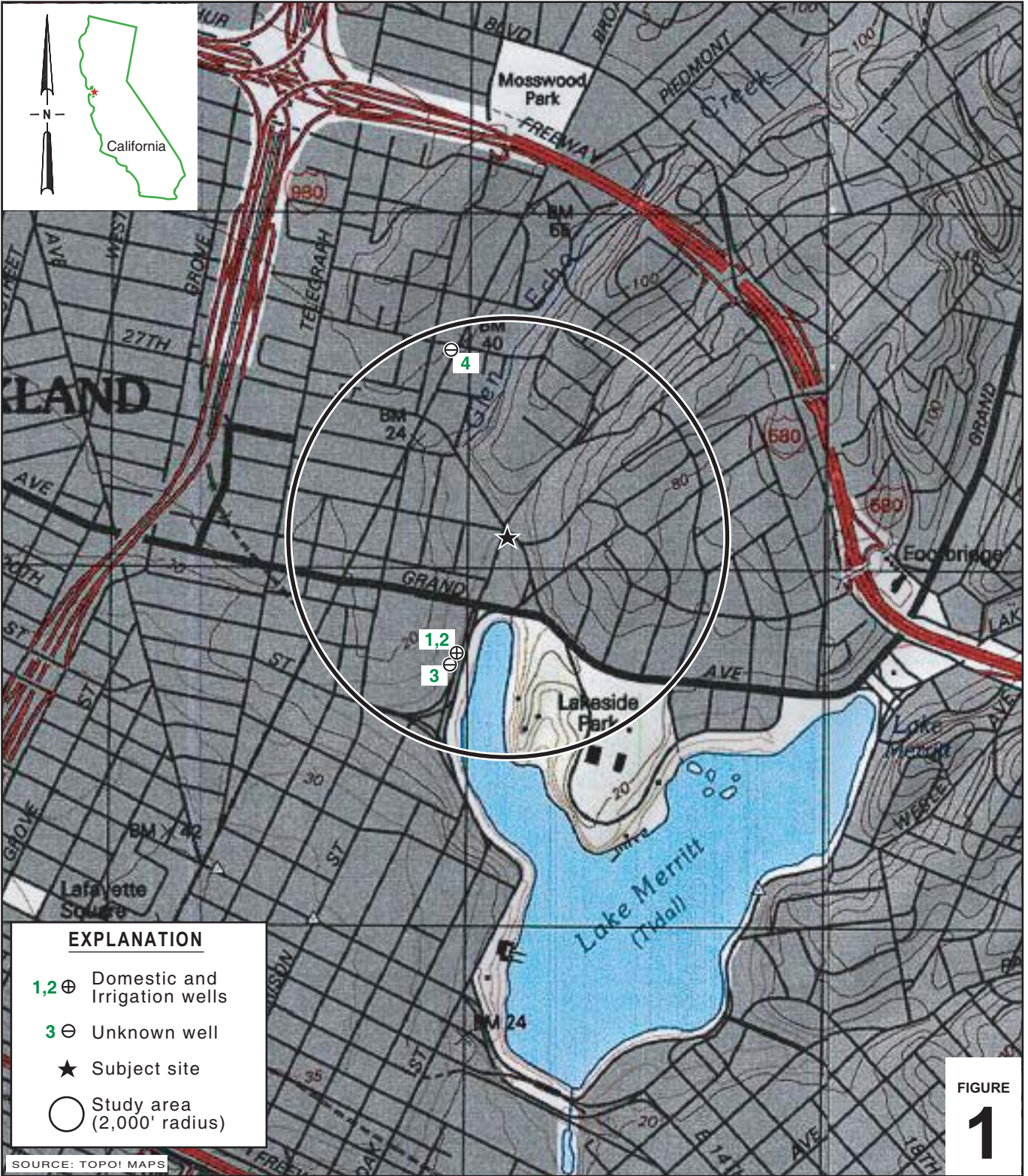
Peter Schaefer, CHG, CEG

*Aubrey K. Cool*  
Aubrey K. Cool, PG





## FIGURES



I:\Shell\6-chars\0601--\060119-Oakland 2350 Harrison St\060119-FIGURES\060119 VICINITY.A1

FIGURE 1

### Former Shell Service Station

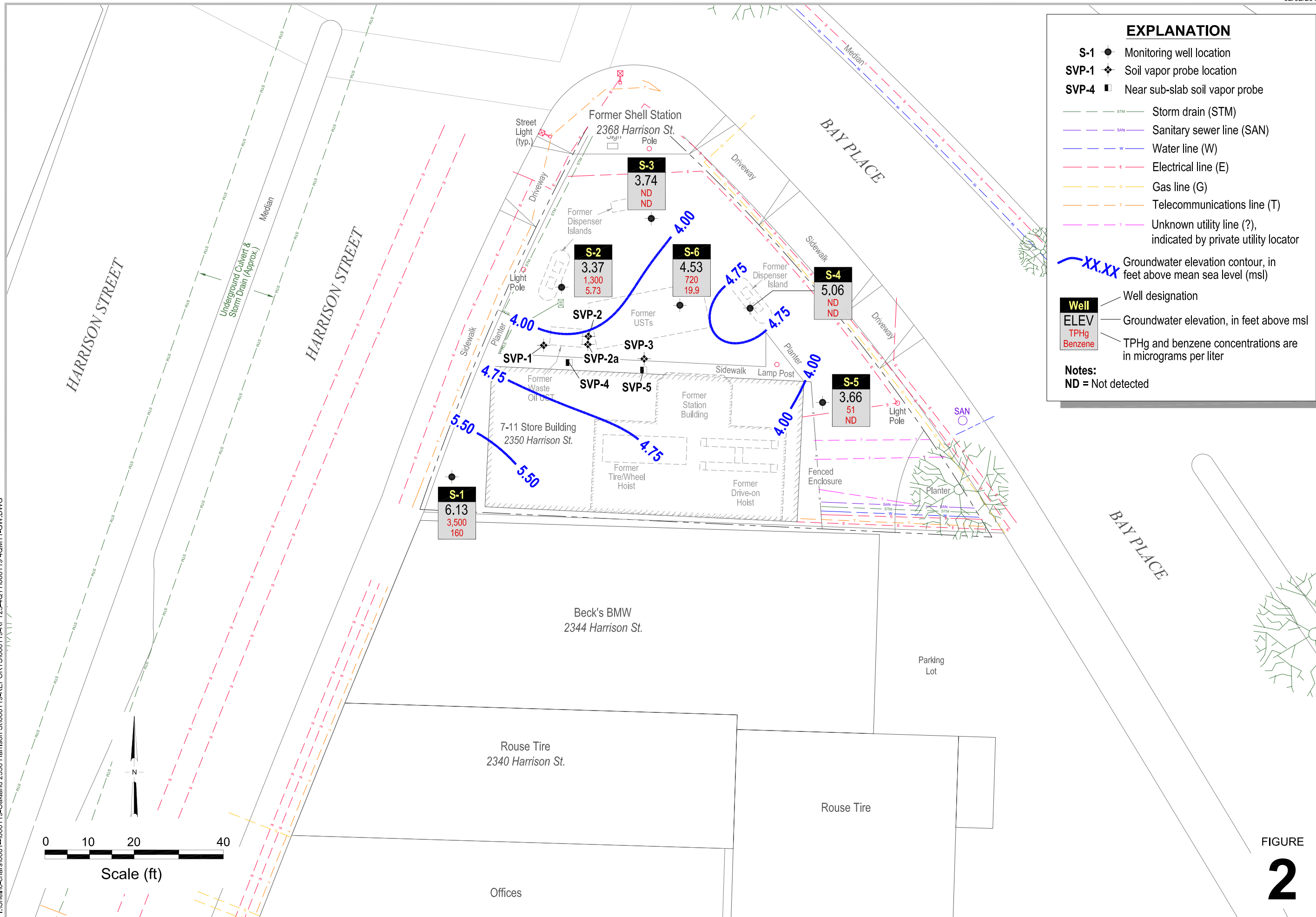
2350 (2368) Harrison Street  
Oakland, California



CONESTOGA-ROVERS & ASSOCIATES

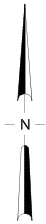
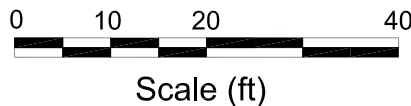
### Vicinity Map

I:\Shell6-chars\0601--060119-Oakland 2350 Harrison St\060119-REPORTS\060119-RPT23-Q111060119-QM11-GW.DWG



FIGURE

2



TABLE

TABLE 1

**GROUNDWATER DATA  
FORMER SHELL SERVICE STATION  
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA**

Well ID	Date	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
S-1	06/09/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.93	5.92	4.01
S-1	06/11/2008	2,500	<250	540 a	1,300	46	<5.0	14	<5.0	<5.0	130	34	<10	<10	<2.5	<5.0	9.93	7.45	2.48
S-1	09/17/2008	2,400	<250	550 a	3,100	180	2.7	78	8.6	<1.0	150	30	<2.0	<2.0	<0.50	<1.0	9.93	5.05	4.88
S-1	12/11/2008	<1,000	<250	570 a	2,900	190	3.0	57	6.1	<1.0	160	31	<2.0	<2.0	<0.50	<1.0	9.93	6.87	3.06
S-1	02/25/2009	1,000	<250	620 a	3,300	270	<5.0	69	6.8	<5.0	180	26	<10	<10	<2.5	<5.0	9.93	4.05	5.88
S-1	05/26/2009	<1,000	---	660 a	1,700	230	<5.0	51	5.3	<5.0	170	32	<10	<10	<2.5	<5.0	9.93	3.34	6.59
S-1	11/30/2009	<1,000	---	510 a	2,200	200	3.0	42	2.6	<2.0	150	25	<4.0	<4.0	<1.0	<2.0	9.93	3.72	6.21
S-1	05/18/2010	<1,000	---	710 a	1,600	180	3.0	34	2.3	<2.0	150	25	<4.0	<4.0	<1.0	<2.0	9.93	5.54	4.39
S-1	12/09/2010	<1,000	---	590 a	2,500	140	2.4	40	2.2	<2.0	130	22	<4.0	<4.0	<1.0	<2.0	9.93	3.62	6.31
S-1	06/24/2011	<4,900	---	660 b	3,000	140	2.4	45	2.8	---	---	---	---	---	---	---	9.93	3.13	6.80
S-1	12/15/2011	<3,920	---	631	3,500	160	2.77	53.9	3.20	---	---	---	---	---	---	---	9.93	3.80	6.13
S-2	06/09/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.37	6.60	3.77
S-2	06/11/2008	1,300	<250	800 a	960	3.0	<5.0	<5.0	<5.0	<5.0	<50	20	<10	<10	<2.5	<5.0	10.37	6.80	3.57
S-2	09/17/2008	<1,000	<250	490 a	1,700	3.4	<1.0	8.3	1.1	<1.0	16	7.3	<2.0	<2.0	<0.50	<1.0	10.37	6.16	4.21
S-2	12/11/2008	<1,000	280	210	1,800	5.2	<1.0	6.9	1.2	<1.0	23	11	<2.0	<2.0	<0.50	<1.0	10.37	6.08	4.29
S-2	02/25/2009	<1,000	<250	590 a	2,100	7.7	2.6	3.8	2.0	<1.0	28	12	<2.0	<2.0	<0.50	<1.0	10.37	5.34	5.03
S-2	05/26/2009	<1,000	---	570 a	1,200	6.2	1.5	3.6	1.4	---	---	---	---	---	---	---	10.37	5.63	4.74
S-2	11/30/2009	<1,000	---	480 a	1,200	4.7	1.3	1.5	1.5	---	---	---	---	---	---	---	10.37	6.17	4.20
S-2	05/18/2010	1,900	---	740 a	1,300	7.3	2.3	1.1	1.9	---	---	---	---	---	---	---	10.37	5.61	4.76
S-2	12/09/2010	1,300	---	490 a	1,600	7.2	2.6	<1.0	2.5	---	---	---	---	---	---	---	10.37	6.33	4.04
S-2	06/24/2011	<4,900	---	420 b	1,500	9.9	2.1	0.80	3.0	---	---	---	---	---	---	---	10.37	6.16	4.21
S-2	12/15/2011	<3,880	---	728	1,300	5.73	1.76	0.580	2.86	---	---	---	---	---	---	---	10.37	7.00	3.37
S-3	06/09/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.49	6.93	3.56
S-3	06/11/2008	2,800	<250	100 a	82	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.49	7.45	3.04
S-3	09/17/2008	1,200	<250	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.49	6.86	3.63
S-3	12/11/2008	<1,000	<250	92	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.49	6.74	3.75
S-3	02/25/2009	<1,000	<250	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.49	6.01	4.48
S-3	05/26/2009	<1,000	---	<50	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.49	6.58	3.91
S-3	11/30/2009	<1,000	---	<50	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.49	6.72	3.77
S-3	05/18/2010	<1,000	---	<50	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.49	6.51	3.98
S-3	12/09/2010	<1,000	---	<50	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.49	6.53	3.96
S-3	06/24/2011	<4,900	---	140 b	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	10.49	6.51	3.98
S-3	12/15/2011	<3,880	---	<47.2	<50	<0.500	<0.500	<0.500	<0.500	---	---	---	---	---	---	---	10.49	6.75	3.74

**GROUNDWATER DATA  
FORMER SHELL SERVICE STATION  
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA**

Well ID	Date	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
S-4	06/09/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.56	7.11	3.45
S-4	06/11/2008	2,400	<250	56 a	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.56	10.92	-0.36
S-4	09/17/2008	<1,000	<250	51	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.56	6.43	4.13
S-4	12/11/2008	4,400	<250	140	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.56	5.71	4.85
S-4	02/25/2009	<1,000	<250	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.56	5.71	4.85
S-4	05/26/2009	<1,000	---	80	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.56	5.72	4.84
S-4	11/30/2009	<1,000	---	<50	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.56	5.67	4.89
S-4	05/18/2010	1,200	---	<50	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.56	6.91	3.65
S-4	12/09/2010	<1,000	---	<50	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.56	5.41	5.15
S-4	06/24/2011	<4,900	---	56 b	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	10.56	5.70	4.86
S-4	12/15/2011	<3,880	---	78.2	<50	<0.500	<0.500	<0.500	<0.500	---	---	---	---	---	---	---	10.56	5.50	5.06
S-5	06/09/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.54	6.64	3.90
S-5	06/11/2008	1,700	<250	80 a	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.54	6.67	3.87
S-5	09/17/2008	<1,000	<250	64 a	60	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.54	6.73	3.81
S-5	12/11/2008	<1,000	<250	63	54	<0.50	<1.0	<1.0	1.1	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.54	6.77	3.77
S-5	02/25/2009	<1,000	<250	<50	100	<0.50	<1.0	1.1	1.1	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.54	6.65	3.89
S-5	05/26/2009	Well inaccessible	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.54	---	---
S-5	11/30/2009	<1,000	---	77	120	<0.50	<1.0	<1.0	1.1	---	---	---	---	---	---	---	10.54	6.91	3.63
S-5	05/18/2010	<1,000	---	140 a	77	<0.50	<1.0	1.1	1.1	---	---	---	---	---	---	---	10.54	6.75	3.79
S-5	12/09/2010	<1,000	---	<50	79	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	10.54	6.71	3.83
S-5	06/24/2011	<4,900	---	410 b	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	10.54	6.80	3.74
S-5	12/15/2011	<3,920	---	241	51	<0.500	<0.500	1.02	1.86	---	---	---	---	---	---	---	10.54	6.88	3.66
S-6	06/09/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.56	6.98	3.58
S-6	06/11/2008	2,700	<250	2,900 a	6,500	180	25	3.9	19.1	<1.0	190	18	<2.0	<2.0	<0.50	<1.0	10.56	7.04	3.52
S-6	09/17/2008	1,200	260 a	3,000 a	8,000	160	16	3.3	14.4	<1.0	65	8.7	<2.0	<2.0	<0.50	<1.0	10.56	6.92	3.64
S-6	12/11/2008	1,200	<250	2,700 a	5,300	120	7.3	<5.0	5.1	<5.0	92	<10	<10	<10	<2.5	<5.0	10.56	4.80	5.76
S-6	02/25/2009	<1,000	<250	1,700 a	6,100	82	6.3	<5.0	<5.0	<5.0	88	<10	<10	<10	<2.5	<5.0	10.56	6.30	4.26
S-6	05/26/2009	<1,000	---	2,100 a	3,400	50	4.0	<1.0	4.6	<1.0	69	7.8	<2.0	<2.0	<0.50	<1.0	10.56	6.87	3.69
S-6	11/30/2009	<1,000	---	950 a	2,200	33	3.6	<1.0	2.1	<1.0	40	4.6	<2.0	<2.0	<0.50	<1.0	10.56	6.94	3.62
S-6	05/18/2010	1,000	---	820 a	1,400	27	5.6	<1.0	2.9	<1.0	62	6.0	<2.0	<2.0	<0.50	<1.0	10.56	6.73	3.83
S-6	12/09/2010	<1,000	---	440 a	1,300	28	4.8	<1.0	2.7	<1.0	34	4.9	<2.0	<2.0	<0.50	<1.0	10.56	6.71	3.85
S-6	06/24/2011	<4,900	---	410 b	860	4.8	1.2	<0.50	<1.0	---	---	---	---	---	---	---	10.56	7.09	3.47
S-6	12/15/2011	<3,880	---	459	720	19.9	3.11	<0.500	2.09	---	---	---	---	---	---	---	10.56	6.03	4.53

TABLE 1

**GROUNDWATER DATA  
FORMER SHELL SERVICE STATION  
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>Oil &amp; Grease (µg/L)</i>	<i>TPHmo (µg/L)</i>	<i>TPHd (µg/L)</i>	<i>TPHg (µg/L)</i>	<i>B (µg/L)</i>	<i>T (µg/L)</i>	<i>E (µg/L)</i>	<i>X (µg/L)</i>	<i>MTBE (µg/L)</i>	<i>TBA (µg/L)</i>	<i>DIPE (µg/L)</i>	<i>ETBE (µg/L)</i>	<i>TAME (µg/L)</i>	<i>1,2-DCA (µg/L)</i>	<i>EDB (µg/L)</i>	<i>TOC (ft MSL)</i>	<i>Depth to Water (ft TOC)</i>	<i>GW Elevation (ft MSL)</i>
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Notes:  
 Oil & grease (as hexane extractable material) analyzed by EPA Method 1664A  
 TPHmo = Total petroleum hydrocarbons as motor oil analyzed by EPA Method 8015B (M) with silica gel cleanup  
 TPHd = Total petroleum hydrocarbons as diesel analyzed by modified EPA Method 8015 with silica gel cleanup unless otherwise noted  
 TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B  
 BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B  
 MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B  
 TBA = Tertiary-butyl alcohol 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-amyl methyl ether analyzed by EPA Method 8260B  
 1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B  
 EDB = 1,2-Dibromoethane analyzed by EPA Method 8260B  
 TOC = Top of casing elevation, in feet relative to mean sea level  
 GW = Groundwater  
 µg/L = Micrograms per liter  
 ft = Feet  
 MSL = Mean sea level  
 <x = Not detected at reporting limit x  
 --- = Not analyzed or available

a = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specific standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specific standard.  
 b = The sample extract was not subjected to silica gel treatment prior to analysis.

APPENDIX A

BLAINE TECH SERVICES, INC. -  
FIELD NOTES



## WELL GAUGING DATA

Project # 11215-DWZ Date 12/15/11 Client Shell

Site 2350(2368) Harrison St., Oakland

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
S-1	1115	4					3.80	15.81	↓	
S-2	1105	4				7.00	15.80			
S-3	1050	4				6.75	20.52			
S-4	1055	4				5.50	20.60			
S-5	1100	4				6.88	16.14			
S-6	1110	4				6.03	15.58			

# SHELL WELL MONITORING DATA SHEET

BTS #: 111215-DWZ	Site: 2350 (2368) Harrison St., Oakland
Sampler: DW	Date: 12/15/11
Well I.D.: S-1	Well Diameter: 2 3 <b>4</b> 6 8 _____
Total Well Depth (TD): 15.81	Depth to Water (DTW): 3.80
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <b>EVC</b> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.20	

Purge Method: Bailer      Waterra      Sampling Method: **Bailer**

Disposable Bailer      Peristaltic      Disposable Bailer

Positive Air Displacement      Extraction Pump      Extraction Port

**Electric Submersible**      Other \_\_\_\_\_      Dedicated Tubing

Other: \_\_\_\_\_

7.8 (Gals.) X 3 = 23.4 Gals.

I Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1250	61.4	6.28	12.24	50		
1251		well	dewatered @		12.8 gals	
1525	60.1	6.61	13.11	39		

Did well dewater? **Yes** No      Gallons actually evacuated: 12.8

Sampling Date: 12/15/11      Sampling Time: 1525      Depth to Water: 11.90 (2hr)

Sample I.D.: S-1      Laboratory: **Test America** Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

D.O. (if req'd): Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV

## SHELL WELL MONITORING DATA SHEET

BTS #: 111215-DWZ	Site: 2350 (2368) Harrison St., Oakland
Sampler: DW	Date: 12/15/11
Well I.D.: S-2	Well Diameter: 2 3 <b>4</b> 6 8
Total Well Depth (TD): 15.80	Depth to Water (DTW): 7.00
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <b>PVC</b> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.76	

Purge Method: Bailer Disposable Bailer Positive Air Displacement <b>Electric Submersible</b>	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: <b>Bailer</b> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
-------------------------------------------------------------------------------------------------------	----------------------------------------------------------	------------------------------------------------------------------------------------------------------------

5.7 (Gals.) X 3 = 17.1 Gals. 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <b>μS</b> )	Turbidity (NTUs)	Gals. Removed	Observations
1213	60.5	7.17	4523	48	5.7	
1214		well	dewatered @		9.0 gals	
1450	61.3	7.41	2994	56		

Did well dewater? **Yes** No      Gallons actually evacuated: 9.0

Sampling Date: 12/15/11      Sampling Time: 1450      Depth to Water: 10.43 (2hr)

Sample I.D.: S-2      Laboratory: **Test America** Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: **SEE COC**

EB I.D. (if applicable): @ \_\_\_\_\_ Time Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV





# SHELL WELL MONITORING DATA SHEET

BTS #: 111215-DWZ	Site: 2350 (2368) Harrison St., Oakland
Sampler: DW	Date: 12/15/11
Well I.D.: S-5	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 16.14	Depth to Water (DTW): 6.88
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.73	

Purge Method: Bailer Waterra Sampling Method: Bailer

Disposable Bailer Peristaltic Disposable Bailer

Positive Air Displacement Extraction Pump Extraction Port

Electric Submersible Other \_\_\_\_\_ Dedicated Tubing

Other: \_\_\_\_\_

6.0 (Gals.) X 3 = 18 Gals.

1 Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1200	61.2	6.76	13.53	72		
1201						well dewatered @ 10 gals
1430	61.5	6.97	13.54	66		

Did well dewater? Yes No      Gallons actually evacuated: 10.0

Sampling Date: 12/15/11      Sampling Time: 1430      Depth to Water: 10.30 (2hr)

Sample I.D.: S-5      Laboratory: Test America Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ \_\_\_\_\_ Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
D.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

# SHELL WELL MONITORING DATA SHEET

BTS #: 111215-DWZ	Site: 2350 (2368) Harrison St., Oakland
Sampler: DW	Date: 12/15/11
Well I.D.: S-6	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 15.58	Depth to Water (DTW): 6.03
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>EVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.94	

Purge Method: Bailer                      Waterra                      Sampling Method: Bailer  
 Disposable Bailer                      Peristaltic                      Disposable Bailer  
 Positive Air Displacement                      Extraction Pump                      Extraction Port  
Electric Submersible                      Other \_\_\_\_\_                      Dedicated Tubing  
 Other: \_\_\_\_\_

$6.2 \text{ (Gals.)} \times 3 = 18.6 \text{ Gals.}$ 1 Case Volume                      Specified Volumes                      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1237	60.7	7.18	3848	S3		
1238					7.2 gals	well dewatered @
1510	60.6	7.31	3556	39		

Did well dewater? Yes No                      Gallons actually evacuated: 7.2  
 Sampling Date: 12/15/11                      Sampling Time: 1510                      Depth to Water: 8.38 (2hr)

Sample I.D.: S-6                      Laboratory: Test America Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ \_\_\_\_\_                      Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

INCIDENT # 97743167

ADDRESS 2350 (2368) Harrison St

DATE: 12/15/11

CITY & STATE Oakland CA

Well ID	Observations Upon Arrival												Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition	Repair Date and PM Initials				
	Manway Cover, Type, Condition & Size				Well Labeled/ Painted Properly		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad/ Surface Condition							
S-1	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N		
S-2	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N		
S-3	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N		
S-4	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N		
S-5	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N		
S-6	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N		
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N		
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N		
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N		
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N		
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N		
TOTAL # CAPS REPLACED = 1												TOTAL # OF LOCKS REPLACED = 0							
Condition of Soil Boring Patches or Abandoned Monitoring Wells		G	P	N/A	If POOR, Borings Well IDs or Location Descriptions:												Y	N	
Remediation Compound Type (Check boxes that apply)		Condition of Enclosures		Condition of Area Inside Enclosure		Compound Security		Emergency Contact Info Visible		Cleaning / Repairs Recommended and Conducted				Photos of Condition	Repair Date and PM Initials				
NA		G		G		G		Y						Y					
Building		G		G		G		Y						Y					
Building w/ Fence Comp.		G		G		G		Y						Y					
Fenced Compound		G		G		G		Y						Y					
Trailer		G		G		G		Y						Y					
Number of Drums On-site	Does the Label Reveal the Source of the Contents	Labeled Correctly and Writing Legible		Drum Condition		Confirm Drums Related to Environmental	Drums Located to Min Business Interference		Detailed Explanation of Any Issues Resolved				Photos of Drum Condition	Date Drums Removed from Site and PM Initials					
1	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A	Y	N			

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

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

Dannel Allen, Blaine Tech Service  
Print or type Name of Field Personnel & Consultant Company



APPENDIX B

TEST AMERICA -  
LABORATORY REPORT

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

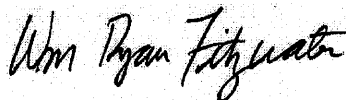
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Nashville  
2960 Foster Creighton Road  
Nashville, TN 37204  
Tel: 800-765-0980

TestAmerica Job ID: NVL2711  
Client Project/Site: SAP 135703  
Client Project Description: 2350 Harrison Street, Oakland, CA

For:  
Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
5900 Hollis Street, Suite A  
Emeryville, CA 94608

Attn: Peter Schaefer



Authorized for release by:  
12/29/2011 12:48:09 PM

Ryan Fitzwater  
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](http://www.testamericainc.com)

*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 & Assoc. (Emeryville) / SHELL  
Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NVL2711-01	WG-111215-DW2 121511-DW-S-1	Water	12/15/11 15:25	12/17/11 08:15
NVL2711-02	WG-111215-DW2 121511-DW-S-2	Water	12/15/11 14:50	12/17/11 08:15
NVL2711-03	WG-111215-DW2 121511-DW-S-3	Water	12/15/11 13:45	12/17/11 08:15
NVL2711-04	WG-111215-DW2 121511-DW-S-4	Water	12/15/11 13:55	12/17/11 08:15
NVL2711-05	WG-111215-DW2 121511-DW-S-5	Water	12/15/11 14:30	12/17/11 08:15
NVL2711-06	WG-111215-DW2 121511-DW-S-6	Water	12/15/11 15:10	12/17/11 08:15

## Case Narrative

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

---

**Job ID: NVL2711**

---

**Laboratory: TestAmerica Nashville**

**Narrative**

---

All samples were received in good condition, properly preserved, and properly labeled. All analyses were completed within holding times. There were no relevant protocol specific QC and/or performance standard non-conformances to report with the following exceptions:

Samples for TPH DRO CA have been silica gel treated prior to analysis.

No TPH DRO CA matrix spike or matrix spike duplicate analyzed for batch 11L5077 due to insufficient sample volume. See blank spike.

**NELAC Certification**

---

NELAC certifications are not held for the following analytes included in this report:

<u>Method</u>	<u>Matrix</u>	<u>Analyte</u>
CA LUFT GC/MS	Water	Gasoline Range Organics

## Definitions/Glossary

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

---

### Qualifiers

---

#### GC Semivolatiles

Qualifier	Qualifier Description
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.
QSG	Silica Gel clean-up performed on extracts.

---

### 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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
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
RL	Reporting Limit
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 & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

**Client Sample ID: WG-111215-DW2 121511-DW-S-1**

**Lab Sample ID: NVL2711-01**

Date Collected: 12/15/11 15:25

Matrix: Water

Date Received: 12/17/11 08:15

Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	3500		50		ug/L		12/15/11 15:25	12/24/11 06:24	1.0	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4	100		70 - 130				12/15/11 15:25	12/24/11 06:24	1.0	
Dibromofluoromethane	100		70 - 130				12/15/11 15:25	12/24/11 06:24	1.0	
Toluene-d8	103		70 - 130				12/15/11 15:25	12/24/11 06:24	1.0	
4-Bromofluorobenzene	104		70 - 130				12/15/11 15:25	12/24/11 06:24	1.0	

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	160		0.500		ug/L		12/15/11 15:25	12/24/11 06:24	1.00	
Ethylbenzene	53.9		0.500		ug/L		12/15/11 15:25	12/24/11 06:24	1.00	
Toluene	2.77		0.500		ug/L		12/15/11 15:25	12/24/11 06:24	1.00	
Xylenes, total	3.20		0.500		ug/L		12/15/11 15:25	12/24/11 06:24	1.00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4	105		70 - 130				12/15/11 15:25	12/24/11 06:24	1.00	
Dibromofluoromethane	105		70 - 130				12/15/11 15:25	12/24/11 06:24	1.00	
Toluene-d8	98		70 - 130				12/15/11 15:25	12/24/11 06:24	1.00	
4-Bromofluorobenzene	101		70 - 130				12/15/11 15:25	12/24/11 06:24	1.00	

Method: SW846 8015B - Extractable Petroleum Hydrocarbons										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel	631	QSG	47.2		ug/L		12/20/11 10:55	12/20/11 16:51	1.00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
o-Terphenyl	81		50 - 150				12/20/11 10:55	12/20/11 16:51	1.00	

Method: EPA 1664A - General Chemistry Parameters										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil & Grease HEM	ND		3.92		mg/L		12/23/11 03:30	12/28/11 12:39	1.00	

## Client Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

**Client Sample ID: WG-111215-DW2 121511-DW-S-2**

**Lab Sample ID: NVL2711-02**

Date Collected: 12/15/11 14:50

Matrix: Water

Date Received: 12/17/11 08:15

**Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	1300		50		ug/L		12/15/11 14:50	12/24/11 06:51	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	102		70 - 130				12/15/11 14:50	12/24/11 06:51	1.0
Dibromofluoromethane	102		70 - 130				12/15/11 14:50	12/24/11 06:51	1.0
Toluene-d8	101		70 - 130				12/15/11 14:50	12/24/11 06:51	1.0
4-Bromofluorobenzene	104		70 - 130				12/15/11 14:50	12/24/11 06:51	1.0

**Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.73		0.500		ug/L		12/15/11 14:50	12/24/11 06:51	1.00
Ethylbenzene	0.580		0.500		ug/L		12/15/11 14:50	12/24/11 06:51	1.00
Toluene	1.76		0.500		ug/L		12/15/11 14:50	12/24/11 06:51	1.00
Xylenes, total	2.86		0.500		ug/L		12/15/11 14:50	12/24/11 06:51	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	107		70 - 130				12/15/11 14:50	12/24/11 06:51	1.00
Dibromofluoromethane	107		70 - 130				12/15/11 14:50	12/24/11 06:51	1.00
Toluene-d8	97		70 - 130				12/15/11 14:50	12/24/11 06:51	1.00
4-Bromofluorobenzene	100		70 - 130				12/15/11 14:50	12/24/11 06:51	1.00

**Method: SW846 8015B - Extractable Petroleum Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	728	QSG	47.2		ug/L		12/20/11 10:55	12/20/11 17:09	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150				12/20/11 10:55	12/20/11 17:09	1.00

**Method: EPA 1664A - General Chemistry Parameters**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease HEM	ND		3.88		mg/L		12/23/11 03:30	12/28/11 12:39	1.00



# Client Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

**Client Sample ID: WG-111215-DW2 121511-DW-S-3**

**Lab Sample ID: NVL2711-03**

Date Collected: 12/15/11 13:45

Matrix: Water

Date Received: 12/17/11 08:15

Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	ND		50		ug/L		12/15/11 13:45	12/24/11 07:18	1.0	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4	92		70 - 130				12/15/11 13:45	12/24/11 07:18	1.0	
Dibromofluoromethane	98		70 - 130				12/15/11 13:45	12/24/11 07:18	1.0	
Toluene-d8	103		70 - 130				12/15/11 13:45	12/24/11 07:18	1.0	
4-Bromofluorobenzene	102		70 - 130				12/15/11 13:45	12/24/11 07:18	1.0	

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.500		ug/L		12/15/11 13:45	12/24/11 07:18	1.00	
Ethylbenzene	ND		0.500		ug/L		12/15/11 13:45	12/24/11 07:18	1.00	
Toluene	ND		0.500		ug/L		12/15/11 13:45	12/24/11 07:18	1.00	
Xylenes, total	ND		0.500		ug/L		12/15/11 13:45	12/24/11 07:18	1.00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4	97		70 - 130				12/15/11 13:45	12/24/11 07:18	1.00	
Dibromofluoromethane	103		70 - 130				12/15/11 13:45	12/24/11 07:18	1.00	
Toluene-d8	98		70 - 130				12/15/11 13:45	12/24/11 07:18	1.00	
4-Bromofluorobenzene	98		70 - 130				12/15/11 13:45	12/24/11 07:18	1.00	

Method: SW846 8015B - Extractable Petroleum Hydrocarbons										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel	ND	QSG	47.2		ug/L		12/20/11 10:55	12/20/11 17:27	1.00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
o-Terphenyl	92		50 - 150				12/20/11 10:55	12/20/11 17:27	1.00	

Method: EPA 1664A - General Chemistry Parameters										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil & Grease HEM	ND		3.88		mg/L		12/23/11 03:30	12/28/11 12:39	1.00	

# Client Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

**Client Sample ID: WG-111215-DW2 121511-DW-S-4**

**Lab Sample ID: NVL2711-04**

Date Collected: 12/15/11 13:55

Matrix: Water

Date Received: 12/17/11 08:15

<b>Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons</b>										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	ND		50		ug/L		12/15/11 13:55	12/24/11 07:44	1.0	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4	95		70 - 130				12/15/11 13:55	12/24/11 07:44	1.0	
Dibromofluoromethane	100		70 - 130				12/15/11 13:55	12/24/11 07:44	1.0	
Toluene-d8	102		70 - 130				12/15/11 13:55	12/24/11 07:44	1.0	
4-Bromofluorobenzene	103		70 - 130				12/15/11 13:55	12/24/11 07:44	1.0	
<b>Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B</b>										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.500		ug/L		12/15/11 13:55	12/24/11 07:44	1.00	
Ethylbenzene	ND		0.500		ug/L		12/15/11 13:55	12/24/11 07:44	1.00	
Toluene	ND		0.500		ug/L		12/15/11 13:55	12/24/11 07:44	1.00	
Xylenes, total	ND		0.500		ug/L		12/15/11 13:55	12/24/11 07:44	1.00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4	100		70 - 130				12/15/11 13:55	12/24/11 07:44	1.00	
Dibromofluoromethane	104		70 - 130				12/15/11 13:55	12/24/11 07:44	1.00	
Toluene-d8	97		70 - 130				12/15/11 13:55	12/24/11 07:44	1.00	
4-Bromofluorobenzene	100		70 - 130				12/15/11 13:55	12/24/11 07:44	1.00	
<b>Method: SW846 8015B - Extractable Petroleum Hydrocarbons</b>										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel	78.2	QSG	47.2		ug/L		12/20/11 10:55	12/20/11 17:45	1.00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
o-Terphenyl	69		50 - 150				12/20/11 10:55	12/20/11 17:45	1.00	
<b>Method: EPA 1664A - General Chemistry Parameters</b>										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil & Grease HEM	ND		3.88		mg/L		12/23/11 03:30	12/28/11 12:39	1.00	

# Client Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

**Client Sample ID: WG-111215-DW2 121511-DW-S-5**

**Lab Sample ID: NVL2711-05**

Date Collected: 12/15/11 14:30

Matrix: Water

Date Received: 12/17/11 08:15

**Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	51		50		ug/L		12/15/11 14:30	12/24/11 08:11	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	98		70 - 130				12/15/11 14:30	12/24/11 08:11	1.0
Dibromofluoromethane	99		70 - 130				12/15/11 14:30	12/24/11 08:11	1.0
Toluene-d8	102		70 - 130				12/15/11 14:30	12/24/11 08:11	1.0
4-Bromofluorobenzene	102		70 - 130				12/15/11 14:30	12/24/11 08:11	1.0

**Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L		12/15/11 14:30	12/24/11 08:11	1.00
Ethylbenzene	1.02		0.500		ug/L		12/15/11 14:30	12/24/11 08:11	1.00
Toluene	ND		0.500		ug/L		12/15/11 14:30	12/24/11 08:11	1.00
Xylenes, total	1.86		0.500		ug/L		12/15/11 14:30	12/24/11 08:11	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	103		70 - 130				12/15/11 14:30	12/24/11 08:11	1.00
Dibromofluoromethane	104		70 - 130				12/15/11 14:30	12/24/11 08:11	1.00
Toluene-d8	97		70 - 130				12/15/11 14:30	12/24/11 08:11	1.00
4-Bromofluorobenzene	98		70 - 130				12/15/11 14:30	12/24/11 08:11	1.00

**Method: SW846 8015B - Extractable Petroleum Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	241	QSG	47.2		ug/L		12/20/11 10:55	12/20/11 18:03	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	88		50 - 150				12/20/11 10:55	12/20/11 18:03	1.00

**Method: EPA 1664A - General Chemistry Parameters**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease HEM	ND		3.92		mg/L		12/23/11 03:30	12/28/11 12:39	1.00

# Client Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

**Client Sample ID: WG-111215-DW2 121511-DW-S-6**

**Lab Sample ID: NVL2711-06**

Date Collected: 12/15/11 15:10

Matrix: Water

Date Received: 12/17/11 08:15

**Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	720		50		ug/L		12/15/11 15:10	12/24/11 08:37	1.0
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4	95		70 - 130				12/15/11 15:10	12/24/11 08:37	1.0
Dibromofluoromethane	100		70 - 130				12/15/11 15:10	12/24/11 08:37	1.0
Toluene-d8	103		70 - 130				12/15/11 15:10	12/24/11 08:37	1.0
4-Bromofluorobenzene	102		70 - 130				12/15/11 15:10	12/24/11 08:37	1.0

**Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	19.9		0.500		ug/L		12/15/11 15:10	12/24/11 08:37	1.00
Ethylbenzene	ND		0.500		ug/L		12/15/11 15:10	12/24/11 08:37	1.00
Toluene	3.11		0.500		ug/L		12/15/11 15:10	12/24/11 08:37	1.00
Xylenes, total	2.09		0.500		ug/L		12/15/11 15:10	12/24/11 08:37	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4	100		70 - 130				12/15/11 15:10	12/24/11 08:37	1.00
Dibromofluoromethane	105		70 - 130				12/15/11 15:10	12/24/11 08:37	1.00
Toluene-d8	98		70 - 130				12/15/11 15:10	12/24/11 08:37	1.00
4-Bromofluorobenzene	99		70 - 130				12/15/11 15:10	12/24/11 08:37	1.00

**Method: SW846 8015B - Extractable Petroleum Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	459	QSG	47.2		ug/L		12/20/11 10:55	12/20/11 18:21	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	80		50 - 150				12/20/11 10:55	12/20/11 18:21	1.00

**Method: EPA 1664A - General Chemistry Parameters**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease HEM	ND		3.88		mg/L		12/23/11 03:30	12/28/11 12:39	1.00

# QC Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

## Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons

Lab Sample ID: 11L4666-BLK1  
 Matrix: Water  
 Analysis Batch: U022634

Client Sample ID: Method Blank  
 Prep Type: Total  
 Prep Batch: 11L4666\_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		50		ug/L		12/17/11 19:10	12/24/11 01:32	1.0

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	96		70 - 130	12/17/11 19:10	12/24/11 01:32	1.0
Dibromofluoromethane	99		70 - 130	12/17/11 19:10	12/24/11 01:32	1.0
Toluene-d8	105		70 - 130	12/17/11 19:10	12/24/11 01:32	1.0
4-Bromofluorobenzene	103		70 - 130	12/17/11 19:10	12/24/11 01:32	1.0

Lab Sample ID: 11L4666-BS2  
 Matrix: Water  
 Analysis Batch: U022634

Client Sample ID: Lab Control Sample  
 Prep Type: Total  
 Prep Batch: 11L4666\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	500	640		ug/L		129	67 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4	93		70 - 130
Dibromofluoromethane	98		70 - 130
Toluene-d8	104		70 - 130
4-Bromofluorobenzene	104		70 - 130

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11L4666-BLK1  
 Matrix: Water  
 Analysis Batch: U022634

Client Sample ID: Method Blank  
 Prep Type: Total  
 Prep Batch: 11L4666\_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L		12/17/11 19:10	12/24/11 01:32	1.00
Ethylbenzene	ND		0.500		ug/L		12/17/11 19:10	12/24/11 01:32	1.00
Toluene	ND		0.500		ug/L		12/17/11 19:10	12/24/11 01:32	1.00
Xylenes, total	ND		0.500		ug/L		12/17/11 19:10	12/24/11 01:32	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	101		70 - 130	12/17/11 19:10	12/24/11 01:32	1.00
Dibromofluoromethane	104		70 - 130	12/17/11 19:10	12/24/11 01:32	1.00
Toluene-d8	100		70 - 130	12/17/11 19:10	12/24/11 01:32	1.00
4-Bromofluorobenzene	99		70 - 130	12/17/11 19:10	12/24/11 01:32	1.00

Lab Sample ID: 11L4666-BS1  
 Matrix: Water  
 Analysis Batch: U022634

Client Sample ID: Lab Control Sample  
 Prep Type: Total  
 Prep Batch: 11L4666\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	50.0	51.4		ug/L		103	80 - 121
Ethylbenzene	50.0	51.4		ug/L		103	80 - 130
Toluene	50.0	50.8		ug/L		102	80 - 126
Xylenes, total	150	148		ug/L		99	80 - 132

# QC Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L4666-BS1  
 Matrix: Water  
 Analysis Batch: U022634

Client Sample ID: Lab Control Sample  
 Prep Type: Total  
 Prep Batch: 11L4666\_P

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4	106		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8	100		70 - 130
4-Bromofluorobenzene	106		70 - 130

Lab Sample ID: 11L4666-MS1  
 Matrix: Water  
 Analysis Batch: U022634

Client Sample ID: Matrix Spike  
 Prep Type: Total  
 Prep Batch: 11L4666\_P

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzene	ND		50.0	56.1		ug/L		112	75 - 133
Ethylbenzene	ND		50.0	54.9		ug/L		110	79 - 139
Toluene	ND		50.0	54.4		ug/L		109	75 - 136
Xylenes, total	ND		150	160		ug/L		106	74 - 141

Surrogate	Matrix Spike		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4	115		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8	100		70 - 130
4-Bromofluorobenzene	105		70 - 130

Lab Sample ID: 11L4666-MSD1  
 Matrix: Water  
 Analysis Batch: U022634

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Total  
 Prep Batch: 11L4666\_P

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	ND		50.0	55.4		ug/L		111	75 - 133	1	17
Ethylbenzene	ND		50.0	54.7		ug/L		109	79 - 139	0.3	15
Toluene	ND		50.0	54.1		ug/L		108	75 - 136	0.6	15
Xylenes, total	ND		150	159		ug/L		106	74 - 141	0.2	15

Surrogate	Matrix Spike Dup		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4	115		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8	98		70 - 130
4-Bromofluorobenzene	103		70 - 130

## Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Lab Sample ID: 11L5077-BLK1  
 Matrix: Water  
 Analysis Batch: U022411

Client Sample ID: Method Blank  
 Prep Type: Total  
 Prep Batch: 11L5077\_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel	ND		50.0		ug/L		12/20/11 10:55	12/20/11 16:15	1.00

Surrogate	Blank	Blank	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
o-Terphenyl	90		50 - 150	12/20/11 10:55	12/20/11 16:15	1.00

# QC Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

## Method: SW846 8015B - Extractable Petroleum Hydrocarbons (Continued)

<b>Lab Sample ID: 11L5077-BS1</b> <b>Matrix: Water</b> <b>Analysis Batch: U022411</b>				<b>Client Sample ID: Lab Control Sample</b> <b>Prep Type: Total</b> <b>Prep Batch: 11L5077_P</b>				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	
Diesel	1000	727	MNR1	ug/L		73	46 - 132	
		LCS %Recovery	LCS Qualifier	Limits				
Surrogate		77		50 - 150				
o-Terphenyl								

## Method: EPA 1664A - General Chemistry Parameters

<b>Lab Sample ID: 11L5765-BLK1</b> <b>Matrix: Water</b> <b>Analysis Batch: 11L5765</b>				<b>Client Sample ID: Method Blank</b> <b>Prep Type: Total</b> <b>Prep Batch: 11L5765_P</b>					
Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease HEM	ND		4.17		mg/L		12/22/11 06:16	12/28/11 12:39	1.00

<b>Lab Sample ID: 11L5765-BS1</b> <b>Matrix: Water</b> <b>Analysis Batch: 11L5765</b>				<b>Client Sample ID: Lab Control Sample</b> <b>Prep Type: Total</b> <b>Prep Batch: 11L5765_P</b>				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	
Oil & Grease HEM	40.0	37.4		mg/L		93	78 - 114	

<b>Lab Sample ID: 11L5765-MS1</b> <b>Matrix: Water</b> <b>Analysis Batch: 11L5765</b>				<b>Client Sample ID: Matrix Spike</b> <b>Prep Type: Total</b> <b>Prep Batch: 11L5765_P</b>					
Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	Limits
Oil & Grease HEM	0.824		40.0	40.9		mg/L		100	78 - 114

## QC Association Summary

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

### GCMS Volatiles

#### Analysis Batch: U022634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L4666-BLK1	Method Blank	Total	Water	SW846 8260B	11L4666_P
11L4666-BLK1	Method Blank	Total	Water	CA LUFT GC/MS	11L4666_P
11L4666-BS1	Lab Control Sample	Total	Water	SW846 8260B	11L4666_P
11L4666-BS2	Lab Control Sample	Total	Water	CA LUFT GC/MS	11L4666_P
11L4666-MS1	Matrix Spike	Total	Water	SW846 8260B	11L4666_P
11L4666-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11L4666_P
NVL2711-01	WG-111215-DW2 121511-DW-S-1	Total	Water	SW846 8260B	11L4666_P
NVL2711-01	WG-111215-DW2 121511-DW-S-1	Total	Water	CA LUFT GC/MS	11L4666_P
NVL2711-02	WG-111215-DW2 121511-DW-S-2	Total	Water	SW846 8260B	11L4666_P
NVL2711-02	WG-111215-DW2 121511-DW-S-2	Total	Water	CA LUFT GC/MS	11L4666_P
NVL2711-03	WG-111215-DW2 121511-DW-S-3	Total	Water	SW846 8260B	11L4666_P
NVL2711-03	WG-111215-DW2 121511-DW-S-3	Total	Water	CA LUFT GC/MS	11L4666_P
NVL2711-04	WG-111215-DW2 121511-DW-S-4	Total	Water	SW846 8260B	11L4666_P
NVL2711-04	WG-111215-DW2 121511-DW-S-4	Total	Water	CA LUFT GC/MS	11L4666_P
NVL2711-05	WG-111215-DW2 121511-DW-S-5	Total	Water	SW846 8260B	11L4666_P
NVL2711-05	WG-111215-DW2 121511-DW-S-5	Total	Water	CA LUFT GC/MS	11L4666_P
NVL2711-06	WG-111215-DW2 121511-DW-S-6	Total	Water	SW846 8260B	11L4666_P
NVL2711-06	WG-111215-DW2 121511-DW-S-6	Total	Water	CA LUFT GC/MS	11L4666_P

#### Prep Batch: 11L4666\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L4666-BLK1	Method Blank	Total	Water	EPA 5030B	
11L4666-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11L4666-BS2	Lab Control Sample	Total	Water	EPA 5030B	
11L4666-MS1	Matrix Spike	Total	Water	EPA 5030B	
11L4666-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	
NVL2711-01	WG-111215-DW2 121511-DW-S-1	Total	Water	EPA 5030B	
NVL2711-02	WG-111215-DW2 121511-DW-S-2	Total	Water	EPA 5030B	
NVL2711-03	WG-111215-DW2 121511-DW-S-3	Total	Water	EPA 5030B	
NVL2711-04	WG-111215-DW2 121511-DW-S-4	Total	Water	EPA 5030B	
NVL2711-05	WG-111215-DW2 121511-DW-S-5	Total	Water	EPA 5030B	
NVL2711-06	WG-111215-DW2 121511-DW-S-6	Total	Water	EPA 5030B	

### GC Semivolatiles

#### Analysis Batch: U022411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L5077-BLK1	Method Blank	Total	Water	SW846 8015B	11L5077_P
11L5077-BS1	Lab Control Sample	Total	Water	SW846 8015B	11L5077_P
NVL2711-01	WG-111215-DW2 121511-DW-S-1	Total	Water	SW846 8015B	11L5077_P
NVL2711-02	WG-111215-DW2 121511-DW-S-2	Total	Water	SW846 8015B	11L5077_P
NVL2711-03	WG-111215-DW2 121511-DW-S-3	Total	Water	SW846 8015B	11L5077_P
NVL2711-04	WG-111215-DW2 121511-DW-S-4	Total	Water	SW846 8015B	11L5077_P
NVL2711-05	WG-111215-DW2 121511-DW-S-5	Total	Water	SW846 8015B	11L5077_P
NVL2711-06	WG-111215-DW2 121511-DW-S-6	Total	Water	SW846 8015B	11L5077_P

#### Prep Batch: 11L5077\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L5077-BLK1	Method Blank	Total	Water	EPA 3510C	
11L5077-BS1	Lab Control Sample	Total	Water	EPA 3510C	
NVL2711-01	WG-111215-DW2 121511-DW-S-1	Total	Water	EPA 3510C	
NVL2711-02	WG-111215-DW2 121511-DW-S-2	Total	Water	EPA 3510C	



## QC Association Summary

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

### GC Semivolatiles (Continued)

#### Prep Batch: 11L5077\_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NVL2711-03	WG-111215-DW2 121511-DW-S-3	Total	Water	EPA 3510C	
NVL2711-04	WG-111215-DW2 121511-DW-S-4	Total	Water	EPA 3510C	
NVL2711-05	WG-111215-DW2 121511-DW-S-5	Total	Water	EPA 3510C	
NVL2711-06	WG-111215-DW2 121511-DW-S-6	Total	Water	EPA 3510C	

### Extractions

#### Analysis Batch: 11L5765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L5765-BLK1	Method Blank	Total	Water	EPA 1664A	11L5765_P
11L5765-BS1	Lab Control Sample	Total	Water	EPA 1664A	11L5765_P
11L5765-MS1	Matrix Spike	Total	Water	EPA 1664A	11L5765_P
NVL2711-01	WG-111215-DW2 121511-DW-S-1	Total	Water	EPA 1664A	11L5765_P
NVL2711-02	WG-111215-DW2 121511-DW-S-2	Total	Water	EPA 1664A	11L5765_P
NVL2711-03	WG-111215-DW2 121511-DW-S-3	Total	Water	EPA 1664A	11L5765_P
NVL2711-04	WG-111215-DW2 121511-DW-S-4	Total	Water	EPA 1664A	11L5765_P
NVL2711-05	WG-111215-DW2 121511-DW-S-5	Total	Water	EPA 1664A	11L5765_P
NVL2711-06	WG-111215-DW2 121511-DW-S-6	Total	Water	EPA 1664A	11L5765_P

#### Prep Batch: 11L5765\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L5765-BLK1	Method Blank	Total	Water	1664 HEM/SGTHEM	
11L5765-BS1	Lab Control Sample	Total	Water	1664 HEM/SGTHEM	
11L5765-MS1	Matrix Spike	Total	Water	1664 HEM/SGTHEM	
NVL2711-01	WG-111215-DW2 121511-DW-S-1	Total	Water	1664 HEM/SGTHEM	
NVL2711-02	WG-111215-DW2 121511-DW-S-2	Total	Water	1664 HEM/SGTHEM	
NVL2711-03	WG-111215-DW2 121511-DW-S-3	Total	Water	1664 HEM/SGTHEM	
NVL2711-04	WG-111215-DW2 121511-DW-S-4	Total	Water	1664 HEM/SGTHEM	
NVL2711-05	WG-111215-DW2 121511-DW-S-5	Total	Water	1664 HEM/SGTHEM	
NVL2711-06	WG-111215-DW2 121511-DW-S-6	Total	Water	1664 HEM/SGTHEM	

# Lab Chronicle

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

**Client Sample ID: WG-111215-DW2 121511-DW-S-1**

**Lab Sample ID: NVL2711-01**

Date Collected: 12/15/11 15:25

Matrix: Water

Date Received: 12/17/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L4666_P	12/15/11 15:25	JPH	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022634	12/24/11 06:24	KXC	TAL NSH
Total	Prep	EPA 5030B		1.0	11L4666_P	12/15/11 15:25	TSP	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U022634	12/24/11 06:24	KXC	TAL NSH
Total	Prep	EPA 3510C		0.943	11L5077_P	12/20/11 10:55	MSR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U022411	12/20/11 16:51	KKH	TAL NSH
Total	Prep	1664 HEM/SGTHEM		1.00	11L5765_P	12/23/11 03:30	BAD	TAL NSH
Total	Analysis	EPA 1664A		1.00	11L5765	12/28/11 12:39	JJR	TAL NSH

**Client Sample ID: WG-111215-DW2 121511-DW-S-2**

**Lab Sample ID: NVL2711-02**

Date Collected: 12/15/11 14:50

Matrix: Water

Date Received: 12/17/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L4666_P	12/15/11 14:50	JPH	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022634	12/24/11 06:51	KXC	TAL NSH
Total	Prep	EPA 5030B		1.0	11L4666_P	12/15/11 14:50	TSP	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U022634	12/24/11 06:51	KXC	TAL NSH
Total	Prep	EPA 3510C		0.943	11L5077_P	12/20/11 10:55	MSR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U022411	12/20/11 17:09	KKH	TAL NSH
Total	Prep	1664 HEM/SGTHEM		1.00	11L5765_P	12/23/11 03:30	BAD	TAL NSH
Total	Analysis	EPA 1664A		1.00	11L5765	12/28/11 12:39	JJR	TAL NSH

**Client Sample ID: WG-111215-DW2 121511-DW-S-3**

**Lab Sample ID: NVL2711-03**

Date Collected: 12/15/11 13:45

Matrix: Water

Date Received: 12/17/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L4666_P	12/15/11 13:45	JPH	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022634	12/24/11 07:18	KXC	TAL NSH
Total	Prep	EPA 5030B		1.0	11L4666_P	12/15/11 13:45	TSP	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U022634	12/24/11 07:18	KXC	TAL NSH
Total	Prep	EPA 3510C		0.943	11L5077_P	12/20/11 10:55	MSR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U022411	12/20/11 17:27	KKH	TAL NSH
Total	Prep	1664 HEM/SGTHEM		1.00	11L5765_P	12/23/11 03:30	BAD	TAL NSH
Total	Analysis	EPA 1664A		1.00	11L5765	12/28/11 12:39	JJR	TAL NSH

**Client Sample ID: WG-111215-DW2 121511-DW-S-4**

**Lab Sample ID: NVL2711-04**

Date Collected: 12/15/11 13:55

Matrix: Water

Date Received: 12/17/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L4666_P	12/15/11 13:55	JPH	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022634	12/24/11 07:44	KXC	TAL NSH

## Lab Chronicle

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

**Client Sample ID: WG-111215-DW2 121511-DW-S-4**

**Lab Sample ID: NVL2711-04**

Date Collected: 12/15/11 13:55

Matrix: Water

Date Received: 12/17/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.0	11L4666_P	12/15/11 13:55	TSP	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U022634	12/24/11 07:44	KXC	TAL NSH
Total	Prep	EPA 3510C		0.943	11L5077_P	12/20/11 10:55	MSR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U022411	12/20/11 17:45	KKH	TAL NSH
Total	Prep	1664 HEM/SGTHEM		1.00	11L5765_P	12/23/11 03:30	BAD	TAL NSH
Total	Analysis	EPA 1664A		1.00	11L5765	12/28/11 12:39	JJR	TAL NSH

**Client Sample ID: WG-111215-DW2 121511-DW-S-5**

**Lab Sample ID: NVL2711-05**

Date Collected: 12/15/11 14:30

Matrix: Water

Date Received: 12/17/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L4666_P	12/15/11 14:30	JPH	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022634	12/24/11 08:11	KXC	TAL NSH
Total	Prep	EPA 5030B		1.0	11L4666_P	12/15/11 14:30	TSP	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U022634	12/24/11 08:11	KXC	TAL NSH
Total	Prep	EPA 3510C		0.943	11L5077_P	12/20/11 10:55	MSR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U022411	12/20/11 18:03	KKH	TAL NSH
Total	Prep	1664 HEM/SGTHEM		1.00	11L5765_P	12/23/11 03:30	BAD	TAL NSH
Total	Analysis	EPA 1664A		1.00	11L5765	12/28/11 12:39	JJR	TAL NSH

**Client Sample ID: WG-111215-DW2 121511-DW-S-6**

**Lab Sample ID: NVL2711-06**

Date Collected: 12/15/11 15:10

Matrix: Water

Date Received: 12/17/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L4666_P	12/15/11 15:10	JPH	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022634	12/24/11 08:37	KXC	TAL NSH
Total	Prep	EPA 5030B		1.0	11L4666_P	12/15/11 15:10	TSP	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U022634	12/24/11 08:37	KXC	TAL NSH
Total	Prep	EPA 3510C		0.943	11L5077_P	12/20/11 10:55	MSR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U022411	12/20/11 18:21	KKH	TAL NSH
Total	Prep	1664 HEM/SGTHEM		1.00	11L5765_P	12/23/11 03:30	BAD	TAL NSH
Total	Analysis	EPA 1664A		1.00	11L5765	12/28/11 12:39	JJR	TAL NSH

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

# Method Summary

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

Method	Method Description	Protocol	Laboratory
EPA 1664A	General Chemistry Parameters		TAL NSH
CA LUFT GC/MS	Purgeable Petroleum Hydrocarbons		TAL NSH
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
SW846 8015B	Extractable Petroleum Hydrocarbons		TAL NSH

**Protocol References:**

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

## Certification Summary

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2711

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		ACIL		393
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA - LAP	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Canada (CALA)	Canada (CALA)		3744
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

## COOLER REC



Cooler Received/Opened On 12/17/2011 @ 0815

1. Tracking # 0594 (last 4 digits, FedEx)

NVL2711

Courier: FedEx IR Gun ID 97310166

2. Temperature of rep. sample or temp blank when opened: 0.7 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

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) DA

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) DA

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

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# \_\_\_\_\_

COOL

NVL2711

01/04/12 23:59

Cooler Received/Opened On 12/17/2011 @ 0815

1. Tracking # 9322 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 14740456

2. Temperature of rep. sample or temp blank when opened: 1.7 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) F

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 DA-12-17-11

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) DA

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) DA

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

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO # \_\_\_\_\_

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

- CALSCEICE ( )
- SPL Houston ( )
- XENCO ( )
- TEST AMERICA (IRVINE)
- OTHER ( )

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SDRICH	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name: 060119 Peter Schaefer

INCIDENT # (ENV SERVICES) 9 7 7 4 3 9 6 9

PO # SAP #

1 7 3 3 1 8

CHECK IF NO INCIDENT # APPLIES

DATE: 12/15/11

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS: Street and City: 2350 Harrison Street, Oakland, CA

GLOBAL ID NO.: T0600102237

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville, CA

PHONE NO.: 510-420-3343

E-MAIL: ShellEDF@CRAWorld.com, Shell-US-LabDataManagement@CRAworld.com

CONSULTANT PROJECT NO.: 060119-95-11.01

PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King

TELEPHONE: (310) 885-4455 x 108

FAX: (310) 637-5802

E-MAIL: lking@blainetech.com

SAMPLER NAME(S) (Print): Daniel Allen

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS

RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

1) Please upload the "CRA EQuIS 4-file EDD" to the CRA Website (<http://cralabedupload.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 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, ShellEDF@craworld.com, Shell-US-LabDataManagement@CRAworld.com, and pschaefer@CRAWorld.com

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

Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W (Trip or Temp Blank)

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

TEMPERATURE ON RECE: 0.7 +1.7

Run TPH-D with Silica Gel Clean Up

LAB USE ONLY	SAMPLE ID					TIME	MATRIX	PRESERVATIVE					NO. OF CONT.	TPH-GRO, Purgeable (8280B)	TPH-DRO, Extractable (8016M)	BTEX (8280B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 6 OXYS (MTBE, TBA, DIPE, TAME, ETBE) (8260B)	VOCs Full list (8260B)	Single Compound: (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8016B)	Oil and Grease (1661A)	Container PID Readings or Laboratory Notes							
	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID				HCL	HN03	H2SO4	NONE	OTHER																						
1	WG	111215-0w2	121511	DW	S-1	1525	WG	X				X	X	X																				
2		111215-0w2	121511	DW	S-2	1450	WG	X				X	X	X																				
3		111215-0w2	121511	DW	S-3	1345	WG	X				X	X	X																				
4		111215-0w2	121511	DW	S-4	1355	WG	X				X	X	X																				
5		111215-0w2	121511	DW	S-5	1430	WG	X				X	X	X																				
6		111215-0w2	121511	DW	S-6	1510	WG	X				X	X	X																				

Relinquished by: (Signature) <i>Daniel Allen</i>	Received by: (Signature) <i>Daniel Allen</i>	Date: 12/15/11	Time: 1700
Relinquished by: (Signature) <i>Deborah Taylor</i>	Received by: (Signature) <i>Deborah Taylor</i>	Date: 12/16/11	Time: 1000
Relinquished by: (Signature) <i>Deborah Taylor</i> 12-16-11 16:00	Received by: (Signature) <i>Deborah Taylor</i> TA-NASH	Date: 12-17-11	Time: 0815