



**CONESTOGA-ROVERS
& ASSOCIATES**

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TRANSMITTAL

DATE: February 9, 2012 REFERENCE NO.: 240897
PROJECT NAME: 4411 Foothill Boulevard, Oakland
TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

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4:06 pm, Feb 15, 2012
Alameda County
Environmental Health

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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)
Bill Phua (property owner), Foothill Blvd. LLC, P.O. Box 10664, Oakland, CA 94610

Completed by: Peter Schaefer Signed: Ashley 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

Re: Former Shell Service Station
4411 Foothill Boulevard
Oakland, California
SAP Code 135686
Incident No. 98995746
ACEH Case No. RO0000415

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 L. Brown", is written over a horizontal line.

Denis L. Brown
Senior Program Manager



GROUNDWATER MONITORING REPORT - FOURTH QUARTER 2011

**FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA**

**SAP CODE 135686
INCIDENT NO. 98995746
AGENCY NO. RO0000415**

**FEBRUARY 9, 2012
REF. NO. 240897 (17)**

This report is printed on recycled paper.

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

5900 Hollis Street, Suite A
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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	4411 Foothill Boulevard, Oakland
Site Use	Strip Mall
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0000415
Shell SAP Code	135686
Shell Incident No.	98995746

Date of most recent agency correspondence was April 4, 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 August 3, 2011 *Soil Vapor Sampling Report* provided analytical results from sampling soil vapor probes V-1 through V-9 and V-11 on May 9, 2011. Soil vapor detections in soil vapor samples collected during this event were within historical norms, and we concluded that no further soil vapor monitoring is warranted.

2.2 **CURRENT QUARTER'S FINDINGS**

Groundwater Flow Direction	Variable
Hydraulic Gradient	Variable
Depth to Water	7.01 to 8.77 feet below top of well casing

2.3 **PROPOSED ACTIVITIES**

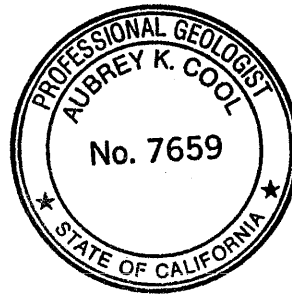
After reviewing the data, CRA recommends discontinuing 1,2-dichloroethane and 1,2-dibromoethane analyses. Blaine will gauge and sample wells according to the modified monitoring program for this site. This site is monitored annually during the fourth quarter, and CRA will issue groundwater monitoring reports annually following the sampling events.

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

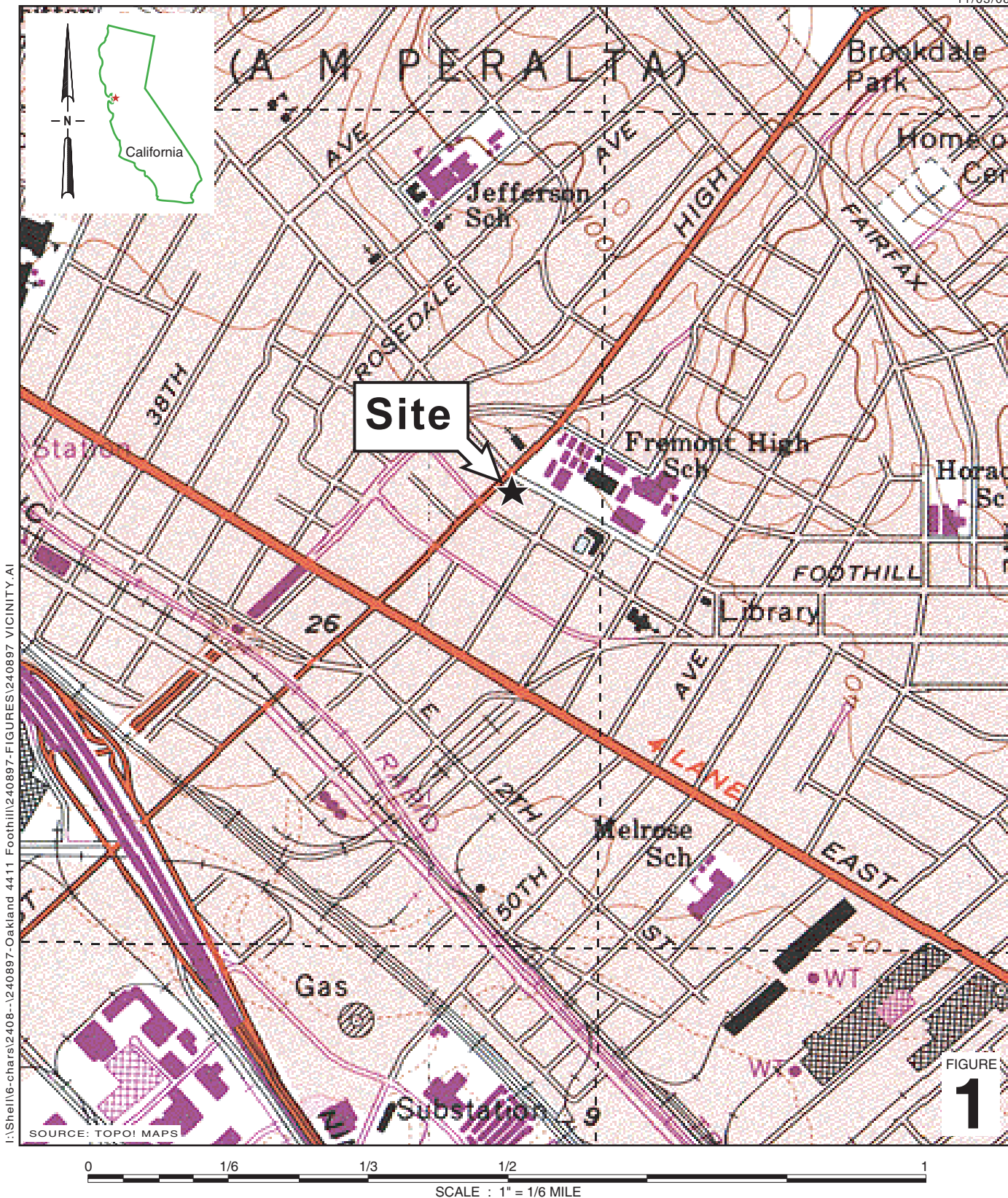
A. Schaefer Jr.

Peter Schaefer, CHG, CEG

Aubrey K. Cool
Aubrey K. Cool, PG



FIGURES



I:\Shell\6-chars\2408--\240897-Oakland 4411-Foothill\240897-FIGURES\240897-VICINITY.AI

FIGURE 1

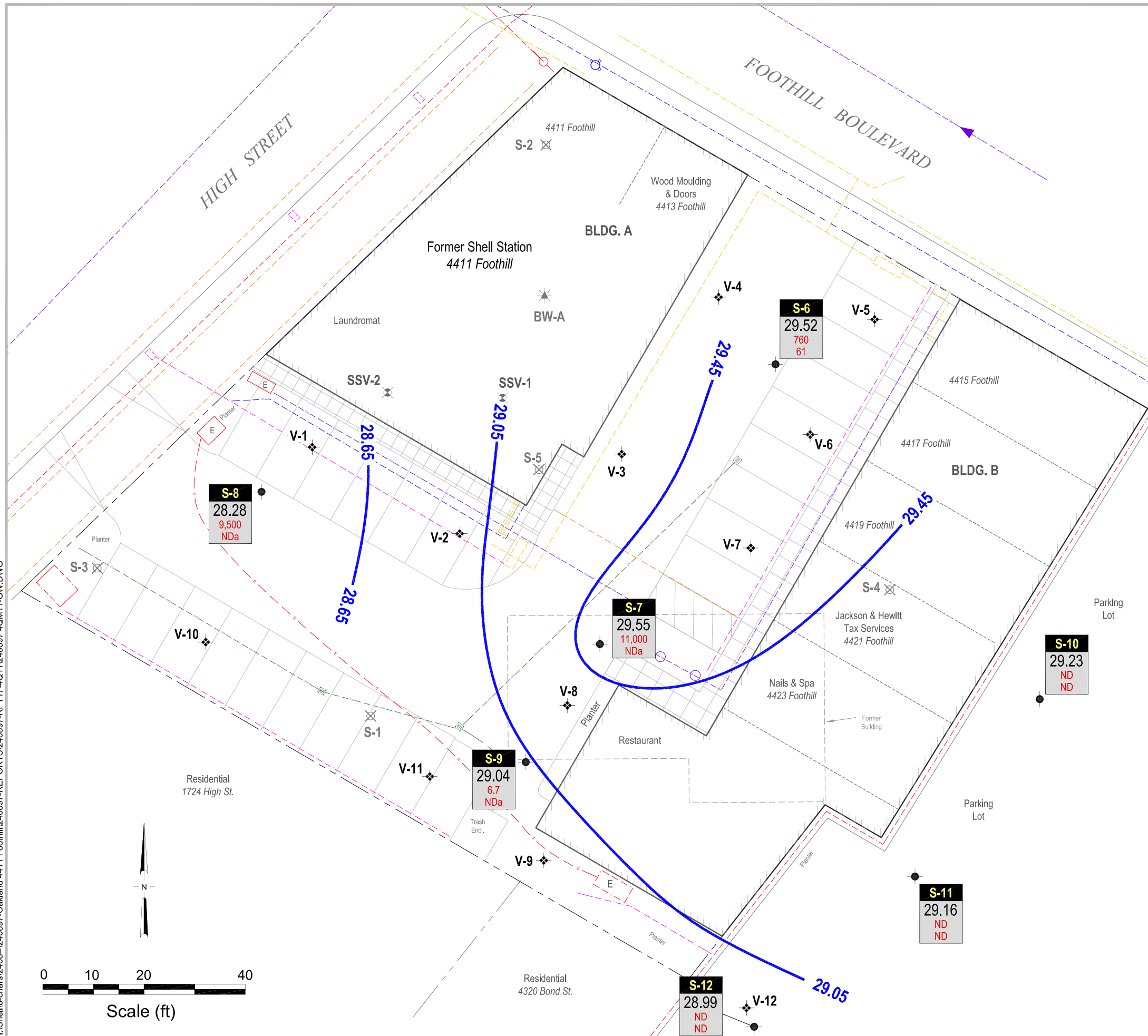
Former Shell Service Station
 4411 Foothill Boulevard
 Oakland, California



CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

I:\ShellIG-chars\24089-1240897-Oakland 4411 Foothill\240897-REPORTS\240897-RPT17-4Q11\240897-4QM11-GW.DWG



EXPLANATION

- S-6 ● Monitoring well location
- V-1 ◆ Soil vapor probe location
- SSV-1 ☒ Destroyed sub-slab soil vapor probe location
- S-1 ☒ Destroyed monitoring well location
- BW-A ★ Destroyed tank backfill well location
- Electrical line (E)
- Telecommunications line (T)
- Gas line (GAS)
- Water line (W)
- Sanitary Sewer line (SAN)
- Storm drain line (STM)
- Unknown utility line
- Fire hydrant
- Catch basin
- Manhole
- Power pole
- ▲ Flow direction
- ~ ~ ~ ~ ~ xx.xx Groundwater elevation contour, in feet above mean sea level (msl)
- Well** Well designation
- ELEV.** Groundwater elevation, in feet above msl
- Benzene** Benzene and MTBE concentrations are in parts per micrograms per liter
- MTBE**

Notes:
 ND = Not detected
 NDa = Elevated reporting limit; see laboratory report for details

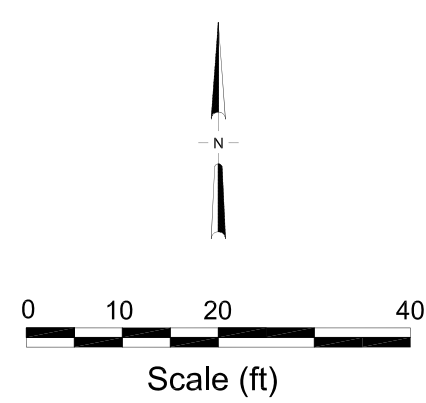


FIGURE 2

TABLE

TABLE 1

**GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (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)	DO Reading (mg/L)
S-1	12/18/1992	---	41,000	3,100	1,100	1,200	8,700	---	---	---	---	---	---	---	---	38.31	9.06	---	---
S-1	05/26/1993	6,000	39,000	1,300	4,700	1,500	7,800	---	---	---	---	---	---	---	---	38.31	---	---	---
S-1	05/28/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.31	12.13	26.18	---
S-1	06/03/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.31	8.89	29.42	---
S-1	06/08/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.31	8.80	29.51	---
S-1	09/21/1993	5,900	34,000	480	5,000	3,800	18,000	---	---	---	---	---	---	---	---	38.31	10.40	27.91	---
S-1	12/14/1993	13,000	25,000	1,100	5,000	2,200	11,000	---	---	---	---	---	---	---	---	38.31	9.66	28.65	---
S-1	03/17/1994	1,600	57,000	1,300	5,400	2,100	11,000	---	---	---	---	---	---	---	---	38.31	8.20	30.11	---
S-1	06/16/1994	3,000	57,000	1,600	6,000	2,000	13,000	---	---	---	---	---	---	---	---	38.31	9.41	28.90	---
S-1	09/22/1994	<250	39,000	1,300	2,100	1,500	7,100	---	---	---	---	---	---	---	---	38.31	11.13	27.18	---
S-1	12/15/1994	3,100 m	30,000	1,100	4,700	1,600	10,000	---	---	---	---	---	---	---	---	38.31	7.15	31.16	---
S-1	03/30/1995	3,100 c,m	30,000 c	1,400 c	4,000 c	1,500 c	11,000 c	---	---	---	---	---	---	---	---	38.31	6.09	32.22	---
S-1	06/20/1995	2,100	28,000	1,100	2,300	1,100	8,300	---	---	---	---	---	---	---	---	38.31	7.30	31.01	---
S-1	09/20/1995	2,600	40,000	840	3,600	1,300	8,600	---	---	---	---	---	---	---	---	38.31	10.02	28.29	---
S-1	12/06/1995	6,400 m	38,000	920	3,200	1,500	9,400	---	---	---	---	---	---	---	---	38.31	11.64	26.67	---
S-1	03/21/1996	---	48,000	700	4,200	1,100	8,600	---	---	---	---	---	---	---	---	38.31	6.87	31.44	---
S-1	09/06/1996	4,100	41,000	830	2,600	2,100	12,000	<250	---	---	---	---	---	---	---	38.31	10.50	27.81	---
S-1	12/19/1996	2,500	40,000	540	3,100	1,900	9,800	920	---	---	---	---	---	---	---	38.31	8.24	30.07	---
S-1	03/17/1997	4,700	42,000	610	2,700	1,700	11,000	3,500	---	---	---	---	---	---	---	38.31	7.26	31.05	---
S-1	06/11/1997	4,000	28,000	540	960	1,300	5,300	220	---	---	---	---	---	---	---	38.31	10.69	27.62	---
S-1 (D)	06/11/1997	3,900	30,000	580	1,000	1,400	5,400	<125	---	---	---	---	---	---	---	38.31	10.69	27.62	---
S-1	09/17/1997	4,400	27,000	310	1,200	1,900	9,000	170	---	---	---	---	---	---	---	38.31	10.26	28.05	---
S-1 (D)	09/17/1997	4,400	27,000	270	1,200	1,900	9,000	170	---	---	---	---	---	---	---	38.31	10.26	28.05	---
S-1	12/11/1997	3,400	21,000	350	820	1,500	6,500	<125	---	---	---	---	---	---	---	38.31	6.96	31.35	---
S-1	03/16/1998	2,500	25,000	250	820	670	5,000	<125	---	---	---	---	---	---	---	38.31	6.00	32.31	---
S-1 (D)	03/16/1998	---	26,000	250	840	720	5,100	<125	---	---	---	---	---	---	---	38.31	6.00	32.31	5.3/3.7
S-1	06/23/1998	230	<1,000	280	14	23	15	6,100	7,800	---	---	---	---	---	---	38.31	6.31	32.00	3.8/2.4
S-1	09/01/1998	2,300	26,000	370	620	1,300	33	1,400	120	---	---	---	---	---	---	38.31	9.17	29.14	1.4/2.6
S-1	12/30/1998	1,970	29,900	174	732	1,680	5,740	182	---	---	---	---	---	---	---	38.31	8.99	29.32	1.6/2.0
S-1	03/30/1999	1,150	14,200	1,360	260	1,070	3,580	<500	90.0	---	---	---	---	---	---	38.31	6.10	32.21	1.2/1.8
S-1	03/31/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.31	7.84	30.47	---
S-1	06/14/1999	4,280	20,200	135	407	825	5,000	705	---	---	---	---	---	---	---	38.31	7.94	30.37	1.4/2.1
S-1	09/30/1999	3,120	18,300	189	531	1,250	4,740	322	---	---	---	---	---	---	---	38.31	10.04	28.27	4.3/2.0
S-1	12/22/1999	444 m	2,450	50.2	97.5	139	458	133	---	---	---	---	---	---	---	38.31	9.42	28.89	1.8/2.3
S-1	03/09/2000	1,200 m	1,230 c	21.2 c	115 c	116 c	411 c	45.1 c	---	---	---	---	---	---	---	38.30	6.21	32.09	2.0/2.9
S-1	06/20/2000	352 m	755	26.0	48.4	43.1	230	71.5	---	---	---	---	---	---	---	38.30	9.18	29.12	2.0/2.4
S-1	09/05/2000	783 m	2,980	43.5	117	168	871	192	---	---	---	---	---	---	---	38.30	10.14	28.16	0.6/0.3
S-1	12/04/2000	238 m	399	5.34	14.6	36.2	106	24.9	---	---	---	---	---	---	---	38.30	10.10	28.20	8.6/9.8
S-1	12/12/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.30	9.22	29.08	---

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		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)	DO Reading (mg/L)
								8020 (µg/L)	8260 (µg/L)										
S-1	03/08/2001	1,390 m	2,940	49.6	52.9	21.8	749	87.6	---	---	---	---	---	---	---	38.30	5.84	32.46	2.7 e
S-1	06/07/2001	1,400	10,000	120	370	680	2,400	150	---	---	---	---	---	---	---	38.30	8.80	29.50	6.2/2.2
S-1	09/13/2001	<200	240	1.8	8.9	16	53	---	17	---	---	---	---	---	---	38.30	10.25	28.05	7.8/8.9
S-1	11/19/2001	<300	1,400	14	42	110	260	---	27	---	---	---	---	---	---	38.30	9.87	28.43	7.7/7.3
S-1	03/18/2002	<300	7,500	40	370	560	2,000	---	20	---	---	---	---	---	---	38.30	5.08	33.22	5.6/6.1
S-1	06/19/2002	180	1,000	4.7	36	68	250	---	14	---	---	---	---	---	---	38.30	9.26	29.04	---
S-1	09/11/2002	<350	2,100	8.1	68	180	820	---	7.1	---	---	---	---	---	---	38.30	10.54	27.76	6.5
S-1	12/11/2002	<500	4,100	16	93	310	900	---	<20	---	---	---	---	---	---	38.04	9.97	28.07	8.0
S-1	03/11/2003	<1,600	14,000	71	470	1,000	3,300	---	<50	---	---	---	---	---	---	38.04	7.31	30.73	5.2
S-1	06/10/2003	110 m	1,700	7.7	44	190	340	---	4.5	---	---	---	---	---	---	38.04	8.14	29.90	14.0
S-1	09/09/2003	96 m	3,200	11	110	350	1,100	---	5.8	---	---	---	---	---	---	38.04	9.31	28.73	7.5
S-1	12/09/2003	1,000 m	6,000	20	170	530	1,700	---	6.1	---	---	---	---	---	---	38.04	7.24	30.80	28.6
S-1	03/09/2004	300 m	390	5.8	30	67	160	---	5.6	---	---	---	---	---	---	38.04	5.56	32.48	6.4
S-1	06/08/2004	2,500 m	5,600	11	140	660	1,900	---	5.0	---	---	---	---	---	---	38.04	8.82	29.22	30.0
S-1	09/07/2004	130 i	<50	<0.50	<0.50	<0.50	<1.0	---	0.75	<5.0	<2.0	<2.0	<2.0	---	---	38.04	9.84	28.20	14.4
S-1	12/06/2004	Unable to sample	---	---	---	---	---	---	---	---	---	---	---	---	---	38.04	9.20	28.84	---
S-1	12/15/2004	120 i	560	2.2	26	67	220	---	1.4	---	---	---	---	---	---	38.04	5.39	32.65	31.7
S-1	03/07/2005	460 i	12,000	12	310	830	2,600	---	<5.0	---	---	---	---	---	---	38.04	5.77	32.27	16.1
S-1	06/10/2005	1,200 i	13,000	25	310	1,200	3,300	---	<10	---	---	---	---	---	---	38.04	5.39	32.65	0.17
S-1	07/14/2005	Well destroyed	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-2	05/28/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.79	9.51	29.28	---
S-2	06/03/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.79	9.51	29.28	---
S-2	06/08/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.79	9.57	29.22	---
S-2	06/29/1993	---	1,300	290	35	38	130	---	---	---	---	---	---	---	---	38.79	---	---	---
S-2	09/21/1993	---	3,300	870	24	190	120	---	---	---	---	---	---	---	---	38.79	10.54	28.25	---
S-2	12/14/1993	---	1,300	400	16	36	27	---	---	---	---	---	---	---	---	38.79	9.76	29.03	---
S-2	03/17/1994	---	4,500	610	27	92	110	---	---	---	---	---	---	---	---	38.79	9.92	28.87	---
S-2 (D)	03/17/1994	---	4,000	610	26	93	120	---	---	---	---	---	---	---	---	38.79	9.92	28.87	---
S-2	06/16/1994	---	2,800	690	45	97	140	---	---	---	---	---	---	---	---	38.79	10.11	28.68	---
S-2	09/22/1994	---	4,000	630	94	64	230	---	---	---	---	---	---	---	---	38.79	10.51	28.28	---
S-2	12/15/1994	---	1,600	450	300	67	130	---	---	---	---	---	---	---	---	38.79	9.12	29.67	---
S-2	03/30/1995	---	8,200 c	2,800 c	190 c	240 c	700 c	---	---	---	---	---	---	---	---	38.79	7.86	30.93	---
S-2	06/20/1995	---	9,600	2,600	160	170	500	---	---	---	---	---	---	---	---	38.79	9.51	29.28	---
S-2	09/20/1995	---	4,200	920	45	98	140	---	---	---	---	---	---	---	---	38.79	10.06	28.73	---
S-2	12/06/1995	---	<5,000	790	67	64	130	---	---	---	---	---	---	---	---	38.79	10.52	28.27	---
S-2	03/21/1996	---	3,700	850	45	96	170	---	---	---	---	---	---	---	---	38.79	8.60	30.19	---
S-2	09/06/1996	---	2,400	500	33	39	84	490	---	---	---	---	---	---	---	38.79	10.50	28.29	---
S-2	12/19/1996	---	1,200	330	15	24	31	430	---	---	---	---	---	---	---	38.79	9.40	29.39	---

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (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)	DO Reading (mg/L)
S-2	03/17/1997	---	4,100	780	42	110	120	2,200	---	---	---	---	---	---	---	38.79	9.82	28.97	---
S-2	06/11/1997	---	760	120	<5.0	7.0	7.6	900	---	---	---	---	---	---	---	38.79	10.18	28.61	---
S-2	09/17/1997	---	1,500	230	8.6	40	27	480	---	---	---	---	---	---	---	38.79	9.90	28.89	---
S-2	12/11/1997	---	1,300	240	15	33	57	280	---	---	---	---	---	---	---	38.79	8.27	30.52	---
S-2	03/16/1998	---	1,100	830	48	<10	<10	4,700	4,800	---	---	---	---	---	---	38.79	7.97	30.82	7.0/4.3
S-2	06/23/1998	---	720	46	6.8	50	68	50	8.8	---	---	---	---	---	---	38.79	8.20	30.59	4.2/3.8
S-2 (D)	06/23/1998	---	810	49	7.1	50	70	49	8.8	---	---	---	---	---	---	38.79	8.20	30.59	4.2/3.8
S-2	09/01/1998	---	<2,000	170	<20	<20	<20	9,300	12,000	---	---	---	---	---	---	38.79	9.85	28.94	1.9/1.6
S-2	12/30/1998	---	<5,000	369	<50	<50	<50	14,300	---	---	---	---	---	---	---	38.79	9.84	28.95	2.0/1.8
S-2	03/30/1999	---	<2,000	234	<20.0	27.4	36.9	49,200	53,000	---	---	---	---	---	---	38.79	8.41	30.38	2.1/1.8
S-2	03/31/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.79	8.67	30.12	---
S-2	06/14/1999	---	<1,000	175	<10.0	<10.0	11.1	67,500	---	---	---	---	---	---	---	38.79	9.80	28.99	---
S-2	09/30/1999	177 m	678	135	8.22	14.9	25.8	17,100	17,000 c	---	---	---	---	---	---	38.79	10.58	28.21	5.1/4.8
S-2	12/22/1999	142 m	316	55.8	10.1	5.26	10.4	9,410	8,810	---	---	---	---	---	---	38.79	10.13	28.66	9.6/5.2
S-2	03/09/2000	630 m	2,670	1,190 c	62.7	84.1	125	29,200 c	31,400 c	---	---	---	---	---	---	38.78	7.88	30.90	7.6/5.0
S-2	06/20/2000	401 m	<5,000	348	<50.0	50.4	127	35,800	33,900 c	---	---	---	---	---	---	38.78	10.19	28.59	0.5/1.6
S-2	09/05/2000	373 m	<5,000	106	<50.0	<50.0	<50.0	25,800	37,100 c	---	---	---	---	---	---	38.78	10.19	28.59	0.5/1.6
S-2	12/04/2000	1,730 m	<250	4.37	<2.50	<2.50	<2.50	4,500	5,130 c	---	---	---	---	---	---	38.78	10.30	28.48	10.6/9.4
S-2	12/12/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.78	9.66	29.12	---
S-2	03/08/2001	<51.3	<2,500	318	45.7	53.5	88.5	15,500	17,500	---	---	---	---	---	---	38.78	8.57	30.21	2.7 e
S-2	06/07/2001	11,000	18,000	450	170	390	2,200	13,000	18,000	---	---	---	---	---	---	38.78	9.39	29.39	1.1/2.0
S-2	09/13/2001	<5,000	13,000	140	110	350	1,400	---	9,200	---	---	---	---	---	---	38.78	10.34	28.44	11.0/4.5
S-2	11/19/2001	8,700	15,000	71	27	86	330	---	7,500	---	---	---	---	---	---	38.78	9.90	28.88	5.0/3.1
S-2	03/18/2002	14,000	3,700	93	<20	35	100	---	7,500	---	---	---	---	---	---	38.78	9.91	28.87	0.9/4.2
S-2	06/19/2002	<2,000	2,100	92	<10	24	50	---	4,700	---	---	---	---	---	---	38.78	9.98	28.80	---
S-2	09/11/2002	<450	2,100	54	<5.0	19	55	---	1,900	---	---	---	---	---	---	38.78	10.25	28.53	3.5
S-2	12/11/2002	1,900	570	9.4	<2.5	7.2	14	---	1,100	---	---	---	---	---	---	38.47	9.99	28.48	2.0
S-2	03/11/2003	<1,800	2,900	150	5.5	54	84	---	870	---	---	---	---	---	---	38.47	9.25	29.22	2.4
S-2	06/10/2003	840 m	2,200	83	<5.0	22	52	---	970	---	---	---	---	---	---	38.47	9.20	29.27	5.0
S-2	09/09/2003	270 m	1,200	57	<2.5	11	33	---	740	---	---	---	---	---	---	38.47	9.70	28.77	3.7
S-2	12/09/2003	1,900 m	3,100	84	<5.0	45	90	---	660	---	---	---	---	---	---	38.47	9.31	29.16	24.21
S-2	03/09/2004	990 m	1,600	140	<5.0	31	49	---	610	---	---	---	---	---	---	38.47	8.24	30.23	2.6
S-2	06/08/2004	400 m	640	40	<2.5	4.2	6.6	---	460	---	---	---	---	---	---	38.47	9.40	29.07	8.2
S-2	09/07/2004	240 i	<100	6.6	<1.0	1.3	2.3	---	140	450	<4.0	<4.0	<4.0	---	---	38.47	9.78	28.69	2.4
S-2	12/06/2004	140 m	260	26	<1.0	2.0	<2.0	---	270	---	---	---	---	---	---	38.47	9.45	29.02	8.5
S-2	03/07/2005	450 i	2,300	100	<5.0	11	<10	---	570	---	---	---	---	---	---	38.47	7.82	30.65	16.7
S-2	06/10/2005	550 m	<2,500	200	<25	<25	<50	---	630	---	---	---	---	---	---	38.47	8.37	30.10	0.70
S-2	07/14/2005	Well destroyed	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (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)	DO Reading (mg/L)
S-3	05/28/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.33	8.45	28.88	---
S-3	06/03/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.33	8.36	28.97	---
S-3	01/19/1900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.33	8.41	28.92	---
S-3	06/29/1993	---	29,000	1,500	1,800	950	6,200	---	---	---	---	---	---	---	---	37.33	---	---	---
S-3	09/21/1993	---	15,000	900	2,200	2,600	11,000	---	---	---	---	---	---	---	---	37.33	10.08	27.25	---
S-3	12/14/1993	---	20,000	1,100	2,400	1,800	8,500	---	---	---	---	---	---	---	---	37.33	8.80	28.53	---
S-3	03/17/1994	---	14,000	580	190	750	1,700	---	---	---	---	---	---	---	---	37.33	8.34	28.99	---
S-3	06/16/1994	---	20,000	700	690	1,400	4,100	---	---	---	---	---	---	---	---	37.33	9.12	28.21	---
S-3 (D)	06/16/1994	---	19,000	680	560	1,300	3,700	---	---	---	---	---	---	---	---	37.33	---	---	---
S-3	09/22/1994	---	24,000	630	1,100	1,400	5,700	---	---	---	---	---	---	---	---	37.33	10.27	27.06	---
S-3 (D)	09/22/1994	---	25,000	720	1,100	1,500	6,100	---	---	---	---	---	---	---	---	37.33	---	---	---
S-3	12/15/1994	---	18,000	520	800	1,100	4,200	---	---	---	---	---	---	---	---	37.33	7.81	29.52	---
S-3 (D)	12/15/1994	---	23,000	1,000	1,900	2,000	8,600	---	---	---	---	---	---	---	---	37.33	---	---	---
S-3	03/30/1995	---	8,800 c	360 c	730 c	700 c	3,700 c	---	---	---	---	---	---	---	---	37.33	7.06	30.27	---
S-3 (D)	03/30/1995	---	7,600 c	330 c	570 c	600 c	2,600 c	---	---	---	---	---	---	---	---	37.33	---	---	---
S-3	06/20/1995	---	9,600	510	170	960	1,700	---	---	---	---	---	---	---	---	37.33	8.15	29.18	---
S-3 (D)	06/20/1995	---	9,800	500	170	950	1,700	---	---	---	---	---	---	---	---	37.33	---	---	---
S-3	09/20/1995	---	21,000	400	560	1,300	4,600	---	---	---	---	---	---	---	---	37.33	9.32	28.01	---
S-3	12/06/1995	---	24,000	630	1,400	1,400	6,000	---	---	---	---	---	---	---	---	37.33	10.53	26.80	---
S-3 (D)	12/06/1995	---	22,000	630	1,200	1,400	5,500	---	---	---	---	---	---	---	---	37.33	---	---	---
S-3	03/21/1996	---	9,100	290	110	490	1,600	---	---	---	---	---	---	---	---	37.33	7.32	30.01	---
S-3 (D)	03/21/1996	---	11,000	310	250	540	2,100	---	---	---	---	---	---	---	---	37.33	---	---	---
S-3	09/06/1996	---	15,000	440	300	1,100	3,000	500	---	---	---	---	---	---	---	37.33	10.10	27.23	---
S-3 (D)	09/06/1996	---	11,000	490	170	820	1,500	700	---	---	---	---	---	---	---	37.33	---	---	---
S-3	12/19/1996	---	12,000	600	380	850	2,500	380	---	---	---	---	---	---	---	37.33	8.36	28.97	---
S-3 (D)	12/19/1996	---	12,000	590	380	830	2,500	540	---	---	---	---	---	---	---	37.33	8.36	28.97	---
S-3	03/17/1997	---	12,000	520	140	740	1,400	320	---	---	---	---	---	---	---	37.33	8.57	28.76	---
S-3 (D)	03/17/1997	---	9,600	500	100	680	1,100	<250	---	---	---	---	---	---	---	37.33	8.57	28.76	---
S-3	06/11/1997	---	9,600	510	94	740	1,100	410	---	---	---	---	---	---	---	37.33	9.26	28.07	---
S-3	09/17/1997	---	21,000	140	560	1,800	7,200	130	---	---	---	---	---	---	---	37.33	9.62	27.71	---
S-3	12/11/1997	---	24,000	530	970	1,600	6,900	950	---	---	---	---	---	---	---	37.33	7.34	29.99	---
S-3 (D)	12/11/1997	---	29,000	520	1,000	1,600	7,300	970	---	---	---	---	---	---	---	37.33	7.34	29.99	---
S-3	03/16/1998	---	29,000	840	810	1,700	6,000	<250	---	---	---	---	---	---	---	37.33	5.75	31.58	3.0/3.4
S-3	06/23/1998	---	3,800	90	220	240	1,400	<50	---	---	---	---	---	---	---	37.33	5.98	31.35	4.2/2.0
S-3	09/01/1998	---	9,600	480	120	870	1,800	490	<50	---	---	---	---	---	---	37.33	8.98	28.35	1.9/2.8
S-3 (D)	09/01/1998	---	9,200	420	110	800	1,700	110	<50	---	---	---	---	---	---	37.33	8.98	28.35	1.9/2.8
S-3	12/30/1998	---	7,660	240	103	410	834	64.9	---	---	---	---	---	---	---	37.33	9.11	28.22	1.8/1.6
S-3	03/30/1999	---	2,070	195	10.0	<5.00	48.6	354	64.6	---	---	---	---	---	---	37.33	6.95	30.38	1.3/1.5
S-3	03/31/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.33	7.48	29.85	---

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (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)	DO Reading (mg/L)
S-3	06/14/1999	---	1,250	37.4	17.4	110	109	118	---	---	---	---	---	---	---	37.33	8.85	28.48	---
S-3	09/30/1999	2,020 m	8,270	226	113	686	1,440	184	---	---	---	---	---	---	---	37.33	9.66	27.67	3.5/2.8
S-3	12/22/1999	2,270 m	9,530	207	132	603	1,450	616	---	---	---	---	---	---	---	37.33	9.50	27.83	0.98/0.8
S-3	03/09/2000	1,600 m	2,290 c	84.5 c	17.0 c	104 c	105 c	29.3 c	---	---	---	---	---	---	---	37.30	6.25	31.05	1.0/1.4
S-3	06/20/2000	2,900 m	5,570	117	41.6	395	393	354	---	---	---	---	---	---	---	37.30	9.67	27.63	1.8/2.0
S-3	09/05/2000	1,600 m	6,930	127	85.5	354	535	509	---	---	---	---	---	---	---	37.30	9.49	27.81	1.1/1.9
S-3	12/04/2000	1,460 m	8,390	217	82.4	471	952	436	---	---	---	---	---	---	---	37.30	9.23	28.07	1.1/1.5
S-3	12/12/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.30	9.23	28.07	---
S-3	03/08/2001	1,720 m	19,400	465	772	1,230	3,830	160	---	---	---	---	---	---	---	37.30	8.17	29.13	1.1 f
S-3	06/07/2001	1,400	12,000	230	110	900	1,100	120	---	---	---	---	---	---	---	37.30	8.78	28.52	0.8/0.9
S-3	09/13/2001	<2,000	32,000	400	880	2,000	7,000	---	<100	---	---	---	---	---	---	37.30	9.93	27.37	3.7/2.9
S-3	11/19/2001	<2,000	26,000	160	210	990	4,100	---	<50	---	---	---	---	---	---	37.30	9.33	27.97	2.9/1.9
S-3	03/18/2002	810	3,800	61	120	130	620	---	5.0	---	---	---	---	---	---	37.30	7.03	30.27	1.1/4.7
S-3	06/19/2002	<500	3,200	48	81	160	360	---	9.4	---	---	---	---	---	---	37.30	8.92	28.38	---
S-3	09/11/2002	<1,100	16,000	230	570	980	3,900	---	<50	---	---	---	---	---	---	37.30	9.54	27.76	3.0
S-3	12/11/2002	<1,500	16,000	130	270	770	3,000	---	<50	---	---	---	---	---	---	36.85	9.23	27.62	1.6
S-3	03/11/2003	<1,500	8,100	29	110	190	1,700	---	<20	---	---	---	---	---	---	36.85	7.32	29.53	3.9
S-3	06/10/2003	Well inaccessible	---	---	---	---	---	---	---	---	---	---	---	---	---	36.85	---	---	---
S-3	09/09/2003	640 m	5,900	44	140	130	1,500	---	4.4	---	---	---	---	---	---	36.85	8.99	27.86	2.2
S-3	12/09/2003	1,500 m	27,000	130	460	550	4,900	---	<20	---	---	---	---	---	---	36.85	7.67	29.18	1.6
S-3	03/09/2004	1,700 m	11,000	24	100	230	3,200	---	<5.0	---	---	---	---	---	---	36.85	6.35	30.50	2.1
S-3	06/08/2004	1,100 m	1,700	11	34	29	420	---	<2.5	---	---	---	---	---	---	36.85	8.25	28.60	0.1
S-3	09/07/2004	310 i	850	13	0.99	23	17	---	7.0	<5.0	<2.0	<2.0	<2.0	---	---	36.85	9.05	27.80	0.1
S-3	12/06/2004	Unable to sample	---	---	---	---	---	---	---	---	---	---	---	---	---	36.85	7.70	29.15	---
S-3	12/15/2004	270 i	620	1.9	7.8	10	180	---	<0.50	---	---	---	---	---	---	36.85	5.83	31.02	2.4
S-3	03/07/2005	400 i	4,500	<0.50	7.7	30	350	---	<0.50	---	---	---	---	---	---	36.85	4.58	32.27	4.4
S-3	06/10/2005	130 m	850	<0.50	1.3	7.4	53	---	<0.50	---	---	---	---	---	---	36.85	5.40	31.45	0.17
S-3	07/14/2005	Well destroyed	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-4	03/29/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.06	8.37	30.69	---
S-4	03/31/2000	5,780 m	20,900	4,570	272	595	997	4,490	4,450 c	---	---	---	---	---	---	39.06	8.92	30.14	1.8/1.2
S-4	06/20/2000	244 m	19,500	4,590	309	723	1,290	3,740	---	---	---	---	---	---	---	39.06	8.77	30.29	2.7/2.9
S-4	09/05/2000	1,670 m	5,760	841	54.2	162	115	1,040	---	---	---	---	---	---	---	39.06	10.57	28.49	1.3/0.3
S-4	12/04/2000	1,050 m	3,990	949	<10.0	118	48.3	1,120	---	---	---	---	---	---	---	39.06	10.67	28.39	1.1/1.0
S-4	12/12/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.06	10.64	28.42	---
S-4	03/08/2001	5,840 m	20,100	5,210	105	381	281	2,520	---	---	---	---	---	---	---	39.06	8.44	30.62	1.0/0.9
S-4	06/07/2001	3,500	11,000	2,500	86	370	170	2,000	---	---	---	---	---	---	---	39.06	10.57	28.49	0.7/0.6
S-4	09/13/2001	<800	4,200	790	14	110	48	---	690	---	---	---	---	---	---	39.06	11.27	27.79	3.8/3.9
S-4	11/19/2001	<600	2,300	230	4.1	21	22	---	590	---	---	---	---	---	---	39.06	10.83	28.23	3.6/1.6

TABLE 1

**GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (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)	DO Reading (mg/L)
S-4	03/18/2002	Unable to sample		---	---	---	---	---	---	---	---	---	---	---	---	39.06	8.75	30.31	---
S-4	03/29/2002	---	14,000	1,700	30	280	250	---	960	---	---	---	---	---	---	39.06	8.85 g	30.21	3.0/3.1
S-4	06/19/2002	<1,500	4,700	620	9.5	84	37	---	490	---	---	---	---	---	---	---	10.37 g	---	---
S-4	09/11/2002	280	2,700	280	4.6	23	13	---	410	---	---	---	---	---	---	---	11.14	---	0.6
S-4	12/11/2002	<900	3,300	320	5.7	24	15	---	420	---	---	---	---	---	---	38.69	10.78	27.91	2.2
S-4	03/11/2003	<5,600	12,000	1,900	63	360	280	---	930	---	---	---	---	---	---	38.69	9.31	29.38	1.5
S-4	06/10/2003	3,100 m	13,000	2,400	86	650	380	---	1,100	---	---	---	---	---	---	38.69	9.77	28.92	0.8
S-4	09/09/2003	1,700 m	3,700	510	12	43	43	---	650	---	---	---	---	---	---	38.69	10.78	27.91	0.9
S-4	12/09/2003	390 m	3,900	150	4.2	7.5	13	---	510	---	---	---	---	---	---	38.69	10.20	28.49	0.1
S-4	03/09/2004	3,100 m	13,000	2,500	110	810	1,100	---	1,100	---	---	---	---	---	---	38.69	7.67	31.02	0.7
S-4	06/08/2004	1,400 m	6,100	870	30	120	150	---	420	---	---	---	---	---	---	38.69	10.27	28.42	0.3
S-4	09/07/2004	890 i	3,100	290	6.4	18	14	---	250	140	<10	<10	<10	---	---	38.69	10.91	27.78	0.1
S-4	12/06/2004	670 i	4,900	520	9.9	38	24	---	290	---	---	---	---	---	---	38.69	10.03	28.66	0.2
S-4	03/07/2005	2,900 i	28,000	2,300	130	690	770	---	770	---	---	---	---	---	---	38.69	6.20	32.49	0.2
S-4	06/10/2005	2,700 i	13,000	1,900	81	380	460	---	890	---	---	---	---	---	---	38.69	8.90	29.79	0.15
S-4	07/14/2005	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-5	05/31/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.54	---	---
S-5	06/19/2002	<2,000	16,000	2,600	320	180	1,600	---	5,300	---	---	---	---	---	---	---	9.87	---	---
S-5	09/11/2002	<1,200	8,800	1,500	64	89	120	---	5,600	---	---	---	---	---	---	---	10.28	---	0.9
S-5	12/11/2002	<1,000	4,400	280	61	130	130	---	4,000	---	---	---	---	---	---	---	9.87	---	2.9
S-5	03/11/2003	<900	2,300	28	5.6	59	15	---	2,400	---	---	---	---	---	---	38.05	8.26	29.79	1.6
S-5	06/10/2003	620 m	2,400	11	7.2	56	38	---	1,100	---	---	---	---	---	---	38.05	8.51	29.54	0.1
S-5	09/09/2003	660 m	3,700	23	14	44	150	---	440	---	---	---	---	---	---	38.05	9.44	28.61	0.1
S-5	12/09/2003	600 m	12,000	200	80	41	320	---	580	---	---	---	---	---	---	38.05	9.50	28.55	0.4
S-5	03/09/2004	550 m	2,300	130	3.5	6.9	13	---	250	---	---	---	---	---	---	38.05	7.04	31.01	0.2
S-5	06/08/2004	490 m	2,900	11	<2.5	8.9	18	---	120	---	---	---	---	---	---	38.05	8.87	29.18	0.2
S-5	09/07/2004	650 i	3,600	17	11	12	30	---	120	3,700	<10	<10	<10	---	---	38.05	9.45	28.60	0.1
S-5	12/06/2004	460 i	4,700	99	28	14	69	---	180	---	---	---	---	---	---	38.05	8.75	29.30	0.1
S-5	03/07/2005	360 i	4,700	440	<2.5	<2.5	<5.0	---	200	---	---	---	---	---	---	38.05	7.28	30.77	0.1
S-5	06/10/2005	240 i	1,200	1.3	<0.50	<0.50	1.2	---	80	---	---	---	---	---	---	38.05	7.26	30.79	0.25
S-5	07/14/2005	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-6	02/22/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.86	8.18	29.68	---
S-6	03/02/2007	1,700	5,100 c	630 c	23	200	110	---	140	280	---	---	---	13	<0.50	37.86	7.73	30.13	---
S-6	05/23/2007	2,600	5,600 l	510	16	11	144	---	72	66	---	---	---	<2.5	<5.0	37.86	8.13	29.73	---
S-6	08/28/2007	6,100 m	13,000 l	650	32	480	242	---	78	320	6.1	<10	<10	<2.5	<5.0	37.86	8.44	29.42	---
S-6	11/13/2007	6,400 m	19,000 l	760	47	500	602	---	68	340	---	---	---	<5.0	<10	37.86	8.78	29.08	---
S-6	02/08/2008	2,200 m	6,800 l	380	14	130	87.0	---	75	200	---	---	---	<2.5	<5.0	37.86	7.06	30.80	---

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (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)	DO Reading (mg/L)
S-6	05/20/2008	2,900 m	12,000 l	590	21	270	60	---	54	240	---	---	---	<2.5	<5.0	37.86	8.60	29.26	---
S-6	08/12/2008	7,100 m	22,000	890	75	450	1,170	---	71	200	<20	<20	<20	<5.0	<10	37.86	9.21	28.65	---
S-6	12/02/2008	4,600 m	26,000	1,500	170	670	1,500	---	87	260	---	---	---	<5.0	<10	37.86	8.72	29.14	---
S-6	02/05/2009	5,200 m	29,000	1,200	210	910	3,400	---	78	230	---	---	---	<5.0	<10	37.86	9.19	28.67	---
S-6	05/19/2009	1,900 m	8,600	660	22	120	110	---	94	460	---	---	---	<5.0	<10	37.86	8.26	29.60	---
S-6	09/29/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.86	6.70	31.16	---
S-6	12/23/2009	1,800 m	4,800	550	12	38	16	---	170	290	<20	<20	<20	<5.0	<10	37.86	6.01	31.85	---
S-6	03/16/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.86	5.65	32.21	---
S-6	06/21/2010	2,700 m	8,300	360	11	67	56	---	130	250	---	---	---	<2.5	<5.0	37.86	8.89	28.97	---
S-6	12/28/2010	2,200 m	6,100	290	11	60	41	---	49	210	5.5	<4.0	<4.0	<1.0	<2.0	37.86	7.63	30.23	---
S-6	12/23/2011	2,400	12,000	760	24	76	49	---	61	320	<10	<10	<10	<5.0	<5.0	37.86	8.34	29.52	---
S-7	02/22/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.58	7.39	30.19	---
S-7	03/02/2007	2,500	100,000 c	32,000 c	9,700 c	2,900 c	14,000 c	---	310 c	480	---	---	---	150	<0.50	37.58	7.42	30.16	---
S-7	05/23/2007	3,700	82,000 l,m	24,000	8,100	2,800	13,000	---	190	<200	---	---	---	<10	<20	37.58	8.38	29.20	---
S-7	08/28/2007	4,500 m	96,000 l	23,000	7,000	2,900	12,200	---	190 n	<2,000	<400	<400	<400	<100	<200	37.58	9.32	28.26	---
S-7	11/13/2007	25,000 m	100,000 l	22,000	6,500	3,000	12,400	---	<200	<2,000	---	---	---	<100	<200	37.58	9.60	27.98	---
S-7	02/08/2008	4,000 m	74,000 l	29,000	9,300	3,100	13,700	---	500	<2,000	---	---	---	<100	<200	37.58	6.57	31.01	---
S-7	05/20/2008	1,600 m	69,000 l	20,000	5,500	2,500	9,800	---	260	<2,000	---	---	---	<100	<200	37.58	9.00	28.58	---
S-7	08/12/2008	4,900 m	120,000	25,000	8,400	2,800	11,700	---	<200	<2,000	<400	<400	<400	<100	<200	37.58	9.81	27.77	---
S-7	12/02/2008	4,300 m	120,000	24,000	8,400	3,600	15,000	---	320	<2,000	---	---	---	<100	<200	37.58	9.91	27.67	---
S-7	02/05/2009	3,800 m	99,000	25,000	7,600	2,500	12,000	---	370	<2,000	---	---	---	<100	<200	37.58	9.30	28.28	---
S-7	05/19/2009	3,300 m	64,000	16,000	4,400	2,100	7,100	---	250	<2,000	---	---	---	<100	<200	37.58	8.30	29.28	---
S-7	09/29/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.57	6.13	31.44	---
S-7	12/23/2009	3,900 m	98,000	25,000	7,100	2,100	9,000	---	400	<2000	<400	<400	<400	<100	<200	37.57	5.32	32.25	---
S-7	03/16/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.57	4.82	32.75	---
S-7	06/21/2010	2,400 m	42,000	11,000	2,300	1,300	4,600	---	180	<1,000	---	---	---	<50	<100	37.57	8.19	29.38	---
S-7	12/28/2010	3,500 m	48,000	13,000	3,700	1,800	7,200	---	160	<1,000	<200	<200	<200	<50	<100	37.57	7.05	30.52	---
S-7	12/23/2011	3,200	40,000	11,000	3,300	1,400	6,600	---	<200	<2,000	<200	<200	<200	<100	<100	37.57	8.02	29.55	---
S-8	02/22/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.05	6.65	30.40	---
S-8	03/02/2007	2,300	72,000 c	12,000 c	5,600 c	2,900 c	15,000 c	---	120	230	---	---	---	150	<2.5	37.05	6.60	30.45	---
S-8	05/23/2007	5,800	69,000 l,m	12,000	6,700	3,100	19,500	---	160	280	---	---	---	<10	<20	37.05	7.91	29.14	---
S-8	08/28/2007	6,700 m	69,000 l	11,000	4,800	3,100	16,800	---	170	<1,000	<200	<200	<200	<50	<100	37.05	8.79	28.26	---
S-8	11/13/2007	21,000 m	84,000 l	10,000	5,000	3,300	18,300	---	290	<1,000	---	---	---	<50	<100	37.05	8.93	28.12	---
S-8	02/08/2008	4,500 m	54,000 l	11,000	5,500	3,500	18,200	---	200	<1,000	---	---	---	<50	<100	37.05	6.26	30.79	---
S-8	05/20/2008	2,200 m	67,000 l	10,000	5,400	3,900	19,600	---	160	<1,000	---	---	---	<50	<100	37.05	7.40	29.65	---
S-8	08/12/2008	5,200 m	77,000	9,300	3,200	2,500	14,300	---	210	<1,000	<200	<200	<200	<50	<100	37.05	9.10	27.95	---
S-8	12/02/2008	3,600 m	70,000	9,500	2,700	2,500	12,300	---	290	1,200	---	---	---	<50	<100	37.05	9.39	27.66	---

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (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)	DO Reading (mg/L)
S-8	02/05/2009	3,500 m	74,000	10,000	3,500	2,600	15,000	--	240	<1,000	--	--	--	<50	<100	37.05	8.75	28.30	--
S-8	05/19/2009	340 m	69,000	8,200	3,700	2,900	14,000	--	<100	<1,000	--	--	--	<50	<100	37.05	7.56	29.49	--
S-8	09/29/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37.05	5.82	31.23	--
S-8	12/23/2009	4,400 m	58,000	7,800	2,000	2,100	11,000	--	170	<1000	<200	<200	<200	<50	<100	37.05	7.02	30.03	--
S-8	03/16/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37.05	4.26	32.79	--
S-8	06/21/2010	3,900 m	74,000	11,000	3,900	3,000	15,000	--	160	<1,000	--	--	--	<50	<100	37.05	7.77	29.28	--
S-8	12/28/2010	4,900 m	57,000	8,700	2,700	2,900	14,000	--	200	<1,000	<200	<200	<200	<50	<100	37.05	6.93	30.12	--
S-8	12/23/2011	4,300	55,000	9,500	3,000	3,700	15,000	--	<200	<2,000	<200	<200	<200	<100	<100	37.05	8.77	28.28	--
S-9	02/22/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37.52	7.59	29.93	--
S-9	03/02/2007	1,400	12,000	150	200	1,200	2,500	--	5.8	<50	--	--	--	<5.0	<5.0	37.52	7.30	30.22	--
S-9	05/23/2007	2,300	8,200	13	38	2.5 n	1,453	--	5.2 n	<100	--	--	--	<5.0	<10	37.52	8.43	29.09	--
S-9	08/28/2007	2,800 m	9,500	21	49	540	789	--	<10	<100	<20	<20	<20	<5.0	<10	37.52	9.59	27.93	--
S-9	11/13/2007	2,100 m	12,000	19	35	450	499	--	<10	<100	--	--	--	<5.0	<10	37.52	9.91	27.61	--
S-9	02/08/2008	1,900 m	10,000	18	67	1,100	1,451	--	<10	<100	--	--	--	<5.0	<10	37.52	6.40	31.12	--
S-9	05/20/2008	1,500 m	11,000	150	770	13,000	17,460	--	<100	<1,000	--	--	--	<50	<100	37.52	8.79	28.73	--
S-9	08/12/2008	2,000 m	9,400	16	59	700	834	--	<10	<100	<20	<20	<20	<5.0	<10	37.52	10.00	27.52	--
S-9	12/02/2008	1,300 m	14,000	10	62	980	1,139	--	<10	<100	--	--	--	<5.0	<10	37.52	10.22	27.30	--
S-9	02/05/2009	1,400 m	6,300	11	33	480	600	--	<10	<100	--	--	--	<5.0	<10	37.52	9.49	28.03	--
S-9	05/19/2009	1,500 m	12,000	11	64	940	880	--	<5.0	<50	--	--	--	<2.5	<5.0	37.52	8.20	29.32	--
S-9	09/29/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37.52	5.51	32.01	--
S-9	12/23/2009	200 m	890	1.4	<1.0	16	14	--	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	37.52	4.61	32.91	--
S-9	03/16/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37.52	5.95	31.57	--
S-9	06/21/2010	520 m	1,300	2.4	4.2	180	26	--	<1.0	<10	--	--	--	<0.50	<1.0	37.52	8.29	29.23	--
S-9	12/28/2010	1,100 m	7,200	3.8	12	650	510	--	<5.0	<50	<10	<10	<10	<2.5	<5.0	37.52	7.04	30.48	--
S-9	12/23/2011	1,300	6,500	6.7	16	240	200	--	<4.0	<40	<4.0	<4.0	<4.0	<2.0	<2.0	37.52	8.48	29.04	--
S-10	09/22/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37.43	4.98	32.45	--
S-10	09/29/2009	<50	320	<0.50	<1.0	<1.0	<1.0	--	<1.0	<10	--	--	--	<0.50	<1.0	37.43	5.07	32.36	--
S-10	12/23/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	--	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	37.43	4.48	32.95	--
S-10	03/16/2010	<50	140	<0.50	<1.0	<1.0	<1.0	--	<1.0	<10	--	--	--	<0.50	<1.0	37.43	4.47	32.96	--
S-10	06/21/2010	<50	130	<0.50	<1.0	<1.0	<1.0	--	<1.0	<10	--	--	--	<0.50	<1.0	37.43	8.28	29.15	--
S-10	12/28/2010	<50	140	<0.50	<1.0	<1.0	<1.0	--	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	37.43	7.09	30.34	--
S-10	12/23/2011	<47	130	<0.50	<0.50	<0.50	<1.0	--	<1.0	<10	<1.0	<1.0	<1.0	<0.50	<0.50	37.43	8.20	29.23	--
S-11	09/22/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	36.44	4.50	31.94	--
S-11	09/29/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	--	<1.0	<10	--	--	--	<0.50	<1.0	36.44	3.88	32.56	--
S-11	12/23/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	--	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	36.44	3.71	32.73	--
S-11	03/16/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	--	<1.0	<10	--	--	--	<0.50	<1.0	36.44	3.30	33.14	--

**GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (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)	DO Reading (mg/L)
S-11	06/21/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	<0.50	<1.0	36.44	7.49	28.95	---
S-11	12/28/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	36.44	5.96	30.48	---
S-11	12/23/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	<1.0	<1.0	<1.0	<0.50	<0.50	36.44	7.28	29.16	---
S-12	09/22/2009	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	36.00	---	---	---
S-12	09/25/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	36.00	5.10	30.90	---
S-12	09/29/2009	91 m	280	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	<0.50	<1.0	36.00	3.62	32.38	---
S-12	12/23/2009	120 m	340	<0.50	<1.0	<1.0	<1.0	---	<1.0	15	<2.0	<2.0	<2.0	<0.50	<1.0	36.00	2.91	33.09	---
S-12	03/16/2010	<50	78	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	<0.50	<1.0	36.00	2.78	33.22	---
S-12	06/21/2010	210 m	380	7.6	<1.0	<1.0	<1.0	---	4.8	50	---	---	---	<0.50	<1.0	36.00	8.48	27.52	---
S-12	12/28/2010	81	410	<0.50	<1.0	<1.0	<1.0	---	<1.0	30	2.4	<2.0	<2.0	<0.50	<1.0	36.00	5.60	30.40	---
S-12	12/23/2011	140	490	<0.50	<0.50	<0.50	<1.0	---	<1.0	14	1.4	<1.0	<1.0	<0.50	<0.50	36.00	7.01	28.99	---
BW-A	09/30/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.55	---	2.3
BW-A	12/22/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.52	---	2.2
BW-A	03/09/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.99	---	1.5
BW-A	06/20/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.69	---	2.4
BW-A	09/05/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.43	---	1.0
BW-A	12/04/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8.96	---	1.3
BW-A	12/12/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8.71	---	---
BW-A	03/08/2001	1,370 m	<2,500	46.6	<25.0	<25.0	<25.0	10,600	11,700	---	---	---	---	---	---	---	6.38	---	0.9/1.4
BW-A	06/07/2001	960	1,100	<10	<10	<10	17	7,200	---	---	---	---	---	---	---	---	9.82	---	3.6/0.8
BW-A	09/13/2001	460	<2,000	<20	<20	<20	<50	---	13,000	---	---	---	---	---	---	---	10.49	---	3.3/1.7
BW-A	11/19/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.89	---	---

Notes:

TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method 8015; after February 22, 2007, analyzed with silica gel cleanup.

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to September 13, 2001, analyzed by EPA Method 8015 unless otherwise noted.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to September 13, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary-butyl ether analyzed by method noted

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

DO = Dissolved oxygen

**GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>TPHd</i> ($\mu\text{g/L}$)	<i>TPHg</i> ($\mu\text{g/L}$)	<i>B</i> ($\mu\text{g/L}$)	<i>T</i> ($\mu\text{g/L}$)	<i>E</i> ($\mu\text{g/L}$)	<i>X</i> ($\mu\text{g/L}$)	<i>MTBE</i> 8020 ($\mu\text{g/L}$)	<i>MTBE</i> 8260 ($\mu\text{g/L}$)	<i>TBA</i> ($\mu\text{g/L}$)	<i>DIPE</i> ($\mu\text{g/L}$)	<i>ETBE</i> ($\mu\text{g/L}$)	<i>TAME</i> ($\mu\text{g/L}$)	<i>1,2-DCA</i> ($\mu\text{g/L}$)	<i>EDB</i> ($\mu\text{g/L}$)	<i>TOC</i> (ft MSL)	<i>Depth to Water</i> (ft TOC)	<i>GW Elevation</i> (ft MSL)	<i>DO Reading</i> (mg/L)
----------------	-------------	------------------------------------	------------------------------------	---------------------------------	---------------------------------	---------------------------------	---------------------------------	--	--	-----------------------------------	------------------------------------	------------------------------------	------------------------------------	---------------------------------------	-----------------------------------	------------------------	-----------------------------------	---------------------------------	-----------------------------

$\mu\text{g/L}$ = Micrograms per liter

ft = Feet

MSL = Mean sea level

mg/L = Milligrams per liter

<x = Not detected at reporting limit x

--- = Not analyzed or not available

x/x = Pre-purge/post-purge DO reading

c = Sample analyzed outside the EPA recommended holding time

e = Post-purge DO reading.

f = Pre-purge DO reading.

g = Estimated depth to water.

i = Hydrocarbon reported is in the early diesel range and does not match the laboratory's standard.

l = Analyzed by EPA Method 8015B (M).

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

n = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

Prior to December 12, 2002, depth to water referenced to top of well box elevation.

Wells S-1 through S-4 surveyed February 3, 2000 by Virgil Chavez Land Surveying

Wells S-1 through S-4 surveyed March 5, 2002 by Virgil Chavez Land Surveying

Well S-5 surveyed May 29, 2003 by Virgil Chavez Land Surveying

Wells S-6 through S-9 surveyed February 21, 2007 by Virgil Chavez Land Surveying

Wells S-6 through S-12 surveyed October 26, 2009 by Virgil Chavez Land Surveying

APPENDIX A

BLAINE TECH SERVICES, INC. -
FIELD NOTES

WELL GAUGING DATA

Project # 111223-GRI Date 12/23/2011 Client Shell

Site 4411 Foothill Blvd. ; Oakland, CA

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 TOB	Notes
S-6	0726	4					8.34	19.35		
S-7	0730	4				8.02	19.40			
S-8	0735	4				8.77	19.60			
S-9	0722	4				8.48	19.46			
S-10	0705	4				8.20	19.53			
S-11	0700	4				7.28	19.61			
S-12	0710	4				7.01	19.62			

SHELL WELL MONITORING DATA SHEET

BTS #: 11223-GR1	Site: 4411 Foothill Blvd. ; Oakland, CA
Sampler: GR	Date: 12/23/2011
Well I.D.: S-6	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 19.35	Depth to Water (DTW): 8.34
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]: 10.54	

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

$7.5 \text{ (Gals.)} \times 3 = 22.5 \text{ Gals.}$ 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>radius² * 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 ² * 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 ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
0952	62.8	6.83	1630	21	7.5	Odor
0953		well	dewatered		10.5	DTW - 16.09
1037	58.7	6.96	1621	9	Grab	

Did well dewater? Yes No Gallons actually evacuated: 10.5

Sampling Date: 12/23/2011 Sampling Time: 1037 Depth to Water: 8.37

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

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

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 #: 111223-GR1	Site: 4411 Foothill Blvd.; Oakland, CA
Sampler: GR	Date: 12/23/2011
Well I.D.: S-7	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 19.40	Depth to Water (DTW): 8.02
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]: 10.30	

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: _____

7.5 (Gals.) X 3 = 22.5 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 ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1005	63.5	6.75	1887	16	7.5	odor
1006		well	dewatered		10.5	DTW-15.68
1207	62.9	6.75	1842	11	Grab	

Did well dewater? Yes No Gallons actually evacuated: 10.5

Sampling Date: 12/23/2011 Sampling Time: 1207 Depth to Water: 10.81 (>2 hrs)

Sample I.D.: S-7 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 #: 111223-GR1	Site: 5411 Foothill Blvd. ; Oakland, CA
Sampler: GR	Date: 12/23/2011
Well I.D.: S-8	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 19.60	Depth to Water (DTW): 8.77
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]: 10.94	

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: _____

$\underline{7.0} \text{ (Gals.)} \times \underline{3} = \underline{21.0} \text{ Gals.}$ 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>radius² * 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 ² * 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 ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1017	65.0	6.81	1400	16	7.0	odor
1017		well	dewatered		9.5	DTW-15.99
1222	65.7	6.83	1367	8	Grab	

Did well dewater? Yes No Gallons actually evacuated: 9.5

Sampling Date: 12/23/2011 Sampling Time: 1222 Depth to Water: 11.28 (72 hrs)

Sample I.D.: S-8 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 #: 111223-GR1	Site: 4411 Foothill Blvd. ; Oakland, CA
Sampler: GR	Date: 12/23/2011
Well I.D.: S-9	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 19.46	Depth to Water (DTW): 8.48
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.68	

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: _____

7.5 (Gals.) X 3 = 22.5 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>radius² * 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 ² * 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 ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
0936	61.7	6.63	1034	6	7.5	Odor
0937		well	dewatered		13.0	DTW - 16.18
1138	61.2	6.86	1031	7	Grab	

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: 12/23/2011 Sampling Time: 1138 Depth to Water: 13.00 (2 hrs)

Sample I.D.: S-9 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 #: 111223-GR1	Site: 4411 Foothill Blvd.; Oakland, CA
Sampler: GR	Date: 12/23/2011
Well I.D.: S-10	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 19.53	Depth to Water (DTW): 8.20
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]: 10.47	

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

$7.5 \text{ (Gals.)} \times 3 = 22.5 \text{ Gals.}$ 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>radius² * 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 ² * 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 ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
0827	64.6	6.42	685.4	107	7.5	
0829	67.5	6.35	675.8	99	15.0	
0830		well	dewatered		16.5	DTW - 14.65
0837	63.2	6.56	723.2	93	Grab	

Did well dewater? Yes No Gallons actually evacuated: 16.5

Sampling Date: 12/23/2011 Sampling Time: 0837 Depth to Water: 10.45 ^(Short Wait)

Sample I.D.: S-10 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):	mV	mV	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 111223-GR1	Site: 4411 Foothill Blvd. ; Oakland, CA
Sampler: GR	Date: 12/23/2011
Well I.D.: S-11	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 19.61	Depth to Water (DTW): 7.28
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]: 9.75	

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

$8.0 \text{ (Gals.)} \times 3 = 24.0 \text{ Gals.}$ 1 Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <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>radius² * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 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 ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
0812	63.8	6.08	822.7	46	8.0	
0814	64.9	6.20	883.1 3.62 GR	46	16.0	
0814		well	dewatered		16.5	DTW-15.58
					Grab <u>GR</u>	
0915	62.3	6.66	866.2	15	Grab	

Did well dewater? Yes No Gallons actually evacuated: 16.5

Sampling Date: 12/23/2011 Sampling Time: 0915 Depth to Water: 7.89

Sample I.D.: S-11 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 #: 111223-GR1	Site: 5411 Foothill Blvd. ; Oakland, CA
Sampler: GR	Date: 12/23/2011
Well I.D.: S-12	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 19.62	Depth to Water (DTW): 7.01
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]: 9.53	

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: _____

8.5 (Gals.) X	<u>3</u>	= <u>25.5</u> 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 ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
0852	62.6	6.57	1011	109	8.5	odor
0854	65.2	6.62	1178	122	17.0	
0856	66.4	6.64	1189	245	25.5	DTW - 10.19

Did well dewater? Yes No Gallons actually evacuated: 25.5

Sampling Date: 12/23/2011 Sampling Time: 0904 Depth to Water: 8.18 ^(short wait)

Sample I.D.: S-12 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

INCIDENT # 98995746

ADDRESS 4411 Foothill Blvd.

DATE: 12/23/2011

CITY & STATE Oakland, CA

Well ID	Manway Cover, Type, Condition & Size					Observations Upon Arrival								Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition	Repair Date and PM Initials	
						Well Labeled / Painted Properly		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition				
S-6	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N
S-7	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N
S-8	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N
S-9	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N
S-10	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N
S-11	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N
S-12	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

TOTAL # CAPS REPLACED = 0 = TOTAL # OF LOCKS REPLACED 0

Condition of Soil Boring Patches or Abandoned Monitoring Wells:	G	P	<u>N/A</u>	If POOR, Borings/Well IDs or Location Descriptions:		Y	N
---	---	---	------------	---	--	---	---

Remediation Compound Type (Check boxes that apply)	Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted			Photos of Condition	Repair Date and PM Initials
<input checked="" type="checkbox"/> NA																	
<input type="checkbox"/> Building																	
<input type="checkbox"/> Building w/ Fence Comp.	G	P	<u>N/A</u>	G	P	<u>N/A</u>	G	P	<u>N/A</u>	Y	N	<u>N/A</u>			Y	N	
<input type="checkbox"/> Fenced Compound																	
<input type="checkbox"/> Trailer																	

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	
<u>0</u>	Y	N	<u>N/A</u>	Y	N	<u>N/A</u>	G	P	<u>N/A</u>	Y	N	Y	N	<u>N/A</u>		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.

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

Gregory Roberts ; BTS
Print or type Name of Field Personnel & Consultant Company

APPENDIX B

TEST AMERICA -
LABORATORY REPORT

LABORATORY REPORT

Prepared For: Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project: 4411 Foothill Blvd., Oakland, CA

Sampled: 12/23/11
Received: 12/24/11
Issued: 01/12/12 17:33

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

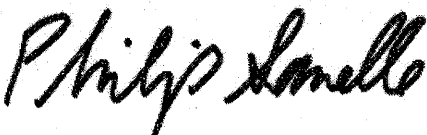
The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IUL2715-01	S-6	Water
IUL2715-02	S-7	Water
IUL2715-03	S-8	Water
IUL2715-04	S-9	Water
IUL2715-05	S-10	Water
IUL2715-06	S-11	Water
IUL2715-07	S-12	Water

Reviewed By:



TestAmerica Irvine

Philip Sanelle
Project Manager

Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 4411 Foothill Blvd., Oakland, CA

Report Number: IUL2715

Sampled: 12/23/11

Received: 12/24/11

EXTRACTABLE FUEL HYDROCARBONS (EPA 8015B w/ Silica Gel Clean-up)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUL2715-01 (S-6 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11L4051	240	2400	4.72	12/30/2011	1/4/2012	Z3
				87 %				
<i>Surrogate: n-Octacosane (45-120%)</i>								
Sample ID: IUL2715-02 (S-7 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11L4051	470	3200	9.43	12/30/2011	1/4/2012	Z3
				84 %				
<i>Surrogate: n-Octacosane (45-120%)</i>								
Sample ID: IUL2715-03 (S-8 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11L4051	470	4300	9.43	12/30/2011	1/4/2012	Z3
				77 %				
<i>Surrogate: n-Octacosane (45-120%)</i>								
Sample ID: IUL2715-04 (S-9 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11L4051	47	1300	0.943	12/30/2011	12/31/2011	
				96 %				
<i>Surrogate: n-Octacosane (45-120%)</i>								
Sample ID: IUL2715-05 (S-10 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11L4051	47	ND	0.943	12/30/2011	12/31/2011	
				84 %				
<i>Surrogate: n-Octacosane (45-120%)</i>								
Sample ID: IUL2715-06 (S-11 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11L4051	47	ND	0.943	12/30/2011	12/31/2011	
				88 %				
<i>Surrogate: n-Octacosane (45-120%)</i>								
Sample ID: IUL2715-07 (S-12 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11L4051	47	140	0.943	12/30/2011	12/31/2011	
				91 %				
<i>Surrogate: n-Octacosane (45-120%)</i>								

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Philip Sanelle
Project Manager

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IUL2715 <Page 2 of 14>

Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 4411 Foothill Blvd., Oakland, CA

Report Number: IUL2715

Sampled: 12/23/11

Received: 12/24/11

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUL2715-01 (S-6 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	12A0009	500	12000	10	1/2/2012	1/2/2012	
Surrogate: Dibromofluoromethane (80-120%)				86 %				
Surrogate: Toluene-d8 (80-120%)				105 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				97 %				
Sample ID: IUL2715-02 (S-7 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	12A0009	10000	40000	200	1/2/2012	1/2/2012	
Surrogate: Dibromofluoromethane (80-120%)				88 %				
Surrogate: Toluene-d8 (80-120%)				97 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				95 %				
Sample ID: IUL2715-03 (S-8 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	12A0009	10000	55000	200	1/2/2012	1/2/2012	
Surrogate: Dibromofluoromethane (80-120%)				88 %				
Surrogate: Toluene-d8 (80-120%)				100 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				94 %				
Sample ID: IUL2715-04 (S-9 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	12A0009	200	6500	4	1/2/2012	1/2/2012	
Surrogate: Dibromofluoromethane (80-120%)				87 %				
Surrogate: Toluene-d8 (80-120%)				103 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				102 %				
Sample ID: IUL2715-05 (S-10 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	12A0009	50	130	1	1/2/2012	1/3/2012	
Surrogate: Dibromofluoromethane (80-120%)				87 %				
Surrogate: Toluene-d8 (80-120%)				105 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				92 %				
Sample ID: IUL2715-06 (S-11 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	12A0009	50	ND	1	1/2/2012	1/3/2012	
Surrogate: Dibromofluoromethane (80-120%)				94 %				
Surrogate: Toluene-d8 (80-120%)				104 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				89 %				

TestAmerica Irvine

Philip Sanelle
Project Manager

Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 4411 Foothill Blvd., Oakland, CA

Report Number: IUL2715

Sampled: 12/23/11
Received: 12/24/11

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUL2715-07 (S-12 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	12A0009	50	490	1	1/2/2012	1/3/2012	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				92 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				106 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				94 %				

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Project Manager

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IUL2715 <Page 4 of 14>

Blaine Tech San Jose/CRA Shell
 1680 Rogers Avenue
 San Jose, CA 95112-1105
 Attention: Lorin King

Project ID: 4411 Foothill Blvd., Oakland, CA

Report Number: IUL2715

Sampled: 12/23/11
 Received: 12/24/11

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUL2715-01 (S-6 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	12A0009	5.0	760	10	1/2/2012	1/2/2012	
1,2-Dibromoethane (EDB)	EPA 8260B	12A0009	5.0	ND	10	1/2/2012	1/2/2012	
1,2-Dichloroethane	EPA 8260B	12A0009	5.0	ND	10	1/2/2012	1/2/2012	
Ethylbenzene	EPA 8260B	12A0009	5.0	76	10	1/2/2012	1/2/2012	
Toluene	EPA 8260B	12A0009	5.0	24	10	1/2/2012	1/2/2012	
Xylenes, Total	EPA 8260B	12A0009	10	49	10	1/2/2012	1/2/2012	
Di-isopropyl Ether (DIPE)	EPA 8260B	12A0009	10	ND	10	1/2/2012	1/2/2012	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	12A0009	10	ND	10	1/2/2012	1/2/2012	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12A0009	10	61	10	1/2/2012	1/2/2012	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	12A0009	10	ND	10	1/2/2012	1/2/2012	
tert-Butanol (TBA)	EPA 8260B	12A0009	100	320	10	1/2/2012	1/2/2012	
Surrogate: 4-Bromofluorobenzene (80-120%)				97 %				
Surrogate: Dibromofluoromethane (80-120%)				86 %				
Surrogate: Toluene-d8 (80-120%)				105 %				

Sample ID: IUL2715-02 (S-7 - Water)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Reporting Units: ug/l								
Benzene	EPA 8260B	12A0009	100	11000	200	1/2/2012	1/2/2012	
1,2-Dibromoethane (EDB)	EPA 8260B	12A0009	100	ND	200	1/2/2012	1/2/2012	
1,2-Dichloroethane	EPA 8260B	12A0009	100	ND	200	1/2/2012	1/2/2012	
Ethylbenzene	EPA 8260B	12A0009	100	1400	200	1/2/2012	1/2/2012	
Toluene	EPA 8260B	12A0009	100	3300	200	1/2/2012	1/2/2012	
Xylenes, Total	EPA 8260B	12A0009	200	6600	200	1/2/2012	1/2/2012	
Di-isopropyl Ether (DIPE)	EPA 8260B	12A0009	200	ND	200	1/2/2012	1/2/2012	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	12A0009	200	ND	200	1/2/2012	1/2/2012	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12A0009	200	ND	200	1/2/2012	1/2/2012	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	12A0009	200	ND	200	1/2/2012	1/2/2012	
tert-Butanol (TBA)	EPA 8260B	12A0009	2000	ND	200	1/2/2012	1/2/2012	
Surrogate: 4-Bromofluorobenzene (80-120%)				95 %				
Surrogate: Dibromofluoromethane (80-120%)				88 %				
Surrogate: Toluene-d8 (80-120%)				97 %				

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 Project Manager

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Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 4411 Foothill Blvd., Oakland, CA

Report Number: IUL2715

Sampled: 12/23/11

Received: 12/24/11

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUL2715-03 (S-8 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	12A0009	100	9500	200	1/2/2012	1/2/2012	
1,2-Dibromoethane (EDB)	EPA 8260B	12A0009	100	ND	200	1/2/2012	1/2/2012	
1,2-Dichloroethane	EPA 8260B	12A0009	100	ND	200	1/2/2012	1/2/2012	
Ethylbenzene	EPA 8260B	12A0009	100	3700	200	1/2/2012	1/2/2012	
Toluene	EPA 8260B	12A0009	100	3000	200	1/2/2012	1/2/2012	
Xylenes, Total	EPA 8260B	12A0009	200	15000	200	1/2/2012	1/2/2012	
Di-isopropyl Ether (DIPE)	EPA 8260B	12A0009	200	ND	200	1/2/2012	1/2/2012	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	12A0009	200	ND	200	1/2/2012	1/2/2012	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12A0009	200	ND	200	1/2/2012	1/2/2012	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	12A0009	200	ND	200	1/2/2012	1/2/2012	
tert-Butanol (TBA)	EPA 8260B	12A0009	2000	ND	200	1/2/2012	1/2/2012	
Surrogate: 4-Bromofluorobenzene (80-120%)				94 %				
Surrogate: Dibromofluoromethane (80-120%)				88 %				
Surrogate: Toluene-d8 (80-120%)				100 %				

Sample ID: IUL2715-04 (S-9 - Water)

Reporting Units: ug/l

Benzene	EPA 8260B	12A0009	2.0	6.7	4	1/2/2012	1/2/2012	
1,2-Dibromoethane (EDB)	EPA 8260B	12A0009	2.0	ND	4	1/2/2012	1/2/2012	
1,2-Dichloroethane	EPA 8260B	12A0009	2.0	ND	4	1/2/2012	1/2/2012	
Ethylbenzene	EPA 8260B	12A0009	2.0	240	4	1/2/2012	1/2/2012	
Toluene	EPA 8260B	12A0009	2.0	16	4	1/2/2012	1/2/2012	
Xylenes, Total	EPA 8260B	12A0009	4.0	200	4	1/2/2012	1/2/2012	
Di-isopropyl Ether (DIPE)	EPA 8260B	12A0009	4.0	ND	4	1/2/2012	1/2/2012	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	12A0009	4.0	ND	4	1/2/2012	1/2/2012	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12A0009	4.0	ND	4	1/2/2012	1/2/2012	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	12A0009	4.0	ND	4	1/2/2012	1/2/2012	
tert-Butanol (TBA)	EPA 8260B	12A0009	40	ND	4	1/2/2012	1/2/2012	
Surrogate: 4-Bromofluorobenzene (80-120%)				102 %				
Surrogate: Dibromofluoromethane (80-120%)				87 %				
Surrogate: Toluene-d8 (80-120%)				103 %				

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IUL2715 <Page 6 of 14>

Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 4411 Foothill Blvd., Oakland, CA

Report Number: IUL2715

Sampled: 12/23/11
Received: 12/24/11

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUL2715-05 (S-10 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	12A0009	0.50	ND	1	1/2/2012	1/3/2012	
1,2-Dibromoethane (EDB)	EPA 8260B	12A0009	0.50	ND	1	1/2/2012	1/3/2012	
1,2-Dichloroethane	EPA 8260B	12A0009	0.50	ND	1	1/2/2012	1/3/2012	
Ethylbenzene	EPA 8260B	12A0009	0.50	ND	1	1/2/2012	1/3/2012	
Toluene	EPA 8260B	12A0009	0.50	ND	1	1/2/2012	1/3/2012	
Xylenes, Total	EPA 8260B	12A0009	1.0	ND	1	1/2/2012	1/3/2012	
Di-isopropyl Ether (DIPE)	EPA 8260B	12A0009	1.0	ND	1	1/2/2012	1/3/2012	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	12A0009	1.0	ND	1	1/2/2012	1/3/2012	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12A0009	1.0	ND	1	1/2/2012	1/3/2012	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	12A0009	1.0	ND	1	1/2/2012	1/3/2012	
tert-Butanol (TBA)	EPA 8260B	12A0009	10	ND	1	1/2/2012	1/3/2012	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				92 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				87 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				105 %				

Sample ID: IUL2715-06 (S-11 - Water)

Reporting Units: ug/l

Benzene	EPA 8260B	12A0009	0.50	ND	1	1/2/2012	1/3/2012	
1,2-Dibromoethane (EDB)	EPA 8260B	12A0009	0.50	ND	1	1/2/2012	1/3/2012	
1,2-Dichloroethane	EPA 8260B	12A0009	0.50	ND	1	1/2/2012	1/3/2012	
Ethylbenzene	EPA 8260B	12A0009	0.50	ND	1	1/2/2012	1/3/2012	
Toluene	EPA 8260B	12A0009	0.50	ND	1	1/2/2012	1/3/2012	
Xylenes, Total	EPA 8260B	12A0009	1.0	ND	1	1/2/2012	1/3/2012	
Di-isopropyl Ether (DIPE)	EPA 8260B	12A0009	1.0	ND	1	1/2/2012	1/3/2012	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	12A0009	1.0	ND	1	1/2/2012	1/3/2012	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12A0009	1.0	ND	1	1/2/2012	1/3/2012	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	12A0009	1.0	ND	1	1/2/2012	1/3/2012	
tert-Butanol (TBA)	EPA 8260B	12A0009	10	ND	1	1/2/2012	1/3/2012	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				89 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				94 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				104 %				

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Blaine Tech San Jose/CRA Shell
 1680 Rogers Avenue
 San Jose, CA 95112-1105
 Attention: Lorin King

Project ID: 4411 Foothill Blvd., Oakland, CA

Report Number: IUL2715

Sampled: 12/23/11
 Received: 12/24/11

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUL2715-07 (S-12 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	12A0009	0.50	ND	1	1/2/2012	1/3/2012	
1,2-Dibromoethane (EDB)	EPA 8260B	12A0009	0.50	ND	1	1/2/2012	1/3/2012	
1,2-Dichloroethane	EPA 8260B	12A0009	0.50	ND	1	1/2/2012	1/3/2012	
Ethylbenzene	EPA 8260B	12A0009	0.50	ND	1	1/2/2012	1/3/2012	
Toluene	EPA 8260B	12A0009	0.50	ND	1	1/2/2012	1/3/2012	
Xylenes, Total	EPA 8260B	12A0009	1.0	ND	1	1/2/2012	1/3/2012	
Di-isopropyl Ether (DIPE)	EPA 8260B	12A0009	1.0	1.4	1	1/2/2012	1/3/2012	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	12A0009	1.0	ND	1	1/2/2012	1/3/2012	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12A0009	1.0	ND	1	1/2/2012	1/3/2012	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	12A0009	1.0	ND	1	1/2/2012	1/3/2012	
tert-Butanol (TBA)	EPA 8260B	12A0009	10	14	1	1/2/2012	1/3/2012	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>								94 %
<i>Surrogate: Dibromofluoromethane (80-120%)</i>								92 %
<i>Surrogate: Toluene-d8 (80-120%)</i>								106 %

TestAmerica Irvine

Philip Sanelle
 Project Manager

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Blaine Tech San Jose/CRA Shell
 1680 Rogers Avenue
 San Jose, CA 95112-1105
 Attention: Lorin King

Project ID: 4411 Foothill Blvd., Oakland, CA

Report Number: IUL2715

Sampled: 12/23/11

Received: 12/24/11

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 8015B w/ Silica Gel Clean-up)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11L4051 Extracted: 12/30/11										
Blank Analyzed: 12/31/2011 (11L4051-BLK1)										
DRO (C10-C28)	ND	50	ug/l							
Surrogate: n-Octacosane	179		ug/l	200		90	45-120			
LCS Analyzed: 12/31/2011 (11L4051-BS1)										
DRO (C10-C28)	848	50	ug/l	1000		85	40-115			MNRI
Surrogate: n-Octacosane	187		ug/l	200		93	45-120			
LCS Dup Analyzed: 12/31/2011 (11L4051-BSD1)										
DRO (C10-C28)	744	50	ug/l	1000		74	40-115	13	25	
Surrogate: n-Octacosane	170		ug/l	200		85	45-120			

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Report Number: IUL2715

Sampled: 12/23/11
Received: 12/24/11

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12A0009 Extracted: 01/02/12										
Blank Analyzed: 01/02/2012 (12A0009-BLK1)										
Volatiles Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	23.2		ug/l	25.0		93	80-120			
Surrogate: Toluene-d8	25.9		ug/l	25.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	22.9		ug/l	25.0		92	80-120			
LCS Analyzed: 01/02/2012 (12A0009-BS2)										
Volatiles Fuel Hydrocarbons (C4-C12)	469	50	ug/l	500		94	55-130			
Surrogate: Dibromofluoromethane	22.2		ug/l	25.0		89	80-120			
Surrogate: Toluene-d8	26.2		ug/l	25.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	23.8		ug/l	25.0		95	80-120			
Matrix Spike Analyzed: 01/02/2012 (12A0009-MS1) Source: IUL3009-12										
Volatiles Fuel Hydrocarbons (C4-C12)	1880	50	ug/l	1720	ND	109	50-145			
Surrogate: Dibromofluoromethane	22.7		ug/l	25.0		91	80-120			
Surrogate: Toluene-d8	25.2		ug/l	25.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	27.3		ug/l	25.0		109	80-120			
Matrix Spike Dup Analyzed: 01/02/2012 (12A0009-MSD1) Source: IUL3009-12										
Volatiles Fuel Hydrocarbons (C4-C12)	1920	50	ug/l	1720	ND	111	50-145	2	20	
Surrogate: Dibromofluoromethane	22.9		ug/l	25.0		92	80-120			
Surrogate: Toluene-d8	25.7		ug/l	25.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	27.0		ug/l	25.0		108	80-120			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits RPD	RPD Limit	Data Qualifiers
Batch: 12A0009 Extracted: 01/02/12									
Blank Analyzed: 01/02/2012 (12A0009-BLK1)									
Benzene	ND	0.50	ug/l						
1,2-Dibromoethane (EDB)	ND	0.50	ug/l						
1,2-Dichloroethane	ND	0.50	ug/l						
Ethylbenzene	ND	0.50	ug/l						
Toluene	ND	0.50	ug/l						
m,p-Xylenes	ND	1.0	ug/l						
o-Xylene	ND	0.50	ug/l						
Xylenes, Total	ND	1.0	ug/l						
Di-isopropyl Ether (DIPE)	ND	1.0	ug/l						
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/l						
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l						
tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/l						
tert-Butanol (TBA)	ND	10	ug/l						
Surrogate: 4-Bromofluorobenzene	22.9		ug/l	25.0		92	80-120		
Surrogate: Dibromofluoromethane	23.2		ug/l	25.0		93	80-120		
Surrogate: Toluene-d8	25.9		ug/l	25.0		104	80-120		
LCS Analyzed: 01/02/2012 (12A0009-BS1)									
Benzene	24.4	0.50	ug/l	25.0		98	70-120		
1,2-Dibromoethane (EDB)	26.7	0.50	ug/l	25.0		107	75-125		
1,2-Dichloroethane	25.1	0.50	ug/l	25.0		100	60-140		
Ethylbenzene	27.4	0.50	ug/l	25.0		110	75-125		
Toluene	25.8	0.50	ug/l	25.0		103	70-120		
m,p-Xylenes	58.2	1.0	ug/l	50.0		116	75-125		
o-Xylene	28.7	0.50	ug/l	25.0		115	75-125		
Xylenes, Total	87.0	1.0	ug/l	75.0		116	70-125		
Di-isopropyl Ether (DIPE)	27.5	1.0	ug/l	25.0		110	60-135		
Ethyl tert-Butyl Ether (ETBE)	26.1	1.0	ug/l	25.0		104	65-135		
Methyl-tert-butyl Ether (MTBE)	25.2	1.0	ug/l	25.0		101	60-135		
tert-Amyl Methyl Ether (TAME)	27.6	1.0	ug/l	25.0		110	60-135		
tert-Butanol (TBA)	150	10	ug/l	125		120	70-135		
Surrogate: 4-Bromofluorobenzene	27.0		ug/l	25.0		108	80-120		
Surrogate: Dibromofluoromethane	23.6		ug/l	25.0		94	80-120		
Surrogate: Toluene-d8	25.0		ug/l	25.0		100	80-120		

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Report Number: IUL2715

Sampled: 12/23/11
Received: 12/24/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12A0009 Extracted: 01/02/12										
Matrix Spike Analyzed: 01/02/2012 (12A0009-MS1)					Source: IUL3009-12					
Benzene	24.8	0.50	ug/l	25.0	ND	99	65-125			
1,2-Dibromoethane (EDB)	27.4	0.50	ug/l	25.0	ND	109	70-130			
1,2-Dichloroethane	33.3	0.50	ug/l	25.0	7.39	104	60-140			
Ethylbenzene	28.0	0.50	ug/l	25.0	ND	112	65-130			
Toluene	26.5	0.50	ug/l	25.0	ND	106	70-125			
m,p-Xylenes	59.8	1.0	ug/l	50.0	ND	120	65-130			
o-Xylene	28.9	0.50	ug/l	25.0	ND	116	65-125			
Xylenes, Total	88.7	1.0	ug/l	75.0	ND	118	60-130			
Di-isopropyl Ether (DIPE)	27.8	1.0	ug/l	25.0	ND	111	60-140			
Ethyl tert-Butyl Ether (ETBE)	25.7	1.0	ug/l	25.0	ND	103	60-135			
Methyl-tert-butyl Ether (MTBE)	29.8	1.0	ug/l	25.0	4.20	103	55-145			
tert-Amyl Methyl Ether (TAME)	27.4	1.0	ug/l	25.0	ND	110	60-140			
tert-Butanol (TBA)	145	10	ug/l	125	ND	116	65-140			
Surrogate: 4-Bromofluorobenzene	27.3		ug/l	25.0		109	80-120			
Surrogate: Dibromofluoromethane	22.7		ug/l	25.0		91	80-120			
Surrogate: Toluene-d8	25.2		ug/l	25.0		101	80-120			
Matrix Spike Dup Analyzed: 01/02/2012 (12A0009-MSD1)					Source: IUL3009-12					
Benzene	25.8	0.50	ug/l	25.0	ND	103	65-125	4	20	
1,2-Dibromoethane (EDB)	27.8	0.50	ug/l	25.0	ND	111	70-130	2	25	
1,2-Dichloroethane	33.2	0.50	ug/l	25.0	7.39	103	60-140	0.2	20	
Ethylbenzene	29.0	0.50	ug/l	25.0	ND	116	65-130	4	20	
Toluene	27.6	0.50	ug/l	25.0	ND	110	70-125	4	20	
m,p-Xylenes	60.4	1.0	ug/l	50.0	ND	121	65-130	1	25	
o-Xylene	29.3	0.50	ug/l	25.0	ND	117	65-125	1	20	
Xylenes, Total	89.7	1.0	ug/l	75.0	ND	120	60-130	1	20	
Di-isopropyl Ether (DIPE)	28.1	1.0	ug/l	25.0	ND	112	60-140	1	25	
Ethyl tert-Butyl Ether (ETBE)	26.9	1.0	ug/l	25.0	ND	108	60-135	5	25	
Methyl-tert-butyl Ether (MTBE)	30.4	1.0	ug/l	25.0	4.20	105	55-145	2	25	
tert-Amyl Methyl Ether (TAME)	28.2	1.0	ug/l	25.0	ND	113	60-140	3	30	
tert-Butanol (TBA)	162	10	ug/l	125	ND	130	65-140	11	25	
Surrogate: 4-Bromofluorobenzene	27.0		ug/l	25.0		108	80-120			
Surrogate: Dibromofluoromethane	22.9		ug/l	25.0		92	80-120			
Surrogate: Toluene-d8	25.7		ug/l	25.0		103	80-120			

TestAmerica Irvine

Philip Sanelle
Project Manager

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Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 4411 Foothill Blvd., Oakland, CA

Report Number: IUL2715

Sampled: 12/23/11

Received: 12/24/11

DATA QUALIFIERS AND DEFINITIONS

- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- Z3** The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For Volatile Fuel Hydrocarbons (C4-C12):

Volatile Fuel Hydrocarbons (C4-C12) are quantitated against a gasoline standard. Quantitation begins immediately before TBA-d9.

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

TestAmerica Irvine

Philip Sanelle
Project Manager

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1680 Rogers Avenue
San Jose, CA 95112-1105
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Project ID: 4411 Foothill Blvd., Oakland, CA

Report Number: IUL2715

Sampled: 12/23/11
Received: 12/24/11

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 8015B	Water	X	X
EPA 8260B	Water	X	X
TPH by GC/MS	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Irvine

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Project Manager

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LAB (LOCATION)

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



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

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

Print Bill To Contact Name: 240897 Peter Schaefer

INCIDENT # (ENV SERVICES): 9 8 9 9 5 7 4 6

PO # _____ SAP # _____

CHECK IF NO INCIDENT # APPLIES DATE: 12/23/2011 PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

ADDRESS: 1680 Rogers Avenue, San Jose, CA

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

TELEPHONE: (310) 885-4465 x 108 FAX: (310) 837-5802 E-MAIL: lking@blainetech.com

LOG CODE: BTSS

SITE ADDRESS: Street and City 4411 Foothill Boulevard, Oakland CA

GLOBAL ID NO: T0800101066

PHONE NO: 610-420-3343

CONSULTANT PROJECT NO: 240897-95-11.01

SAMPLER NAME(S) (Print): Gregory Roberts

LAB USE ONLY: JUL 27 11

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:

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES:

1) Please upload the "CRA EQUIS 4-file EDD" to the CRA Website (http://cralabeddupload.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

Run TPH-D with Silica Gel Clean Up

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

TEMPERATURE ON RECEIPT
2.8r
Container PID Readings or Laboratory Notes

LAB USE ONLY	SAMPLE ID					MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS										TEMPERATURE ON RECEIPT													
	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME		HCL	HNO3	H2SO4	NONE	OTHER		TPH-GRO. Purgeable (8260B)	TPH-DRO. Extractable (8015M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) (8260B)	VOCs Full list (8260B)	Single Compound: (8260B)	1,2 DCA (8260B)	EDB (8260B)		Ethanol (8260B)	Methanol (8015B)											
	WG-111223-GRL	12/23/11	GR	S-6	1037	WG	X			X	5	X	X			X																				
	WG-111223-GRL	12/23/11	GR	S-7	1207	WG	X			X	5	X	X			X																				
	WG-111223-GRL	12/23/11	GR	S-8	1222	WG	X			X	5	X	X			X																				
	WG-111223-GRL	12/23/11	GR	S-9	1138	WG	X			X	5	X	X			X																				
	WG-111223-GRL	12/23/11	GR	S-10	0837	WG	X			X	5	X	X			X																				
	WG-111223-GRL	12/23/11	GR	S-11	0915	WG	X			X	5	X	X			X																				
	WG-111223-GRL	12/23/11	GR	S-12	0904	WG	X			X	5	X	X			X																				

Retrieved by: (Signature)	405	Received by: (Signature)	Sample Custodian	Date: 12/23/11	Time: 1405
Retrieved by: (Signature)		Received by: (Signature)		Date: 12/23/11	Time: 1600
Retrieved by: (Signature)	12-23-11 19:00	Received by: (Signature)		Date: 12/24/11	Time: 16:00

(15)