CONESTOGA-ROVERS & ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
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www.CRAworld.com

TRANSMITTAL

DATE: November 13, 2013

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

RECEIVED
By Alameda County Environmental Health at 4:24 pm, Nov 14, 2013

Please find enclosed:
- ☐ Draft
- ☐ Originals
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- ☒ Final
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QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report – Third Quarter 2013

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐
- ☐

COMMENTS:
If you have any questions regarding the contents of this document, please call the CRA project manager Peter Schaefer at (510) 420-3319 or the Shell program manager Perry Pineda at (425) 413-1164.

Copy to: Perry Pineda, Shell Oil Products US (electronic copy)
Laura Wong, Phua Management (property owner representative) (electronic copy)

Completed by: Peter Schaefer Signed: Peter Schaefer

Filing: **Correspondence File**

Shell Oil Products US
Soil and Groundwater Focus Delivery Group
20945 S. Wilmington Avenue
Carson, CA 90810
Tel (425) 413 1164
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Email perry.pineda@shell.com
Internet http://www.shell.com

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

Re: 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.

As always, please feel free to contact me directly at (425) 413-1164 with any questions or concerns.

Sincerely,
Shell Oil Products US

Perry Pineda
Senior Environmental Program Manager

GROUNDWATER MONITORING REPORT – THIRD QUARTER 2013

FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

SAP CODE	135686
INCIDENT NO.	98995746
AGENCY NO.	RO0000415

Prepared by:
Conestoga-Rovers & Associates

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NOVEMBER 13, 2013
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APPENDIX B TESTAMERICA LABORATORIES, INC. - ANALYTICAL REPORT

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	Perry Pineda
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 September 4, 2013 (electronic).

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT QUARTER'S ACTIVITIES

On June 7, 2013, CRA sent survey questionnaires to three property owners and four occupants of properties located directly down-gradient from the site to identify any domestic or irrigation wells, the depth of any basements, how the basements are used, the type of floor in the basements, and whether any sumps are present in the basements. To date, no questionnaires have been returned to CRA.

During August 2013, CRA installed two groundwater monitoring wells (S-13 and S-14) and one soil vapor probe (SSV-8). Blaine Tech Services, Inc. (Blaine) developed the new wells on September 6, 2013 and gauged and sampled site wells on September 19, 2013 according to the modified 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 well

development and groundwater monitoring field notes are presented in Appendix A, and the laboratory report is presented in Appendix B.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Southwesterly
Hydraulic Gradient	0.01
Depth to Water	8.53 to 9.41 feet below top of well casing

2.3 PROPOSED ACTIVITIES

CRA's November 13, 2013 *Subsurface Investigation Report* provided analytical results from the well and sub-slab soil vapor probe installations. The wells will be sampled quarterly for one year, and no additional on-site soil vapor investigations are warranted.

Blaine will gauge and sample wells according to the modified monitoring program for this site. The site will be monitored quarterly, and CRA will issue groundwater monitoring reports quarterly following the sampling events.

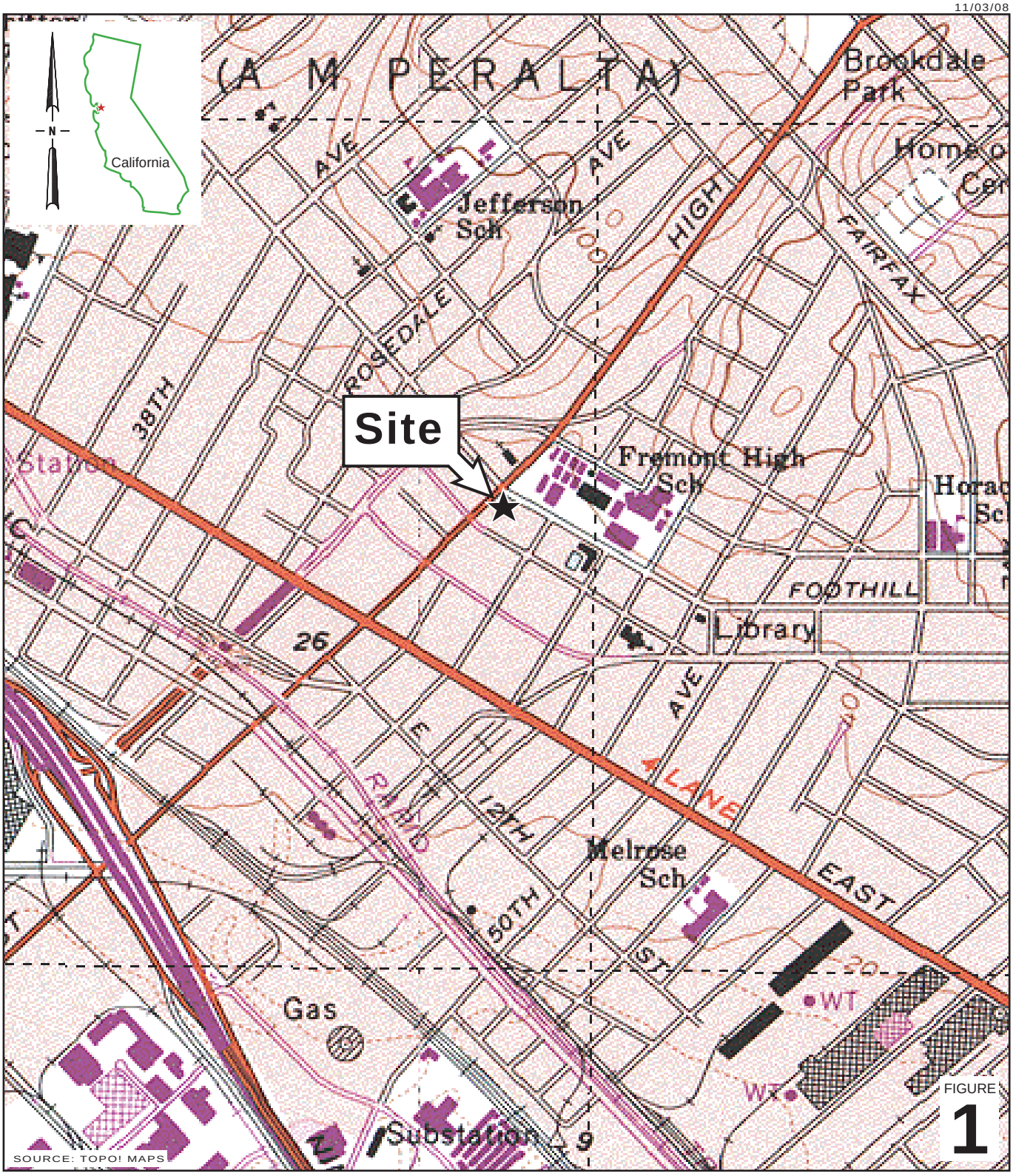
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CHG, CEG

Aubrey K. Cool, PG

FIGURES

11/03/08



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

FIGURE 1

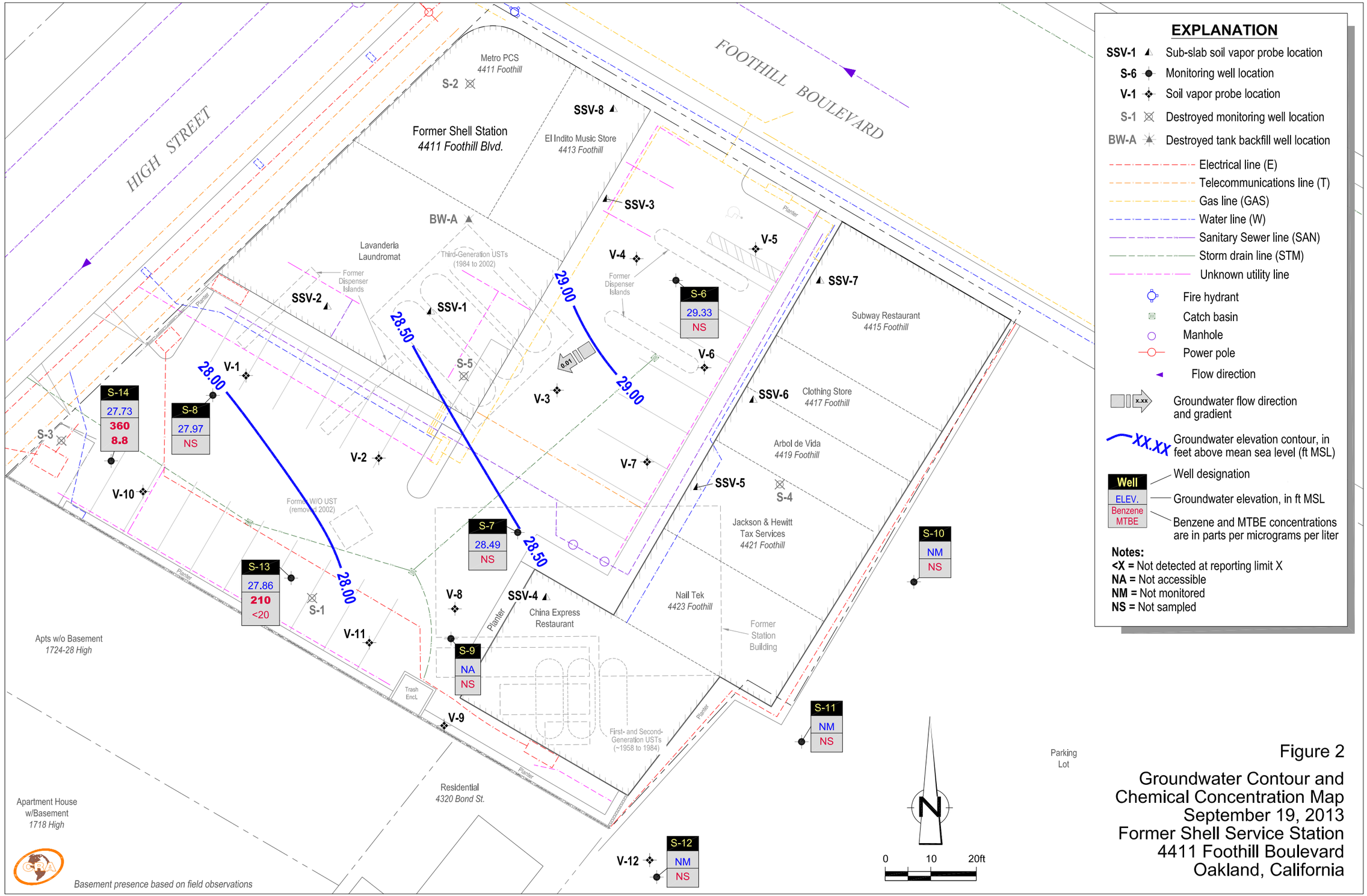
0 1/6 1/3 1/2 1

SCALE : 1" = 1/6 MILE

Former Shell Service Station
4411 Foothill Boulevard
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map



EXPLANATION

- SSV-1 — Sub-slab soil vapor probe location
- S-6 — Monitoring well location
- V-1 — 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
- x.xx — Groundwater flow direction and gradient
- XX.XX — Groundwater elevation contour, in feet above mean sea level (ft MSL)
- Well — Well designation
- ELEV. — Groundwater elevation, in ft MSL
- Benzene / MTBE — Benzene and MTBE concentrations are in parts per micrograms per liter

Notes:
<X = Not detected at reporting limit X
NA = Not accessible
NM = Not monitored
NS = Not sampled

Figure 2

Groundwater Contour and Chemical Concentration Map
September 19, 2013
Former Shell Service Station
4411 Foothill Boulevard
Oakland, California

I:\Shell\6-chars\2408--\240897-Oakland 4411 Foothill\240897-REPORTS\240897-RPT24-3Q13\240897 3QM13-GW.DWG (10/22/2013)

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 g	30,000	1,100	4,700	1,600	10,000	—	—	—	—	—	—	—	—	38.31	7.15	31.16	—
S-1	03/30/1995	3,100 a,g	30,000 a	1,400 a	4,000 a	1,500 a	11,000 a	—	—	—	—	—	—	—	—	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 g	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 g	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 g	1,230 a	21.2 a	115 a	116 a	411 a	45.1 a	—	—	—	—	—	—	—	38.30	6.21	32.09	2.0/2.9
S-1	06/20/2000	352 g	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 g	2,980	43.5	117	168	871	192	—	—	—	—	—	—	—	38.30	10.14	28.16	0.6/0.3
S-1	12/04/2000	238 g	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	—

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	03/08/2001	1,390 g	2,940	49.6	52.9	21.8	749	87.6	—	—	—	—	—	—	—	38.30	5.84	32.46	2.7 b
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 g	1,700	7.7	44	190	340	—	4.5	—	—	—	—	—	—	38.04	8.14	29.90	14.0
S-1	09/09/2003	96 g	3,200	11	110	350	1,100	—	5.8	—	—	—	—	—	—	38.04	9.31	28.73	7.5
S-1	12/09/2003	1,000 g	6,000	20	170	530	1,700	—	6.1	—	—	—	—	—	—	38.04	7.24	30.80	28.6
S-1	03/09/2004	300 g	390	5.8	30	67	160	—	5.6	—	—	—	—	—	—	38.04	5.56	32.48	6.4
S-1	06/08/2004	2,500 g	5,600	11	140	660	1,900	—	5.0	—	—	—	—	—	—	38.04	8.82	29.22	30.0
S-1	09/07/2004	130 e	<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 e	560	2.2	26	67	220	—	1.4	—	—	—	—	—	—	38.04	5.39	32.65	31.7
S-1	03/07/2005	460 e	12,000	12	310	830	2,600	—	<5.0	—	—	—	—	—	—	38.04	5.77	32.27	16.1
S-1	06/10/2005	1,200 e	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 a	2,800 a	190 a	240 a	700 a	—	—	—	—	—	—	—	—	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	—

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-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 g	678	135	8.22	14.9	25.8	17,100	17,000 a	—	—	—	—	—	—	38.79	10.58	28.21	5.1/4.8
S-2	12/22/1999	142 g	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 g	2,670	1,190 a	62.7	84.1	125	29,200 a	31,400 a	—	—	—	—	—	—	38.78	7.88	30.90	7.6/5.0
S-2	06/20/2000	401 g	<5,000	348	<50.0	50.4	127	35,800	33,900 a	—	—	—	—	—	—	38.78	10.27	28.51	1.9/2.2
S-2	09/05/2000	373 g	<5,000	106	<50.0	<50.0	<50.0	25,800	37,100 a	—	—	—	—	—	—	38.78	10.19	28.59	0.5/1.6
S-2	12/04/2000	1,730 g	<250	4.37	<2.50	<2.50	<2.50	4,500	5,130 a	—	—	—	—	—	—	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 b
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 g	2,200	83	<5.0	22	52	—	970	—	—	—	—	—	—	38.47	9.20	29.27	5.0
S-2	09/09/2003	270 g	1,200	57	<2.5	11	33	—	740	—	—	—	—	—	—	38.47	9.70	28.77	3.7
S-2	12/09/2003	1,900 g	3,100	84	<5.0	45	90	—	660	—	—	—	—	—	—	38.47	9.31	29.16	24.21
S-2	03/09/2004	990 g	1,600	140	<5.0	31	49	—	610	—	—	—	—	—	—	38.47	8.24	30.23	2.6
S-2	06/08/2004	400 g	640	40	<2.5	4.2	6.6	—	460	—	—	—	—	—	—	38.47	9.40	29.07	8.2
S-2	09/07/2004	240 e	<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 g	260	26	<1.0	2.0	<2.0	—	270	—	—	—	—	—	—	38.47	9.45	29.02	8.5
S-2	03/07/2005	450 e	2,300	100	<5.0	11	<10	—	570	—	—	—	—	—	—	38.47	7.82	30.65	16.7
S-2	06/10/2005	550 g	<2,500	200	<25	<25	<50	—	630	—	—	—	—	—	—	38.47	8.37	30.10	0.70
S-2	07/14/2005	Well destroyed		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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 a	360 a	730 a	700 a	3,700 a	—	—	—	—	—	—	—	—	37.33	7.06	30.27	—
S-3 (D)	03/30/1995	—	7,600 a	330 a	570 a	600 a	2,600 a	—	—	—	—	—	—	—	—	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 g	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 g	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 g	2,290 a	84.5 a	17.0 a	104 a	105 a	29.3 a	—	—	—	—	—	—	—	37.30	6.25	31.05	1.0/1.4
S-3	06/20/2000	2,900 g	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 g	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 g	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 g	19,400	465	772	1,230	3,830	160	—	—	—	—	—	—	—	37.30	8.17	29.13	1.1 c
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 g	5,900	44	140	130	1,500	—	4.4	—	—	—	—	—	—	36.85	8.99	27.86	2.2
S-3	12/09/2003	1,500 g	27,000	130	460	550	4,900	—	<20	—	—	—	—	—	—	36.85	7.67	29.18	1.6
S-3	03/09/2004	1,700 g	11,000	24	100	230	3,200	—	<5.0	—	—	—	—	—	—	36.85	6.35	30.50	2.1
S-3	06/08/2004	1,100 g	1,700	11	34	29	420	—	<2.5	—	—	—	—	—	—	36.85	8.25	28.60	0.1
S-3	09/07/2004	310 e	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 e	620	1.9	7.8	10	180	—	<0.50	—	—	—	—	—	—	36.85	5.83	31.02	2.4
S-3	03/07/2005	400 e	4,500	<0.50	7.7	30	350	—	<0.50	—	—	—	—	—	—	36.85	4.58	32.27	4.4
S-3	06/10/2005	130 g	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 g	20,900	4,570	272	595	997	4,490	4,450 a	—	—	—	—	—	—	39.06	8.92	30.14	1.8/1.2
S-4	06/20/2000	244 g	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 g	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 g	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 g	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 d	30.21	3.0/3.1
S-4	06/19/2002	<1,500	4,700	620	9.5	84	37	—	490	—	—	—	—	—	—	—	10.37 d	—	—
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 g	13,000	2,400	86	650	380	—	1,100	—	—	—	—	—	—	38.69	9.77	28.92	0.8
S-4	09/09/2003	1,700 g	3,700	510	12	43	43	—	650	—	—	—	—	—	—	38.69	10.78	27.91	0.9
S-4	12/09/2003	390 g	3,900	150	4.2	7.5	13	—	510	—	—	—	—	—	—	38.69	10.20	28.49	0.1
S-4	03/09/2004	3,100 g	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 g	6,100	870	30	120	150	—	420	—	—	—	—	—	—	38.69	10.27	28.42	0.3
S-4	09/07/2004	890 e	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 e	4,900	520	9.9	38	24	—	290	—	—	—	—	—	—	38.69	10.03	28.66	0.2
S-4	03/07/2005	2,900 e	28,000	2,300	130	690	770	—	770	—	—	—	—	—	—	38.69	6.20	32.49	0.2
S-4	06/10/2005	2,700 e	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 g	2,400	11	7.2	56	38	—	1,100	—	—	—	—	—	—	38.05	8.51	29.54	0.1
S-5	09/09/2003	660 g	3,700	23	14	44	150	—	440	—	—	—	—	—	—	38.05	9.44	28.61	0.1
S-5	12/09/2003	600 g	12,000	200	80	41	320	—	580	—	—	—	—	—	—	38.05	9.50	28.55	0.4
S-5	03/09/2004	550 g	2,300	130	3.5	6.9	13	—	250	—	—	—	—	—	—	38.05	7.04	31.01	0.2
S-5	06/08/2004	490 g	2,900	11	<2.5	8.9	18	—	120	—	—	—	—	—	—	38.05	8.87	29.18	0.2
S-5	09/07/2004	650 e	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 e	4,700	99	28	14	69	—	180	—	—	—	—	—	—	38.05	8.75	29.30	0.1
S-5	03/07/2005	360 e	4,700	440	<2.5	<2.5	<5.0	—	200	—	—	—	—	—	—	38.05	7.28	30.77	0.1
S-5	06/10/2005	240 e	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 a	630 a	23	200	110	—	140	280	—	—	—	13	<0.50	37.86	7.73	30.13	—
S-6	05/23/2007	2,600	5,600 f	510	16	11	144	—	72	66	—	—	—	<2.5	<5.0	37.86	8.13	29.73	—
S-6	08/28/2007	6,100 g	13,000 f	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 g	19,000 f	760	47	500	602	—	68	340	—	—	—	<5.0	<10	37.86	8.78	29.08	—
S-6	02/08/2008	2,200 g	6,800 f	380	14	130	87.0	—	75	200	—	—	—	<2.5	<5.0	37.86	7.06	30.80	—

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 g	12,000 f	590	21	270	60	—	54	240	—	—	—	<2.5	<5.0	37.86	8.60	29.26	—
S-6	08/12/2008	7,100 g	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 g	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 g	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 g	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 g	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 g	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 g	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-6	12/28/2012	1,400	6,500	350	12	14	<10	—	68	200	<5.0	<5.0	<5.0	—	—	37.86	6.50	31.36	—
S-6	**09/19/2013**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**37.86**	**8.53**	**29.33**	—
S-7	02/22/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37.58	7.39	30.19	—
S-7	03/02/2007	2,500	100,000 a	32,000 a	9,700 a	2,900 a	14,000 a	—	310 a	480	—	—	—	150	<0.50	37.58	7.42	30.16	—
S-7	05/23/2007	3,700	82,000 f,g	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 g	96,000 f	23,000	7,000	2,900	12,200	—	190 h	<2,000	<400	<400	<400	<100	<200	37.58	9.32	28.26	—
S-7	11/13/2007	25,000 g	100,000 f	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 g	74,000 f	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 g	69,000 f	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 g	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 g	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 g	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 g	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 g	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 g	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 g	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-7	12/28/2012	2,200	26,000	6,200	2,000	1,000	5,000	—	<100	<2,000	<100	<100	<100	—	—	37.57	5.88	31.69	—
S-7	**09/19/2013**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**37.57**	**9.08**	**28.49**	—
S-8	02/22/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37.05	6.65	30.40	—
S-8	03/02/2007	2,300	72,000 a	12,000 a	5,600 a	2,900 a	15,000 a	—	120	230	—	—	—	150	<2.5	37.05	6.60	30.45	—
S-8	05/23/2007	5,800	69,000 f,g	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 g	69,000 f	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 g	84,000 f	10,000	5,000	3,300	18,300	—	290	<1,000	—	—	—	<50	<100	37.05	8.93	28.12	—

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	02/08/2008	4,500 g	54,000 f	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 g	67,000 f	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 g	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 g	70,000	9,500	2,700	2,500	12,300	—	290	1,200	—	—	—	<50	<100	37.05	9.39	27.66	—
S-8	02/05/2009	3,500 g	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 g	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 g	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 g	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 g	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-8	12/28/2012	3,500	55,000	8,300	2,600	3,600	15,000	—	180	<1,000	<50	<50	<50	—	—	37.05	5.92	31.13	—
S-8	**09/19/2013**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**37.05**	**9.08**	**27.97**	—
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 f	13	38	2.5 h	1,453	—	5.2 h	<100	—	—	—	<5.0	<10	37.52	8.43	29.09	—
S-9	08/28/2007	2,800 g	9,500 f	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 g	12,000 f	19	35	450	499	—	<10	<100	—	—	—	<5.0	<10	37.52	9.91	27.61	—
S-9	02/08/2008	1,900 g	10,000 f	18	67	1,100	1,451	—	<10	<100	—	—	—	<5.0	<10	37.52	6.40	31.12	—
S-9	05/20/2008	1,500 g	11,000 f	150	770	13,000	17,460	—	<100	<1,000	—	—	—	<50	<100	37.52	8.79	28.73	—
S-9	08/12/2008	2,000 g	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 g	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 g	6,300	11	33	480	600	—	<10	<100	—	—	—	<5.0	<10	37.52	9.49	28.03	—
S-9	05/19/2009	1,500 g	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 g	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 g	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 g	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-9	12/28/2012	490	2,600	3.4	5.6	91	87	—	<1.3	<25	<1.3	<1.3	<1.3	—	—	37.52	5.90	31.62	—
S-9	**09/19/2013**	**Well inaccessible**		—	—	—	—	—	—	—	—	—	—	—	—	**37.52**	—	—	—
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	—

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-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-10	12/28/2012	<48	180	<0.50	<0.50	<0.50	<1.0	—	<0.50	<10	<0.50	<0.50	<0.50	—	—	37.43	6.10	31.33	—
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	—
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-11	12/28/2012	<48	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	<10	<0.50	<0.50	<0.50	—	—	36.44	5.00	31.44	—
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 g	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 g	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 g	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	—
S-12	12/28/2012	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	36.00	—	—	—
S-13	**09/06/2013**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**37.19**	**9.34**	**27.85**	—
S-13	**09/19/2013**	—	**25,000**	**210**	**420**	**520**	**7,600**	—	**<20**	**<400**	**<20**	**<20**	**<20**	—	—	**37.19**	**9.33**	**27.86**	—
S-14	**09/06/2013**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**37.14**	**9.28**	**27.86**	—
S-14	**09/19/2013**	—	**7,600**	**360**	**48**	**140**	**490**	—	**8.8**	**<50**	**<2.5**	**<2.5**	**<2.5**	—	—	**37.14**	**9.41**	**27.73**	—
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 g	<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

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)
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
µg/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

a = Sample analyzed outside the EPA recommended holding time.
b = Post-purge DO reading.
c = Pre-purge DO reading.
d = Estimated depth to water.
e = Hydrocarbon reported is in the early diesel range and does not match the laboratory's standard.
f = Analyzed by EPA Method 8015B (M).
g = 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.
h = 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

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)*

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
Wells S-13 and S-14 surveyed on September 14, 2013 by Virgil Chavez Land Surveying

APPENDIX A

BLAINE TECH SERVICES, INC. –
FIELD NOTES

WELL GAUGING DATA

Project # 130906-BP2 Date 9-6-B 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 TOC	Notes
S-13	0944	4					9.34	19.20		
S-14	0840	4					9.28	19.26		

WELL DEVELOPMENT DATA SHEET

Project #: 130906-RP2	Client: Shell
Developer: BP	Date Developed: 9-6-13
Well I.D. S-13	Well Diameter: (circle one) 2 3 (4) 6
Total Well Depth:	Depth to Water:
Before 19.26 After 19.26	Before 9.34 After 18.17
Reason not developed:	If Free Product, thickness:
Additional Notations: PID readings @ TOC 0.2 ppm Breathing 0.0	

Volume Conversion Factor (VCF):	Well dia.		VCF
{12 x (d^2/4) x π} /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

6.4	x	10	=	64
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☒ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump Middleburg
Other equipment used 4" surge block

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:	DTW (FF)
0947	Surged well for 15 minutes prior to purging						
1012	Start purge. Intake pump on bottom of well						
1020	67.3	7.22	1906	431	6.5	cloudy, low silt	13.21
1028	67.6	7.56	1748	185	13.0	cloudy hard bottom	15.73
1039	68.5	7.92	2310	102	18.5	cloudy	17.32
1048	70.3	8.11	2412	80	26.0	cloudy	18.10
1052	Well Dewatered @			27.2	Gallons	cloudy	18.46
1201	Well Dewatered @			30.1	Gallons	clear	18.50
1235	Insufficient water to continue development						18.17

Did Well Dewater? Yes	If yes, note above.	Gallons Actually Evacuated:	30.1

WELL DEVELOPMENT DATA SHEET

Project #: 130906-BP2	Client: Shell
Developer: BP	Date Developed: 9-6-13
Well I.D. 5-14	Well Diameter: (circle one) 2 3 (4) 6
Total Well Depth: Before 19.26 After 19.26	Depth to Water: Before 9.28 After 17.30
Reason not developed:	If Free Product, thickness:
Additional Notations: PID readings 0.0 @ TOC Breathing 0.0 ppm	

Volume Conversion Factor (VCF):	Well dia.		VCF
{12 x (d^2/4) x π} /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

6.5	x	10	=	65
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☒ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump Middleburg
Other equipment used 4" surge block

TIME	TEMP (F)	pH	Cond. (mS or (µS))	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:	DTW (ft)
0844	Surge/Bail well for 15 minutes prior to purging						
0905	Start purge. Agitate pump on bottom of well						
0913	69.7	6.79	2011	559	6.5	cloudy, light brown	13.21
0922	69.6	7.70	2111	154	13.0	cloudy, hard bottom	14.52
	Switched to 3" E.S.						
0930	70.2	7.37	2190	217	18.5	cloudy, light brown	16.84
0931	Well Dewatered @			19.4	gallons		17.47
1126	72.5	6.90	1736	115	26.0	cloudy,	
1130	Well dewatered @ 27.3 Gals						17.39
1220	Insufficient water to continue development						17.30

Did Well Dewater?	If yes, note above. yes	Gallons Actually Evacuated:	27.3	

INCIDENT # 98995746

DATE: 9-6-13

ADDRESS 4411 Foothill Blvd

CITY & STATE Oakland CA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Property*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
5-13	Standpipe	(Flush)	(G)	P	Size (inch) 12	(Y)	N	(G)	R	G	(R)	NL	(G)	P		Y	(N)	
5-14	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	
	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 | 2 = TOTAL # OF LOCKS REPLACED

Condition of Soil Boring Patches or Abandoned Monitoring Wells:				If POOR, Borings/Well IDs or Location Description:	Photos		
	(G)	P	N/A		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
NA	X	G	P	(N/A)	G	P	(N/A)	G	P	(N/A)	Y	N	(N/A)		Y	(N)	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
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
0	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).

Ben Parell Blaine Tech

Print or type Name of Field Personnel & Consultant Company

WELL GAUGING DATA

Project # 130919-ES1 Date 9/19/13 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 TOC	Notes
S-6	1150	4					8.53	19.31		
S-7	1143	4					9.08	19.42		
S-8	1200	4					9.08	19.61		
S-9	~~1150~~ ES	~~4~~	-well	parlalaver,	inaccessable		~~8.53~~ ES	~~19.31~~ ES		
S-13	1209	4					9.33	19.26		
S-14	1205	4					9.41	19.27		

SHELL WELL MONITORING DATA SHEET

BTS #: 130919-ES1	Site: 4411 Foothill Blvd, Oakland CA
Sampler: ES	Date: 9-19-13
Well I.D.: S-13	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.26	Depth to Water (DTW): 9.33
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]: 11.32	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric (Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

6.5 (Gals.) X 3 = 19.5 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1241	70.9	7.48	1049	144	6.5	odor
1249	68.8	7.3	1150	136	13	
- waited 2hr		-				
1445	69.0	7.21	1652	274	grab	

Did well dewater? (Yes) No Gallons actually evacuated: 13

Sampling Date: 9-19-13 Sampling Time: 1445 Depth to Water: 14.99 (>2hr)

Sample I.D.: S-13 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 #: 130919-ES1	Site: 4411 Foothill Blvd, Oakland CA
Sampler: ES	Date: 9-19-13
Well I.D.: S-14	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.27	Depth to Water (DTW): 9.41
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]: 11.38	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

6.4 (Gals.) X	3	=	19.2 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1214	73.1	7.5	1042	658	6.5	
1216	71.1	7.15	1141	144	13	
-waited 2hr-						
1419	72.1	7.88	1818	>1000	grab	

Did well dewater? (Yes) No Gallons actually evacuated: 13

Sampling Date: 9-19-13 Sampling Time: 1419 Depth to Water: 14.97 (2 hrs)

Sample I.D.: S-14 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: 9-19-13

CITY & STATE Oakland CA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
S-6	Standpipe	Flush	G	P	Size (inch) 12	G	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	1/2 tabs stripped	Y	N	
S-9	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P	- well parked over -	Y	N	
S-13	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
S-14	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 = 0 ; 0 = TOTAL # OF LOCKS REPLACED

Condition of Soil Boring Patches or Abandoned Monitoring Wells:	G	P	N/A	If POOR, Borings/Well IDs or Location Description:	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
NA	✓	G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
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
0	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

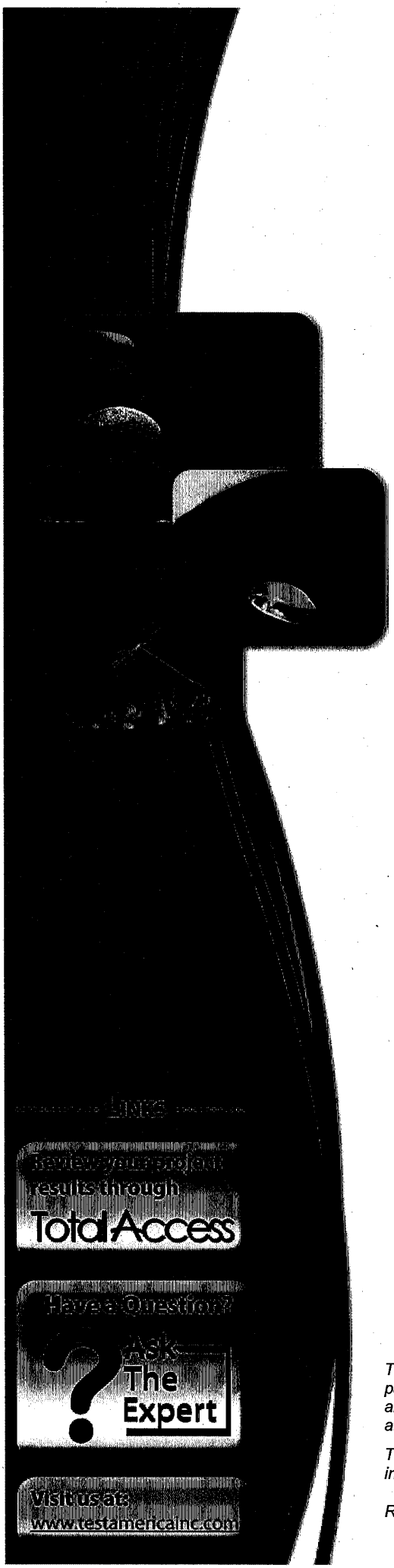
All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Evan Stevenson Blaine Tech Services

Print or type Name of Field Personnel & Consultant Company

APPENDIX B

TESTAMERICA LABORATORIES, INC. – ANALYTICAL REPORT



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-57633-1
Client Project/Site: 4411 Foothill Blvd., Oakland

For:
Conestoga-Rovers & Associates, Inc.
5900 Hollis Street
Suite A
Emeryville, California 94608

Attn: Peter Schaefer

Philip Sanelle

Authorized for release by:
10/7/2013 3:46:22 PM

Philip Sanelle, Project Manager I
(949)261-1022
philip.sanelle@testamericainc.com

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Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 440-57633-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-57633-1	S-13	Water	09/19/13 14:45	09/21/13 10:45
440-57633-2	S-14	Water	09/19/13 14:19	09/21/13 10:45

Job ID: 440-57633-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-57633-1

Comments
No additional comments.

Receipt
The samples were received on 9/21/2013 10:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5° C.

GC/MS VOA
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Client Sample ID: S-13

Lab Sample ID: 440-57633-1

Date Collected: 09/19/13 14:45
Matrix: Water
Date Received: 09/21/13 10:45

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	**25000**		2000		ug/L			10/03/13 17:15	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*86*		*80 - 120*		*10/03/13 17:15*	*40*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/03/13 17:15*	*40*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/03/13 17:15*	*40*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**210**		20		ug/L			10/03/13 17:15	40
Toluene	**420**		20		ug/L			10/03/13 17:15	40
Ethylbenzene	**520**		20		ug/L			10/03/13 17:15	40
Xylenes, Total	**7600**		40		ug/L			10/03/13 17:15	40
Methyl-t-Butyl Ether (MTBE)	ND		20		ug/L			10/03/13 17:15	40
tert-Butyl alcohol (TBA)	ND		400		ug/L			10/03/13 17:15	40
Isopropyl Ether (DIPE)	ND		20		ug/L			10/03/13 17:15	40
Ethyl-t-butyl ether (ETBE)	ND		20		ug/L			10/03/13 17:15	40
Tert-amyl-methyl ether (TAME)	ND		20		ug/L			10/03/13 17:15	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/03/13 17:15*	*40*
Dibromofluoromethane (Surr)	*86*		*77 - 121*		*10/03/13 17:15*	*40*
Toluene-d8 (Surr)	*99*		*81 - 130*		*10/03/13 17:15*	*40*

Client Sample ID: S-14

Lab Sample ID: 440-57633-2

Date Collected: 09/19/13 14:19
Matrix: Water
Date Received: 09/21/13 10:45

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	**7600**		250		ug/L			10/03/13 17:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*10/03/13 17:45*	*5*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/03/13 17:45*	*5*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/03/13 17:45*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**360**		2.5		ug/L			10/03/13 17:45	5
Toluene	**48**		2.5		ug/L			10/03/13 17:45	5
Ethylbenzene	**140**		2.5		ug/L			10/03/13 17:45	5
Xylenes, Total	**490**		5.0		ug/L			10/03/13 17:45	5
Methyl-t-Butyl Ether (MTBE)	**8.8**		2.5		ug/L			10/03/13 17:45	5
tert-Butyl alcohol (TBA)	ND		50		ug/L			10/03/13 17:45	5
Isopropyl Ether (DIPE)	ND		2.5		ug/L			10/03/13 17:45	5
Ethyl-t-butyl ether (ETBE)	ND		2.5		ug/L			10/03/13 17:45	5
Tert-amyl-methyl ether (TAME)	ND		2.5		ug/L			10/03/13 17:45	5

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 440-57633-1

Client Sample ID: S-14
Date Collected: 09/19/13 14:19
Date Received: 09/21/13 10:45

Lab Sample ID: 440-57633-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/03/13 17:45	5
Dibromofluoromethane (Surr)	90		77 - 121		10/03/13 17:45	5
Toluene-d8 (Surr)	99		81 - 130		10/03/13 17:45	5

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 440-57633-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV

Protocol References:

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

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 440-57633-1

Client Sample ID: S-13

Lab Sample ID: 440-57633-1

Date Collected: 09/19/13 14:45
Matrix: Water
Date Received: 09/21/13 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		40	10 mL	10 mL	135069	10/03/13 17:15	SS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		40	10 mL	10 mL	135070	10/03/13 17:15	SS	TAL IRV

Client Sample ID: S-14

Lab Sample ID: 440-57633-2

Date Collected: 09/19/13 14:19
Matrix: Water
Date Received: 09/21/13 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	10 mL	10 mL	135069	10/03/13 17:45	SS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		5	10 mL	10 mL	135070	10/03/13 17:45	SS	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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

Lab Sample ID: MB 440-135069/7
Matrix: Water
Analysis Batch: 135069

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/03/13 10:05	1
Toluene	ND		0.50		ug/L			10/03/13 10:05	1
Ethylbenzene	ND		0.50		ug/L			10/03/13 10:05	1
Xylenes, Total	ND		1.0		ug/L			10/03/13 10:05	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			10/03/13 10:05	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			10/03/13 10:05	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			10/03/13 10:05	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			10/03/13 10:05	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			10/03/13 10:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/03/13 10:05*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 121*		*10/03/13 10:05*	*1*
Toluene-d8 (Surr)	*98*		*81 - 130*		*10/03/13 10:05*	*1*

Lab Sample ID: LCS 440-135069/5
Matrix: Water
Analysis Batch: 135069

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.5		ug/L		98	68 - 130
Toluene	25.0	24.2		ug/L		97	70 - 130
Ethylbenzene	25.0	25.0		ug/L		100	70 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	24.9		ug/L		99	63 - 131
tert-Butyl alcohol (TBA)	125	113		ug/L		90	70 - 130
Isopropyl Ether (DIPE)	25.0	26.0		ug/L		104	58 - 139
Ethyl-t-butyl ether (ETBE)	25.0	25.3		ug/L		101	60 - 136
Tert-amyl-methyl ether (TAME)	25.0	25.4		ug/L		102	57 - 139
m,p-Xylene	50.0	51.1		ug/L		102	70 - 130
o-Xylene	25.0	25.8		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*77 - 121*
Toluene-d8 (Surr)	*98*		*81 - 130*

Lab Sample ID: 440-58139-F-1 MS
Matrix: Water
Analysis Batch: 135069

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	26.3		ug/L		105	66 - 130
Toluene	ND		25.0	26.4		ug/L		105	70 - 130
Ethylbenzene	ND		25.0	26.9		ug/L		108	70 - 130
Methyl-t-Butyl Ether (MTBE)	ND		25.0	27.1		ug/L		109	70 - 130
tert-Butyl alcohol (TBA)	ND		125	131		ug/L		105	70 - 130
Isopropyl Ether (DIPE)	ND		25.0	27.8		ug/L		111	64 - 138

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

Lab Sample ID: 440-58139-F-1 MS
Matrix: Water
Analysis Batch: 135069

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethyl-t-butyl ether (ETBE)	ND		25.0	26.9		ug/L		108	70 - 130
Tert-amyl-methyl ether (TAME)	ND		25.0	26.7		ug/L		107	68 - 133
m,p-Xylene	ND		50.0	54.3		ug/L		109	70 - 133
o-Xylene	ND		25.0	27.9		ug/L		112	70 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*77 - 121*
Toluene-d8 (Surr)	*99*		*81 - 130*

Lab Sample ID: 440-58139-F-1 MSD
Matrix: Water
Analysis Batch: 135069

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	25.5		ug/L		102	66 - 130	3	20
Toluene	ND		25.0	25.4		ug/L		102	70 - 130	4	20
Ethylbenzene	ND		25.0	25.7		ug/L		103	70 - 130	5	20
Methyl-t-Butyl Ether (MTBE)	ND		25.0	27.8		ug/L		111	70 - 130	2	25
tert-Butyl alcohol (TBA)	ND		125	121		ug/L		97	70 - 130	8	25
Isopropyl Ether (DIPE)	ND		25.0	27.0		ug/L		108	64 - 138	3	25
Ethyl-t-butyl ether (ETBE)	ND		25.0	27.2		ug/L		109	70 - 130	1	25
Tert-amyl-methyl ether (TAME)	ND		25.0	27.2		ug/L		109	68 - 133	2	30
m,p-Xylene	ND		50.0	51.2		ug/L		102	70 - 133	6	25
o-Xylene	ND		25.0	27.0		ug/L		108	70 - 133	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 121*
Toluene-d8 (Surr)	*97*		*81 - 130*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-135070/7
Matrix: Water
Analysis Batch: 135070

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			10/03/13 10:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*10/03/13 10:05*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/03/13 10:05*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/03/13 10:05*	*1*

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

Lab Sample ID: LCS 440-135070/6
Matrix: Water
Analysis Batch: 135070

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Volatile Fuel Hydrocarbons (C4-C12)			500	479		ug/L		96	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 440-58139-F-1 MS
Matrix: Water
Analysis Batch: 135070

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	1670		ug/L		97	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 440-58139-F-1 MSD
Matrix: Water
Analysis Batch: 135070

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	1680		ug/L		98	50 - 145	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 440-57633-1

GC/MS VOA

Analysis Batch: 135069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-57633-1	S-13	Total/NA	Water	8260B	
440-57633-2	S-14	Total/NA	Water	8260B	
440-58139-F-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-58139-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-135069/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-135069/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 135070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-57633-1	S-13	Total/NA	Water	8260B/CA_LUFT MS	
440-57633-2	S-14	Total/NA	Water	8260B/CA_LUFT MS	
440-58139-F-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-58139-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-135070/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-135070/7	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Glossary

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

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 440-57633-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-14
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-14
California	NELAP	9	1108CA	01-31-14
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-28-14 *
Hawaii	State Program	9	N/A	01-31-14
Nevada	State Program	9	CA015312007A	07-31-14
New Mexico	State Program	6	N/A	01-31-14
Northern Mariana Islands	State Program	9	MP0002	01-31-14
Oregon	NELAP	10	4005	09-12-14
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

* Expired certification is currently pending renewal and is considered valid.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL Houston (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (IRVINE)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER _____

Print Bill To Contact Name: 240897 Peter Schaefer

INCIDENT # (ENV SERVICES): 9 8 9 9 5 7 4 6 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 9/19/13

PAGE 1 of 1

PO #

SAP #: 1 3 5 6 8 6

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

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

State: CA

GLOBAL ID NO.: T0600101065

ADDRESS: 1680 Rogers Avenue, San Jose, CA

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.: 240897-65-11.01

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

SAMPLER NAME(S) (Print): Evan Stevenson

LAB USE ONLY

TELEPHONE: (310) 885-4455 x 108

FAX: (310) 637-5802

E-MAIL: lking@blainetech.com

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://cralabedduplod.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

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

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

REQUESTED ANALYSIS

TEMPERATURE ON RECEIPT, °C: 2.1/1.5

LAB USE ONLY	SAMPLE ID	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	PRESERVATIVE: HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	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)	Container PID Readings or Laboratory Notes
	WG -	136919-GSL	091913	ES	S-13	1445	WG	X					3	X					X							
	WG -	↓	↓	↓	S-14	1419	↓	X					3	X					X							

MS 9/23/13 8:50

440-57633 Chain of Custody

	Date	Time
Relinquished by: (Signature) Evan Stevenson	9/19/13	1647
Received by: (Signature)		
Relinquished by: (Signature)	9/20/13	1230
Received by: (Signature)		
Relinquished by: (Signature)	9/20/13	1245
Received by: (Signature)	9/20/13	1630
Relinquished by: (Signature)	9/21/13	10:45
Received by: (Signature)		

ES

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-57633-1

Login Number: 57633
List Number: 1
Creator: Freitag, Kevin R

List Source: TestAmerica Irvine

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