CONESTOGA-ROVERS & ASSOCIATES

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TRANSMITTAL

DATE: February 7, 2012

REFERENCE NO.: 240523

PROJECT NAME: 4212 First Street, Pleasanton

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

RECEIVED
10:57 am, Feb 15, 2012
Alameda County
Environmental Health

Please find enclosed:
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- ☒ Final
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QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report – Fourth Quarter 2011

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

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)
Douglas E. & Mary M. Safreno (property owner), 1627 Vineyard Avenue, Pleasanton, CA 94566-6389
Danielle Stefani, Livermore-Pleasanton Fire Department, 3560 Nevada Street, Pleasanton, CA 94566-6267
Cheryl Dizon, Zone 7 Water Agency, 100 North Canyons Parkway, Livermore, CA 94551
Clint Mercer (lessee), SC Fuels, 1800 West Katella Avenue, Orange, CA 92867

Completed by: Peter Schaefer Signed: Peter Schaefer

Filing: **Correspondence File**

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

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

Re: Shell-branded Service Station
4212 First Street
Pleasanton, California
SAP Code 135782
Incident No. 98995840
ACEH Case No. RO0000360

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,

Denis L. Brown
Senior Program Manager

GROUNDWATER MONITORING REPORT – FOURTH QUARTER 2011

SHELL-BRANDED SERVICE STATION
4212 FIRST STREET
PLEASANTON, CALIFORNIA

SAP CODE	135782
INCIDENT NO.	98995840
AGENCY NO.	RO0000360

Prepared by:
Conestoga-Rovers & Associates

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Emeryville, California
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FEBRUARY 7, 2012
REF. NO. 240523 (10)
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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	4212 First Street, Pleasanton
Site Use	Shell-branded Service Station
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0000360
Shell SAP Code	135782
Shell Incident No.	98995840

Date of most recent agency correspondence was January 5, 2012.

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 submitted a *Corrective Action Plan* recommending monitored natural attenuation (MNA) on October 24, 2011.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Variable
Hydraulic Gradient	Variable
Depth to Water	31.20 to 89.19 feet below top of well casing

2.3 PROPOSED ACTIVITIES

As approved in Alameda County Environmental Health's (ACEH's) January 5, 2012 letter, Blaine will gauge and sample wells according to the modified monitoring program for this site. This site will be monitored semiannually during the second and fourth quarters, and CRA will issue groundwater monitoring reports semiannually following the sampling events.

ACEH's January 5, 2012 letter requested a pilot test work plan and soil vapor investigation work plan. CRA will submit a pilot test work plan by March 16, 2012. We suggest completing the requested on-site soil vapor investigation following completion of the pilot test. In addition, we recommend postponing analysis of groundwater samples for MNA parameters (dissolved oxygen, oxidation-reduction potential, alkalinity, and nitrate, sulfate, and ferrous iron) pending our review of the pilot test results.

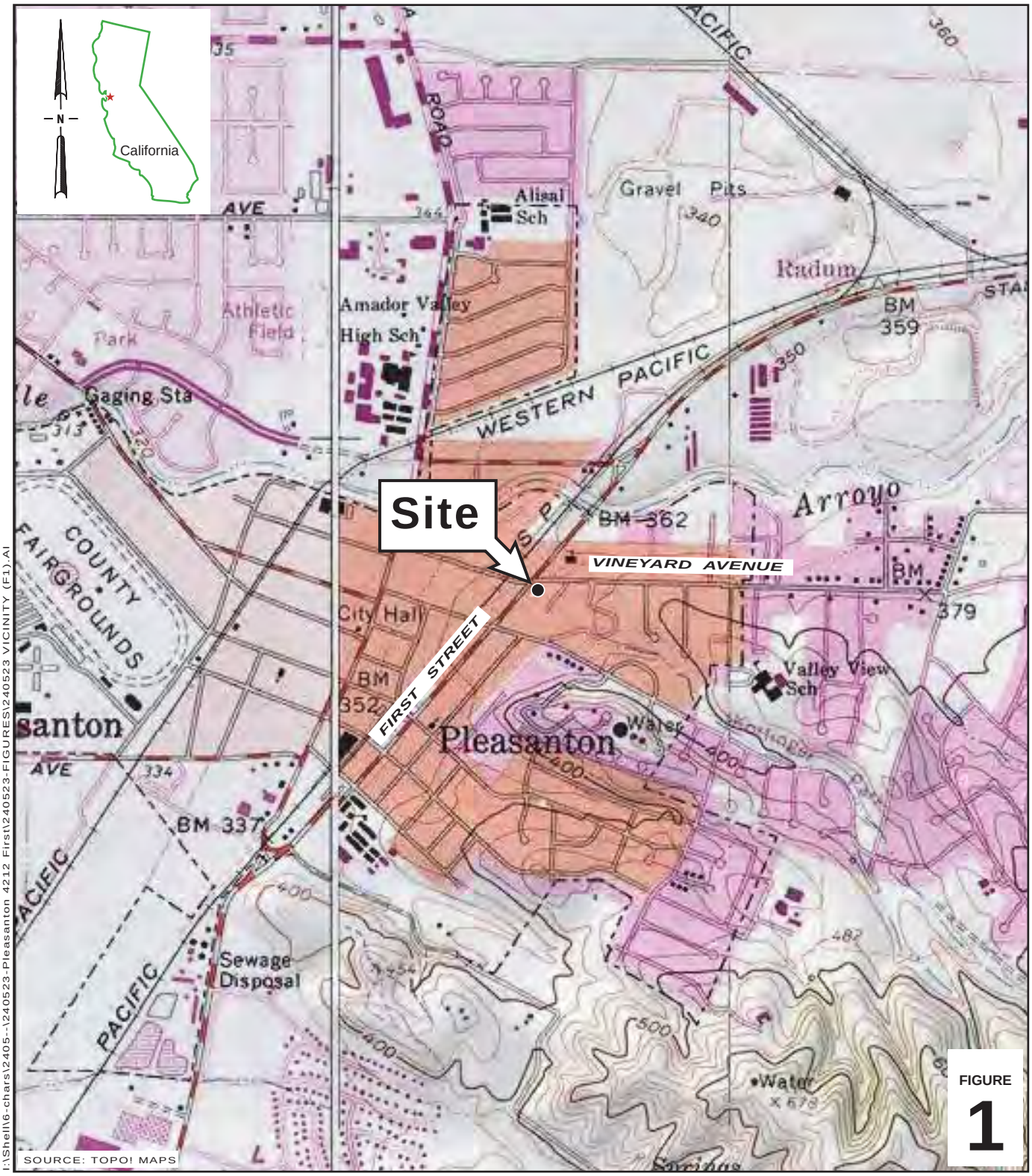
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CHG, CEG

Aubrey K. Cool, PG

FIGURES

01/18/2011



I:\Shell\6-chars\2405-\240523-Pleasanton 4212 First\240523-FIGURES\240523 VICINITY (F1).AI

FIGURE 1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

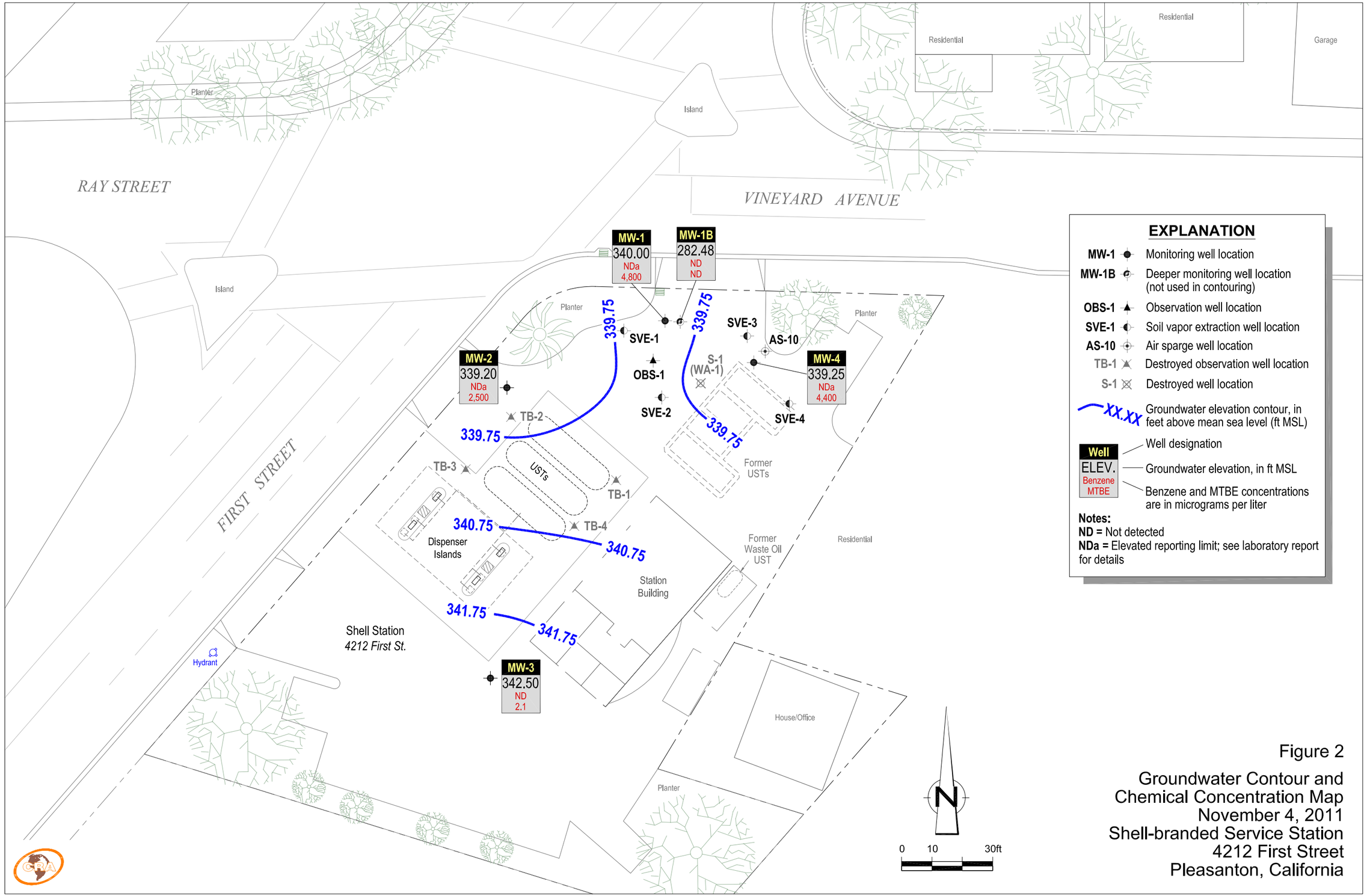
Shell-branded Service Station

4212 First Street

Pleasanton, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map



EXPLANATION

- **MW-1** — Monitoring well location
- **MW-1B** — Deeper monitoring well location (not used in contouring)
- **OBS-1** — Observation well location
- **SVE-1** — Soil vapor extraction well location
- **AS-10** — Air sparge well location
- **TB-1** — Destroyed observation well location
- **S-1** — Destroyed well location
- **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 micrograms per liter

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

Figure 2

Groundwater Contour and Chemical Concentration Map
November 4, 2011
Shell-branded Service Station
4212 First Street
Pleasanton, California

I:\Shell\6-chars\2405--\240523-Pleasanton 4212 First\240523-REPORTS\240523-RPT10-4Q11\240523 4QM11-GW.DWG (02/07/2012)

TABLE

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
4212 FIRST STREET, PLEASANTON, CALIFORNIA

Well ID	Date	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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-1	06/16/1999	---	---	---	---	---	---	---	---	---	---	---	371.20	37.81	333.39
MW-1	06/30/1999	89.0	5.89	<0.500	<0.500	0.652	<5.00	---	---	---	---	---	371.20	33.65	337.55
MW-1	09/24/1999	1,560	473	<10.0	<10.0	22.8	<2.50	---	---	---	---	---	371.20	37.04	334.16
MW-1	12/08/1999	1,020	375	<5.00	<5.00	15.2	<50.0	---	---	---	---	---	371.20	36.79	334.41
MW-1	02/10/2000	523	106	<5.00	<5.00	31.8	2.9	---	---	---	---	---	371.20	34.90	336.30
MW-1	05/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	37	29.5	---	---	---	---	371.20	32.55	338.65
MW-1	08/03/2000	808	290	<2.50	<2.50	8.9	<12.5	---	---	---	---	---	371.20	39.13	332.07
MW-1	10/31/2000	507	250	0.962	<0.500	23.5	3.76	---	---	---	---	---	371.20	37.91	333.29
MW-1	03/01/2001	<50.0	<0.500	<0.500	<0.500	<0.500	74.6	---	---	---	---	---	371.20	39.60	331.60
MW-1	05/30/2001	780	280	<2.0	<2.0	11	---	<2.0	---	---	---	---	371.20	39.53	331.67
MW-1	08/02/2001	1,900	580	<2.5	<2.5	12	---	<25	---	---	---	---	371.20	39.61	331.59
MW-1	12/06/2001	840	190	<0.50	<0.50	13	---	<5.0	---	---	---	---	371.20	39.63	331.57
MW-1	02/05/2002	2,700	650	<2.5	<2.5	7.2	---	<25	---	---	---	---	371.20	35.53	335.67
MW-1	06/17/2002	2,500	550	<2.0	<2.0	5.9	---	<20	---	---	---	---	371.20	39.29	331.91
MW-1	07/25/2002	690	130	<0.50	<0.50	4.4	---	18	---	---	---	---	371.20	39.39	331.81
MW-1	11/14/2002	400	31	<0.50	<0.50	2.7	---	27	---	---	---	---	371.20	40.00	331.20
MW-1	02/12/2003	840	0.85	<0.50	<0.50	<0.50	---	40	---	---	---	---	371.20	32.92	338.28
MW-1	05/14/2003	680	190	<2.5	<2.5	<5.0	---	95	---	---	---	---	371.20	32.57	338.63
MW-1	07/29/2003	870	190	<2.5	<2.5	<5.0	---	150	---	---	---	---	371.20	33.82	337.38
MW-1	11/19/2003	<200	14	<2.0	<2.0	<4.0	---	230	---	---	---	---	371.20	38.28	332.92
MW-1	02/19/2004	58 f	11	<0.50	<0.50	<1.0	---	85	---	---	---	---	371.20	36.93	334.27
MW-1	05/03/2004	670	310	<2.5	<2.5	<5.0	---	420	---	---	---	---	371.20	32.70	338.50
MW-1	08/24/2004	430 f	34	<2.5	<2.5	<5.0	---	690	---	---	---	---	371.20	34.66	336.54
MW-1	11/15/2004	<250	29	<2.5	<2.5	<5.0	---	470	---	---	---	---	371.20	38.27	332.93
MW-1	02/02/2005	540 k	87	<2.5	<2.5	<5.0	---	700	---	---	---	---	371.20	32.02	339.18
MW-1	05/05/2005	460 k	88	<2.5	<2.5	<5.0	---	300	---	---	---	---	371.20	36.82	334.38
MW-1	08/05/2005	910	230	<2.5	<2.5	<5.0	---	480	---	---	---	---	371.20	33.35	337.85
MW-1	11/22/2005	1,760	27	<0.500	<0.500	1.18	---	1,160	---	---	---	---	371.20	33.42	337.78
MW-1	02/07/2006	4,620	225	<0.500	<0.500	<0.500	---	1,480	---	---	---	---	371.20	31.63	339.57
MW-1	05/16/2006	1,100	130	<0.50	2.0	2.1	---	1,600	---	---	---	---	371.20	31.16	340.04
MW-1	08/21/2006	2,700	86	<0.500	0.79	0.81	---	1,960	---	---	---	---	371.20	33.07	338.13

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
4212 FIRST STREET, PLEASANTON, CALIFORNIA

Well ID	*Date*	*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)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*
MW-1	11/14/2006	1,400 f	30	<25	<25	<25	---	2,100	<1,000	<25	<25	<25	371.20	33.73	337.47
MW-1	02/01/2007	800	21	<0.50	<0.50	<1.0	---	2,300	---	---	---	---	371.20	33.02	338.18
MW-1	06/01/2007	1,400 j,k	68	<20	<20	4.4 l	---	2,200	---	---	---	---	371.20	32.87	338.33
MW-1	08/22/2007	250 j	20	<20	<20	<20	---	3,100	1,500	---	---	---	371.20	34.64	336.56
MW-1	11/26/2007	1,800 j	33	<20	<20	<20	---	3,100	930	<40	<40	<40	371.20	35.59	335.61
MW-1	02/19/2008	1,800 j	33	<20	<20	<20	---	3,700	1,700	---	---	---	371.20	31.05	340.15
MW-1	05/23/2008	3,700	100	<25	<25	<25	---	3,100	1,300	---	---	---	371.20	31.80	339.40
MW-1	08/07/2008	4,200	33	<25	<25	<25	---	3,500	<250	---	---	---	371.20	33.03	338.17
MW-1	12/03/2008	3,400	34	<25	<25	<25	---	3,200	980	---	---	---	371.20	35.19	336.01
MW-1	02/05/2009	2,100	26	<25	<25	<25	---	1,700	340	---	---	---	371.20	35.07	336.13
MW-1	05/07/2009	4,400	230	<25	<25	<25	---	3,700	980	---	---	---	371.20	32.45	338.75
MW-1	08/20/2009	3,100	86	<25	<25	<25	---	2,500	730	---	---	---	371.20	34.48	336.72
MW-1	11/09/2009	3,200	230	<20	<20	33	---	2,100	530	<40	<40	<40	371.20	35.84	335.36
MW-1	02/11/2010	4,400	30	<20	<20	<20	---	3,000	730	---	---	---	371.20	34.06	337.14
MW-1	05/13/2010	3,300	38	<20	<20	<20	---	3,300	1,100	---	---	---	371.20	31.99	339.21
MW-1	08/05/2010	4,200	12	<20	<20	<20	---	3,800	1,300	---	---	---	371.20	33.70	337.50
MW-1	10/30/2010	2,700	<10	<20	<20	<20	---	3,400	770	<40	<40	<40	371.20	33.12	338.08
MW-1	02/09/2011	2,600	32	<12	<12	<25	---	3,400	1,100	---	---	---	371.20	33.03	338.17
MW-1	05/31/2011	<2,500	26	<25	<25	<50	---	3,000	1,000	---	---	---	371.20	32.21	338.99
MW-1	07/27/2011	3,900 m	28	<10	<10	<20	---	4,100	1,400	---	---	---	371.20	33.60	337.60
MW-1	**11/04/2011**	**4,200**	**<25**	**<25**	**<25**	**<50**	**---**	**4,800**	**790**	**<50**	**<50**	**<50**	**371.20**	**31.20**	**340.00**
MW-1B	09/21/2006	---	---	---	---	---	---	---	---	---	---	---	371.67	76.94	294.73
MW-1B	09/28/2006	<50	<0.50	<0.50	<0.50	<0.50	---	21	<20	---	---	---	371.67	77.15	294.52
MW-1B	11/14/2006	320 f	<5.0	<5.0	<5.0	<5.0	---	310	<200	<5.0	<5.0	<5.0	371.67	69.38	302.29
MW-1B	02/01/2007	77	0.53	<0.50	<0.50	<1.0	---	150	---	---	---	---	371.67	60.92	310.75
MW-1B	06/01/2007	<50 j,k	0.25 l	<1.0	<1.0	<1.0	---	74	---	---	---	---	371.67	61.07	310.60
MW-1B	08/22/2007	<50 j	0.25 l	<1.0	<1.0	<1.0	---	35	7.1 l	---	---	---	371.67	77.54	294.13
MW-1B	11/26/2007	<50 j	<0.50	<1.0	<1.0	<1.0	---	1.7	<10	<2.0	<2.0	<2.0	371.67	68.50	303.17
MW-1B	02/19/2008	65 j	2.6	4.2	<1.0	1.1	---	58	<10	---	---	---	371.67	57.21	314.46
MW-1B	05/23/2008	<50	<0.50	<1.0	<1.0	<1.0	---	3.6	<10	---	---	---	371.67	57.53	314.14

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
4212 FIRST STREET, PLEASANTON, CALIFORNIA

Well ID	Date	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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-1B	08/07/2008	<50	<0.50	<1.0	<1.0	<1.0	---	1.1	<10	---	---	---	371.67	72.51	299.16
MW-1B	12/03/2008	<50	<0.50	<1.0	<1.0	<1.0	---	3.4	<10	---	---	---	371.67	80.84	290.83
MW-1B	02/05/2009	<50	<0.50	<1.0	<1.0	<1.0	---	4.4	<10	---	---	---	371.67	76.11	295.56
MW-1B	05/07/2009	<50	<0.50	<1.0	<1.0	<1.0	---	2.5	13	---	---	---	371.67	66.97	304.70
MW-1B	08/20/2009	<50	<0.50	<1.0	<1.0	<1.0	---	1.7	<10	---	---	---	371.67	97.32	274.35
MW-1B	11/09/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	371.67	98.90	272.77
MW-1B	02/11/2010	<50	<0.50	<1.0	<1.0	<1.0	---	1.1	<10	---	---	---	371.67	90.72	280.95
MW-1B	05/13/2010	<50	<0.50	<1.0	<1.0	<1.0	---	2.0	<10	---	---	---	371.67	80.56	291.11
MW-1B	08/05/2010	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	371.67	90.10	281.57
MW-1B	10/30/2010	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	371.67	102.21	269.46
MW-1B	02/09/2011	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	371.67	90.24	281.43
MW-1B	05/31/2011	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	371.67	73.83	297.84
MW-1B	07/27/2011	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	371.67	82.90	288.77
MW-1B	**11/04/2011**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<10**	**<1.0**	**<1.0**	**<1.0**	**371.67**	**89.19**	**282.48**
MW-2	02/03/2000	---	---	---	---	---	---	---	---	---	---	---	372.40	32.65	339.75
MW-2	02/07/2000	---	---	---	---	---	---	---	---	---	---	---	372.40	35.51	336.89
MW-2	02/10/2000	<50.0	<0.500	<0.500	<0.500	<0.500	2.61	---	---	---	---	---	372.40	36.62	335.78
MW-2	05/17/2000	120	4.09	<0.500	<0.500	<0.500	29	---	---	---	---	---	372.40	32.14	340.26
MW-2	08/03/2000	<50.0	0.692	<0.500	<0.500	<0.500	40.5	36.6 b	---	---	---	---	372.40	32.42	339.98
MW-2	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	57.4	44.8 a	---	---	---	---	372.40	33.02	339.38
MW-2	03/01/2001	173	1.64	1.65	2.86	3.97	127	167	---	---	---	---	372.40	32.54	339.86
MW-2	05/30/2001	<50	<0.50	<0.50	<0.50	<0.50	---	170	---	---	---	---	372.40	32.42	339.98
MW-2	08/02/2001	<50	<0.50	<0.50	<0.50	<0.50	---	160	---	---	---	---	372.40	32.55	339.85
MW-2	12/06/2001	<50	<0.50	<0.50	<0.50	<0.50	---	170	---	---	---	---	372.40	33.15	339.25
MW-2	02/05/2002	<50	0.72	<0.50	<0.50	1.7	---	170	---	---	---	---	372.40	32.29	340.11
MW-2	06/17/2002	<50	<0.50	<0.50	<0.50	<0.50	---	260	---	---	---	---	372.40	32.63	339.77
MW-2	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	---	280	---	---	---	---	372.40	32.80	339.60
MW-2	11/14/2002	120	13	9.0	3.8	14	---	430	---	---	---	---	372.40	33.31	339.09
MW-2	02/12/2003	<100	<1.0	<1.0	<1.0	<1.0	---	430	---	---	---	---	372.40	32.15	340.25
MW-2	05/14/2003	<250	<2.5	<2.5	<2.5	<5.0	---	470	---	---	---	---	372.40	32.01	340.39

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
4212 FIRST STREET, PLEASANTON, CALIFORNIA

Well ID	*Date*	*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)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*
MW-2	07/29/2003	<250	<2.5	<2.5	<2.5	<5.0	---	670	---	---	---	---	372.40	32.51	339.89
MW-2	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	---	54	---	---	---	---	372.40	33.83	338.57
MW-2	02/19/2004	65	<0.50	3.4	1.4	6.5	---	8.2	---	---	---	---	372.40	32.68	339.72
MW-2	05/03/2004	<50	<0.50	<0.50	<0.50	<1.0	---	5.2	---	---	---	---	372.40	32.07	340.33
MW-2	08/24/2004	<50	<0.50	<0.50	<0.50	<1.0	---	2.7	---	---	---	---	372.40	32.44	339.96
MW-2	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	---	1.3	---	---	---	---	372.40	32.95	339.45
MW-2	02/02/2005	<50	<0.50	<0.50	<0.50	<1.0	---	24	---	---	---	---	372.40	31.94	340.46
MW-2	05/05/2005	72 f	<0.50	<0.50	<0.50	<1.0	---	4.9	---	---	---	---	372.40	31.91	340.49
MW-2	08/05/2005	<50	<0.50	<0.50	<0.50	<1.0	---	16	---	---	---	---	372.40	32.15	340.25
MW-2	11/22/2005	840	0.80	<0.500	<0.500	0.87	---	556	---	---	---	---	372.40	32.31	340.09
MW-2	02/07/2006	3,550	<0.500	<0.500	<0.500	<0.500	---	2,500	---	---	---	---	372.40	31.70	340.70
MW-2	05/16/2006	1,400	<5.0	<5.0	<5.0	<10	---	1,700	---	---	---	---	372.40	31.38	341.02
MW-2	08/21/2006	1,910	<0.500	<0.500	<0.500	<0.500	---	2,590	---	---	---	---	372.40	33.29	339.11
MW-2	11/14/2006	2,300 f	<25	<25	<25	<25	---	2,500	<1,000	<25	<25	<25	372.40	32.67	339.73
MW-2	02/01/2007	670	<0.50	<0.50	<0.50	<1.0	---	2,000	---	---	---	---	372.40	32.13	340.27
MW-2	06/01/2007	500 j,k	<10	<20	<20	<20	---	2,000	---	---	---	---	372.40	32.14	340.26
MW-2	08/22/2007	100 j,k	<10	<20	<20	<20	---	2,400	120 l	---	---	---	372.40	32.93	339.47
MW-2	11/26/2007	1,600 j,k	<10	<20	<20	<20	---	2,900	<200	<40	<40	<40	372.40	33.44	338.96
MW-2	02/19/2008	1,300 j,k	<10	<20	<20	<20	---	3,300	<200	---	---	---	372.40	31.18	341.22
MW-2	05/23/2008	1,900	<12	<25	<25	<25	---	1,700	<250	---	---	---	372.40	31.44	340.96
MW-2	08/07/2008	1,700	<10	<20	<20	<20	---	1,300	<200	---	---	---	372.40	31.94	340.46
MW-2	12/03/2008	3,000	<10	<20	<20	<20	---	2,900	<200	---	---	---	372.40	32.53	339.87
MW-2	02/05/2009	1,200	<10	<20	<20	<20	---	1,000	<200	---	---	---	372.40	32.29	340.11
MW-2	05/07/2009	2,400	<10	<20	<20	<20	---	2,400	<200	---	---	---	372.40	31.98	340.42
MW-2	08/20/2009	2,800	<10	<20	<20	<20	---	2,400	<200	---	---	---	372.40	32.51	339.89
MW-2	11/09/2009	4,100	<12	<25	<25	<25	---	3,800	<250	<50	<50	<50	372.40	32.43	339.97
MW-2	02/11/2010	4,300	<12	<25	<25	<25	---	3,200	<250	---	---	---	372.40	32.07	340.33
MW-2	05/13/2010	2,400	<10	<20	<20	<20	---	2,500	<200	---	---	---	372.40	31.63	340.77
MW-2	08/05/2010	1,500	<5.0	<10	<10	<10	---	1,400	210	---	---	---	372.40	33.82	338.58
MW-2	10/30/2010	1,700	<5.0	<10	<10	<10	---	2,200	130	<20	<20	<20	372.40	32.82	339.58
MW-2	02/09/2011	1,400	<12	<12	<12	<25	---	1,900	<250	---	---	---	372.40	32.11	340.29

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
4212 FIRST STREET, PLEASANTON, CALIFORNIA

Well ID	Date	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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-2	05/31/2011	<1,000	<10	<10	<10	<20	---	1,200	<200	---	---	---	372.40	31.97	340.43
MW-2	07/27/2011	1,600 m	<10	<10	<10	<20	---	2,000	<200	---	---	---	372.40	32.30	340.10
MW-2	**11/04/2011**	**2,100**	**<10**	**<10**	**<10**	**<20**	**---**	**2,500**	**<200**	**<20**	**<20**	**<20**	**372.40**	**33.20**	**339.20**
MW-3	02/03/2000	---	---	---	---	---	---	---	---	---	---	---	375.05	32.06	342.99
MW-3	02/07/2000	---	---	---	---	---	---	---	---	---	---	---	375.05	32.57	342.48
MW-3	02/10/2000	180	5.12	<0.500	<0.500	0.714	26.8	21.5 a	---	---	---	---	375.05	32.77	342.28
MW-3	05/17/2000	1,360	414	<5.00	<5.00	17.6	<25.0	---	---	---	---	---	375.05	31.00	344.05
MW-3	08/03/2000	<50.0	0.536	<0.500	<0.500	<0.500	22	---	---	---	---	---	375.05	31.03	344.02
MW-3	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	31.1	---	---	---	---	---	375.05	31.28	343.77
MW-3	03/01/2001	384	172	0.815	<0.500	8.0	5.16	---	---	---	---	---	375.05	31.21	343.84
MW-3	05/30/2001	<50	<0.50	<0.50	<0.50	<0.50	---	110	---	---	---	---	375.05	31.02	344.03
MW-3	08/02/2001	<50	<0.50	<0.50	<0.50	<0.50	---	93	---	---	---	---	375.05	30.94	344.11
MW-3	12/06/2001	110	<0.50	<0.50	<0.50	2.3	---	180	---	---	---	---	375.05	31.28	343.77
MW-3	02/05/2002	<50	0.89	0.60	<0.50	2.1	---	130	---	---	---	---	375.05	31.12	343.93
MW-3	06/17/2002	<50	<0.50	<0.50	<0.50	<0.50	---	72	---	---	---	---	375.05	31.21	343.84
MW-3	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	---	81	---	---	---	---	375.05	30.96	344.09
MW-3	11/14/2002	<50	<0.50	<0.50	<0.50	<0.50	---	60	---	---	---	---	375.05	31.44	343.61
MW-3	02/12/2003	<50	<0.50	<0.50	<0.50	<0.50	---	43	---	---	---	---	375.05	31.28	343.77
MW-3	05/14/2003	<50	<0.50	<0.50	<0.50	<1.0	---	24	---	---	---	---	375.05	31.20	343.85
MW-3	07/29/2003	<50	<0.50	<0.50	<0.50	<1.0	---	21	---	---	---	---	375.05	31.29	343.76
MW-3	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	---	8.2	---	---	---	---	375.05	31.86	343.19
MW-3	02/19/2004	81	0.67	4.4	1.8	8.6	---	13	---	---	---	---	375.05	31.66	343.39
MW-3	05/03/2004	<50	<0.50	<0.50	<0.50	<1.0	---	13	---	---	---	---	375.05	31.72	343.33
MW-3	08/24/2004	<50	<0.50	<0.50	<0.50	<1.0	---	10	---	---	---	---	375.05	32.09	342.96
MW-3	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	---	6.6	---	---	---	---	375.05	31.50	343.55
MW-3	02/02/2005	<50	<0.50	<0.50	<0.50	<1.0	---	3.1	---	---	---	---	375.05	31.28	343.77
MW-3	05/05/2005	<50	<0.50	<0.50	<0.50	<1.0	---	2.3	---	---	---	---	375.05	31.42	343.63
MW-3	08/05/2005	<50	<0.50	<0.50	<0.50	<1.0	---	2.4	---	---	---	---	375.05	31.35	343.70
MW-3	11/22/2005	<50	<0.500	<0.500	<0.500	<0.500	---	3.84	---	---	---	---	375.05	31.98	343.07
MW-3	02/07/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	---	---	---	---	375.05	31.24	343.81

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
4212 FIRST STREET, PLEASANTON, CALIFORNIA

Well ID	*Date*	*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)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*
MW-3	05/16/2006	<50	<0.50	<0.50	<0.50	<1.0	---	4.5	---	---	---	---	375.05	31.37	343.68
MW-3	08/21/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	4.04	---	---	---	---	375.05	31.95	343.10
MW-3	11/14/2006	<50	<0.50	<0.50	<0.50	<0.50	---	3.8	<20	<0.50	<0.50	<0.50	375.05	32.24	342.81
MW-3	02/01/2007	<50	<0.50	<0.50	<0.50	<1.0	---	2.8	---	---	---	---	375.05	32.17	342.88
MW-3	06/01/2007	<50 j	<0.50	<1.0	<1.0	<1.0	---	3.1	---	---	---	---	375.05	31.86	343.19
MW-3	08/22/2007	<50 j	<0.50	<1.0	<1.0	<1.0	---	4.6	<10	---	---	---	375.05	32.18	342.87
MW-3	11/26/2007	<50 j	<0.50	<1.0	<1.0	<1.0	---	3.5	<10	<2.0	<2.0	<2.0	375.05	32.69	342.36
MW-3	02/19/2008	<50 j	<0.50	1.2	<1.0	<1.0	---	2.6	<10	---	---	---	375.05	30.94	344.11
MW-3	05/23/2008	<50	<0.50	<1.0	<1.0	<1.0	---	3.6	<10	---	---	---	375.05	31.45	343.60
MW-3	08/07/2008	<50	<0.50	<1.0	<1.0	<1.0	---	3.0	<10	---	---	---	375.05	31.40	343.65
MW-3	12/03/2008	<50	<0.50	<1.0	<1.0	<1.0	---	2.1	<10	---	---	---	375.05	32.12	342.93
MW-3	02/05/2009	<50	<0.50	<1.0	<1.0	<1.0	---	1.1	<10	---	---	---	375.05	32.74	342.31
MW-3	05/07/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	375.05	31.69	343.36
MW-3	08/20/2009	<50	<0.50	<1.0	<1.0	<1.0	---	2.0	<10	---	---	---	375.05	32.42	342.63
MW-3	11/09/2009	<50	<0.50	<1.0	<1.0	<1.0	---	1.7	<10	<2.0	<2.0	<2.0	375.05	32.54	342.51
MW-3	02/11/2010	<50	<0.50	<1.0	<1.0	<1.0	---	2.1	<10	---	---	---	375.05	31.81	343.24
MW-3	05/13/2010	<50	<0.50	<1.0	<1.0	<1.0	---	1.7	<10	---	---	---	375.05	31.25	343.80
MW-3	08/05/2010	<50	<0.50	<1.0	<1.0	<1.0	---	1.2	<10	---	---	---	375.05	32.00	343.05
MW-3	10/30/2010	<50	<0.50	<1.0	<1.0	<1.0	---	1.4	<10	<2.0	<2.0	<2.0	375.05	32.18	342.87
MW-3	02/09/2011	<50	<0.50	<0.50	<0.50	<1.0	---	1.7	<10	---	---	---	375.05	31.80	343.25
MW-3	05/31/2011	<50	<0.50	<0.50	<0.50	<1.0	---	1.9	<10	---	---	---	375.05	31.60	343.45
MW-3	07/27/2011	<50	<0.50	<0.50	<0.50	<1.0	---	1.8	<10	---	---	---	375.05	32.00	343.05
MW-3	**11/04/2011**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**2.1**	**<10**	**<1.0**	**<1.0**	**<1.0**	**375.05**	**32.55**	**342.50**
MW-4	09/21/2006	---	---	---	---	---	---	---	---	---	---	---	372.78	31.58	341.20
MW-4	09/28/2006	11,000	<250	<250	<250	<250	---	13,000	<10,000	---	---	---	372.78	31.57	341.21
MW-4	11/14/2006	30,000	<250	<250	<250	<250 a	---	14,000	<10,000	<250	<250	<250	372.78	32.11	340.67
MW-4	02/01/2007	6,300	50	<5.0	19	120	---	14,000	---	---	---	---	372.78	33.23	339.55
MW-4	06/01/2007	8,200 j	52	<25	26	150	---	11,000	---	---	---	---	372.78	31.57	341.21
MW-4	08/22/2007	---	---	---	---	---	---	---	---	---	---	---	372.78	33.40	339.38
MW-4	11/26/2007	12,000 j	71	<100	<100	<100	---	20,000	<1,000	<200	<200	<200	372.78	34.74	338.04

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
4212 FIRST STREET, PLEASANTON, CALIFORNIA

Well ID	*Date*	*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)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*
MW-4	02/19/2008	13,000 j	<100	<200	<200	<200	---	18,000	2,900	---	---	---	372.78	29.70	343.08
MW-4	05/23/2008	21,000	<100	<200	<200	<200	---	16,000	<2,000	---	---	---	372.78	31.67	341.11
MW-4	08/07/2008	27,000	<100	<200	<200	<200	---	21,000	<2,000	---	---	---	372.78	31.90	340.88
MW-4	12/03/2008	20,000	19	<25	<25	29	---	21,000	2,500	---	---	---	372.78	34.32	338.46
MW-4	02/05/2009	15,000	200	<200	<200	<200	---	13,000	<2,000	---	---	---	372.78	34.58	338.20
MW-4	05/07/2009	18,000	<100	<200	<200	<200	---	17,000	<2,000	---	---	---	372.78	31.34	341.44
MW-4	08/20/2009	15,000	<50	<100	<100	<100	---	13,000	1,900	---	---	---	372.78	33.56	339.22
MW-4	11/09/2009	13,000	<50	<100	<100	<100	---	11,000	<1000	<200	<200	<200	372.78	33.57	339.21
MW-4	02/11/2010	11,000	95	<100	<100	110	---	7,500	3,200	---	---	---	372.78	31.21	341.57
MW-4	05/13/2010	8,800	48	<50	57	96	---	7,800	2,900	---	---	---	372.78	30.19	342.59
MW-4	08/05/2010	4,000	<12	<25	<25	<25	---	3,600	600	---	---	---	372.78	32.22	340.56
MW-4	10/30/2010	6,800	<12	<25	<25	<25	---	8,200	1,400	<50	<50	<50	372.78	33.95	338.83
MW-4	02/09/2011	<5,000	<50	<50	<50	<100	---	5,800	2,700	---	---	---	372.78	31.56	341.22
MW-4	05/31/2011	<5,000	<50	<50	<50	<100	---	5,600	1,200	---	---	---	372.78	30.78	342.00
MW-4	07/27/2011	4,500 m	<10	<10	18	21	---	5,200	2,100	---	---	---	372.78	31.64	341.14
MW-4	**11/04/2011**	**3,400 m**	**<25**	**<25**	**<25**	**<50**	**---**	**4,400**	**1,800**	**<50**	**<50**	**<50**	**372.78**	**33.53**	**339.25**
TB-1	02/12/2003	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---
TB-1	02/28/2003	---	---	---	---	---	---	---	---	---	---	---	---	12.54	---
TB-1	05/14/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<5.0	---	---	---	---	---	12.31	---
TB-2	02/12/2003	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---
TB-2	02/28/2003	---	---	---	---	---	---	---	---	---	---	---	---	12.56	---
TB-2	05/14/2003	Insufficient water		---	---	---	---	---	---	---	---	---	---	12.54	---
TB-3	02/12/2003	Well dry	---	---	---	---	---	---	---	---	---	---	---	---	---
TB-3	02/28/2003	Well dry	---	---	---	---	---	---	---	---	---	---	---	---	---
TB-3	05/14/2003	Well dry	---	---	---	---	---	---	---	---	---	---	---	---	---
TB-4	02/12/2003	Well dry	---	---	---	---	---	---	---	---	---	---	---	---	---
TB-4	02/28/2003	Well dry	---	---	---	---	---	---	---	---	---	---	---	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
4212 FIRST STREET, PLEASANTON, CALIFORNIA

Well ID	Date	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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
TB-4	05/14/2003	Well dry	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to 5/30/2001, analyzed by EPA Method 8015 unless otherwise noted.
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to 5/30/2001, analyzed by EPA Method 8020.
MTBE = Methyl tertiary-butyl ether analyzed as 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
TOC = Top of casing elevation, in feet relative to mean sea level
GW = Groundwater
µg/L = Micrograms per liter
ft = Feet
MSL = Mean sea level
<x = Not detected at reporting limit x
--- = Not analyzed or available

a = Sample was analyzed outside the EPA recommended holding time.
b = Concentration is an estimate value above the linear quantitation range.
f = The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.
j = Analyzed by EPA Method 8015B (M).
k = 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.
l = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
m = Hydrocarbon result partly due to individual peak(s) in quantitation range.

Well MW-1 surveyed on May 4, 1999 by Virgil Chavez Land Surveying
Site wells surveyed on March 19, 2000 by Virgil Chavez Land Surveying
Site wells surveyed on January 15, 2002 by Virgil Chavez Land Surveying
September 21, 2006 survey data for wells MW-1B and MW-4 provided by Delta Environmental Consultants, Inc.

APPENDIX A

BLAINE TECH SERVICES, INC. - FIELD NOTES

WELL GAUGING DATA

Project # 111104-BP1 Date 11/4/11 Client Shell

Site 4212 First Street, Pleasanton 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
MW-1	0718	2					31.20	57.17		
MW-1B	0723	4					89.19	108.03		
MW-2	0740	4					33.20	45.87		
MW-3	0730	4					32.55	34.70		
MW-4	0751	4					33.53	46.84		

SHELL WELL MONITORING DATA SHEET

BTS #: 11104 - BP1	Site: 4212 First St Pleasanton
Sampler: BP, DA	Date: 11-4-11
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 57.17	Depth to Water (DTW): 31.20
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]: 36.39	

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: _____

4.2 (Gals.) X 3 = 12.6 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
0820	61.1	6.40	1601	151	4.2	
0831	65.9	6.63	1613	>1000	8.4	
0941	65.6	6.71	1644	>1000	12.6	DTW: 52.79
1100	62.5	7.00	1535	59		

Did well dewater? Yes (No) Gallons actually evacuated: 12.6

Sampling Date: 11-4-11 Sampling Time: 1100 Depth to Water: 44.49 (2hr)

Sample I.D.: MW-1 Laboratory: (Test America) Other_____

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

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

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

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

D

SHELL WELL MONITORING DATA SHEET

BTS #: 11104-BP1	Site: 422 First St Pleasanton
Sampler: BP, DA	Date: 11-4-11
Well I.D.: MW-1B	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 108.03	Depth to Water (DTW): 89.19
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]: 92.95	

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:_____

12.3 (Gals.) X 3 = 36.9 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
0856	64.3	7.19	1162	165	12.3	
0859 (0858)	65.2	7.23	1153	45	24.6	
0905	65.9	7.14	1158	25	39 (24.6) 36.9	

Did well dewater? Yes (No) Gallons actually evacuated: 36.9

Sampling Date: 11-4-11 Sampling Time: 0910 Depth to Water: 89.61

Sample I.D.: MW-1B 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 #: 11104-BP1	Site: 4212 First St Pleasanton
Sampler: BP, DA	Date: 11-4-11
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 45.87	Depth to Water (DTW): 33.20
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]: 35.73	

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:_____

8.2 (Gals.) X 3 = 24.6 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
0934	64.0	6.78	938.2	11	8.2	
0936	well	dewatered @			9.2 gals	
1137	63.5	6.85	1035	26		

Did well dewater? (Yes) No Gallons actually evacuated: 9.2

Sampling Date: 11-4-11 Sampling Time: 1137 Depth to Water: 41.45 (2hr)

Sample I.D.: MW-2 Laboratory: (Test America) Other_____

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

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

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

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

-1

SHELL WELL MONITORING DATA SHEET

BTS #: 11104-BP1	Site: 4212 First St Pleasanton
Sampler: BP, DA	Date: 11-4-11
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 34.70	Depth to Water (DTW): 32.55
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]: 32.98	

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: _____

1.4 (Gals.) X 3 = 4.2 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
0923	58.3	7.38	1154	25	0.8	
0923	well	dewatered	@	0.8 gals		
1125	63.9	6.67	841.7	41		

Did well dewater? (Yes) No Gallons actually evacuated: 0.8 gals.

Sampling Date: 11-4-11 Sampling Time: 1125 Depth to Water: 33.09 (2hr.)

Sample I.D.: MW-3 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 #: 11164-BP1	Site: 4212 First St Pleasanton
Sampler: BP, DA	Date: 11-4-11
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 46.84	Depth to Water (DTW): 33.53
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]: 36.19	

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: ____

8.7 (Gals.) X	3	= 26.1 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
0947	63.8	6.75	911.1	120	8.7	
0948	well	dewatered	@	14.7 gals		
1150	64.8	6.81	945.4	104		

Did well dewater? (Yes) No Gallons actually evacuated: 14.7

Sampling Date: 11-4-11 Sampling Time: 1150 Depth to Water: 34.44

Sample I.D.: MW-4 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 # 111104-BP1

DATE: 11/4/11

ADDRESS 4212 First Street

CITY & STATE Pleasanton 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
MW-1	Standpipe	**Flush**	**G**	P	Size (inch) 12	**Y**	N	**G**	R	**G**	R	NL	**G**	P		Y	**N**	
MW-1B	Standpipe	**Flush**	**G**	P	Size (inch) 12	**Y**	N	**G**	R	**G**	R	NL	**G**	P		Y	**N**	
MW-3	Standpipe	**Flush**	**G**	P	Size (inch) 12	**Y**	N	**G**	R	**G**	R	NL	**G**	P		Y	**N**	
MW-2	Standpipe	**Flush**	**G**	P	Size (inch) 12	**Y**	N	**G**	R	**G**	R	NL	**G**	P		Y	**N**	
MW-4	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	

TOTAL # CAPS REPLACED = ____ | ____ = 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.

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

Ben Parrell Blaine Tech Service

Print or type Name of Field Personnel & Consultant Company

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

APPENDIX B

TEST AMERICA –
LABORATORY REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

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

Project: 4212 First St., Pleasanton, CA

Sampled: 11/04/11
Received: 11/08/11
Issued: 11/27/11 13:44

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
IUK0973-01	MW-1	Water
IUK0973-02	MW-1B	Water
IUK0973-03	MW-2	Water
IUK0973-04	MW-3	Water
IUK0973-05	MW-4	Water

Reviewed By:

Philip Sanelle

TestAmerica Irvine

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

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

Project ID: 4212 First St., Pleasanton, CA

Report Number: IUK0973

Sampled: 11/04/11
Received: 11/08/11

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: IUK0973-01 (MW-1 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11K2228	2500	**4200**	50	11/16/2011	11/16/2011	
Surrogate: Dibromofluoromethane (80-120%)				*111 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*105 %*				
Sample ID: IUK0973-02 (MW-1B - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11K2228	50	ND	1	11/16/2011	11/16/2011	
Surrogate: Dibromofluoromethane (80-120%)				*111 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				
Sample ID: IUK0973-03 (MW-2 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11K2228	1000	**2100**	20	11/16/2011	11/16/2011	
Surrogate: Dibromofluoromethane (80-120%)				*110 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*105 %*				
Sample ID: IUK0973-04 (MW-3 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11K2228	50	ND	1	11/16/2011	11/16/2011	
Surrogate: Dibromofluoromethane (80-120%)				*108 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*105 %*				
Sample ID: IUK0973-05 (MW-4 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11K2245	2500	**3400**	50	11/16/2011	11/17/2011	QP1
Surrogate: Dibromofluoromethane (80-120%)				*98 %*				
Surrogate: Toluene-d8 (80-120%)				*95 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*88 %*				

TestAmerica Irvine

Philip Sanelle
Project Manager

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

Project ID: 4212 First St., Pleasanton, CA

Report Number: IUK0973

Sampled: 11/04/11
Received: 11/08/11

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: IUK0973-01 (MW-1 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11K2228	25	ND	50	11/16/2011	11/16/2011	
Ethylbenzene	EPA 8260B	11K2228	25	ND	50	11/16/2011	11/16/2011	
Toluene	EPA 8260B	11K2228	25	ND	50	11/16/2011	11/16/2011	
Xylenes, Total	EPA 8260B	11K2228	50	ND	50	11/16/2011	11/16/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11K2228	50	ND	50	11/16/2011	11/16/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11K2228	50	ND	50	11/16/2011	11/16/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11K2228	50	**4800**	50	11/16/2011	11/16/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11K2228	50	ND	50	11/16/2011	11/16/2011	
tert-Butanol (TBA)	EPA 8260B	11K2228	500	**790**	50	11/16/2011	11/16/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*105 %*				
Surrogate: Dibromofluoromethane (80-120%)				*111 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Sample ID: IUK0973-02 (MW-1B - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11K2228	0.50	ND	1	11/16/2011	11/16/2011	
Ethylbenzene	EPA 8260B	11K2228	0.50	ND	1	11/16/2011	11/16/2011	
Toluene	EPA 8260B	11K2228	0.50	ND	1	11/16/2011	11/16/2011	
Xylenes, Total	EPA 8260B	11K2228	1.0	ND	1	11/16/2011	11/16/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11K2228	1.0	ND	1	11/16/2011	11/16/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11K2228	1.0	ND	1	11/16/2011	11/16/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11K2228	1.0	ND	1	11/16/2011	11/16/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11K2228	1.0	ND	1	11/16/2011	11/16/2011	
tert-Butanol (TBA)	EPA 8260B	11K2228	10	ND	1	11/16/2011	11/16/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				
Surrogate: Dibromofluoromethane (80-120%)				*111 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				

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: 4212 First St., Pleasanton, CA
Report Number: IUK0973

Sampled: 11/04/11
Received: 11/08/11

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: IUK0973-03 (MW-2 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11K2228	10	ND	20	11/16/2011	11/16/2011	
Ethylbenzene	EPA 8260B	11K2228	10	ND	20	11/16/2011	11/16/2011	
Toluene	EPA 8260B	11K2228	10	ND	20	11/16/2011	11/16/2011	
Xylenes, Total	EPA 8260B	11K2228	20	ND	20	11/16/2011	11/16/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11K2228	20	ND	20	11/16/2011	11/16/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11K2228	20	ND	20	11/16/2011	11/16/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11K2228	20	**2500**	20	11/16/2011	11/16/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11K2228	20	ND	20	11/16/2011	11/16/2011	
tert-Butanol (TBA)	EPA 8260B	11K2228	200	ND	20	11/16/2011	11/16/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*105 %*				
Surrogate: Dibromofluoromethane (80-120%)				*110 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Sample ID: IUK0973-04 (MW-3 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11K2228	0.50	ND	1	11/16/2011	11/16/2011	
Ethylbenzene	EPA 8260B	11K2228	0.50	ND	1	11/16/2011	11/16/2011	
Toluene	EPA 8260B	11K2228	0.50	ND	1	11/16/2011	11/16/2011	
Xylenes, Total	EPA 8260B	11K2228	1.0	ND	1	11/16/2011	11/16/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11K2228	1.0	ND	1	11/16/2011	11/16/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11K2228	1.0	ND	1	11/16/2011	11/16/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11K2228	1.0	**2.1**	1	11/16/2011	11/16/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11K2228	1.0	ND	1	11/16/2011	11/16/2011	
tert-Butanol (TBA)	EPA 8260B	11K2228	10	ND	1	11/16/2011	11/16/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*105 %*				
Surrogate: Dibromofluoromethane (80-120%)				*108 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				

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

Project ID: 4212 First St., Pleasanton, CA

Report Number: IUK0973

Sampled: 11/04/11
Received: 11/08/11

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: IUK0973-05 (MW-4 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11K2245	25	ND	50	11/16/2011	11/17/2011	
Ethylbenzene	EPA 8260B	11K2245	25	ND	50	11/16/2011	11/17/2011	
Toluene	EPA 8260B	11K2245	25	ND	50	11/16/2011	11/17/2011	
Xylenes, Total	EPA 8260B	11K2245	50	ND	50	11/16/2011	11/17/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11K2245	50	ND	50	11/16/2011	11/17/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11K2245	50	ND	50	11/16/2011	11/17/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11K2245	50	**4400**	50	11/16/2011	11/17/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11K2245	50	ND	50	11/16/2011	11/17/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*88 %*				
Surrogate: Dibromofluoromethane (80-120%)				*98 %*				
Surrogate: Toluene-d8 (80-120%)				*95 %*				
Sample ID: IUK0973-05RE1 (MW-4 - Water)								
Reporting Units: ug/l								
tert-Butanol (TBA)	EPA 8260B	11K2664	500	**1800**	50	11/18/2011	11/18/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*83 %*				
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*93 %*				

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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: 11K2228 Extracted: 11/16/11										
Blank Analyzed: 11/16/2011 (11K2228-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
LCS Analyzed: 11/16/2011 (11K2228-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	427	50	ug/l	500		85	55-130			
Surrogate: Dibromofluoromethane	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Matrix Spike Analyzed: 11/16/2011 (11K2228-MS1)					**Source: IUK0967-13**					
Volatile Fuel Hydrocarbons (C4-C12)	1460	50	ug/l	1720	ND	84	50-145			
Surrogate: Dibromofluoromethane	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Matrix Spike Dup Analyzed: 11/16/2011 (11K2228-MSD1)					**Source: IUK0967-13**					
Volatile Fuel Hydrocarbons (C4-C12)	1460	50	ug/l	1720	ND	85	50-145	0.4	20	
Surrogate: Dibromofluoromethane	*25.6*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			
Batch: 11K2245 Extracted: 11/16/11										
Blank Analyzed: 11/16/2011 (11K2245-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*23.6*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.2*		*ug/l*	*25.0*		*89*	*80-120*			

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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: 11K2245 Extracted: 11/16/11										
LCS Analyzed: 11/16/2011 (11K2245-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	404	50	ug/l	500		81	55-130			
Surrogate: Dibromofluoromethane	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.7*		*ug/l*	*25.0*		*91*	*80-120*			
Matrix Spike Analyzed: 11/17/2011 (11K2245-MS1)					**Source: IUK1027-02**					
Volatile Fuel Hydrocarbons (C4-C12)	1300	50	ug/l	1720	ND	75	50-145			
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.2*		*ug/l*	*25.0*		*93*	*80-120*			
Matrix Spike Dup Analyzed: 11/17/2011 (11K2245-MSD1)					**Source: IUK1027-02**					
Volatile Fuel Hydrocarbons (C4-C12)	1270	50	ug/l	1720	ND	74	50-145	2	20	
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*23.9*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.7*		*ug/l*	*25.0*		*91*	*80-120*			

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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: 11K2228 Extracted: 11/16/11										
Blank Analyzed: 11/16/2011 (11K2228-BLK1)										
Benzene	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	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Dibromofluoromethane	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			
LCS Analyzed: 11/16/2011 (11K2228-BS1)										
Benzene	23.8	0.50	ug/l	25.0		95	70-120			
Ethylbenzene	25.1	0.50	ug/l	25.0		100	75-125			
Toluene	24.7	0.50	ug/l	25.0		99	70-120			
m,p-Xylenes	51.3	1.0	ug/l	50.0		103	75-125			
o-Xylene	25.1	0.50	ug/l	25.0		100	75-125			
Xylenes, Total	76.4	1.0	ug/l	75.0		102	70-125			
Di-isopropyl Ether (DIPE)	21.9	1.0	ug/l	25.0		87	60-135			
Ethyl tert-Butyl Ether (ETBE)	21.1	1.0	ug/l	25.0		84	65-135			
Methyl-tert-butyl Ether (MTBE)	20.5	1.0	ug/l	25.0		82	60-135			
tert-Amyl Methyl Ether (TAME)	21.2	1.0	ug/l	25.0		85	60-135			
tert-Butanol (TBA)	137	10	ug/l	125		109	70-135			
Surrogate: 4-Bromofluorobenzene	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Dibromofluoromethane	*24.9*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			

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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: 11K2228 Extracted: 11/16/11										
Matrix Spike Analyzed: 11/16/2011 (11K2228-MS1)					**Source: IUK0967-13**					
Benzene	27.0	0.50	ug/l	25.0	ND	108	65-125			
Ethylbenzene	27.8	0.50	ug/l	25.0	ND	111	65-130			
Toluene	27.6	0.50	ug/l	25.0	ND	111	70-125			
m,p-Xylenes	56.6	1.0	ug/l	50.0	ND	113	65-130			
o-Xylene	28.4	0.50	ug/l	25.0	ND	114	65-125			
Xylenes, Total	85.0	1.0	ug/l	75.0	ND	113	60-130			
Di-isopropyl Ether (DIPE)	26.4	1.0	ug/l	25.0	ND	106	60-140			
Ethyl tert-Butyl Ether (ETBE)	25.3	1.0	ug/l	25.0	ND	101	60-135			
Methyl-tert-butyl Ether (MTBE)	26.5	1.0	ug/l	25.0	1.98	98	55-145			
tert-Amyl Methyl Ether (TAME)	25.6	1.0	ug/l	25.0	ND	102	60-140			
tert-Butanol (TBA)	160	10	ug/l	125	ND	128	65-140			
Surrogate: 4-Bromofluorobenzene	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Dibromofluoromethane	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Matrix Spike Dup Analyzed: 11/16/2011 (11K2228-MSD1)					**Source: IUK0967-13**					
Benzene	26.6	0.50	ug/l	25.0	ND	106	65-125	2	20	
Ethylbenzene	27.6	0.50	ug/l	25.0	ND	110	65-130	0.5	20	
Toluene	27.8	0.50	ug/l	25.0	ND	111	70-125	0.6	20	
m,p-Xylenes	56.2	1.0	ug/l	50.0	ND	112	65-130	0.7	25	
o-Xylene	28.2	0.50	ug/l	25.0	ND	113	65-125	0.6	20	
Xylenes, Total	84.5	1.0	ug/l	75.0	ND	113	60-130	0.6	20	
Di-isopropyl Ether (DIPE)	26.4	1.0	ug/l	25.0	ND	106	60-140	0.04	25	
Ethyl tert-Butyl Ether (ETBE)	25.5	1.0	ug/l	25.0	ND	102	60-135	0.9	25	
Methyl-tert-butyl Ether (MTBE)	26.2	1.0	ug/l	25.0	1.98	97	55-145	1	25	
tert-Amyl Methyl Ether (TAME)	25.6	1.0	ug/l	25.0	ND	102	60-140	0.08	30	
tert-Butanol (TBA)	160	10	ug/l	125	ND	128	65-140	0.3	25	
Surrogate: 4-Bromofluorobenzene	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Dibromofluoromethane	*25.6*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*103*	*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: 11K2245 Extracted: 11/16/11										
Blank Analyzed: 11/16/2011 (11K2245-BLK1)										
Benzene	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	*22.2*		*ug/l*	*25.0*		*89*	*80-120*			
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*23.6*		*ug/l*	*25.0*		*94*	*80-120*			
LCS Analyzed: 11/16/2011 (11K2245-BS1)										
Benzene	20.7	0.50	ug/l	25.0		83	70-120			
Ethylbenzene	25.2	0.50	ug/l	25.0		101	75-125			
Toluene	20.9	0.50	ug/l	25.0		84	70-120			
m,p-Xylenes	51.4	1.0	ug/l	50.0		103	75-125			
o-Xylene	26.4	0.50	ug/l	25.0		106	75-125			
Xylenes, Total	77.9	1.0	ug/l	75.0		104	70-125			
Di-isopropyl Ether (DIPE)	20.1	1.0	ug/l	25.0		81	60-135			
Ethyl tert-Butyl Ether (ETBE)	21.2	1.0	ug/l	25.0		85	65-135			
Methyl-tert-butyl Ether (MTBE)	21.0	1.0	ug/l	25.0		84	60-135			
tert-Amyl Methyl Ether (TAME)	21.7	1.0	ug/l	25.0		87	60-135			
tert-Butanol (TBA)	153	10	ug/l	125		122	70-135			
Surrogate: 4-Bromofluorobenzene	*23.2*		*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*23.6*		*ug/l*	*25.0*		*95*	*80-120*			

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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: 11K2245 Extracted: 11/16/11										
Matrix Spike Analyzed: 11/17/2011 (11K2245-MS1)					**Source: IUK1027-02**					
Benzene	21.3	0.50	ug/l	25.0	ND	85	65-125			
Ethylbenzene	24.7	0.50	ug/l	25.0	ND	99	65-130			
Toluene	21.7	0.50	ug/l	25.0	ND	87	70-125			
m,p-Xylenes	51.3	1.0	ug/l	50.0	ND	103	65-130			
o-Xylene	26.5	0.50	ug/l	25.0	ND	106	65-125			
Xylenes, Total	77.8	1.0	ug/l	75.0	ND	104	60-130			
Di-isopropyl Ether (DIPE)	20.4	1.0	ug/l	25.0	ND	82	60-140			
Ethyl tert-Butyl Ether (ETBE)	21.1	1.0	ug/l	25.0	ND	84	60-135			
Methyl-tert-butyl Ether (MTBE)	27.1	1.0	ug/l	25.0	6.06	84	55-145			
tert-Amyl Methyl Ether (TAME)	21.9	1.0	ug/l	25.0	ND	87	60-140			
tert-Butanol (TBA)	153	10	ug/l	125	ND	123	65-140			
Surrogate: 4-Bromofluorobenzene	*23.2*		*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Matrix Spike Dup Analyzed: 11/17/2011 (11K2245-MSD1)					**Source: IUK1027-02**					
Benzene	21.6	0.50	ug/l	25.0	ND	87	65-125	2	20	
Ethylbenzene	24.8	0.50	ug/l	25.0	ND	99	65-130	0.4	20	
Toluene	21.7	0.50	ug/l	25.0	ND	87	70-125	0.05	20	
m,p-Xylenes	51.0	1.0	ug/l	50.0	ND	102	65-130	0.6	25	
o-Xylene	26.3	0.50	ug/l	25.0	ND	105	65-125	0.5	20	
Xylenes, Total	77.4	1.0	ug/l	75.0	ND	103	60-130	0.6	20	
Di-isopropyl Ether (DIPE)	20.4	1.0	ug/l	25.0	ND	82	60-140	0.1	25	
Ethyl tert-Butyl Ether (ETBE)	21.3	1.0	ug/l	25.0	ND	85	60-135	0.9	25	
Methyl-tert-butyl Ether (MTBE)	26.7	1.0	ug/l	25.0	6.06	83	55-145	1	25	
tert-Amyl Methyl Ether (TAME)	21.8	1.0	ug/l	25.0	ND	87	60-140	0.4	30	
tert-Butanol (TBA)	155	10	ug/l	125	ND	124	65-140	0.8	25	
Surrogate: 4-Bromofluorobenzene	*22.7*		*ug/l*	*25.0*		*91*	*80-120*			
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*23.9*		*ug/l*	*25.0*		*96*	*80-120*			

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Received: 11/08/11

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: 11K2664 Extracted: 11/18/11										
Blank Analyzed: 11/18/2011 (11K2664-BLK1)										
tert-Butanol (TBA)	ND	10	ug/l							
Surrogate: 4-Bromofluorobenzene	*21.5*		*ug/l*	*25.0*		*86*	*80-120*			
Surrogate: Dibromofluoromethane	*23.6*		*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Toluene-d8	*23.4*		*ug/l*	*25.0*		*94*	*80-120*			
LCS Analyzed: 11/18/2011 (11K2664-BS1)										
tert-Butanol (TBA)	135	10	ug/l	125		108	70-135			
Surrogate: 4-Bromofluorobenzene	*23.2*		*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Dibromofluoromethane	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*22.7*		*ug/l*	*25.0*		*91*	*80-120*			
Matrix Spike Analyzed: 11/18/2011 (11K2664-MS1)					**Source: IUK1864-03**					
tert-Butanol (TBA)	163	10	ug/l	125	ND	130	65-140			
Surrogate: 4-Bromofluorobenzene	*22.7*		*ug/l*	*25.0*		*91*	*80-120*			
Surrogate: Dibromofluoromethane	*26.6*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Toluene-d8	*23.4*		*ug/l*	*25.0*		*94*	*80-120*			
Matrix Spike Dup Analyzed: 11/18/2011 (11K2664-MSD1)					**Source: IUK1864-03**					
tert-Butanol (TBA)	162	10	ug/l	125	ND	129	65-140	0.9	25	
Surrogate: 4-Bromofluorobenzene	*22.5*		*ug/l*	*25.0*		*90*	*80-120*			
Surrogate: Dibromofluoromethane	*25.4*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			

TestAmerica Irvine

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

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

Project ID: 4212 First St., Pleasanton, CA

Report Number: IUK0973

Sampled: 11/04/11
Received: 11/08/11

DATA QUALIFIERS AND DEFINITIONS

QP1 Hydrocarbon result partly due to individual peak(s) in quantitation range.

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.

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Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
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

Philip Sanelle
Project Manager

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: 135782 Peter Schaefer
PO #: 4 0 - 4 0 3 4 9 7 3
INCIDENT # (ENV SERVICES): 9 8 9 9 5 8 4 0
SAP #:
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 11/4/11
PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS: Street and City: 4212 First St., Pleasanton	State: CA	GLOBAL ID NO.: T0600101269
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.: 111104-BP1
PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King		SAMPLER NAME(S) (Print): Ben Panell	LAB USE ONLY: IVC0973
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://cralabedduploa.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 esyrstad@CRAWorld.com

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

☑ 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

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)	TEMPERATURE ON RECEIPT	Container PID Readings or Laboratory Notes
WG	111104-BP1	110411	BP	MW-1	1100	WG	X					3	X					X							2.5C	
WG	111104-BP1	110411	BP	MW-1B	0910	WG	X					3	X					X								
WG	111104-BP1	110411	BP	MW-2	1125	WG	X					3	X					X								
WG	111104-BP1	110411	BP	MW-3	1137	WG	X					3	X					X								
WG	111104-BP1	110411	BP	MW-4	1150	WG	X					3	X					X								TW 11/8/11 12:17

Relinquished by: (Signature)	Received by: (Signature) (sample custodian)	Date: 11-4-11	Time: 1300
Relinquished by: (Signature)	Received by: (Signature)	Date: 11/7/11	Time: 1050
Relinquished by: (Signature) 11-7-11 18:30	Received by: (Signature)	Date: 11/09/11	Time: 10:00

(5)