CONESTOGA-ROVERS & ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: July 5, 2011

REFERENCE NO.: 240554

PROJECT NAME: 3420 San Pablo Avenue, Oakland

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

RECEIVED
8:59 am, Jul 07, 2011
Alameda County
Environmental Health

Please find enclosed:
- ☐ Draft
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- ☐ Prints
- ☒ Final
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QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report – Second 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)
Shahriar Almasi, Portola Valley Shell, 965 Laurel Glen Drive, Palo Alto, CA 94304
Mike Bowery, Thrifty Oil Company, 13116 Imperial Highway, Santa Fe Springs, CA 90670

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: Former Shell Service Station
3420 San Pablo Avenue
Oakland, California
SAP Code 139619
Incident No. 98995748
ACEH Case No. RO0000006

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 - SECOND QUARTER 2011

FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE
OAKLAND, CALIFORNIA

SAP CODE 139619
INCIDENT NO. 98995748
AGENCY NO. RO0000006

Prepared by:
Conestoga-Rovers & Associates

5900 Hollis Street, Suite A
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U.S.A. 94608

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JULY 5, 2011
REF. NO. 240554 (8)
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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	3420 San Pablo Avenue, Oakland
Site Use	Active Third-Party Station
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0000006
Shell SAP Code	139619
Shell Incident No.	98995748

Date of most recent agency correspondence was July 24, 2009.

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. Formerly, Blaine coordinated groundwater sampling with the adjacent former Thrifty Oil service station No. 049 located at 3400 San Pablo Avenue, Oakland. The former Thrifty Oil service station has suspended groundwater monitoring pending environmental case closure by Alameda County Environmental Health, so coordinated groundwater sampling has also been suspended.

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.

During the fourth quarter of 2010, Blaine measured up to 0.16 feet of separate-phase hydrocarbons (SPHs) in well MW-6R. As recommended in CRA's February 7, 2011 *Groundwater Monitoring Report – Fourth Quarter 2010*, Blaine installed an SPH-absorbent canister in MW-6R on February 10, 2011. No SPHs were measured in MW-6R on February 10 or during the April 20, 2011 sampling event; however, a light SPH sheen was noted in MW-6R during the April 20 sampling event. Approximately 0.2 pounds of SPHs (weight of the canister upon removal minus the dry weight of the canister) were removed from MW-6R during this period. An SPH removal summary is provided below.

SPH REMOVAL SUMMARY	
This Period (pounds)	***Cumulative Removal (pounds)***
0.2	24.6

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Southerly
Hydraulic Gradient	Variable
Depth to Water	3.19 to 6.70 feet below top of well casing

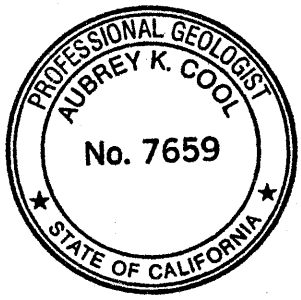
2.3 PROPOSED ACTIVITIES

Blaine will gauge and sample wells according to the established monitoring program for this site. This site is monitored semiannually during the second and fourth quarters, and CRA will issue groundwater monitoring reports semiannually following the sampling events. In addition, Blaine will replace the SPH-absorbent canister in well MW-6R quarterly. If no SPHs are measured for four consecutive quarters, the SPH-absorbent canister will be removed.

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

Peter Schaefer, CHG, CEG

Aubrey K. Cool, PG



FIGURES

12/02/08

I:\Shell\6-chars\2405--\240554-Oakland 3420 San Pablo\240554-FIGURES\240554 VICINITY.AI

FIGURE
1

0 1/8 1/4 1/2 1

SCALE (MILES)

Former Shell Service Station
3420 San Pablo Avenue
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

06/30/2011

Groundwater Contour and Chemical Concentration Map

April 20, 2011

EXPLANATION

- MW-1 — Monitoring well location (Shell)
- MW-3 — Destroyed monitoring well location
- MW-1 — Monitoring well location (Thrifty)
- RW-1R — Recovery well location (Thrifty)
- Storm drain line (STM)
- Sanitary Sewer line (SAN)
- Water line (W)
- Overhead electrical line (OHE)
- Storm drain catch basin
- Fire hydrant (FH)
- Flow direction indicator
- Miscellaneous utility vault, as labeled
- XX.XX — Groundwater elevation contour, in feet above mean sea level (msl)

Well designation
Well
ELEV.
Benzene
MTBE
Groundwater elevation, in feet above msl
Benzene and MTBE concentrations are in micrograms per liter

Notes:
ND = Not detected
NDa = Elevated reporting limit; see laboratory report for details
*** =** Screen submerged, well not used in contouring

MW-11 27.83 ND 1.3
MW-9 27.08 ND 1.3
MW-6R 26.53 810 92
MW-2 27.08 1,400 82
MW-8
MW-7 28.12* NDa NDa
MW-1 28.11* 3.1 3.1
MW-5 27.82* ND 9.6
MW-3R 26.89 ND ND
MW-4 25.18 ND 31
MW-10 24.05 ND ND

MW-6
MW-3
MW-5
MW-7
MW-1
RW-1
RW-1R
MW-2R
MW-2
MW-4
MW-4R

27.25
26.00
24.75

Apartments/Residential
INTERSTATE 580
35th STREET
Station Building
550 gal. W/O UST (removed 6/26/97)
Former Building
Former Dispenser Island
Former Product Line
USTs
Former Shell Station
3420 San Pablo Ave.
Dispensers
Former Dispensers
Planter
Former Thrifty #049
(Current Arco Station)
3400 San Pablo Ave.
Existing USTs
Dispenser Islands
Trash
Recovery System Controls
Recovery System Piping
Office
Former USTs (rounded)
34th STREET
PP
FH
E vault
PGE MH
Median
SAN PABLO AVENUE
LINDEN STREET

0 20 40 80
Scale (ft)

FIGURE
2

Former Shell Service Station
3420 San Pablo Avenue
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

I:\Shell\6-chars\2405--\2405554-Oakland 3420 San Pablo\2405554-REPORTS\2405554-RPT8-2Q11\2405554 2QM11-GW.DWG

TABLES

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-1	08/06/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	21.28	10.86	---	10.43
MW-1	10/23/1991	32,000	2,700	360	550	3,700	---	---	---	---	---	---	---	---	21.28	11.05	0.01	10.24
MW-1	01/28/1992	14,000	1,000	106	450	1,600	---	---	---	---	---	---	---	---	21.28	10.84	---	10.44
MW-1	05/05/1992	98,000	11,000	1,200	3,500	18,000	---	---	---	---	---	---	---	---	21.28	9.42	<0.01	11.86
MW-1	07/13/1992	11,000	1,100	130	740	1,300	---	---	---	---	---	---	---	---	21.28	11.36	---	9.92
MW-1	10/12/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	21.28	13.14	0.09	8.21
MW-1	01/12/1993	---	110	---	---	---	---	---	---	---	---	---	---	---	21.28	7.52	0.02	13.78
MW-1	04/06/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	21.28	7.13	<0.01	14.16
MW-1	07/12/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	21.28	11.02	0.01	10.27
MW-1	10/13/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	21.28	12.18	0.01	9.11
MW-1	01/20/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	21.28	9.18	0.01	12.10
MW-1	04/13/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	21.28	8.72	0.02	12.58
MW-1	07/19/1994	17,000	420	140	530	1,300	---	---	---	---	---	---	---	---	21.28	8.76	---	12.52
MW-1	10/27/1994	23,000	1,200	130	990	960	---	---	---	---	---	---	---	---	21.28	10.49	---	10.79
MW-1	01/03/1995	31,000	610	160	1,200	5,000	---	---	---	---	---	---	---	---	21.28	6.15	---	15.13
MW-1	04/13/1995	20,000	340	42	680	2,900	---	---	---	---	---	---	---	---	21.28	5.24	---	16.04
MW-1	06/30/1995	16,000	450	62	460	1,200	---	---	---	---	---	---	---	---	21.28	7.24	---	14.04
MW-1	10/11/1995	8,400	660	47	510	850	8,000	---	---	---	---	---	---	---	21.28	9.48	---	11.80
MW-1	10/13/1995	7.400	730	54	490	1,100	8,200	---	---	---	---	---	---	---	21.28	---	---	---
MW-1	01/17/1996	24,000	570	110	820	2,900	15,000	---	---	---	---	---	---	---	21.28	6.48	---	14.80
MW-1	04/10/1996	20,000	120	11	420	1,400	15,000	---	---	---	---	---	---	---	21.28	5.38	---	15.90
MW-1	07/30/1996	7,900	240	22	170	300	12,000	---	---	---	---	---	---	---	21.28	7.61	---	13.67
MW-1	10/17/1996	6,600	1,000	20	120	130	10,000	---	---	---	---	---	---	1.4	21.28	8.66	---	12.62
MW-1	01/22/1997	13,000	170	<50	330	1,200	18,000	---	---	---	---	---	---	1.6	21.28	5.00	---	16.28
MW-1	04/01/1997	7,900	240	26	130	200	6,400	---	---	---	---	---	---	1.4	21.28	6.42	---	14.86
MW-1	07/14/1997	5,000	<20	<20	59	61	9,000	---	---	---	---	---	---	1.9	21.28	8.92	---	12.36
MW-1	10/08/1997	3,200	180	7.6	18	6.1	11,000	---	---	---	---	---	---	4.8	21.28	9.43	---	11.85
MW-1	01/19/1998	8,100	39	<20	280	660	1,100	---	---	---	---	---	---	2.6	21.28	1.20	---	20.08
MW-1	04/28/1998	2,900	62	<10	160	370	1,200	1,200	---	---	---	---	---	2.4	21.28	4.81	---	16.47
MW-1	09/30/1998	1,300	25	8.3	<5.0	12	2,000	---	---	---	---	---	---	1.6	21.05	9.90	---	11.15
MW-1	12/09/1998	21,000	240	<200	520	920	18,000	18,000	---	---	---	---	---	4.3	21.05	12.26	---	8.79
MW-1	01/18/1999	10,600	<100	<100	471	130	48,600	50,800	---	---	---	---	---	1.3	21.05	6.00	---	15.05
MW-1	04/12/1999	7,500	101	26.0	248	578	31,000	37,900	---	---	---	---	---	1.2	21.05	4.00	---	17.05
MW-1	07/27/1999	5,420	80.1	<50.0	123	143	24,700	33,200*	---	---	---	---	---	1.3	21.05	6.18	---	14.87
MW-1	10/14/1999	3,750	75.8	<12.5	30.3	37.0	17,200	20,600	---	---	---	---	---	1.3	21.05	6.83	---	14.22
MW-1	01/06/2000	5,550	82.2	<5.00	128	45.4	9,410	8,200	---	---	---	---	---	1.3	21.05	6.36	---	14.69
MW-1	04/05/2000	2,860	50.6	<10.0	98.2	36.2	4,120	3,150*	---	---	---	---	---	2.0	21.05	3.65	---	17.40

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-1	07/20/2000	3,600	37.9	36.0	34.2	40.4	3,140	3,430*	---	---	---	---	---	1.2	21.05	4.11	---	16.94
MW-1	10/24/2000	2,330	32.3	<10.0	10.5	27.1	4,900	4,500	---	---	---	---	---	1.4	21.05	5.18	---	15.87
MW-1	01/19/2001	2,000	25.9	24.9	12.5	29.7	2,610	3,070	---	---	---	---	---	1.8	32.01	3.90	---	28.11
MW-1	04/27/2001	2,200	14	<2.0	5.3	6.8	---	1,100	---	---	---	---	---	1.5	32.01	4.48	---	27.53
MW-1	07/26/2001	2,600	26	2.3	<2.0	5.4	---	890	---	---	---	---	---	1.2	32.01	6.28	---	25.73
MW-1	10/02/2001	1,900	54	<2.0	7.8	14	---	890	450	<2.0	<2.0	<2.0	<500	1.6	32.01	6.53	---	25.48
MW-1	01/15/2002	2,300	19	2.8	9.3	12	---	370	---	---	---	---	---	1.9	32.01	5.00	---	27.01
MW-1	04/17/2002	4,500	20	2.0	1.3	4.6	---	500	---	---	---	---	---	2.4	32.01	5.63	---	26.38
MW-1	07/11/2002	2,700	25	1.1	<1.0	2.1	---	500	---	---	---	---	---	1.5	32.01	6.10	---	25.91
MW-1	10/10/2002	2,200	20	1.0	1.8	3.5	---	580	---	---	---	---	---	2.5	32.01	6.68	---	25.33
MW-1	01/21/2003	3,100	27	12	30	14	---	810	---	---	---	---	---	1.7	32.01	4.35	---	27.66
MW-1	05/02/2003	4,100	36	<25	<25	<50	---	1,000	---	---	---	---	---	2.1	32.01	5.19	---	26.82
MW-1	07/10/2003	1,900	37	<12	<12	<25	---	600	---	---	---	---	---	---	32.01	5.61	---	26.40
MW-1	10/28/2003	4,300	97	<10	10	<20	---	1,800	---	---	---	---	---	---	32.01	5.78	---	26.23
MW-1	01/13/2004	3,000	53	10	29	<10	---	510	---	---	---	---	---	---	32.01	4.95	---	27.06
MW-1	04/01/2004	3,000	85	29	11	15	---	310	---	---	---	---	---	---	32.01	5.05	---	26.96
MW-1	07/21/2004	3,200	130	19	7.7	18	---	410	1,100	<20	<20	<20	---	---	32.01	5.90	---	26.11
MW-1	10/20/2004	3,600	200	8.4	12	21	---	320	---	---	---	---	---	---	32.01	5.63	---	26.38
MW-1	01/19/2005	2,800	55	<5.0	21	17	---	170	---	---	---	---	---	---	32.01	4.64	---	27.37
MW-1	04/20/2005	2,600	28	<5.0	11	<10	---	140	---	---	---	---	---	---	32.01	3.75	---	28.26
MW-1	07/20/2005	2,000	20	<1.0	1.6	2.3	---	110	220	<4.0	<4.0	<4.0	---	---	32.01	6.19	---	25.82
MW-1	10/19/2005	2,200	21	0.80	2.1	1.9	---	80	---	---	---	---	---	---	32.01	7.20	---	24.81
MW-1	01/24/2006	7,000	35.5	2.24	119	17.1	---	80.2	---	---	---	---	---	---	32.01	4.04	---	27.97
MW-1	04/19/2006	2,030	10.3	1.04	2.44	<0.500	---	27.2	---	---	---	---	---	---	32.01	2.74	---	29.27
MW-1	07/19/2006	4,310	18.1	<0.500	1.48	<0.500	---	34.8	<10.0	<0.500	<0.500	<0.500	---	---	32.01	4.74	---	27.27
MW-1	10/18/2006	4,370	15.0	0.520	4.73	2.06	---	49.1	---	---	---	---	---	---	32.01	6.03	---	25.98
MW-1	01/17/2007	410	<0.50	<0.50	<0.50	<1.0	---	24	---	---	---	---	---	---	32.01	5.40	---	26.61
MW-1	04/18/2007	1,400 h	9.2	0.35 i	0.94 i	0.92 i	---	37	---	---	---	---	---	---	32.01	6.13	---	25.88
MW-1	07/18/2007	1,100 h	25	0.34 i	3.4	<1.0	---	72	63	<2.0	<2.0	<2.0	---	---	32.01	7.13	---	24.88
MW-1	10/18/2007	1,300 h	70	0.85 i	14	1.08 i	---	160	---	---	---	---	---	---	32.01	7.13	---	24.88
MW-1	01/16/2008	4,000 h	22	<1.0	14	3.5	---	33	---	---	---	---	---	---	32.01	5.02	---	26.99
MW-1	04/16/2008	1,800	12	<1.0	1.5	1.5	---	39	---	---	---	---	---	---	32.01	6.26	---	25.75
MW-1	07/16/2008	1,600	5.3	<1.0	<1.0	<1.0	---	32	27	<2.0	<2.0	<2.0	---	---	32.01	6.60	---	25.41
MW-1	10/15/2008	1,200	4.1	<1.0	<1.0	<1.0	---	20	---	---	---	---	---	---	32.01	6.85	---	25.16
MW-1	01/21/2009	1,300	6.7	<1.0	<1.0	<1.0	---	28	---	---	---	---	---	---	32.01	6.20	---	25.81
MW-1	04/15/2009	1,600	4.1	1.2	1.5	<1.0	---	5.2	---	---	---	---	---	---	32.01	4.90	---	27.11
MW-1	10/21/2009	5,300	54	2.2	89	3.6	---	35	20	<2.0	<2.0	<2.0	---	---	32.01	5.51	---	26.50

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-1	04/21/2010	1,900	4.3	<1.0	<1.0	<1.0	---	3.6	---	---	---	---	---	---	32.01	4.93	---	27.08
MW-1	10/20/2010	1,400	18	<1.0	1.4	<1.0	---	32	---	---	---	---	---	---	32.01	7.39	---	24.62
MW-1	**04/20/2011**	**1,100**	**3.1**	**<0.50**	**1.1**	**<1.0**	**---**	**3.1**	**---**	**---**	**---**	**---**	**---**	**---**	**32.01**	**3.90**	**---**	**28.11**
MW-2	08/06/1991	50,000	15,000	---	2,700	13,000	---	---	---	---	---	---	---	---	21.56	9.72	---	11.84
MW-2	10/23/1991	120,000	11,000	1,400	3,500	19,000	---	---	---	---	---	---	---	---	21.56	10.03	---	11.53
MW-2	01/28/1992	49,000	7,400	800	1,800	8,300	---	---	---	---	---	---	---	---	21.56	8.78	---	12.78
MW-2	05/05/1992	52,000	12,000	1,100	2,200	12,000	---	---	---	---	---	---	---	---	21.56	7.58	---	13.98
MW-2	07/13/1992	47,000	15,000	2,400	4,500	16,000	---	---	---	---	---	---	---	---	21.56	9.63	---	11.93
MW-2	10/12/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	21.56	11.66	0.03	9.92
MW-2	01/12/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	21.56	7.13	0.01	14.44
MW-2	04/06/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	21.56	6.40	<0.01	15.17
MW-2	07/12/1993	59,000	12,000	950	2,400	11,000	---	---	---	---	---	---	---	---	21.56	8.75	---	12.81
MW-2	10/13/1993	54,000	14,000	1,200	3,700	22,000	---	---	---	---	---	---	---	---	21.56	10.28	---	11.28
MW-2	01/20/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	21.56	---	---	---
MW-2	04/13/1994	79,000	9,400	740	2,100	12,000	---	---	---	---	---	---	---	---	21.56	7.35	<0.01	14.22
MW-2	07/19/1994	63,000	13,000	810	1,900	13,000	---	---	---	---	---	---	---	---	21.56	8.24	---	13.32
MW-2	10/27/1994	64,000	8,800	480	2,100	10,000	---	---	---	---	---	---	---	---	21.56	10.26	---	13.32
MW-2	01/03/1995	67,000	9,800	720	2,800	11,000	---	---	---	---	---	---	---	---	21.56	6.44	---	15.12
MW-2	04/13/1995	83,000	10,000	490	2,600	13,000	---	---	---	---	---	---	---	---	21.56	5.89	---	15.67
MW-2	06/30/1995	65,000	12,000	1,800	2,400	12,000	---	---	---	---	---	---	---	---	21.56	7.41	---	14.15
MW-2	10/11/1995	68,000	8,800	840	3,000	13,000	1,400	---	---	---	---	---	---	---	21.56	8.02	---	13.54
MW-2	01/17/1996	79,000	12,000	640	2,700	14,000	2,200	---	---	---	---	---	---	---	21.56	7.42	---	14.14
MW-2	04/10/1996	84,000	7,200	310	1,700	7,800	2,900	---	---	---	---	---	---	---	21.56	6.91	---	14.65
MW-2	07/30/1996	26,000	6,800	210	1,300	5,500	4,500	---	---	---	---	---	---	---	21.56	7.63	---	13.93
MW-2	10/17/1996	46,000	9,800	340	2,000	6,500	4,900	---	---	---	---	---	---	1.8	21.56	8.27	---	13.29
MW-2	01/22/1997	52,000	6,200	220	1,400	6,600	3,000	---	---	---	---	---	---	1.9	21.56	7.09	---	14.47
MW-2	04/01/1997	69,000	6,000	380	2,400	11,000	3,800	---	---	---	---	---	---	2.0	21.56	6.91	---	14.65
MW-2	07/14/1997	53,000	7,700	260	1,600	5,200	2,400	---	---	---	---	---	---	1.2	21.56	9.93	---	11.63
MW-2	10/08/1997	56,000	8,500	320	1,600	5,100	4,200	---	---	---	---	---	---	2.1	21.56	10.43	---	11.13
MW-2	01/19/1998	64,000	10,000	230	2,400	12,000	2,700	---	---	---	---	---	---	2.4	21.56	3.60	---	17.96
MW-2	04/28/1998	45,000	9,800	310	2,700	11,000	2,400	2,000	---	---	---	---	---	2	21.56	4.81	---	15.71
MW-2	09/30/1998	42,000	7,400	200	2,600	9,800	1,800	---	---	---	---	---	---	1.6	21.58	7.20	---	14.38
MW-2	12/09/1998	60,000	7,000	270	1,600	7,000	2,100	---	---	---	---	---	---	4.6	21.58	7.11	---	14.47
MW-2	01/18/1999	45,000	7,960	151	1,750	6,410	1,310	---	---	---	---	---	---	1.8	21.58	6.83	---	14.75
MW-2	04/12/1999	47,400	7,680	131	1,840	6,400	<1,000	---	---	---	---	---	---	1.9	21.58	5.90	---	15.68
MW-2	07/27/1999	36,400	6,750	83.5	1,590	5,070	682	---	---	---	---	---	---	2.0	21.58	6.56	---	15.02

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-2	10/14/1999	45,300	6,990	144	1,850	4,930	1,070	---	---	---	---	---	---	1.5	21.58	8.90	---	12.68
MW-2	01/06/2000	44,100	5,820	107	1,720	4,590	841	---	---	---	---	---	---	1.4	21.58	7.27	---	14.31
MW-2	04/05/2000	32,000	6,680	<100	1,770	4,030	934	---	---	---	---	---	---	1.3	21.58	5.32	---	16.26
MW-2	07/20/2000	32,100	5,290	68.6	1,870	3,810	254	---	---	---	---	---	---	2.9	21.58	5.47	---	16.11
MW-2	10/24/2000	24,400	4,680	<50.0	1,460	2,380	682	---	---	---	---	---	---	2.2	21.58	5.88	---	15.70
MW-2	01/19/2001	29,200	4,980	127	2,820	4,320	<500	---	---	---	---	---	---	1.4	32.54	5.96	---	26.58
MW-2	04/27/2001	40,000	5,400	67	2,800	5,100	---	380	---	---	---	---	---	1.1	32.54	5.87	---	26.67
MW-2	07/26/2001	42,000	4,700	59	2,800	4,300	---	<250	---	---	---	---	---	1.0	32.54	6.48	---	26.06
MW-2	10/02/2001	36,000	4,200	64	2,400	2,700	---	<200	---	---	---	---	---	1.6	32.54	6.65	---	25.89
MW-2	01/15/2002	39,000	4,100	46	2,200	2,300	---	280	---	---	---	---	---	1.8	32.54	5.81	---	26.73
MW-2	04/17/2002	30,000	3,800	44	2,100	2,100	---	270	---	---	---	---	---	1.6	32.54	6.03	---	26.51
MW-2	07/11/2002	34,000	3,600	18	2,700	2,200	---	110	---	---	---	---	---	2.7	32.54	6.49	---	26.05
MW-2	10/10/2002	26,000	2,600	19	1,900	810	---	<100	---	---	---	---	---	2.4	32.54	6.82	---	25.72
MW-2	01/21/2003	30,000	3,000	24	2,000	1,400	---	140	---	---	---	---	---	1.6	32.54	6.00	---	26.54
MW-2	05/02/2003	23,000	2,800	28	1,400	880	---	<250	---	---	---	---	---	1.7	32.54	5.85	---	26.69
MW-2	07/10/2003	20,000	3,800	<50	2,500	1,500	---	180	---	---	---	---	---	---	32.54	6.16	---	26.38
MW-2	10/28/2003	35,000	5,400	59	2,800	1,400	---	140	---	---	---	---	---	---	32.54	6.30	---	26.24
MW-2	01/13/2004	39,000	6,400	55	3,000	1,400	---	240	---	---	---	---	---	---	32.54	5.93	---	26.61
MW-2	04/01/2004	29,000	4,200	<50	2,300	1,000	---	140	---	---	---	---	---	---	32.54	5.99	---	26.55
MW-2	07/21/2004	43,000	3,900	<50	2,700	860	---	93	<500	<200	<200	<200	---	---	32.54	6.05	---	26.49
MW-2	10/20/2004	33,000	5,100	<50	2,800	950	---	97	---	---	---	---	---	---	32.54	6.10	---	26.44
MW-2	01/19/2005	27,000	3,400	<50	2,000	580	---	120	---	---	---	---	---	---	32.54	5.41	---	27.13
MW-2	04/20/2005	37,000	3,400	<50	1,900	580	---	110	---	---	---	---	---	---	32.54	5.86	---	26.68
MW-2	07/20/2005	33,000	3,900	<50	2,300	590	---	86	<500	<200	<200	<200	---	---	32.54	8.39	---	24.15
MW-2	10/19/2005	12,000	2,100	15	1,500	430	---	80	---	---	---	---	---	---	32.54	7.96	---	24.58
MW-2	01/24/2006	44,600	3,260	20.3	2,220	458	---	107	---	---	---	---	---	---	32.54	4.54	---	28.00
MW-2	04/19/2006	<2,500	2,520	13.2	1,610	343	---	104	---	---	---	---	---	---	32.54	4.63	---	27.91
MW-2	07/19/2006	41,900	2,460	10.9	1,670	322	---	78.2	<10.0	<0.500	<0.500	<0.500	---	---	32.54	5.48	---	27.06
MW-2	10/18/2006	49,400	2,490	11.0	2,130	320	---	47.6	---	---	---	---	---	---	32.54	6.50	---	26.04
MW-2	01/17/2007	16,000	2,200	12	1,600	260	---	56	---	---	---	---	---	---	32.54	6.19	---	26.35
MW-2	04/18/2007	22,000 h	2,100	14 i	1,700	289	---	100	---	---	---	---	---	---	32.54	6.70	---	25.84
MW-2	07/18/2007	19,000 h	2,100	12 i	2,000	267	---	61	<200	<40	<40	<40	---	---	32.54	7.60	---	24.94
MW-2	10/18/2007	24,000 h	2,400	17 i	2,200	253	---	150	---	---	---	---	---	---	32.54	8.55	---	23.99
MW-2	01/16/2008	26,000 h	2,400	<20	1,600	200	---	130	---	---	---	---	---	---	32.54	6.08	---	26.46
MW-2	04/16/2008	20,000	2,100	<20	1,400	180	---	200	---	---	---	---	---	---	32.54	6.80	---	25.74
MW-2	07/16/2008	23,000	1,600	<20	84	170	---	<20	<200	<40	<40	<40	---	---	32.54	6.71	---	25.83
MW-2	10/15/2008	17,000	1,300	<20	820	98	---	49	---	---	---	---	---	---	32.54	7.60	---	24.94

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	*Ethanol* (µg/L)	*DO Reading* (ppm)	*TOC* (ft MSL)	*Depth to Water* (ft TOC)	*SPH Thickness* (ft)	*GW Elevation* (ft MSL)
MW-2	01/21/2009	26,000	2,000	<20	1,200	130	---	130	---	---	---	---	---	---	32.54	6.71	---	25.83
MW-2	04/15/2009	28,000	2,200	<20	1,200	110	---	220	---	---	---	---	---	---	32.54	6.00	---	26.54
MW-2	10/21/2009	30,000	1,900	<20	1,200	130	---	110	<200	<40	<40	<40	---	---	32.54	7.12	---	25.42
MW-2	04/21/2010	16,000	2,100	<25	890	95	---	140	---	---	---	---	---	---	32.54	5.37	---	27.17
MW-2	10/20/2010	21,000	1,800	<20	730	97	---	110	---	---	---	---	---	---	32.54	7.90	---	24.64
MW-2	**04/20/2011**	**17,000**	**1,400**	**<12**	**460**	**76**	**---**	**82**	**---**	**---**	**---**	**---**	**---**	**---**	**32.54**	**5.46**	**---**	**27.08**
MW-3	08/06/1991	430	8	1	4	15	---	---	---	---	---	---	---	---	21.78	11.18	---	10.60
MW-3	10/23/1991	390	2.10	<0.3	0.48	2	---	---	---	---	---	---	---	---	21.78	11.69	---	10.09
MW-3	01/28/1992	190	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	21.78	9.99	---	11.79
MW-3	05/04/1992	190	<1	<1	<1	0.71	---	---	---	---	---	---	---	---	21.78	9.46	---	12.32
MW-3	07/20/1992	200a	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	21.78	11.29	---	10.49
MW-3	10/12/1992	180a	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	21.78	13.10	---	8.68
MW-3	01/12/1993	180	<0.5	2.3	0.9	5.6	---	---	---	---	---	---	---	---	21.78	7.32	---	14.46
MW-3	04/06/1993	280	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	21.78	7.44	---	14.34
MW-3	07/12/1993	310a	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	21.78	10.62	---	11.16
MW-3	10/13/1993	150	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	21.78	12.05	---	9.73
MW-3	01/20/1994	180	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	21.78	9.62	---	12.16
MW-3	04/13/1994	270	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	21.78	9.15	---	12.63
MW-3	07/19/1994	190a	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	21.78	10.13	---	11.65
MW-3	10/27/1994	160a	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	21.78	11.66	---	10.12
MW-3	01/03/1995	100a	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	21.78	6.89	---	14.89
MW-3	04/13/1995	120a	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	21.78	6.79	---	14.99
MW-3	06/30/1995	180a	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	21.78	8.94	---	12.84
MW-3	10/11/1995	150	2.2	<0.5	<0.5	<0.5	2.3	---	---	---	---	---	---	---	21.78	10.62	---	11.16
MW-3	01/17/1996	120	<0.5	<0.5	<0.5	<0.5	7.8	---	---	---	---	---	---	---	21.78	7.18	---	14.60
MW-3	04/10/1996	160	<0.5	<0.5	<0.5	<0.5	12	---	---	---	---	---	---	---	21.78	6.76	---	15.02
MW-3	07/30/1996	57	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	---	---	---	---	---	21.78	9.04	---	12.74
MW-3	10/17/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	---	---	---	---	2.0	21.78	9.04	---	12.74
MW-3	01/22/1997	<50	<0.5	<0.5	<0.5	<0.5	3.7	---	---	---	---	---	---	2.4	21.78	5.03	---	16.75
MW-3	04/01/1997	71	<0.50	<0.50	<0.50	<0.50	NA b	---	---	---	---	---	---	1.6	21.78	8.23	---	13.55
MW-3	07/14/1997	<50	<0.50	<0.50	<0.50	1.5	NA b	---	---	---	---	---	---	1.9	21.78	9.09	---	12.69
MW-3	10/08/1997	73	<0.50	<0.50	<0.50	<0.50	NA b	---	---	---	---	---	---	5.5	21.78	10.23	---	11.55
MW-3	12/05/1997	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3R	04/06/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	21.83	9.89	---	11.94
MW-3R	04/12/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	---	2.1	21.83	5.83	---	16.00

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-3R	07/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	4.15	---	---	---	---	---	---	2.0	21.83	9.59	---	12.24
MW-3R	10/14/1999	<50.0	<0.500	<0.500	<0.500	<0.500	9.43	---	---	---	---	---	---	0.6	21.83	10.00	---	11.83
MW-3R	01/06/2000	78	<0.500	<0.500	<0.500	<0.500	31	---	---	---	---	---	---	0.8	21.83	9.71	---	12.12
MW-3R	04/05/2000	<50.0	<0.500	<0.500	<0.500	<0.500	273	2,890*	---	---	---	---	---	1.5	21.83	6.90	---	14.93
MW-3R	07/20/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	---	1.1	21.83	6.94	---	14.89
MW-3R	10/24/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	21.83	8.90	---	12.93
MW-3R	01/19/2001	<50.0	<0.500	<0.500	<0.500	<0.500	79.2	---	---	---	---	---	---	2.0	32.79	7.04	---	25.75
MW-3R	04/27/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	32.79	7.38	---	25.41
MW-3R	07/26/2001	97	<0.50	<0.50	<0.50	<0.50	---	200	---	---	---	---	---	1.8	32.79	9.30	---	23.49
MW-3R	10/02/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	32.79	9.41	---	23.38
MW-3R	01/15/2002	55	<0.50	<0.50	<0.50	<0.50	---	32	---	---	---	---	---	0.7	32.79	6.05	---	26.74
MW-3R	04/17/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	32.79	7.70	---	25.09
MW-3R	07/11/2002	110	<0.50	<0.50	<0.50	<0.50	---	65	---	---	---	---	---	2.5	32.79	8.76	---	24.03
MW-3R	10/10/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	32.79	9.65	---	23.14
MW-3R	01/21/2003	65	<0.50	<0.50	<0.50	<0.50	---	13	---	---	---	---	---	1.6	32.79	5.21	---	27.58
MW-3R	05/02/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	32.79	6.08	---	26.71
MW-3R	07/10/2003	<50	<0.50	<0.50	<0.50	<1.0	---	11	---	---	---	---	---	---	32.79	8.20	---	24.59
MW-3R	10/28/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	32.79	8.57	---	24.22
MW-3R	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	---	3.9	---	---	---	---	---	---	32.79	5.79	---	27.00
MW-3R	04/01/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	32.79	7.22	---	25.57
MW-3R	07/21/2004	<50	<0.50	<0.50	<0.50	<1.0	---	2.7	<5.0	<2.0	<2.0	<2.0	---	---	32.79	8.55	---	24.24
MW-3R	10/20/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	32.79	8.30	---	24.49
MW-3R	01/19/2005	<50	<0.50	<0.50	<0.50	<1.0	---	2.0	---	---	---	---	---	---	32.79	6.10	---	26.69
MW-3R	04/20/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	32.79	6.41	---	26.38
MW-3R	07/20/2005	<50	<0.50	<0.50	<0.50	<1.0	---	2.9	<5.0	<2.0	<2.0	<2.0	---	---	32.79	8.76	---	24.03
MW-3R	10/19/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	32.79	9.87	---	22.92
MW-3R	01/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	---	---	---	---	---	---	32.79	5.96	---	26.83
MW-3R	04/19/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	32.79	6.07	---	26.72
MW-3R	07/19/2006	70.2	<0.500	<0.500	<0.500	<0.500	---	5.43	<10.0	<0.500	<0.500	<0.500	---	---	32.79	8.07	---	24.72
MW-3R	10/18/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	32.79	8.72	---	24.07
MW-3R	01/17/2007	<50	<0.50	<0.50	<0.50	<1.0	---	1.1	---	---	---	---	---	---	32.79	7.88	---	24.91
MW-3R	04/18/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	32.79	8.37	---	24.42
MW-3R	07/18/2007	<50 h	<0.50	<1.0	<1.0	<1.0	---	2.2	<10	<2.0	<2.0	<2.0	---	---	32.79	9.80	---	22.99
MW-3R	01/16/2008	<50 h	<0.50	<1.0	<1.0	<1.0	---	1.6	<10	<2.0	<2.0	<2.0	---	---	32.79	6.65	---	26.14
MW-3R	04/16/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	32.79	8.31	---	24.48
MW-3R	07/16/2008	<50	<0.50	<1.0	<1.0	<1.0	---	4.4	<10	<2.0	<2.0	<2.0	---	---	32.79	9.33	---	23.46
MW-3R	10/15/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	32.79	10.00	---	22.79

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-3R	01/21/2009	<50	<0.50	<1.0	<1.0	<1.0	---	3.0	---	---	---	---	---	---	32.79	8.20	---	24.59
MW-3R	04/15/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	32.79	7.05	---	25.74
MW-3R	10/21/2009	<50	<0.50	<1.0	<1.0	<1.0	---	1.8	<10	<2.0	<2.0	<2.0	---	---	32.79	7.61	---	25.18
MW-3R	04/21/2010	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	---	---	---	---	---	---	32.79	5.70	---	27.09
MW-3R	10/20/2010	65	<0.50	<1.0	<1.0	<1.0	---	6.7	---	---	---	---	---	---	32.79	9.75	---	23.04
MW-3R	**04/20/2011**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**---**	**---**	**---**	**---**	**---**	**---**	**32.79**	**5.90**	**---**	**26.89**
MW-4	08/06/1991	1,300	28	18	68	150	---	---	---	---	---	---	---	---	20.31	10.57	---	9.74
MW-4	10/23/1991	1,900	97	6.10	38	77	---	---	---	---	---	---	---	---	20.31	10.46	---	9.85
MW-4	01/28/1992	200	7.60	<0.5	3	3.30	---	---	---	---	---	---	---	---	20.31	9.54	---	10.77
MW-4	05/04/1992	690	98	3	13	<1	---	---	---	---	---	---	---	---	20.31	8.33	---	11.98
MW-4	07/13/1992	1,500	140	2.90	17	12	---	---	---	---	---	---	---	---	20.31	9.87	---	10.44
MW-4	10/12/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	20.31	12.43	0.78	8.50
MW-4	01/12/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	20.31	7.12	1.00	13.99
MW-4	04/06/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	20.31	7.23	0.95	13.84
MW-4	07/12/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	20.31	10.08	0.03	10.25
MW-4	10/13/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	20.31	11.35	0.12	9.06
MW-4	01/20/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	20.31	9.06	0.02	11.26
MW-4	04/13/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	20.31	8.58	0.01	11.74
MW-4	07/19/1994	12,000	230	43	230	660	---	---	---	---	---	---	---	---	20.31	9.71	---	10.60
MW-4	10/27/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	20.31	10.60	0.03	9.73
MW-4	01/03/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	20.31	5.49	0.01	14.83
MW-4	04/13/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	20.31	6.53	0.03	13.80
MW-4	06/30/1995	7,400	140	<0.5	160	350	---	---	---	---	---	---	---	---	20.31	9.57	---	10.74
MW-4	10/11/1995	3,000	29	10	100	82	9,700	---	---	---	---	---	---	---	20.31	10.30	---	10.01
MW-4	01/17/1996	9,700	190	<0.5	190	410	4,500	---	---	---	---	---	---	---	20.31	6.68	---	13.63
MW-4	04/10/1996	2,800	16	<0.5	22	50	6,100	---	---	---	---	---	---	---	20.31	7.90	---	12.41
MW-4	07/30/1996	1,600	68	<12	58	39	8,500	---	---	---	---	---	---	2.8	20.31	8.73	---	11.58
MW-4	10/17/1996	4,800	120	<25	150	96	11,000	---	---	---	---	---	---	2.8	20.31	7.63	---	10.34
MW-4	01/22/1997	12,000	83	<20	170	240	4,300	---	---	---	---	---	---	2.6	20.31	5.26	---	15.05
MW-4	04/01/1997	4,800	65	<5.0	81	93	3,200	---	---	---	---	---	---	2.4	20.31	8.02	---	12.29
MW-4	07/14/1997	2,400	35	<10	30	20	6,000	---	---	---	---	---	---	2.0	20.31	10.05	---	10.26
MW-4	10/08/1997	2,900	66	<20	<20	<20	7,300	---	---	---	---	---	---	5.9	20.31	10.22	---	10.09
MW-4	01/19/1998	Inaccessible		---	---	---	---	---	---	---	---	---	---	---	20.31	---	---	---
MW-4	04/28/1998	Inaccessible		---	---	---	---	---	---	---	---	---	---	---	20.31	---	---	---
MW-4	09/30/1998	1,300	57	8.7	58	37	3,600	---	---	---	---	---	---	2.9	20.92	9.31	---	11.61
MW-4	12/09/1998	3,500	130	<5.0	100	36	3,200	4,500	---	---	---	---	---	2.2	20.92	9.30	---	11.62

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-4	01/18/1999	7,040	321	<25.0	273	<25.0	4,830	4,660	---	---	---	---	---	2.3	20.92	8.60	---	12.32
MW-4	04/12/1999	1,540	47.6	<10.0	24.4	<10.0	2,760	---	---	---	---	---	---	1.9	20.92	6.25	---	14.67
MW-4	07/27/1999	3,570	214	<25.0	58.3	31.0	5,440	7,280*	---	---	---	---	---	1.9	20.92	9.33	---	11.59
MW-4	10/14/1999	3,920	157	<25.0	103	<25.0	6,550	8,990	---	---	---	---	---	1.7	20.92	9.93	---	10.99
MW-4	01/06/2000	5,030	247	7.2	169	37.7	6,860	7,400	---	---	---	---	---	1.7	20.92	9.31	---	11.61
MW-4	04/05/2000	1,870	120	<5.00	15.1	<5.00	4,400	2,890*	---	---	---	---	---	1.8	20.92	6.00	---	14.92
MW-4	07/20/2000	6,740	114	36.4	71.9	28.2	1,900	---	---	---	---	---	---	2.1	20.92	6.10	---	14.82
MW-4	10/24/2000	2,120	108	8.28	12.5	<5.00	6,070	5,950	---	---	---	---	---	1.1	20.92	8.90	---	12.02
MW-4	01/19/2001	3,330	67.2	<5.00	7.18	<5.00	3,620	4,330	---	---	---	---	---	1.8	31.88	7.25	---	24.63
MW-4	04/27/2001	1,600	79	<10	<10	<10	---	3,900	---	---	---	---	---	1.4	31.88	7.41	---	24.47
MW-4	07/26/2001	2,700	140	<20	24	<20	---	4,700	---	---	---	---	---	1.8	31.88	8.20	---	23.68
MW-4	10/02/2001	4,600	170	<10	50	<10	---	6,300	2,600	<10	<10	<10	<500	2.1	31.88	8.55	---	23.33
MW-4	01/15/2002	1,000	34	<5.0	<5.0	9.8	---	2,800	---	---	---	---	---	2.7	31.88	6.53	---	25.35
MW-4	04/17/2002	1,400	92	<10	<10	11	---	4,100	---	---	---	---	---	2.4	31.88	7.00	---	24.88
MW-4	07/11/2002	1,800	82	<10	<10	11	---	4,500	---	---	---	---	---	2.1	31.88	8.49	---	23.39
MW-4	10/10/2002	7,400	230	<10	45	<10	---	6,600	---	---	---	---	---	2.5	31.88	9.05	---	22.83
MW-4	01/21/2003	1,400	27	<2.5	<2.5	<2.5	---	1,200	---	---	---	---	---	0.4	31.88	6.50	---	25.38
MW-4	05/02/2003	<2,500	80	<25	<25	<50	---	2,500	---	---	---	---	---	1.3	31.88	6.97	---	24.91
MW-4	07/10/2003	<2,500	93	<25	<25	<50	---	2,800	---	---	---	---	---	---	31.88	7.74	---	24.14
MW-4	10/28/2003	4,000	120	<10	<10	<20	---	2,100	---	---	---	---	---	---	31.88	8.43	---	23.45
MW-4	01/13/2004	2,000	45	<5.0	<5.0	<10	---	620	---	---	---	---	---	---	31.88	6.75	---	25.13
MW-4	04/01/2004	1,400	17	<2.5	<2.5	<5.0	---	540	---	---	---	---	---	---	31.88	6.40	---	25.48
MW-4	07/21/2004	3,100	120	<2.5	11	<5.0	---	900	2,200	<10	<10	<10	---	---	31.88	8.23	---	23.65
MW-4	10/20/2004	3,600	97	<2.5	9.7	<5.0	---	470	---	---	---	---	---	---	31.88	8.30	---	23.58
MW-4	01/19/2005	1,600	15	<2.5	<2.5	<5.0	---	220	---	---	---	---	---	---	31.88	5.83	---	26.05
MW-4	04/20/2005	1,300	8.8	<2.5	<2.5	<5.0	---	210	---	---	---	---	---	---	31.88	6.12	---	25.76
MW-4	07/20/2005	1,600	34	<2.5	3.8	<5.0	---	280	1,100	<10	<10	<10	---	---	31.88	8.35	---	23.53
MW-4	10/19/2005	2,400	74	1.1	7.2	<2.0	---	360	---	---	---	---	---	---	31.88	9.25	---	22.63
MW-4	01/24/2006	3,290	17.2	<0.500	3.02	<0.500	---	159	---	---	---	---	---	---	31.88	6.32	---	25.56
MW-4	04/19/2006	430	6.40	<0.500	0.610	<0.500	---	134	---	---	---	---	---	---	31.88	5.03	---	26.85
MW-4	07/19/2006	5,020	48.7	0.760	6.67	<0.500	---	234	582	<0.500	<0.500	<0.500	---	---	31.88	7.90	---	23.98
MW-4	10/18/2006	9,220	48.4	1.07	16.7	4.45	---	233	---	---	---	---	---	---	31.88	8.68	---	23.20
MW-4	01/17/2007	1,700	13	<2.5	<2.5	<5.0	---	120	---	---	---	---	---	---	31.88	7.83	---	24.05
MW-4	04/18/2007	1,200 h	9.2	0.50 i	1.3	1.13 i	---	120	---	---	---	---	---	---	31.88	7.99	---	23.89
MW-4	07/18/2007	2,100 h	21	0.71 i	2.6	1.22 i	---	150	730	<2.0	<2.0	<2.0	---	---	31.88	9.15	---	22.73
MW-4	10/18/2007	940 h	32	1.2	11	2.57 i	---	160	---	---	---	---	---	---	31.88	8.64	---	23.24
MW-4	01/16/2008	2,300 h	8.5	<1.0	<1.0	<1.0	---	110	---	---	---	---	---	---	31.88	6.98	---	24.90

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-4	04/16/2008	1,700	4.2	<1.0	1.0	<1.0	---	110	---	---	---	---	---	---	31.88	7.98	---	23.90
MW-4	07/16/2008	3,700	34	1.5	1.3	2.5	---	150	740	<2.0	<2.0	<2.0	---	---	31.88	9.12	---	22.76
MW-4	10/15/2008	3,700	18	<2.0	7.9	2.2	---	120	---	---	---	---	---	---	31.88	9.55	---	22.33
MW-4	01/21/2009	3,000	6.4	<1.0	1.9	1.1	---	86	---	---	---	---	---	---	31.88	7.90	---	23.98
MW-4	04/15/2009	2,000	2.2	<1.0	<1.0	<1.0	---	68	---	---	---	---	---	---	31.88	7.20	---	24.68
MW-4	10/21/2009	2,600	4.2	<1.0	1.3	<1.0	---	86	430	<2.0	<2.0	<2.0	---	---	31.88	7.45	---	24.43
MW-4	04/21/2010	1,000	2.3	<1.0	1.3	<1.0	---	46	---	---	---	---	---	---	31.88	5.60	---	26.28
MW-4	10/20/2010	3,100	2.3	<1.0	1.3	<1.0	---	83	---	---	---	---	---	---	31.88	9.16	---	22.72
MW-4	**04/20/2011**	**820**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**31**	**---**	**---**	**---**	**---**	**---**	**---**	**31.88**	**6.70**	**---**	**25.18**
MW-5	08/06/1991	9,100	210	27	240	660	---	---	---	---	---	---	---	---	20.91	10.23	---	10.68
MW-5	10/23/1991	12,000	92	18	230	450	---	---	---	---	---	---	---	---	20.91	10.89	---	10.02
MW-5	01/28/1992	3,300	130	10	180	220	---	---	---	---	---	---	---	---	20.91	8.45	---	12.46
MW-5	05/04/1992	3,900	95	<12.5	260	120	---	---	---	---	---	---	---	---	20.91	8.05	---	12.86
MW-5	07/13/1992	4,100	180	12	250	73	---	---	---	---	---	---	---	---	20.91	10.00	---	10.91
MW-5	10/12/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	20.91	11.83	0.01	9.09
MW-5	01/12/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	20.91	6.10	<0.01	14.81
MW-5	04/06/1993	6,200	71	<0.5	53	150	---	---	---	---	---	---	---	---	20.91	6.18	---	14.73
MW-5	07/12/1993	3,400	130	<0.5	170	130	---	---	---	---	---	---	---	---	20.91	9.59	---	11.32
MW-5	10/13/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	20.91	10.80	0.03	10.13
MW-5	01/20/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	20.91	7.42	0.01	13.49
MW-5	04/13/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	20.91	7.05	0.01	13.87
MW-5	07/19/1994	11,000	180	13	180	260	---	---	---	---	---	---	---	---	20.91	8.57	---	12.34
MW-5	10/27/1994	6,900	82	<5	210	1,110	---	---	---	---	---	---	---	---	20.91	10.14	---	10.77
MW-5	01/03/1995	12,000	110	46	790	510	---	---	---	---	---	---	---	---	20.91	5.84	---	15.07
MW-5	04/13/1995	10,000	61	<20	330	140	---	---	---	---	---	---	---	---	20.91	5.28	---	15.63
MW-5	06/30/1995	12,000	180	8.60	440	340	---	---	---	---	---	---	---	---	20.91	7.43	---	13.48
MW-5	10/11/1995	11,000	<50	<50	440	340	5,100	---	---	---	---	---	---	---	20.91	8.90	---	12.01
MW-5	01/17/1996	82,000	330	120	960	1,400	820	---	---	---	---	---	---	---	20.91	6.40	---	14.51
MW-5	04/10/1996	23,000	<50	<50	360	190	770	---	---	---	---	---	---	---	20.91	5.70	---	15.21
MW-5	07/30/1996	38,000	3,000	<100	1,100	2,600	560	---	---	---	---	---	---	---	20.91	7.71	---	13.20
MW-5	10/17/1996	13,000	36	<10	210	160	720	---	---	---	---	---	---	1.4	20.91	9.04	---	11.87
MW-5	01/22/1997	20,000	63	<50	380	390	650	---	---	---	---	---	---	1.6	20.91	4.85	---	16.06
MW-5	04/01/1997	16,000	110	<50	390	320	2,200	---	---	---	---	---	---	1.4	20.91	6.54	---	14.37
MW-5	07/14/1997	15,000	70	<20	220	170	450	---	---	---	---	---	---	1.8	20.91	8.54	---	12.37
MW-5	10/08/1997	9,100	27	11	170	57	530	---	---	---	---	---	---	4.7	20.91	9.09	---	11.82
MW-5	01/19/1998	9,500	92	<50	200	77	1,100	---	---	---	---	---	---	2.5	20.91	2.11	---	18.80

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-5	04/28/1998	15,000	100	53	150	80	460	---	---	---	---	---	---	2.2	20.91	4.90	---	16.01
MW-5	09/30/1998	11,000	120	<100	240	200	<500	---	---	---	---	---	---	2.0	21.71	8.05	---	13.66
MW-5	12/09/1998	45,000	<200	<200	240	240	<1,000	---	---	---	---	---	---	4.7	21.71	8.62	---	13.09
MW-5	01/18/1999	9,120	13.8	<2.50	315	74.5	131	---	---	---	---	---	---	2.1	21.71	6.75	---	14.96
MW-5	04/12/1999	16,200	80.9	<50.0	163	<50.0	8,310	---	---	---	---	---	---	2.3	21.71	4.80	---	16.91
MW-5	07/27/1999	6,820	<5.00	<5.00	99.7	<5.00	216	---	---	---	---	---	---	2.1	21.71	6.25	---	15.46
MW-5	10/14/1999	10,800	47.8	<12.5	313	23.1	232	---	---	---	---	---	---	2.8	21.71	6.93	---	14.78
MW-5	01/06/2000	9,920	39.8	15.4	220	69.6	478	---	---	---	---	---	---	2.9	21.71	7.52	---	14.19
MW-5	04/05/2000	8,370	68.3	20.1	40.2	<10.0	1,570	---	---	---	---	---	---	0.4	21.71	5.31	---	16.40
MW-5	07/20/2000	15,500	60.5	181	104	108	460	---	---	---	---	---	---	1.7	21.71	5.40	---	16.31
MW-5	10/24/2000	5,170	24.3	12.6	16.5	9.79	130	---	---	---	---	---	---	1.3	21.71	5.59	---	16.12
MW-5	01/19/2001	4,000	<5.00	17.4	88.1	22.6	371	---	---	---	---	---	---	1.0	32.67	5.05	---	27.62
MW-5	04/27/2001	3,100	<1.0	<1.0	2.6	1.3	---	210	---	---	---	---	---	1.3	32.67	5.38	---	27.29
MW-5	07/26/2001	11,000	1.4	<1.0	13	2.2	---	46	---	---	---	---	---	1.6	32.67	7.17	---	25.50
MW-5	10/02/2001	5,300	6.2	3.4	60	11	---	<100	---	---	---	---	---	2.2	32.67	7.86	---	24.81
MW-5	01/15/2002	3,800	1.0	<0.50	1.7	0.60	---	120	---	---	---	---	---	1.7	32.67	4.35	---	28.32
MW-5	04/17/2002	4,600	0.61	<0.50	1.5	<0.50	---	140	---	---	---	---	---	0.5	32.67	6.04	---	26.63
MW-5	07/11/2002	7,200	1.8	0.58	5.9	0.78	---	130	---	---	---	---	---	4.2	32.67	6.72	---	25.95
MW-5	10/10/2002	4,300	3.2	<1.0	3.5	<1.0	---	86	---	---	---	---	---	2.5	32.67	6.99	---	25.68
MW-5	01/21/2003	4,300	2.4	<0.50	7.8	0.67	---	170	---	---	---	---	---	0.5	32.67	5.09	---	27.58
MW-5	05/02/2003	3,600 d	<10	<10	<10	<20	---	170	---	---	---	---	---	0.05	32.67	5.14	---	27.53
MW-5	07/10/2003	2,700	2.1	<1.0	4.8	<2.0	---	48	---	---	---	---	---	---	32.67	5.68	---	26.99
MW-5	10/28/2003	7,500	<5.0	<5.0	11	<10	---	63	---	---	---	---	---	---	32.67	5.79	---	26.88
MW-5	01/13/2004	3,800	<2.5	<2.5	6.9	<5.0	---	140	---	---	---	---	---	---	32.67	4.69	---	27.98
MW-5	04/01/2004	3,800	<5.0	<5.0	<5.0	<10	---	180	---	---	---	---	---	---	32.67	5.60	---	27.07
MW-5	07/21/2004	2,500	<5.0	<5.0	<5.0	<10	---	85	59	<20	<20	<20	---	---	32.67	6.50	---	26.17
MW-5	10/20/2004	4,900	<5.0	<5.0	<5.0	<10	---	120	---	---	---	---	---	---	32.67	6.87	---	25.80
MW-5	01/19/2005	3,200	<5.0	<5.0	<5.0	<10	---	110	---	---	---	---	---	---	32.67	4.73	---	27.94
MW-5	04/20/2005	3,300	<5.0	<5.0	<5.0	<10	---	53	---	---	---	---	---	---	32.67	5.29	---	27.38
MW-5	07/20/2005	2,100	<1.0	<1.0	1.0	<2.0	---	110	51	<4.0	<4.0	<4.0	---	---	32.67	7.00	---	25.67
MW-5	10/19/2005	2,900	1.7	<1.0	2.8	<2.0	---	140	---	---	---	---	---	---	32.67	8.91	---	23.76
MW-5	01/24/2006	4,890	0.670	2.41	4.89	<0.500	---	37.9	---	---	---	---	---	---	32.67	4.90	---	27.77
MW-5	04/19/2006	5,010	0.710	1.26	1.09	<0.500	---	67.1	---	---	---	---	---	---	32.67	3.46	---	29.21
MW-5	07/19/2006	9,180	<0.500	<0.500	0.790	<0.500	---	2.92 g	<10.0	<0.500	<0.500	<0.500	---	---	32.67	5.32	---	27.35
MW-5	10/18/2006	6,110	1.07	1.02	2.48	<0.500	---	36.5	---	---	---	---	---	---	32.67	6.48	---	26.19
MW-5	01/17/2007	1,300	<0.50	<0.50	0.74	<1.0	---	27	---	---	---	---	---	---	32.67	6.14	---	26.53
MW-5	04/18/2007	4,500 h	0.31 i	0.33 i	0.75 i	0.99 i	---	60	---	---	---	---	---	---	32.67	6.75	---	25.92

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-5	07/18/2007	4,600 h	0.80 i	<5.0	<5.0	0.91 i	---	69	42 i	<10	<10	<10	---	---	32.67	8.51	---	24.16
MW-5	10/18/2007	2,800 h	0.66	<1.0	0.32 i	<1.0	---	120	---	---	---	---	---	---	32.67	8.28	---	24.39
MW-5	01/16/2008	2,900 h	0.89	<1.0	2.6	<1.0	---	32	---	---	---	---	---	---	32.67	5.65	---	27.02
MW-5	04/16/2008	1,600	<0.50	<1.0	<1.0	<1.0	---	39	---	---	---	---	---	---	32.67	6.62	---	26.05
MW-5	07/16/2008	11,000	<5.0	<10	<10	<10	---	<10	<100	<20	<20	<20	---	---	32.67	6.99	---	25.68
MW-5	10/15/2008	11,000	<2.5	<5.0	<5.0	<5.0	---	42	---	---	---	---	---	---	32.67	8.20	---	24.47
MW-5	01/21/2009	3,300	<0.50	<1.0	<1.0	<1.0	---	29	---	---	---	---	---	---	32.67	7.11	---	25.56
MW-5	04/15/2009	3,300	<0.50	<1.0	<1.0	<1.0	---	11	---	---	---	---	---	---	32.67	5.75	---	26.92
MW-5	10/21/2009	1,700	<0.50	<1.0	<1.0	<1.0	---	32	28	<2.0	<2.0	<2.0	---	---	32.67	6.58	---	26.09
MW-5	04/21/2010	2,100	<0.50	<1.0	1.1	<1.0	---	8.3	---	---	---	---	---	---	32.67	4.94	---	27.73
MW-5	10/20/2010	6,800	<1.0	<2.0	<2.0	<2.0	---	24	---	---	---	---	---	---	32.67	7.96	---	24.71
MW-5	**04/20/2011**	**2,000**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**9.6**	**---**	**---**	**---**	**---**	**---**	**---**	**32.67**	**4.85**	**---**	**27.82**
MW-6	08/06/1991	28,000	1,400	200	1,300	4,200	---	---	---	---	---	---	---	---	22.32	10.61	---	11.71
MW-6	10/23/1991	53,000	1,400	230	1,800	6,700	---	---	---	---	---	---	---	---	22.32	11.68	---	10.64
MW-6	01/28/1992	87,000	1,200	470	2,000	6,600	---	---	---	---	---	---	---	---	22.32	8.90	---	13.42
MW-6	05/05/1992	230,000	<500	<500	3,200	11,000	---	---	---	---	---	---	---	---	22.32	8.01	---	14.31
MW-6	07/13/1992	2,700,000	<2,500	3,500	14,000	36,000	---	---	---	---	---	---	---	---	22.32	10.77	---	11.55
MW-6	10/12/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	22.32	8.68	0.48	9.34
MW-6	01/12/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	22.32	6.40	<0.01	15.92
MW-6	04/06/1993	320,000	2,500	14,000	980	14,000	---	---	---	---	---	---	---	---	22.32	5.93	---	16.39
MW-6	07/12/1993	31,000	1,100	4,500	150	4,500	---	---	---	---	---	---	---	---	22.32	10.25	---	12.07
MW-6	10/13/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	22.32	12.28	0.20	10.20
MW-6	01/20/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	22.32	9.14	0.02	13.20
MW-6	04/13/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	22.32	7.67	0.01	14.66
MW-6	07/19/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	22.32	10.07	0.07	12.31
MW-6	10/27/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	22.32	11.84	0.11	10.57
MW-6	01/03/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	22.32	7.80	0.02	14.54
MW-6	04/13/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	22.32	5.77	0.02	16.57
MW-6	06/30/1995	1,100,000	6,600	6,100	12,000	29,000	---	---	---	---	---	---	---	---	22.32	7.78	---	14.54
MW-6	10/11/1995	30,000	130	<50	1,400	4,200	710	---	---	---	---	---	---	---	22.32	10.06	---	12.26
MW-6	01/17/1996	450,000	510	1,400	2,700	11,000	630	---	---	---	---	---	---	---	22.32	6.91	---	15.41
MW-6	04/10/1996	22,000	47	<10	350	860	<50	---	---	---	---	---	---	---	22.32	5.92	---	16.40
MW-6	07/30/1996	38,000	3,000	<100	1,100	2,600	560	---	---	---	---	---	---	---	22.32	8.97	---	13.35
MW-6	10/17/1996	34,000	470	<100	1,300	3,900	<500	---	---	---	---	---	---	1.0	22.32	9.87	---	12.45
MW-6	01/22/1997	26,000	<100	<100	600	1,700	<500	---	---	---	---	---	---	1.3	22.32	4.43	---	17.89
MW-6	04/01/1997	30,000	96	33	840	2,600	190	---	---	---	---	---	---	1.4	22.32	6.84	---	15.48

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-6	07/14/1997	29,000	200	<100	690	2,000	<500	---	---	---	---	---	---	2.3	22.32	10.30	---	12.02
MW-6	10/08/1997	55,000	500	110	640	1,500	900	---	---	---	---	---	---	0.0	22.32	10.46	---	11.86
MW-6	12/05/1997	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-6R	04/06/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	22.19	12.13	---	10.06
MW-6R	04/12/1999	26,100	1,750	68.5	2,160	4,450	765	---	---	---	---	---	---	2.4	22.19	6.10	---	16.09
MW-6R	07/27/1999	25,600	1,190	30.5	1,810	3,030	163	---	---	---	---	---	---	2.5	22.19	8.60	---	13.59
MW-6R	10/14/1999	21,400	999	<50.0	1,400	1,680	<500	---	---	---	---	---	---	2.0	22.19	9.35	---	12.84
MW-6R	01/06/2000	17,800	1,440	<50.0	1,310	2,340	301	---	---	---	---	---	---	2.1	22.19	9.18	---	13.01
MW-6R	04/05/2000	24,400	1,470	63.1	1,750	3,590	496	---	---	---	---	---	---	0.4	22.19	6.26	---	15.93
MW-6R	07/20/2000	17,200	1,070	42.9	1,260	2,490	725	---	---	---	---	---	---	2.6	22.19	6.79	---	15.40
MW-6R	10/24/2000	17,200	1,890	107	869	1,620	1,320	---	---	---	---	---	---	1.1	22.19	7.40	---	14.79
MW-6R	01/19/2001	15,000	1,120	40.2	1,240	2,230	1,670	---	---	---	---	---	---	1.4	33.15	6.16	---	26.99
MW-6R	04/27/2001	25,000	1,300	24	1,300	2,400	---	400	---	---	---	---	---	1.0	33.15	6.93	---	26.22
MW-6R	07/26/2001	31,000	1,500	31	1,800	3,000	---	370	---	---	---	---	---	1.4	33.15	9.12	---	24.03
MW-6R	10/02/2001	28,000	1,100	28	1,800	2,800	---	160	---	---	---	---	---	2.1	33.15	8.88	---	24.27
MW-6R	01/15/2002	17,000	1,400	19	900	1,500	---	650	---	---	---	---	---	2.1	33.15	5.46	---	27.69
MW-6R	04/17/2002	33,000	1,600	33	1,700	3,100	---	220	---	---	---	---	---	2.2	33.15	7.68	---	25.47
MW-6R	07/11/2002	25,000	1,200	21	1,300	1,900	---	240	---	---	---	---	---	1.6	33.15	8.75	---	24.40
MW-6R	10/10/2002	83,000 c	1,400	34	2,000	4,400	---	290	---	---	---	---	---	1.0	33.15	9.27	---	23.88
MW-6R	01/21/2003	20,000	1,200	18	1,100	1,700	---	340	---	---	---	---	---	1.2	33.15	6.95	---	26.20
MW-6R	05/02/2003	28,000	1,600	32	1,600	2,400	---	300	---	---	---	---	---	1.6	33.15	7.50	---	25.65
MW-6R	07/10/2003	19,000	1,600	<25	1,400	2,000	---	730	---	---	---	---	---	---	33.15	8.60	---	24.55
MW-6R	10/28/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	33.15	8.91	0.26	24.45
MW-6R	11/24/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	33.15	8.47	0.15	24.80
MW-6R	01/13/2004	87,000	1,300	<50	3,300	6,700	---	160	---	---	---	---	---	---	33.15	6.52	---	26.63
MW-6R	04/01/2004	39,000	1,300	<50	2,400	3,500	---	160	---	---	---	---	---	---	33.15	6.90	---	26.25
MW-6R	07/21/2004	51,000	970	<50	3,200	6,700	---	120	<500	<200	<200	<200	---	---	33.15	8.40	---	24.75
MW-6R	10/20/2004	140,000	1,700	<50	4,300	7,400	---	210	---	---	---	---	---	---	33.15	8.61	<.01	24.54
MW-6R	01/19/2005	44,000	1,300	<50	2,700	3,300	---	140	---	---	---	---	---	---	33.15	6.11	---	27.04
MW-6R	04/20/2005	26,000	340	<50	800	920	---	<50	---	---	---	---	---	---	33.15	7.01	---	26.14
MW-6R	07/20/2005	35,000	640	<50	2,000	2,200	---	83	<500	<200	<200	<200	---	---	33.15	8.64	---	24.51
MW-6R	10/19/2005	57,000	1,100	<50	2,600	2,400	---	100	---	---	---	---	---	---	33.15	10.10	---	23.05
MW-6R	01/24/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	33.15	5.95	0.04	27.23
MW-6R	04/19/2006	62,200	1,040	9.41	1,430	1,280	---	130	---	---	---	---	---	---	33.15	4.95	0.01	28.21
MW-6R	07/19/2006	33,500	1,370	6.34	878	393	---	362 g	<10.0	<0.500	<0.500	<0.500	---	---	33.15	7.74	---	25.41
MW-6R	10/18/2006	127,000	1,220	9.07	2,150	1,330	---	130	---	---	---	---	---	---	33.15	8.74	---	24.41

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-6R	01/17/2007	20,000	880	<12	1,400	730	---	75	---	---	---	---	---	---	33.15	7.92	---	25.23
MW-6R	04/18/2007	30,000 h	790	5.7	600	257.5	---	180	---	---	---	---	---	---	33.15	8.19	---	24.96
MW-6R	07/18/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	33.15	9.70	0.10	23.53
MW-6R	10/18/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	33.15	9.39	0.16	23.89
MW-6R	01/16/2008	39,000 h	590	<5.0	580	160	---	150	---	---	---	---	---	---	33.15	7.15	---	26.00
MW-6R	04/16/2008	3,800	150	1.4	170	83.5	---	27	---	---	---	---	---	---	33.15	8.18	---	24.97
MW-6R	07/16/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	33.15	9.36	0.06	23.84
MW-6R	10/15/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	33.15	10.12	0.31	23.28
MW-6R	01/21/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	33.15	9.28	0.05	23.91
MW-6R	04/15/2009	28,000	850	<10	790	290	---	120	---	---	---	---	---	---	33.15	7.30	---	25.85
MW-6R	10/21/2009	23,000	630	<10	450	80	---	120	<100	<20	<20	<20	---	---	33.15	8.10	---	25.05
MW-6R	04/21/2010	37,000	740	<10	950	230	---	82	---	---	---	---	---	---	33.15	6.53	---	26.62
MW-6R	10/20/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	33.15	10.08	0.16	23.20
MW-6R	**02/10/2011**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**33.15**	**7.30**	**---**	**25.85**
MW-6R	**04/20/2011**	**22,000**	**810**	**<12**	**670**	**170**	**---**	**92**	**---**	**---**	**---**	**---**	**---**	**---**	**33.15**	**6.62**	**---**	**26.53**
MW-7	08/06/1991	13,000	4,300	76	770	730	---	---	---	---	---	---	---	---	20.36	8.00	---	12.36
MW-7	10/23/1991	18,000	3,200	31	660	770	---	---	---	---	---	---	---	---	20.36	8.16	---	12.20
MW-7	01/28/1992	5,000	1,200	<10	220	54	---	---	---	---	---	---	---	---	20.36	7.11	---	13.25
MW-7	05/05/1992	9,500	3,100	72	620	880	---	---	---	---	---	---	---	---	20.36	6.47	---	13.89
MW-7	07/13/1992	20,000	4,200	130	1,600	1,100	---	---	---	---	---	---	---	---	20.36	7.73	---	12.63
MW-7	10/12/1992	16,000	2,500	170	560	170	---	---	---	---	---	---	---	---	20.36	9.97	---	11.68
MW-7	01/12/1993	15,000	2,300	<50	690	440	---	---	---	---	---	---	---	---	20.36	6.26	---	14.10
MW-7	04/06/1993	26,000	5,400	<0.5	1,200	3,000	---	---	---	---	---	---	---	---	20.36	5.92	---	14.44
MW-7	07/12/1993	10,000	3,000	100	510	530	---	---	---	---	---	---	---	---	20.36	7.27	---	13.09
MW-7	10/13/1993	59,000	13,000	4,400	4,400	20,000	---	---	---	---	---	---	---	---	20.36	9.40	---	10.96
MW-7	01/20/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	20.36	7.03	0.05	13.37
MW-7	04/13/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	20.36	6.56	0.16	13.93
MW-7	07/19/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	20.36	6.91	0.20	13.61
MW-7	10/27/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	20.36	8.28	0.04	12.11
MW-7	01/03/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	20.36	6.48	0.02	13.90
MW-7	04/13/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	20.36	6.54	0.02	13.84
MW-7	06/30/1995	900,000	11,000	8,500	14,000	52,000	---	---	---	---	---	---	---	---	20.36	7.08	---	13.28
MW-7	10/11/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	20.36	7.88	0.04	12.51
MW-7	01/17/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	20.36	7.26	0.04	13.13
MW-7	04/10/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	20.36	6.98	0.05	13.42
MW-7	07/30/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	20.36	7.34	0.03	13.04

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-7	10/17/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	20.36	7.63	0.02	12.75
MW-7	01/22/1997	56,000	2,000	520	1,400	8,400	1,800	---	---	---	---	---	---	0.5	20.36	6.46	---	13.90
MW-7	04/01/1997	66,000	3,600	460	2,400	10,000	2,300	---	---	---	---	---	---	1.6	20.36	6.97	---	13.39
MW-7	07/14/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	20.36	8.90	0.03	11.48
MW-7	10/08/1997	68,000	3,200	470	2,400	9,700	3,300	---	---	---	---	---	---	2.1	20.36	9.21	0.01	11.15
MW-7	01/19/1998	44,000	1,800	220	1,700	7,800	1,600	---	---	---	---	---	---	1.6	20.36	4.65	---	15.71
MW-7	04/28/1998	82,000	1,500	<500	1,200	8,900	<2,500	---	---	---	---	---	---	1.3	20.36	6.53	---	13.83
MW-7	09/30/1998	41,000	2,300	290	2,200	7,000	1,400	---	---	---	---	---	---	1.4	20.35	5.59	---	14.76
MW-7	12/09/1998	31,000	530	130	1,100	4,300	<500	---	---	---	---	---	---	4.9	20.35	5.91	---	14.44
MW-7	01/18/1999	35,300	975	175	1,360	5,750	256	---	---	---	---	---	---	1.2	20.35	5.02	---	15.33
MW-7	04/12/1999	43,300	728	161	1,820	6,190	<500	---	---	---	---	---	---	1.3	20.35	4.57	---	15.78
MW-7	07/27/1999	36,600	863	68.3	1,540	4,370	593	---	---	---	---	---	---	1.2	20.35	5.36	---	14.99
MW-7	10/14/1999	65,600	1,140	157	2,230	7,060	1,090	---	---	---	---	---	---	1.8	20.35	5.87	---	14.48
MW-7	01/06/2000	57,100	1,060	142	1,540	5,980	634	---	---	---	---	---	---	1.8	20.35	6.12	---	14.23
MW-7	04/05/2000	36,500	843	<100	1,460	4,220	1,140	---	---	---	---	---	---	1.4	20.35	4.87	---	15.48
MW-7	07/20/2000	28,400	263	251	457	1,300	690	---	---	---	---	---	---	1.7	20.35	5.01	---	15.34
MW-7	10/24/2000	33,500	464	<200	1,600	3,830	<1,000	---	---	---	---	---	---	1.5	20.35	4.17	---	16.18
MW-7	01/19/2001	1,860,000	<2,000	<2,000	<2,000	5,790	<10,000	---	---	---	---	---	---	1.2	31.31	5.18	---	26.13
MW-7	04/27/2001	31,000	150	20	1,400	3,000	---	190	---	---	---	---	---	1.4	31.31	4.99	---	26.32
MW-7	07/26/2001	30,000	340	20	1,500	2,600	---	380	---	---	---	---	---	1.1	31.31	6.20	---	25.11
MW-7	10/02/2001	38,000	480	9.0	970	2,600	---	300	---	---	---	---	---	1.5	31.31	6.45	---	24.86
MW-7	01/15/2002	33,000	160	6.6	810	1,300	---	130	---	---	---	---	---	2.0	31.31	4.31	---	27.00
MW-7	04/17/2002	28,000	160	6.1	1,000	1,700	---	140	---	---	---	---	---	1.2	31.31	4.12	---	27.19
MW-7	07/11/2002	26,000	200	<5.0	830	1,300	---	170	---	---	---	---	---	3.0	31.31	5.90	---	25.41
MW-7	10/10/2002	95,000 c	380	11	1,500	3,900	---	330	---	---	---	---	---	2.9	31.31	6.32	---	24.99
MW-7	01/21/2003	18,000	100	2.6	530	780	---	96	---	---	---	---	---	0.9	31.31	3.04	---	28.27
MW-7	05/02/2003	23,000	99	<10	490	620	---	<100	---	---	---	---	---	0.91	31.31	3.45	---	27.86
MW-7	07/10/2003	18,000	200	<5.0	460	1,100	---	52	---	---	---	---	---	---	31.31	4.59	---	26.72
MW-7	10/28/2003	37,000	290	<10	830	1,200	---	98	---	---	---	---	---	---	31.31	4.97	---	26.34
MW-7	01/13/2004	22,000	94	<10	410	680	---	97	---	---	---	---	---	---	31.31	4.55	---	26.76
MW-7	04/01/2004	24,000	250	<10	440	660	---	210	---	---	---	---	---	---	31.31	4.91	---	26.40
MW-7	07/21/2004	21,000	440	<10	460	640	---	110	<100	<40	<40	<40	---	---	31.31	4.58	---	26.73
MW-7	10/20/2004	23,000	430	<10	410	640	---	40	---	---	---	---	---	---	31.31	1.95	---	29.36
MW-7	01/19/2005	17,000	97	<10	240	370	---	150	---	---	---	---	---	---	31.31	3.91	---	27.40
MW-7	04/20/2005	18,000	160	<10	260	320	---	80	---	---	---	---	---	---	31.31	4.64	---	26.67
MW-7	07/20/2005	15,000	800	<10	200	250	---	660	290	<40	<40	<40	---	---	31.31	6.29	---	25.02
MW-7	10/19/2005	12,000	1,200	<5.0	120	150	---	760	---	---	---	---	---	---	31.31	7.25	---	24.06

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-7	01/24/2006	24,900	604	3.14	135	216	---	259	---	---	---	---	---	---	31.31	4.50	---	26.81
MW-7	04/19/2006	135,000	378	1.82	66.0	177	---	74.0	---	---	---	---	---	---	31.31	3.74	---	27.57
MW-7	07/19/2006	10,600	33.0	<0.500	13.0	27.5	---	<0.500	<10.0	<0.500	<0.500	<0.500	---	---	31.31	3.77	---	27.54
MW-7	10/18/2006	35,200	295	2.44	133	105	---	36.1	---	---	---	---	---	---	31.31	4.82	---	26.49
MW-7	01/17/2007	7,800	84	<2.5	83	60	---	20	---	---	---	---	---	---	31.31	5.60	---	25.71
MW-7	04/18/2007	13,000 h	180	1.8	120	90.5	---	56	---	---	---	---	---	---	31.31	5.68	---	25.63
MW-7	07/18/2007	10,000 h	190	<5.0	68	40.4 i	---	88	77	<10	<10	<10	---	---	31.31	7.35	---	23.96
MW-7	10/18/2007	8,200 h	56	<5.0	6.0	17.3 i	---	17	---	---	---	---	---	---	31.31	3.45	---	27.86
MW-7	01/16/2008	17,000 h	37	<2.0	21	15	---	<2.0	---	---	---	---	---	---	31.31	3.39	---	27.92
MW-7	04/16/2008	10,000	51	2.1	29	17.2	---	28	---	---	---	---	---	---	31.31	5.68	---	25.63
MW-7	07/16/2008	23,000	46	<50	<50	<50	---	<50	<500	<100	<100	<100	---	---	31.31	3.02	---	28.29
MW-7	10/15/2008	4,200	17	<1.0	1.3	4.6	---	4.9	---	---	---	---	---	---	31.31	6.10	---	25.21
MW-7	01/21/2009	11,000	15	1.7	15	4.2	---	<1.0	---	---	---	---	---	---	31.31	5.69	---	25.62
MW-7	04/15/2009	12,000	11	<10	11	<10	---	<10	---	---	---	---	---	---	31.31	3.40	---	27.91
MW-7	10/21/2009	6,600	43	<5.0	<5.0	<5.0	---	29	<50	<10	<10	<10	---	---	31.31	3.25	---	28.06
MW-7	04/21/2010	14,000	3.6	<1.0	3.5	1.1	---	5.4	---	---	---	---	---	---	31.31	4.38	---	26.93
MW-7	10/20/2010	7,100	4.1	<5.0	<5.0	<5.0	---	5.5	---	---	---	---	---	---	31.31	3.11	---	28.20
MW-7	**04/20/2011**	**7,500**	**<2.5**	**<2.5**	**<2.5**	**<5.0**	**---**	**<5.0**	**---**	**---**	**---**	**---**	**---**	**---**	**31.31**	**3.19**	**---**	**28.12**
MW-8	08/06/1991	32,000	3,700	1,100	1,400	6,100	---	---	---	---	---	---	---	---	20.95	9.60	---	11.35
MW-8	10/23/1991	63,000	4,800	1,300	1,300	6,900	---	---	---	---	---	---	---	---	20.95	9.73	---	11.22
MW-8	01/28/1992	32,000	1,900	750	1,400	6,300	---	---	---	---	---	---	---	---	20.95	7.72	---	13.23
MW-8	05/05/1992	180,000	2,200	2,000	2,700	13,000	---	---	---	---	---	---	---	---	20.95	6.48	---	14.47
MW-8	07/13/1992	56,000	4,500	1,500	2,700	9,100	---	---	---	---	---	---	---	---	20.95	8.55	---	12.40
MW-8	10/12/1992	34,000	2,400	550	1,400	6,400	---	---	---	---	---	---	---	---	20.95	9.97	---	10.98
MW-8	01/12/1993	110,000	2,100	1,200	2,400	12,000	---	---	---	---	---	---	---	---	20.95	6.94	---	14.01
MW-8	04/06/1993	38,000	2,500	840	1,100	4,900	---	---	---	---	---	---	---	---	20.95	5.72	---	15.23
MW-8	07/12/1993	27,000	2,800	990	1,200	5,300	---	---	---	---	---	---	---	---	20.95	7.65	---	13.30
MW-8	10/13/1993	32,000	3,300	1,300	1,600	8,400	---	---	---	---	---	---	---	---	20.95	8.25	---	12.70
MW-8	01/20/1994	78,000	1,900	670	1,300	6,600	---	---	---	---	---	---	---	---	20.95	7.25	---	13.70
MW-8	04/13/1994	41,000	1,300	720	1,200	6,000	---	---	---	---	---	---	---	---	20.95	7.12	---	13.83
MW-8	07/19/1994	140,000	1,800	1,400	2,000	9,000	---	---	---	---	---	---	---	---	20.95	7.43	---	13.52
MW-8	10/27/1994	32,000	1,200	670	1,200	5,700	---	---	---	---	---	---	---	---	20.95	7.55	---	13.40
MW-8	01/03/1995	38,000	1,000	700	1,500	7,500	---	---	---	---	---	---	---	---	20.95	6.04	---	14.91
MW-8	04/13/1995	31,000	1,200	570	1,000	5,300	---	---	---	---	---	---	---	---	20.95	5.04	---	15.91
MW-8	06/30/1995	110,000	2,000	1,500	2,000	9,700	---	---	---	---	---	---	---	---	20.95	5.72	---	15.23
MW-8	10/11/1995	36,000	170	60	1,300	6,300	510	---	---	---	---	---	---	---	20.95	7.06	---	13.89

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-8	01/17/1996	38,000	1,000	520	1,100	6,200	950	---	---	---	---	---	---	---	20.95	5.84	---	15.11
MW-8	04/10/1996	54,000	650	260	850	4,700	<250	---	---	---	---	---	---	---	20.95	5.03	---	15.92
MW-8	07/30/1996	33,000	780	330	830	4,200	1,700	---	---	---	---	---	---	---	20.95	6.36	---	14.59
MW-8	10/17/1996	35,000	750	300	1,100	5,000	1,200	---	---	---	---	---	---	1.6	20.95	5.94	---	15.01
MW-8	01/22/1997	25,000	260	78	420	2,400	120	---	---	---	---	---	---	1.8	20.95	5.93	---	15.02
MW-8	04/01/1997	22,000	680	180	550	2,500	260	---	---	---	---	---	---	1.8	20.95	6.24	---	14.71
MW-8	07/14/1997	29,000	870	200	850	3,100	500	---	---	---	---	---	---	1.4	20.95	8.59	---	12.36
MW-8	10/08/1997	27,000	1,000	190	960	3,000	170	---	---	---	---	---	---	4.6	20.95	9.04	---	11.91
MW-8	01/19/1998	21,000	660	160	740	3,300	170	---	---	---	---	---	---	2.2	20.95	3.34	---	17.61
MW-8	04/28/1998	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	20.95	---	---	---
MW-8	09/30/1998	19,000	370	230	880	3,800	410	---	---	---	---	---	---	1.2	21.15	7.00	---	14.15
MW-8	12/09/1998	1,400	92	90	74	260	<250	---	---	---	---	---	---	3.6	21.15	6.38	---	14.77
MW-8	01/18/1999	317	<0.500	<0.500	3.04	0.984	3.92	---	---	---	---	---	---	2.0	21.15	1.85	---	19.30
MW-8	04/12/1999	8,300	35.6	24.4	144	466	<100	---	---	---	---	---	---	1.6	21.15	3.65	---	17.50
MW-8	07/27/1999	12,700	<5.00	5.47	281	1,130	50.3	---	---	---	---	---	---	1.4	21.15	5.00	---	16.15
MW-8	10/14/1999	11,900	86.7	16.9	210	469	<100	---	---	---	---	---	---	1.2	21.15	5.95	---	15.20
MW-8	01/06/2000	5,930	65	12.4	106	129	203.0	---	---	---	---	---	---	1.3	21.15	6.19	---	14.96
MW-8	04/05/2000	6,770	100	<50.0	61.3	150	322	---	---	---	---	---	---	2.1	21.15	5.14	---	16.01
MW-8	07/20/2000	28,900	109	307	119	235	337	---	---	---	---	---	---	2.1	21.15	5.21	---	15.94
MW-8	10/24/2000	8,620	99.0	12.8	152	366	225	---	---	---	---	---	---	1.0	21.15	3.11	---	18.04
MW-8	01/19/2001	5,590	49.4	6.50	26.0	57.4	99.5	---	---	---	---	---	---	1.8	32.11	5.35	---	26.76
MW-8	04/27/2001	3,800	<0.50	<0.50	14	31	---	<5.0	---	---	---	---	---	0.7	32.11	4.58	---	27.53
MW-8	07/26/2001	4,400	0.88	0.59	7.0	14	---	<5.0	---	---	---	---	---	0.9	32.11	5.83	---	26.28
MW-8	10/02/2001	1,800	9.8	<0.50	23	16	---	<5.0	---	---	---	---	---	1.2	32.11	6.50	---	25.61
MW-8	01/15/2002	2,700	1.2	1.5	0.93	1.7	---	12	---	---	---	---	---	1.6	32.11	5.07	---	27.04
MW-8	04/17/2002	3,200	2.2	<1.0	9.0	14	---	<10	---	---	---	---	---	1.0	32.11	3.80	---	28.31
MW-8	07/11/2002	6,500	23	1.0	12	19	---	<10	---	---	---	---	---	1.9	32.11	6.29	---	25.82
MW-8	10/10/2002	1,900	5.3	<0.50	30	33	---	7.6	---	---	---	---	---	2.4	32.11	4.32	---	27.79
MW-8	01/21/2003	3,700	1.4	<1.0	3.9	6.6	---	<10	---	---	---	---	---	0.6	32.11	5.57	---	26.54
MW-8	05/02/2003	3,900 d	<5.0	<5.0	<5.0	<10	---	<50	---	---	---	---	---	0.23	32.11	1.67	---	30.44
MW-8	07/10/2003	2,400	<2.5	<2.5	<2.5	<5.0	---	<2.5	---	---	---	---	---	---	32.11	3.81	---	28.30
MW-8	10/28/2003	3,000	<2.5	3.1	4.6	6.1	---	<2.5	---	---	---	---	---	---	32.11	4.99	---	27.12
MW-8	01/13/2004	4,600	3.6	<2.5	14	20	---	2.5	---	---	---	---	---	---	32.11	5.10	---	27.01
MW-8	04/01/2004	4,200	3.9	<2.5	7.1	8.8	---	<2.5	---	---	---	---	---	---	32.11	3.32	---	28.79
MW-8	07/21/2004	3,400	<2.5	<2.5	4.1	<5.0	---	<2.5	<25	<10	<10	<10	---	---	32.11	3.95	---	28.16
MW-8	10/20/2004	2,300	<2.5	<2.5	<2.5	<5.0	---	<2.5	---	---	---	---	---	---	32.11	1.48	---	30.63
MW-8	01/19/2005	2,000	<2.5	<2.5	<2.5	<5.0	---	<2.5	---	---	---	---	---	---	32.11	5.28	---	26.83

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-8	04/20/2005	2,300	<2.5	<2.5	<2.5	<5.0	---	<2.5	---	---	---	---	---	---	32.11	3.52	---	28.59
MW-8	07/20/2005	1,500	2.0	0.77	1.4	1.3	---	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	32.11	5.35	---	26.76
MW-8	10/19/2005	2,200	4.0	0.96	2.5	3.1	---	<0.50	---	---	---	---	---	---	32.11	7.80	---	24.31
MW-8	01/24/2006	5,150	0.600	<0.500	3.33	<0.500	---	<0.500	---	---	---	---	---	---	32.11	2.18	---	29.93
MW-8	06/02/2006	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	08/06/1991	11,000	1,700	95	520	1,400	---	---	---	---	---	---	---	---	21.19	10.33	---	10.86
MW-9	10/23/1991	20,000	1,000	47	<0.3	940	---	---	---	---	---	---	---	---	21.19	11.13	---	10.06
MW-9	01/28/1992	3,500	120	<10	280	36	---	---	---	---	---	---	---	---	21.19	9.02	---	12.17
MW-9	05/04/1992	7,700	1,200	<50	380	630	---	---	---	---	---	---	---	---	21.19	7.67	---	13.52
MW-9	07/20/1992	11,000	910	<50	220	1,200	---	---	---	---	---	---	---	---	21.19	10.26	---	10.93
MW-9	10/12/1992	2,100	340	15	77	44	---	---	---	---	---	---	---	---	21.19	12.19	---	9.00
MW-9	01/12/1993	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	21.19	---	---	---
MW-9	04/06/1993	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	21.19	---	---	---
MW-9	07/12/1993	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	21.19	---	---	---
MW-9	10/13/1993	2,900	140	<5	<5	120	---	---	---	---	---	---	---	---	21.19	11.17	---	10.02
MW-9	01/20/1994	1,700	380	6.90	150	400	---	---	---	---	---	---	---	---	21.19	8.03	---	13.16
MW-9	04/13/1994	6,000	1,000	<20	450	420	---	---	---	---	---	---	---	---	21.19	7.81	---	13.38
MW-9	07/19/1994	12,000	1,400	<5	740	1,200	---	---	---	---	---	---	---	---	21.19	8.96	---	12.23
MW-9	10/27/1994	10,000	1,200	160	280	860	---	---	---	---	---	---	---	---	21.19	11.00	---	10.19
MW-9	01/03/1995	4,400	680	7.70	180	370	---	---	---	---	---	---	---	---	21.19	6.60	---	14.59
MW-9	04/13/1995	1,700	270	<10	69	170	---	---	---	---	---	---	---	---	21.19	6.73	---	14.46
MW-9	06/30/1995	14,000	2,200	18	900	2,600	---	---	---	---	---	---	---	---	21.19	7.32	---	13.87
MW-9	10/11/1995	9,600	35	12	360	980	590	---	---	---	---	---	---	---	21.19	8.10	---	13.09
MW-9	01/17/1996	2,800	150	7.41	54	130	170	---	---	---	---	---	---	---	21.19	5.75	---	15.44
MW-9	04/10/1996	5,200	290	<5	92	220	240	---	---	---	---	---	---	---	21.19	5.17	---	16.02
MW-9	07/30/1996	5,100	960	<10	380	770	670	---	---	---	---	---	---	---	21.19	8.10	---	13.09
MW-9	10/17/1996	15,000	2,100	<25	590	1,300	1,500	---	---	---	---	---	---	2.4	21.19	9.12	---	12.07
MW-9	01/22/1997	5,600	690	<5.0	140	310	620	---	---	---	---	---	---	2.2	21.19	4.72	---	16.47
MW-9	04/01/1997	4,000	590	<10	140	200	600	---	---	---	---	---	---	2.2	21.19	6.86	---	14.33
MW-9	07/14/1997	7,100	860	<10	51	230	950	---	---	---	---	---	---	3.8	21.19	10.04	---	11.15
MW-9	10/08/1997	1,500	57	<2.0	2.0	13	540	---	---	---	---	---	---	8.2	21.19	11.38	---	9.81
MW-9	01/19/1998	2,500	280	<20	79	61	620	---	---	---	---	---	---	1.4	21.19	3.88	---	17.31
MW-9	04/28/1998	2,200	330	<20	91	110	640	---	---	---	---	---	---	1.6	21.19	5.87	---	15.32
MW-9	09/30/1998	2,800	490	<5.0	87	240	1,200	---	---	---	---	---	---	4.0	21.19	8.25	---	12.94
MW-9	12/09/1998	3,700	370	<5.0	83	130	1,100	---	---	---	---	---	---	2.9	21.19	8.07	---	13.12
MW-9	01/18/1999	9,670	1,110	<5.00	442	571	786	---	---	---	---	---	---	3.2	21.19	7.54	---	13.65

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-9	04/12/1999	3,140	272	<10.0	41.6	114	542	---	---	---	---	---	---	1.7	21.19	5.60	---	15.59
MW-9	07/27/1999	3,580	247	<1.00	67.7	137	432	---	---	---	---	---	---	1.6	21.19	7.30	---	13.89
MW-9	10/14/1999	3,200	199	<10.0	74.1	88.9	468	---	---	---	---	---	---	1.4	21.19	7.26	---	13.93
MW-9	01/06/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	---	1.5	21.19	8.31	---	12.88
MW-9	04/05/2000	2,790	156	<5.00	39.1	57.8	399	---	---	---	---	---	---	0.9	21.19	5.40	---	15.79
MW-9	07/20/2000	5,530	283	14.9	379	728	92.7	---	---	---	---	---	---	2.1	21.19	5.70	---	15.49
MW-9	10/24/2000	3,090	110	<5.00	46.4	63.3	362	---	---	---	---	---	---	1.0	21.19	5.90	---	15.29
MW-9	01/19/2001	6,060	180	<5.00	181	164	231	---	---	---	---	---	---	1.2	32.15	5.39	---	26.76
MW-9	04/27/2001	2,700	56	<0.50	26	46	---	150	---	---	---	---	---	1.2	32.15	5.38	---	26.77
MW-9	07/26/2001	4,200	50	<0.50	28	53	---	180	---	---	---	---	---	1.0	32.15	6.45	---	25.70
MW-9	10/02/2001	11,000	150	<2.0	120	140	---	180	---	---	---	---	---	1.4	32.15	6.10	---	26.05
MW-9	01/15/2002	1,200	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	1.2	32.15	4.77	---	27.38
MW-9	04/17/2002	2,200	24	<0.50	26	27	---	96	---	---	---	---	---	0.6	32.15	5.57	---	26.58
MW-9	07/11/2002	4,600	21	<0.50	17	33	---	140	---	---	---	---	---	2.1	32.15	6.64	---	25.51
MW-9	10/10/2002	2,800	8.8	<0.50	3.2	9.5	---	160	---	---	---	---	---	2.4	32.15	7.41	---	24.74
MW-9	01/21/2003	470	1.9	<0.50	1.7	1.1	---	13	---	---	---	---	---	1.0	32.15	5.47	---	26.68
MW-9	05/02/2003	770	2.9	<0.50	1.5	1.8	---	82	---	---	---	---	---	0.96	32.15	5.40	---	26.75
MW-9	07/10/2003	1,700	4.9	<2.5	3.0	5.2	---	100	---	---	---	---	---	---	32.15	6.59	---	25.56
MW-9	10/28/2003	2,400	<5.0	<5.0	<5.0	<10	---	180	---	---	---	---	---	---	32.15	6.94	---	25.21
MW-9	01/13/2004	550	<0.50	0.54	<0.50	<1.0	---	23	---	---	---	---	---	---	32.15	5.62	---	26.53
MW-9	04/01/2004	440	<0.50	<0.50	<0.50	<1.0	---	19	---	---	---	---	---	---	32.15	5.94	---	26.21
MW-9	07/21/2004	1,100	<0.50	<0.50	<0.50	<1.0	---	110	34	<2.0	<2.0	<2.0	---	---	32.15	6.60	---	25.55
MW-9	10/20/2004	730	<0.50	<0.50	<0.50	<1.0	---	56	---	---	---	---	---	---	32.15	4.48	---	27.67
MW-9	01/19/2005	320	<0.50	<0.50	<0.50	<1.0	---	3.0	---	---	---	---	---	---	32.15	4.56	---	27.59
MW-9	04/20/2005	100	<0.50	0.56	<0.50	<1.0	---	5.8	---	---	---	---	---	---	32.15	5.21	---	26.94
MW-9	07/20/2005	400	<0.50	1.4	<0.50	<1.0	---	45	20	<2.0	<2.0	<2.0	---	---	32.15	6.90	---	25.25
MW-9	10/19/2005	400	<0.50	<0.50	<0.50	<1.0	---	44	---	---	---	---	---	---	32.15	7.75	---	24.40
MW-9	01/24/2006	666	<0.500	3.24	<0.500	<0.500	---	2.96	---	---	---	---	---	---	32.15	4.64	---	27.51
MW-9	04/19/2006	<50.0	<0.500	<0.500	0.610	<0.500	---	28.4	---	---	---	---	---	---	32.15	3.48	---	28.67
MW-9	07/19/2006	660	<0.500	<0.500	<0.500	<0.500	---	49.2	<10.0	<0.500	<0.500	<0.500	---	---	32.15	5.63	---	26.52
MW-9	10/18/2006	994	<0.500	<0.500	<0.500	<0.500	---	39.9	---	---	---	---	---	---	32.15	6.58	---	25.57
MW-9	01/17/2007	100	<0.50	<0.50	<0.50	<1.0	---	17	---	---	---	---	---	---	32.15	6.03	---	26.12
MW-9	04/18/2007	400 h	0.29 i	<1.0	0.41 i	0.36 i	---	35	---	---	---	---	---	---	32.15	6.51	---	25.64
MW-9	07/18/2007	320 h	0.17 i	<1.0	<1.0	<1.0	---	34	24	<2.0	<2.0	<2.0	---	---	32.15	6.88	---	25.27
MW-9	10/18/2007	89 h	1.1	<1.0	0.55 i	<1.0	---	27	---	---	---	---	---	---	32.15	7.95	---	24.20
MW-9	01/16/2008	370 h	<0.50	<1.0	<1.0	<1.0	---	28	---	---	---	---	---	---	32.15	5.90	---	26.25
MW-9	04/16/2008	120	<0.50	<1.0	<1.0	<1.0	---	23	---	---	---	---	---	---	32.15	6.52	---	25.63

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-9	07/16/2008	360	<0.50	<1.0	<1.0	<1.0	---	29	21	<2.0	<2.0	<2.0	---	---	32.15	7.41	---	24.74
MW-9	10/15/2008	220	<0.50	<1.0	<1.0	<1.0	---	24	---	---	---	---	---	---	32.15	7.70	---	24.45
MW-9	01/21/2009	200	<0.50	<1.0	<1.0	<1.0	---	19	---	---	---	---	---	---	32.15	6.59	---	25.56
MW-9	04/15/2009	68	<0.50	<1.0	<1.0	<1.0	---	6.0	---	---	---	---	---	---	32.15	5.59	---	26.56
MW-9	10/21/2009	130	<0.50	<1.0	<1.0	<1.0	---	15	12	<2.0	<2.0	<2.0	---	---	32.15	6.90	---	25.25
MW-9	04/21/2010	Unable to access		---	---	---	---	---	---	---	---	---	---	---	32.15	---	---	---
MW-9	10/20/2010	260	<0.50	<1.0	<1.0	<1.0	---	11	---	---	---	---	---	---	32.15	7.75	---	24.40
MW-9	**04/20/2011**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**1.3**	**---**	**---**	**---**	**---**	**---**	**---**	**32.15**	**5.07**	**---**	**27.08**
MW-10	10/23/1991	27,000	1,600	110	1,800	510	---	---	---	---	---	---	---	---	19.74	8.57	---	11.17
MW-10	01/28/1992	3,800	360	14	170	39	---	---	---	---	---	---	---	---	19.74	7.60	---	12.14
MW-10	05/04/1992	3,000	360	<12.5	140	26	---	---	---	---	---	---	---	---	19.74	7.54	---	12.20
MW-10	07/20/1992	15,000	400	<25	180	67	---	---	---	---	---	---	---	---	19.74	8.59	---	11.15
MW-10	10/12/1992	16,000	320	<50	360	100	---	---	---	---	---	---	---	---	19.74	10.23	---	9.51
MW-10	01/12/1993	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	19.74	---	---	---
MW-10	04/06/1993	14,000	370	<0.5	880	210	---	---	---	---	---	---	---	---	19.74	6.70	---	13.04
MW-10	07/12/1993	10,000	440	58	890	220	---	---	---	---	---	---	---	---	19.74	8.05	---	11.69
MW-10	10/13/1993	15,000	1,000	51	810	170	---	---	---	---	---	---	---	---	19.74	8.25	---	11.49
MW-10	01/20/1994	12,000	820	56	1,100	350	---	---	---	---	---	---	---	---	19.74	7.20	---	12.54
MW-10	04/13/1994	18,000	760	36	700	130	---	---	---	---	---	---	---	---	19.74	7.57	---	12.17
MW-10	07/19/1994	24,000	400	2.30	800	22	---	---	---	---	---	---	---	---	19.74	8.18	---	11.56
MW-10	10/27/1994	11,000	360	43	310	89	---	---	---	---	---	---	---	---	19.74	8.68	---	11.06
MW-10	01/03/1995	17,000	770	38	690	160	---	---	---	---	---	---	---	---	19.74	6.86	---	12.88
MW-10	04/13/1995	9,900	650	16	280	40	---	---	---	---	---	---	---	---	19.74	6.91	---	12.83
MW-10	06/30/1995	12,000	750	20	480	130	---	---	---	---	---	---	---	---	19.74	7.61	---	12.13
MW-10	01/17/1996	17,000	870	260	93	830	---	---	---	---	---	---	---	---	19.74	7.00	---	12.74
MW-10	04/10/1996	14,000	470	38	110	370	---	---	---	---	---	---	---	---	19.74	6.80	---	---
MW-10	07/30/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	19.74	---	---	---
MW-10	10/17/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	19.74	---	---	---
MW-10	01/22/1997	10,000	520	<20	64	32	180	---	---	---	---	---	---	3.1	19.74	6.68	---	13.06
MW-10	04/01/1997	11,000	590	<20	53	32	210	---	---	---	---	---	---	2.8	19.74	7.34	---	12.40
MW-10	07/14/1997	6,600	410	13	28	11	89	---	---	---	---	---	---	1.4	19.74	8.10	---	11.64
MW-10	10/08/1997	7,600	220	13	65	22	190	---	---	---	---	---	---	6.4	19.74	8.20	---	11.54
MW-10	01/19/1998	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	19.74	---	---	---
MW-10	04/28/1998	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	19.74	---	---	---
MW-10	09/30/1998	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	19.76	8.11	---	11.65
MW-10	12/09/1998	28,000	150	<100	240	160	<500	---	---	---	---	---	---	2.7	19.76	8.21	---	11.55

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-10	01/18/1999	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	19.76	---	---	---
MW-10	04/12/1999	8,320	71.2	27.4	138	456	<100	---	---	---	---	---	---	1.8	19.76	5.96	---	13.80
MW-10	07/27/1999	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	19.76	---	---	---
MW-10	10/14/1999	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	19.76	---	---	---
MW-10	01/06/2000	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	19.76	---	---	---
MW-10	02/01/2000	4880	40.2	5.27	27.0	8.42	75.5	23.9	---	---	---	---	---	1.6	19.76	6.43	---	13.33
MW-10	04/05/2000	4,950	97.6	6.72	20.2	5.39	104	---	---	---	---	---	---	1.7	19.76	7.00	---	12.76
MW-10	07/20/2000	2,800	166	191	27.6	88.7	81.5	---	---	---	---	---	---	1.0	19.76	7.03	---	12.73
MW-10	10/24/2000	5,070	79.6	46.6	34.2	11.7	242	---	---	---	---	---	---	1.9	19.76	7.96	---	11.80
MW-10	01/19/2001	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	19.76	---	---	---
MW-10	01/30/2001	6,920	362	14.2	22.7	<10.0	138	---	---	---	---	---	---	2.2	30.75	7.32	---	23.43
MW-10	04/27/2001	12,000	35	<2.5	37	6.5	---	51	---	---	---	---	---	1.2	30.75	8.28	---	22.47
MW-10	07/26/2001	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	30.75	---	---	---
MW-10	10/02/2001	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	30.75	---	---	---
MW-10	10/23/2001	470	3.5	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	1.8	30.75	7.02	---	23.73
MW-10	01/15/2002	3,000	5.4	<0.50	7.9	2.1	---	12	---	---	---	---	---	2.7	30.75	6.69	---	24.06
MW-10	04/17/2002	5,100	7.9	<1.0	9.3	2.6	---	15	---	---	---	---	---	0.6	30.75	7.34	---	23.41
MW-10	07/11/2002	5,700	38	2.2	7.8	3.5	---	43	---	---	---	---	---	2.0	30.75	7.85	---	22.90
MW-10	10/10/2002	4,700	53	2.1	3.8	2.8	---	80	---	---	---	---	---	3.3	30.75	8.04	---	22.71
MW-10	01/21/2003	3,900	11	1.0	7.5	2.3	---	51	---	---	---	---	---	1.7	30.75	6.81	---	23.94
MW-10	05/02/2003	3,100	1.4	<0.50	4.6	1.4	---	41	---	---	---	---	---	0.75	30.75	7.12	---	23.63
MW-10	07/10/2003	4,200	17	<1.2	6.2	<2.5	---	51	---	---	---	---	---	---	30.75	7.80	---	22.95
MW-10	10/28/2003	7,100	20	<5.0	8.4	<10	---	120	---	---	---	---	---	---	30.75	7.91	---	22.84
MW-10	01/13/2004	4,800	18	<2.5	6.3	<5.0	---	99	---	---	---	---	---	---	30.75	6.62	---	24.13
MW-10	04/01/2004	5,500	6.0	<5.0	<5.0	<10	---	59	---	---	---	---	---	---	30.75	7.00	---	23.75
MW-10	07/21/2004	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	30.75	---	---	---
MW-10	07/29/2004	4,700	22	<5.0	5.5	<10	---	95	<50	<20	<20	<20	---	---	30.75	7.60	---	23.15
MW-10	10/20/2004	4,800	23	<5.0	<5.0	<10	---	110	---	---	---	---	---	---	30.75	7.90	---	22.85
MW-10	01/19/2005	1,200	1.1	<0.50	<0.50	<1.0	---	30	---	---	---	---	---	---	30.75	6.28	---	24.47
MW-10	04/20/2005	3,900	3.9	<0.50	2.7	<1.0	---	9.0	---	---	---	---	---	---	30.75	6.80	---	23.95
MW-10	07/20/2005	3,000	8.1	1.2	2.1	1.4	---	35	19	29	<2.0	<2.0	---	---	30.75	7.82	---	22.93
MW-10	10/19/2005	1,900	2.9	0.62	0.85	<1.0	---	39	---	---	---	---	---	---	30.75	8.30	---	22.45
MW-10	01/24/2006	6,110	0.710	<0.500	2.01	<0.500	---	20.1	---	---	---	---	---	---	30.75	6.47	---	24.28
MW-10	04/19/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	2.64	---	---	---	---	---	---	30.75	5.89	---	24.86
MW-10	07/19/2006	3,590	7.86	<0.500	0.780	<0.500	---	21.5	<10.0	<0.500	<0.500	<0.500	---	---	30.75	7.50	---	23.25
MW-10	10/18/2006	8,470	4.81	0.910	1.51	2.05	---	51.7	---	---	---	---	---	---	30.75	7.90	---	22.85
MW-10	01/17/2007	670	<0.50	<0.50	<0.50	<1.0	---	14	---	---	---	---	---	---	30.75	7.23	---	23.52

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-10	04/18/2007	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	30.75	---	---	---
MW-10	07/18/2007	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	30.75	---	---	---
MW-10	10/18/2007	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	30.75	---	---	---
MW-10	10/26/2007	2,400 h	0.17 i	0.32 i	0.66 i	<1.0	---	28	---	---	---	---	---	---	30.75	6.65	---	24.10
MW-10	01/16/2008	2,200 h	<0.50	<1.0	<1.0	<1.0	---	16	---	---	---	---	---	---	30.75	5.80	---	24.95
MW-10	04/16/2008	380	<0.50	<1.0	<1.0	<1.0	---	4.6	---	---	---	---	---	---	30.75	6.95	---	23.80
MW-10	07/16/2008	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	30.75	---	---	---
MW-10	10/15/2008	1,000	2.7	<1.0	1.4	<1.0	---	19	---	---	---	---	---	---	30.75	7.70	---	23.05
MW-10	01/21/2009	4,400	<0.50	<1.0	<1.0	<1.0	---	<1.0	---	---	---	---	---	---	30.75	6.19	---	24.56
MW-10	04/15/2009	3,000	<5.0	<10	<10	<10	---	<10	---	---	---	---	---	---	30.75	6.30	---	24.45
MW-10	10/21/2009	2,200	0.71	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	---	---	30.75	5.95	---	24.80
MW-10	04/21/2010	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	30.75	---	---	---
MW-10	10/20/2010	920	<0.50	<1.0	<1.0	<1.0	---	4.3	---	---	---	---	---	---	30.75	7.25	---	23.50
MW-10	**04/20/2011**	**1,900**	**<0.50**	**0.50**	**<0.50**	**<1.0**	**—**	**<1.0**	**—**	**—**	**—**	**—**	**—**	**—**	**30.75**	**6.70**	**—**	**24.05**
MW-11	10/23/1991	140	<12	<0.3	0.37	0.56	---	---	---	---	---	---	---	---	22.06	8.06	---	8.06
MW-11	01/28/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	22.06	8.74	---	3.32
MW-11	05/04/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	22.06	8.29	---	13.77
MW-11	07/13/1992	140	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	22.06	10.50	---	11.56
MW-11	10/12/1992	75	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	22.06	12.40	---	9.66
MW-11	01/12/1993	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	22.06	---	---	---
MW-11	04/06/1993	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	22.06	---	---	---
MW-11	07/12/1993	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	22.06	---	---	---
MW-11	10/13/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	22.06	11.47	---	10.59
MW-11	01/20/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	22.06	9.09	---	12.97
MW-11	04/13/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	22.06	8.02	---	14.04
MW-11	07/19/1994	50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	22.06	9.82	---	12.24
MW-11	10/27/1994	60*	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	22.06	11.66	---	10.40
MW-11	01/03/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	22.06	6.15	---	15.91
MW-11	04/13/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	22.06	6.00	---	16.06
MW-11	06/30/1995	70	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	22.06	8.31	---	13.75
MW-11	10/11/1995	60	53	<0.5	<0.5	0.80	3.0	---	---	---	---	---	---	---	22.06	10.30	---	11.76
MW-11	01/17/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	---	---	---	---	---	---	---	22.06	6.45	---	15.61
MW-11	04/10/1996	<50	<0.5	<0.5	<0.5	<0.5	3.9	---	---	---	---	---	---	---	22.06	6.05	---	16.01
MW-11	07/30/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	---	---	---	---	---	22.06	8.92	---	13.14
MW-11	10/17/1996	3,000	28	23	29	210	76	---	---	---	---	---	---	---	22.06	9.24	---	12.82
MW-11	01/22/1997	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	---	---	---	---	3.7	22.06	5.12	---	16.94

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-11	04/01/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	---	2.8	22.06	7.41	---	14.65
MW-11	07/14/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	---	1.9	22.06	9.74	---	12.32
MW-11	10/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	---	2.4	22.06	10.23	---	11.83
MW-11	01/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	---	3.2	22.06	3.69	---	18.37
MW-11	04/28/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	---	3.0	22.06	5.83	---	16.23
MW-11	09/30/1998	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	22.06	---	---	---
MW-11	12/09/1998	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	22.06	---	---	---
MW-11	01/18/1999	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	22.06	---	---	---
MW-11	04/12/1999	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	22.06	---	---	---
MW-11	04/26/1999	63	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	---	3.6	22.06	5.80	---	16.26
MW-11	07/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	6.02	---	---	---	---	---	---	2.0	22.06	8.30	---	13.76
MW-11	10/14/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	---	2.4	22.06	8.99	---	13.07
MW-11	01/06/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	---	2.9	22.06	9.93	---	12.13
MW-11	04/05/2000	<50.0	<0.500	<0.500	<0.500	<0.500	3.53	---	---	---	---	---	---	1.8	22.06	5.90	---	16.16
MW-11	07/20/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	---	1.7	22.06	6.13	---	15.93
MW-11	10/24/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	22.06	7.45	---	14.61
MW-11	01/19/2001	<50.0	<0.500	<0.500	<0.500	<0.500	4.29	---	---	---	---	---	---	1.6	32.99	5.95	---	27.04
MW-11	04/27/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	32.99	6.12	---	26.87
MW-11	07/26/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	2.1	32.99	7.65	---	25.34
MW-11	10/02/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	32.99	6.17	---	26.82
MW-11	01/15/2002	69	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	1.5	32.99	4.95	---	28.04
MW-11	04/17/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	32.99	6.35	---	26.64
MW-11	07/11/2002	58	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	2.3	32.99	7.47	---	25.52
MW-11	10/10/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	32.99	8.45	---	24.54
MW-11	01/21/2003	57	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	1.4	32.99	5.45	---	27.54
MW-11	05/02/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	32.99	5.14	---	27.85
MW-11	07/10/2003	<50	<0.50	<0.50	<0.50	<1.0	---	2.1	---	---	---	---	---	---	32.99	7.41	---	25.58
MW-11	10/28/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	32.99	7.78	---	25.21
MW-11	01/13/2004	56 d	<0.50	0.50	<0.50	<1.0	---	2.9	---	---	---	---	---	---	32.99	5.85	---	27.14
MW-11	04/01/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	32.99	6.02	---	26.97
MW-11	07/21/2004	<50	<0.50	<0.50	<0.50	<1.0	---	2.2	<5.0	<2.0	<2.0	<2.0	---	---	32.99	7.52	---	25.47
MW-11	10/20/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	32.99	7.20	---	25.79
MW-11	01/19/2005	<50	<0.50	<0.50	<0.50	<1.0	---	1.8	---	---	---	---	---	---	32.99	4.50	---	28.49
MW-11	04/20/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	32.99	5.09	---	27.90
MW-11	07/20/2005	53 f	<0.50	<0.50	<0.50	<1.0	---	2.9	<5.0	<2.0	<2.0	<2.0	---	---	32.99	7.31	---	25.68
MW-11	10/19/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	32.99	8.60	---	24.39
MW-11	01/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	1.38	---	---	---	---	---	---	32.99	4.38	---	28.61

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	Ethanol (µg/L)	DO Reading (ppm)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
MW-11	04/19/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	32.99	3.86	---	29.13
MW-11	07/19/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	2.22	<10.0	<0.500	<0.500	<0.500	---	---	32.99	7.07	---	25.92
MW-11	10/18/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	32.99	7.36	---	25.63
MW-11	01/17/2007	<50	<0.50	<0.50	<0.50	<1.0	---	0.92	---	---	---	---	---	---	32.99	6.34	---	26.65
MW-11	07/18/2007	<50 h	<0.50	<1.0	<1.0	<1.0	---	1.9	<10	<2.0	<2.0	<2.0	---	---	32.99	8.30	---	24.69
MW-11	01/16/2008	<50 h	<0.50	<1.0	<1.0	<1.0	---	1.6	<10	<2.0	<2.0	<2.0	---	---	32.99	5.39	---	27.60
MW-11	04/16/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	32.99	6.89	---	26.10
MW-11	07/16/2008	<50	<0.50	<1.0	<1.0	<1.0	---	1.5	<10	<2.0	<2.0	<2.0	---	---	32.99	8.31	---	24.68
MW-11	10/15/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	32.99	8.70	---	24.29
MW-11	01/21/2009	51	<0.50	<1.0	<1.0	<1.0	---	1.2	---	---	---	---	---	---	32.99	7.13	---	25.86
MW-11	04/15/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	32.99	5.89	---	27.10
MW-11	10/21/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	---	---	32.99	7.15	---	25.84
MW-11	04/21/2010	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	32.99	---	---	---
MW-11	10/20/2010	76	<0.50	<1.0	<1.0	<1.0	---	1.5	---	---	---	---	---	---	32.99	8.75	---	24.24
MW-11	**04/20/2011**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**—**	**1.3**	**—**	**—**	**—**	**—**	**—**	**—**	**32.99**	**5.16**	**—**	**27.83**

Notes:
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to April 27, 2001, analyzed by EPA Method 8015 unless otherwise noted.
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to April 27, 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
Ethanol analyzed by EPA Method 8260B
DO = Dissolved oxygen
TOC = Top of casing elevation, in feet relative to mean sea level
SPH = Separate-phase hydrocarbon
GW = Groundwater
µg/L = Micrograms per liter
ppm = Parts per million
MSL = Mean sea level
ft = Feet
<x = Not detected at reporting limit x
--- = Not applicable

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
3420 SAN PABLO AVENUE, OAKLAND, 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)	*Ethanol* (µg/L)	*DO Reading* *(ppm)*	*TOC* *(ft MSL)*	*Depth to Water* *(ft TOC)*	*SPH Thickness* *(ft)*	*GW Elevation* *(ft MSL)*

a = Chromatogram pattern indicates an unidentified hydrocarbon.
b = MTBE could not be quantified due to co-eluting compounds.
c = The highest recovery value for TPH has been reported, but this should be considered an estimate. Repeated analysis yielded inconsistent results.
d = Hydrocarbon does not match pattern of laboratory's standard.
e = SPH present in well measured at less than 0.01 feet. Visual inspection revealed the presence of distinct phases within the sample, indicating the possible presence of undissolved hydrocarbons.
f = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.
g = Secondary ion abundances were outside method requirements. Identification based on analytical judgment.
h = Analyzed by EPA Method 8015B (M).
i = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
* = Analyzed outside the EPA recommended holding time.

When SPHs are present, groundwater elevation is adjusted using the equation:
Corrected Groundwater Elevation = Top of Casing Elevation - Depth to water + (0.8 x Hydrocarbon Thickness).
Resurvey of wells was performed on August 28, 1998 by Virgil Chavez Land Surveying of Vallejo, CA..
All wells except MW-11 surveyed February 26, 2001 by Virgil Chavez Land Surveying of Vallejo, CA.

APPENDIX A

BLAINE TECH SERVICES, INC. – FIELD NOTES

WELL GAUGING DATA

Project # 110210-FS2 Date 2-10-11 Client SHELL

Site 3420 SAN PABLO AVE OAKLAND

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-6R	805	2	ODOR	—	—		7.30	—	TOC	

SHELL WELL MONITORING DATA SHEET

BTS #: 110210 - FS2	Site: 9899 5748
Sampler: FS	Date: 2-10-11
Well I.D.: MW-6R	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 7.30
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]:	

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: _____

_____(Gals.) X _____ = _____ 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
— ND SPH		DETECTED		W/ INTERFACE PROBE.		
— DEPLOYED		SPH SOCK,		DPW WEIGHT : 0.30 lbs		

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Test America Other_____

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

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 WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 3420 SAN PABLO AVE OAKLAND Date 2-10-11

Job Number 110210-FS2 Technician FR Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
MW-6R	✓	✓							

*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12"or less) 2) WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12"or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

Notes:

WELL GAUGING DATA

Project # 110420-BP2 Date 4/20/11 Client SHELL

Site 3420 San Pablo Ave Oakland

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or ~~TOC~~	Notes
MW-1	1304	4					3.90	24.50		
MW-2	1250	4					5.46	19.24		
MW-3R	1256	2					5.90	29.22		
MW-4	1300	4					6.70	19.30		
MW-5	1310	4					4.85	24.75		
MW-6R	1316	2					6.62	29.74		ABS. SOCK
MW-7	1240	4					3.19	19.48		
MW-9	1339	4					5.07	19.48		
MW-10	1400	4					6.70	18.80		
MW-11	1358	4					5.16	18.94		

SHELL WELL MONITORING DATA SHEET

BTS #: 110420-BP2	Site: 3420 San Pablo Ave Oakland
Sampler: BP	Date: 4/20/11
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 24.50	Depth to Water (DTW): 3.90
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]: 8.02	

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: _____

13.4 (Gals.) X 3 = 40.2 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
1450	64.6	7.1	374	53	13.5	
	Well Dewatered @				121.0	
1615	65.0	6.9	397	19	—	

Did well dewater? (Yes) No Gallons actually evacuated: 14.0

Sampling Date: 4/20/11 Sampling Time: 1615 Depth to Water: 3.90

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

SHELL WELL MONITORING DATA SHEET

BTS #: 110420-BP2	Site: 3420 San Pablo Ave Oakland
Sampler: BP	Date: 4/20/11
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.24	Depth to Water (DTW): 5.46
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]: 8.21	

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 Case Volume	Specified Volumes	Calculated Volume
9.0 (Gals.) X	3 =	27.0 Gals.

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
1510	63.7	6.58	920.5	27	9.0	ODOR
1511	Well Dewatered @ 12.4 Gals				12.4	DTW: 15.45
1715	63.6	6.65	1112	98	—	

Did well dewater? (Yes) No Gallons actually evacuated: 12.4

Sampling Date: 4/20/11 Sampling Time: 1715 Depth to Water: 5.47

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

SHELL WELL MONITORING DATA SHEET

BTS #: 110420-BP2	Site: 3420 San Pablo Ave Oakland
Sampler: BP	Date: 4/20/11
Well I.D.: MW-3R	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 29.22	Depth to Water (DTW): 5.90
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.56	

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: _____

3.7 (Gals.) X	3	=	11.1 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
1426	63.4	6.58	533.2	135	3.7	
1431	63.5	6.45	531.7	192	7.4	
1437	63.5	6.43	529.7	297	11.1	

Did well dewater? Yes (No) Gallons actually evacuated: 11.1

Sampling Date: 4/20/11 Sampling Time: 1440 Depth to Water: 9.19

Sample I.D.: MW-3R 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 #: 110420-BP2	Site: 3420 San Pablo Ave Oakland
Sampler: BP	Date: 4/20/11
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 19.30	Depth to Water (DTW): 6.70
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]: 9.22	

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"	(0.63)
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
1437	65.2	7.1	819	130	8.5	
well	Dewatered @				8.5	
1600	64.7	6.8	822	50	—	

Did well dewater? (Yes) No Gallons actually evacuated: 8.5

Sampling Date: 4/20/11 Sampling Time: 1600 Depth to Water: 7.00

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

SHELL WELL MONITORING DATA SHEET

BTS #: 110420-BP2	Site: 3420 San Pablo Ave Oakland
Sampler: BP	Date: 4/20/11
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 24.75	Depth to Water (DTW): 4.85
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]: 8.83	

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 Case Volume	Specified Volumes	Calculated Volume
13.0 (Gals.) X	3 =	39.0 Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1500	64.6	7.0	515	39	13.0	
well Dewatered @					15.0	
1630	65.1	6.9	2180	21	—	

Did well dewater? (Yes) No Gallons actually evacuated: 15.0

Sampling Date: 4/20/11 Sampling Time: 1630 Depth to Water: 8.80

Sample I.D.: MW-5 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 #: 110420-BP2	Site: 98995748
Sampler: BP	Date: 4/20/11
Well I.D.: MW-6R	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 29.74	Depth to Water (DTW): 6.62
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]: —	

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: ____

____(Gals.) X ____ = ____ 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
	-NO	SPH	Detected	w/ Interface Probe		
	- Removed	old SPH	SOCK	(WET WEIGHT =	0.6 lbs)	
	- Deployed	new SPH	SOCK	(DRY WEIGHT =	0.3 lbs)	

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

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Test America Other ____

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

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 #: 110420-BP2	Site: 3420 San Pablo Ave Oakland
Sampler: BP	Date: 4/20/11
Well I.D.: MW-6R	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 29.74	Depth to Water (DTW): 6.62
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]: 11.24	

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

Sampling Method: ~~Bailer~~ (BP) / (Disposable Bailer) / Extraction Port / Dedicated Tubing / Other: _____

3.7 (Gals.) X 3 = 11.1 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
1530	64.0	6.56	1029	470	3.7	light sheen odor
1536	64.6	6.55	1028	689	7.4	odor
1542	64.7	6.59	1025	71000	11.1	odor

Did well dewater? Yes (No) Gallons actually evacuated: 11.1

Sampling Date: 4/20/11 Sampling Time: 1545 Depth to Water: 10.42

Sample I.D.: MW-6R 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 #: 110420-BP2	Site: 3420 San Pablo Ave Oakland
Sampler: BP	Date: 4/20/11
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.48	Depth to Water (DTW): 3.19
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]: 6.44	

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: _____

10.6 (Gals.) X	3	= 31.8 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
1456	62.8	6.76	629.4	58	10.6	ODOR
1457	Well Dewatered @ 17.4 Gals				17.4	DTW: 17.44
1700	63.6	7.17	683.2	483	—	light sheen ODOR

Did well dewater? (Yes) No Gallons actually evacuated: 17.4

Sampling Date: 4/20/11 Sampling Time: 1700 Depth to Water: 15.02 (24hr)

Sample I.D.: MW-7 Laboratory: (Test America) Other_____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 110420-BP2	Site: 3420 San Pablo Ave Oakland
Sampler: BP	Date: 4/20/11
Well I.D.: MW-9	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.48	Depth to Water (DTW): 5.07
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]: 7.95	

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: _____

9.4 (Gals.) X	3	=	28.2 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
1343	66.6	6.42	461.2	307	9.4	blackish
1344	Well Dewatered @		15.8 Gals		15.8	DTW: 17.91
1605	65.8	6.59	481.1	901		

Did well dewater? (Yes) No Gallons actually evacuated: 15.8

Sampling Date: 4/20/11 Sampling Time: 1605 Depth to Water: 15.05 (2hr)

Sample I.D.: MW-9 Laboratory: (Test America) Other_____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 110420-BP2	Site: 3420 San Pablo Ave Oakland
Sampler: BP	Date: 4/20/11
Well I.D.: MW-10	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 18.80	Depth to Water (DTW): 6.70
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]: 9.12	

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: _____

8.6 (Gals.) X	3	= 25.6 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
1410	64.7	7.1	858	24	9.0	
	Well Dewatered @				9.5 gal.	
1550	64.3	7.2	759	11	—	

Did well dewater? (Yes) No Gallons actually evacuated: 9.5

Sampling Date: 4/20/11 Sampling Time: 1550 Depth to Water: 7.90

Sample I.D.: MW-10 Laboratory: (Test America) Other_____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 110420-BP2	Site: 3420 San Pablo Ave Oakland
Sampler: BP	Date: 4/20/11
Well I.D.: MW-11	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 18.94	Depth to Water (DTW): 5.16
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]: 7.91	

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: _____

9.0 (Gals.) X	3	= 27.0 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1401	64.4	6.61	1326	146	9.0	
1403	well	Dewatered @	15.1 Gals	15.1		DTW: 16.62
1625	63.8	6.69	1175	291	—	

Did well dewater? (Yes) No Gallons actually evacuated: 15.1

Sampling Date: 4/20/11 Sampling Time: 1625 Depth to Water: 8.97 (ZAI)

Sample I.D.: MW-11 Laboratory: (Test America) Other_____

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

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

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

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

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 3420 San Pablo Ave Oakland Date 4/20/11

Job Number 110420-BP2 Technician B Parnell Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
MW-1	X	X							
MW-2	X	X							
MW-3R	X	X							
MW-4	X	X							
MW-5	X	X							
MW-6R	X	X							
MW-7	X	X							
MW-9							X		1/2 tabs stripped, no tag
MW-10	X	X							
MW-11	X		X				X		1/2 tabs stripped

*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12"or less) 2) WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12"or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

Notes:

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: 3420 San Pablo Ave., Oakland, CA

Sampled: 04/20/11
Received: 04/22/11
Issued: 05/06/11 08:57

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

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IUD2303-01	MW-1	Water
IUD2303-02	MW-2	Water
IUD2303-03	MW-3R	Water
IUD2303-04	MW-4	Water
IUD2303-05	MW-5	Water
IUD2303-06	MW-7	Water
IUD2303-07	MW-9	Water
IUD2303-08	MW-10	Water
IUD2303-09	MW-11	Water
IUD2303-10	MW-6R	Water

Reviewed By:

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: 3420 San Pablo Ave., Oakland, CA

Report Number: IUD2303

Sampled: 04/20/11
Received: 04/22/11

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: IUD2303-01 (MW-1 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11D3903	50	**1100**	1	4/30/2011	5/1/2011	
Surrogate: Dibromofluoromethane (80-120%)				*106 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*97 %*				
Sample ID: IUD2303-02 (MW-2 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11D3903	1200	**17000**	25	4/30/2011	5/1/2011	
Surrogate: Dibromofluoromethane (80-120%)				*104 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				
Sample ID: IUD2303-03 (MW-3R - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11D3903	50	ND	1	4/30/2011	5/1/2011	
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*91 %*				
Sample ID: IUD2303-04 (MW-4 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11D3903	50	**820**	1	4/30/2011	5/1/2011	
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				
Sample ID: IUD2303-05 (MW-5 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0053	50	**2000**	1	5/2/2011	5/2/2011	
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*95 %*				
Sample ID: IUD2303-06 (MW-7 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0050	250	**7500**	5	5/2/2011	5/3/2011	
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				

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: 3420 San Pablo Ave., Oakland, CA
Report Number: IUD2303

Sampled: 04/20/11
Received: 04/22/11

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: IUD2303-07 (MW-9 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0053	50	ND	1	5/2/2011	5/2/2011	
Surrogate: Dibromofluoromethane (80-120%)				*96 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*92 %*				
Sample ID: IUD2303-08 (MW-10 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0053	50	**1900**	1	5/2/2011	5/2/2011	
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*97 %*				
Sample ID: IUD2303-09 (MW-11 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0053	50	ND	1	5/2/2011	5/2/2011	
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				
Sample ID: IUD2303-10 (MW-6R - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E0053	1200	**22000**	25	5/2/2011	5/2/2011	
Surrogate: Dibromofluoromethane (80-120%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				

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San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 3420 San Pablo Ave., Oakland, CA
Report Number: IUD2303

Sampled: 04/20/11
Received: 04/22/11

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: IUD2303-01 (MW-1 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11D3903	0.50	**3.1**	1	4/30/2011	5/1/2011	
Ethylbenzene	EPA 8260B	11D3903	0.50	**1.1**	1	4/30/2011	5/1/2011	
Toluene	EPA 8260B	11D3903	0.50	ND	1	4/30/2011	5/1/2011	
Xylenes, Total	EPA 8260B	11D3903	1.0	ND	1	4/30/2011	5/1/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11D3903	1.0	**3.1**	1	4/30/2011	5/1/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*97 %*				
Surrogate: Dibromofluoromethane (80-120%)				*106 %*				
Surrogate: Toluene-d8 (80-120%)				*107 %*				
Sample ID: IUD2303-02 (MW-2 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11D3903	12	**1400**	25	4/30/2011	5/1/2011	
Ethylbenzene	EPA 8260B	11D3903	12	**460**	25	4/30/2011	5/1/2011	
Toluene	EPA 8260B	11D3903	12	ND	25	4/30/2011	5/1/2011	
Xylenes, Total	EPA 8260B	11D3903	25	**76**	25	4/30/2011	5/1/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11D3903	25	**82**	25	4/30/2011	5/1/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				
Surrogate: Dibromofluoromethane (80-120%)				*104 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Sample ID: IUD2303-03 (MW-3R - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11D3903	0.50	ND	1	4/30/2011	5/1/2011	
Ethylbenzene	EPA 8260B	11D3903	0.50	ND	1	4/30/2011	5/1/2011	
Toluene	EPA 8260B	11D3903	0.50	ND	1	4/30/2011	5/1/2011	
Xylenes, Total	EPA 8260B	11D3903	1.0	ND	1	4/30/2011	5/1/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11D3903	1.0	ND	1	4/30/2011	5/1/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*91 %*				
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				

TestAmerica Irvine

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1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 3420 San Pablo Ave., Oakland, CA
Report Number: IUD2303

Sampled: 04/20/11
Received: 04/22/11

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: IUD2303-04 (MW-4 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11D3903	0.50	ND	1	4/30/2011	5/1/2011	
Ethylbenzene	EPA 8260B	11D3903	0.50	ND	1	4/30/2011	5/1/2011	
Toluene	EPA 8260B	11D3903	0.50	ND	1	4/30/2011	5/1/2011	
Xylenes, Total	EPA 8260B	11D3903	1.0	ND	1	4/30/2011	5/1/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11D3903	1.0	**31**	1	4/30/2011	5/1/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Sample ID: IUD2303-05 (MW-5 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0053	0.50	ND	1	5/2/2011	5/2/2011	
Ethylbenzene	EPA 8260B	11E0053	0.50	ND	1	5/2/2011	5/2/2011	
Toluene	EPA 8260B	11E0053	0.50	ND	1	5/2/2011	5/2/2011	
Xylenes, Total	EPA 8260B	11E0053	1.0	ND	1	5/2/2011	5/2/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E0053	1.0	**9.6**	1	5/2/2011	5/2/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*95 %*				
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Sample ID: IUD2303-06 (MW-7 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0050	2.5	ND	5	5/2/2011	5/3/2011	
Ethylbenzene	EPA 8260B	11E0050	2.5	ND	5	5/2/2011	5/3/2011	
Toluene	EPA 8260B	11E0050	2.5	ND	5	5/2/2011	5/3/2011	
Xylenes, Total	EPA 8260B	11E0050	5.0	ND	5	5/2/2011	5/3/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E0050	5.0	ND	5	5/2/2011	5/3/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				

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1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 3420 San Pablo Ave., Oakland, CA
Report Number: IUD2303

Sampled: 04/20/11
Received: 04/22/11

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: IUD2303-07 (MW-9 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0053	0.50	ND	1	5/2/2011	5/2/2011	
Ethylbenzene	EPA 8260B	11E0053	0.50	ND	1	5/2/2011	5/2/2011	
Toluene	EPA 8260B	11E0053	0.50	ND	1	5/2/2011	5/2/2011	
Xylenes, Total	EPA 8260B	11E0053	1.0	ND	1	5/2/2011	5/2/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E0053	1.0	**1.3**	1	5/2/2011	5/2/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*92 %*				
Surrogate: Dibromofluoromethane (80-120%)				*96 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Sample ID: IUD2303-08 (MW-10 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0053	0.50	ND	1	5/2/2011	5/2/2011	
Ethylbenzene	EPA 8260B	11E0053	0.50	ND	1	5/2/2011	5/2/2011	
Toluene	EPA 8260B	11E0053	0.50	**0.50**	1	5/2/2011	5/2/2011	
Xylenes, Total	EPA 8260B	11E0053	1.0	ND	1	5/2/2011	5/2/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E0053	1.0	ND	1	5/2/2011	5/2/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*97 %*				
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Sample ID: IUD2303-09 (MW-11 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0053	0.50	ND	1	5/2/2011	5/2/2011	
Ethylbenzene	EPA 8260B	11E0053	0.50	ND	1	5/2/2011	5/2/2011	
Toluene	EPA 8260B	11E0053	0.50	ND	1	5/2/2011	5/2/2011	
Xylenes, Total	EPA 8260B	11E0053	1.0	ND	1	5/2/2011	5/2/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E0053	1.0	**1.3**	1	5/2/2011	5/2/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				

TestAmerica Irvine

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

Project ID: 3420 San Pablo Ave., Oakland, CA

Report Number: IUD2303

Sampled: 04/20/11
Received: 04/22/11

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: IUD2303-10 (MW-6R - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E0053	12	**810**	25	5/2/2011	5/2/2011	
Ethylbenzene	EPA 8260B	11E0053	12	**670**	25	5/2/2011	5/2/2011	
Toluene	EPA 8260B	11E0053	12	ND	25	5/2/2011	5/2/2011	
Xylenes, Total	EPA 8260B	11E0053	25	**170**	25	5/2/2011	5/2/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E0053	25	**92**	25	5/2/2011	5/2/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				
Surrogate: Dibromofluoromethane (80-120%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				

TestAmerica Irvine

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

Project ID: 3420 San Pablo Ave., Oakland, CA

Report Number: IUD2303

Sampled: 04/20/11
Received: 04/22/11

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D3903 Extracted: 04/30/11										
Blank Analyzed: 04/30/2011 (11D3903-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.0*		*ug/l*	*25.0*		*92*	*80-120*			
LCS Analyzed: 04/30/2011 (11D3903-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	601	50	ug/l	500		120	55-130			
Surrogate: Dibromofluoromethane	*23.8*		*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.5*		*ug/l*	*25.0*		*94*	*80-120*			
Matrix Spike Analyzed: 04/30/2011 (11D3903-MS1)					**Source: IUD2414-01**					
Volatile Fuel Hydrocarbons (C4-C12)	1130	50	ug/l	1720	ND	65	50-145			
Surrogate: Dibromofluoromethane	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*		*ug/l*	*25.0*		*95*	*80-120*			
Matrix Spike Dup Analyzed: 04/30/2011 (11D3903-MSD1)					**Source: IUD2414-01**					
Volatile Fuel Hydrocarbons (C4-C12)	1060	50	ug/l	1720	ND	62	50-145	6	20	
Surrogate: Dibromofluoromethane	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.7*		*ug/l*	*25.0*		*95*	*80-120*			
Batch: 11E0050 Extracted: 05/02/11										
Blank Analyzed: 05/02/2011 (11E0050-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.7*		*ug/l*	*25.0*		*95*	*80-120*			

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Report Number: IUD2303

Sampled: 04/20/11
Received: 04/22/11

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0050 Extracted: 05/02/11										
LCS Analyzed: 05/02/2011 (11E0050-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	563	50	ug/l	500		113	55-130			
Surrogate: Dibromofluoromethane	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*		*ug/l*	*25.0*		*95*	*80-120*			
Matrix Spike Analyzed: 05/02/2011 (11E0050-MS1)					**Source: IUD2196-01**					
Volatile Fuel Hydrocarbons (C4-C12)	1180	50	ug/l	1720	ND	68	50-145			
Surrogate: Dibromofluoromethane	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.3*		*ug/l*	*25.0*		*93*	*80-120*			
Matrix Spike Dup Analyzed: 05/02/2011 (11E0050-MSD1)					**Source: IUD2196-01**					
Volatile Fuel Hydrocarbons (C4-C12)	1010	50	ug/l	1720	ND	59	50-145	15	20	
Surrogate: Dibromofluoromethane	*24.9*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.0*		*ug/l*	*25.0*		*92*	*80-120*			
Batch: 11E0053 Extracted: 05/02/11										
Blank Analyzed: 05/02/2011 (11E0053-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
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	*22.2*		*ug/l*	*25.0*		*89*	*80-120*			
LCS Analyzed: 05/02/2011 (11E0053-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	604	50	ug/l	500		121	55-130			
Surrogate: Dibromofluoromethane	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.4*		*ug/l*	*25.0*		*94*	*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: 11E0053 Extracted: 05/02/11										
Matrix Spike Analyzed: 05/02/2011 (11E0053-MS1)					**Source: IUD2303-07**					
Volatile Fuel Hydrocarbons (C4-C12)	1210	50	ug/l	1720	47.4	67	50-145			
Surrogate: Dibromofluoromethane	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*26.4*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Matrix Spike Dup Analyzed: 05/02/2011 (11E0053-MSD1)					**Source: IUD2303-07**					
Volatile Fuel Hydrocarbons (C4-C12)	1220	50	ug/l	1720	47.4	68	50-145	0.8	20	
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	*24.0*		*ug/l*	*25.0*		*96*	*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: 11D3903 Extracted: 04/30/11										
Blank Analyzed: 04/30/2011 (11D3903-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							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Surrogate: 4-Bromofluorobenzene	*23.0*		*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Dibromofluoromethane	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
LCS Analyzed: 04/30/2011 (11D3903-BS1)										
Benzene	21.6	0.50	ug/l	25.0		86	70-120			
Ethylbenzene	22.4	0.50	ug/l	25.0		89	75-125			
Toluene	22.7	0.50	ug/l	25.0		91	70-120			
m,p-Xylenes	43.7	1.0	ug/l	50.0		87	75-125			
o-Xylene	22.6	0.50	ug/l	25.0		91	75-125			
Xylenes, Total	66.4	1.0	ug/l	75.0		88	70-125			
Methyl-tert-butyl Ether (MTBE)	18.8	1.0	ug/l	25.0		75	60-135			
Surrogate: 4-Bromofluorobenzene	*23.3*		*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Dibromofluoromethane	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			
Matrix Spike Analyzed: 04/30/2011 (11D3903-MS1)					**Source: IUD2414-01**					
Benzene	23.6	0.50	ug/l	25.0	ND	94	65-125			
Ethylbenzene	24.3	0.50	ug/l	25.0	ND	97	65-130			
Toluene	24.7	0.50	ug/l	25.0	ND	99	70-125			
m,p-Xylenes	47.8	1.0	ug/l	50.0	0.710	94	65-130			
o-Xylene	24.8	0.50	ug/l	25.0	ND	99	65-125			
Xylenes, Total	72.5	1.0	ug/l	75.0	0.970	95	60-130			
Methyl-tert-butyl Ether (MTBE)	19.9	1.0	ug/l	25.0	ND	80	55-145			
Surrogate: 4-Bromofluorobenzene	*23.8*		*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Dibromofluoromethane	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*26.2*		*ug/l*	*25.0*		*105*	*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: 11D3903 Extracted: 04/30/11										
Matrix Spike Dup Analyzed: 04/30/2011 (11D3903-MSD1)					**Source: IUD2414-01**					
Benzene	22.2	0.50	ug/l	25.0	ND	89	65-125	6	20	
Ethylbenzene	23.1	0.50	ug/l	25.0	ND	92	65-130	5	20	
Toluene	23.6	0.50	ug/l	25.0	ND	94	70-125	5	20	
m,p-Xylenes	45.8	1.0	ug/l	50.0	0.710	90	65-130	4	25	
o-Xylene	23.5	0.50	ug/l	25.0	ND	94	65-125	5	20	
Xylenes, Total	69.3	1.0	ug/l	75.0	0.970	91	60-130	5	20	
Methyl-tert-butyl Ether (MTBE)	19.6	1.0	ug/l	25.0	ND	78	55-145	2	25	
Surrogate: 4-Bromofluorobenzene	*23.7*		*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Dibromofluoromethane	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Batch: 11E0050 Extracted: 05/02/11										
Blank Analyzed: 05/02/2011 (11E0050-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							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Surrogate: 4-Bromofluorobenzene	*23.7*		*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Dibromofluoromethane	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
LCS Analyzed: 05/02/2011 (11E0050-BS1)										
Benzene	22.6	0.50	ug/l	25.0		90	70-120			
Ethylbenzene	22.7	0.50	ug/l	25.0		91	75-125			
Toluene	23.5	0.50	ug/l	25.0		94	70-120			
m,p-Xylenes	45.6	1.0	ug/l	50.0		91	75-125			
o-Xylene	23.5	0.50	ug/l	25.0		94	75-125			
Xylenes, Total	69.1	1.0	ug/l	75.0		92	70-125			
Methyl-tert-butyl Ether (MTBE)	20.2	1.0	ug/l	25.0		81	60-135			
Surrogate: 4-Bromofluorobenzene	*23.3*		*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Dibromofluoromethane	*24.9*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*25.8*		*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: 11E0050 Extracted: 05/02/11										
Matrix Spike Analyzed: 05/02/2011 (11E0050-MS1)					**Source: IUD2196-01**					
Benzene	24.6	0.50	ug/l	25.0	ND	98	65-125			
Ethylbenzene	25.0	0.50	ug/l	25.0	ND	100	65-130			
Toluene	25.5	0.50	ug/l	25.0	ND	102	70-125			
m,p-Xylenes	49.2	1.0	ug/l	50.0	ND	98	65-130			
o-Xylene	25.2	0.50	ug/l	25.0	ND	101	65-125			
Xylenes, Total	74.4	1.0	ug/l	75.0	ND	99	60-130			
Methyl-tert-butyl Ether (MTBE)	24.3	1.0	ug/l	25.0	3.16	85	55-145			
Surrogate: 4-Bromofluorobenzene	*23.3*		*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Dibromofluoromethane	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Matrix Spike Dup Analyzed: 05/02/2011 (11E0050-MSD1)					**Source: IUD2196-01**					
Benzene	21.6	0.50	ug/l	25.0	ND	86	65-125	13	20	
Ethylbenzene	21.6	0.50	ug/l	25.0	ND	86	65-130	15	20	
Toluene	22.4	0.50	ug/l	25.0	ND	89	70-125	13	20	
m,p-Xylenes	42.8	1.0	ug/l	50.0	ND	86	65-130	14	25	
o-Xylene	22.1	0.50	ug/l	25.0	ND	88	65-125	13	20	
Xylenes, Total	64.9	1.0	ug/l	75.0	ND	86	60-130	14	20	
Methyl-tert-butyl Ether (MTBE)	21.5	1.0	ug/l	25.0	3.16	74	55-145	12	25	
Surrogate: 4-Bromofluorobenzene	*23.0*		*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Dibromofluoromethane	*24.9*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Batch: 11E0053 Extracted: 05/02/11										
Blank Analyzed: 05/02/2011 (11E0053-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							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Surrogate: 4-Bromofluorobenzene	*22.2*		*ug/l*	*25.0*		*89*	*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*			

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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: 11E0053 Extracted: 05/02/11										
LCS Analyzed: 05/02/2011 (11E0053-BS1)										
Benzene	25.9	0.50	ug/l	25.0		103	70-120			
Ethylbenzene	26.4	0.50	ug/l	25.0		105	75-125			
Toluene	27.4	0.50	ug/l	25.0		110	70-120			
m,p-Xylenes	52.4	1.0	ug/l	50.0		105	75-125			
o-Xylene	27.0	0.50	ug/l	25.0		108	75-125			
Xylenes, Total	79.5	1.0	ug/l	75.0		106	70-125			
Methyl-tert-butyl Ether (MTBE)	20.4	1.0	ug/l	25.0		81	60-135			
Surrogate: 4-Bromofluorobenzene	*23.3*		*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Dibromofluoromethane	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Matrix Spike Analyzed: 05/02/2011 (11E0053-MS1)					**Source: IUD2303-07**					
Benzene	24.0	0.50	ug/l	25.0	ND	96	65-125			
Ethylbenzene	25.0	0.50	ug/l	25.0	ND	100	65-130			
Toluene	25.6	0.50	ug/l	25.0	ND	103	70-125			
m,p-Xylenes	49.7	1.0	ug/l	50.0	ND	99	65-130			
o-Xylene	25.1	0.50	ug/l	25.0	ND	100	65-125			
Xylenes, Total	74.8	1.0	ug/l	75.0	ND	100	60-130			
Methyl-tert-butyl Ether (MTBE)	21.8	1.0	ug/l	25.0	1.32	82	55-145			
Surrogate: 4-Bromofluorobenzene	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Dibromofluoromethane	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*26.4*		*ug/l*	*25.0*		*106*	*80-120*			
Matrix Spike Dup Analyzed: 05/02/2011 (11E0053-MSD1)					**Source: IUD2303-07**					
Benzene	24.5	0.50	ug/l	25.0	ND	98	65-125	2	20	
Ethylbenzene	25.1	0.50	ug/l	25.0	ND	100	65-130	0.2	20	
Toluene	25.6	0.50	ug/l	25.0	ND	102	70-125	0.08	20	
m,p-Xylenes	50.0	1.0	ug/l	50.0	ND	100	65-130	0.6	25	
o-Xylene	25.6	0.50	ug/l	25.0	ND	102	65-125	2	20	
Xylenes, Total	75.6	1.0	ug/l	75.0	ND	101	60-130	1	20	
Methyl-tert-butyl Ether (MTBE)	22.6	1.0	ug/l	25.0	1.32	85	55-145	4	25	
Surrogate: 4-Bromofluorobenzene	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Dibromofluoromethane	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			

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Received: 04/22/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

ADDITIONAL COMMENTS

For Volatile Fuel Hydrocarbons (C4-C12):

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

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: 3420 San Pablo Ave., Oakland, CA

Report Number: IUD2303

Sampled: 04/20/11
Received: 04/22/11

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 (_____)
- ☐ 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: Peter Schaefer 240554

PO # 40-40347373

INCIDENT # (ENV SERVICES): 98997574 ☐ CHECK IF NO INCIDENT # APPLIES

SAP #

DATE: 4/20/11

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

ADDRESS: 1680 Rogers Avenue, San Jose, CA

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

TELEPHONE: 310-995-4455 x 108

FAX: 310-637-5802

E-MAIL: lking@blainetech.com

SITE ADDRESS: Street and City: 3420 San Pablo Ave., Oakland

State: CA

GLOBAL ID NO.: T0600101253

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

PHONE NO.: 510-420-3343

E-MAIL: shelledf@craworld.com

CONSULTANT PROJECT NO.: 110420-BP2

SAMPLER NAME(S) (Print):CO: B. Parnell

LAB USE ONLY: TU07303

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 :

Email invoice and copy of final report to Shell.Lab.Billing@craworld.com

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (8015M)	TPHg (8015M)	BTEX (5260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound:_____(8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes
	MW-1	4-20-11	1615	W	X					3	X				X									0.5C	
	MW-2		1715	W	X					3	X				X										
	MW-3R		1440	W	X					3	X				X										
	MW-4		1600	W	X					3	X				X										
	MW-5		1630	W	X					3	X				X										
	MW-7		1700	W	X					3	X				X										
	MW-9		1605	W	X					3	X				X										
	MW-10		1550	W	X					3	X				X										
	MW-11		1625	W	X					3	X				X										
	MW-6R		1545	W	X					3	X				X										

Relinquished by: (Signature) B Dell — Received by: (Signature) B Dell (sample custodian) — Date: 4/20/11 — Time: 1850

Relinquished by: (Signature) — Received by: (Signature) (FTASF) — Date: 4/21/11 — Time: 1630

Relinquished by: (Signature) 4-21-11 1802 — Received by: (Signature) — Date: 04/22/11 — Time: 11:00

05/2/08 Revision

#22 April

(5)