Shell Oil Products US
DS Soil & Groundwater Focus Delivery Group
20945 S. Wilmington Avenue
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Ms. Dilan Roe
Alameda County Environmental Health
1131 Harbor Parkway, Suite 250
Alameda, CA 94502-6577

RE: 4255 MacAurther Boulevard, Oakland, California
PlaNet Site ID 10059253
PlaNet Project ID 38573
ACEH Case No. RO0000486

Dear Ms. Roe:

I am informed and believe that, based on a reasonably diligent inquiry undertaken by AECOM on behalf of Equilon Enterprises LLC dba Shell Oil Products US, the information and/or recommendations contained in the attached document is true, and on that ground I declare under penalty of perjury in accordance with Water Code section 13267 that this statement is true and correct.

As always, please feel free to contact me directly at (714) 731-1050 with any questions or concerns.

Sincerely,
Shell Oil Products US

Andrea A. Wing
Principal Program Manager

AECOM
1333 Broadway
Suite 800
Oakland, CA 94612
www.aecom.com

510 893 3600 tel
510 874 3268 fax

April 15, 2016

Dilan Roe
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Re: First Semiannual 2016 Groundwater Monitoring Report
Former Shell Service Station
4255 MacArthur Boulevard, Oakland, California
Shell PlaNet Site ID: 10059253
Shell PlaNet Project ID: 38573
Agency No. RO0000486

Dear Ms. Roe:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, AECOM Technical Services, Inc. is pleased to submit this report for groundwater monitoring performed during the first quarter of 2016 at the Former Shell Service Station at 4255 MacArthur Boulevard in Oakland, California.

If you have any questions regarding this submittal, please contact Sara Heikilla at 213-996-2285 or Sara.Heikkila@aecom.com.

Sincerely,

Sara Heikkila
Project Manager

Aubrey Cool, P.G.
Portfolio Manager

Enclosures: Groundwater Monitoring Report

cc: Andrea Wing, Shell Oil Products US
(electronic copy)

Ellen Tam (property owner's agent)
Phua Management (electronic copy)

Kenneth Williams
MacArthur/High Trailer Park

Ed C. Ralston, Phillips 66
Remediation Management (electronic copy)

AECOM

First Semiannual 2016 Groundwater Monitoring Report

Former Shell Service Station
4255 MacArthur Boulevard
Oakland, California

April 2016

AECOM

First Semiannual 2016 Groundwater Monitoring Report

Former Shell Service Station
4255 MacArthur Boulevard
Oakland, California

PlaNet Site ID 10059253
PlaNet Project ID 38573
Agency No. RO0000486

Submitted to:

Dilan Roe
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Submitted by:

AECOM Technical Services, Inc.
1333 Broadway, Suite 800
Oakland, California 94612

On Behalf of

Shell Oil Products US

April 15, 2016

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1 Introduction

AECOM Technical Services, Inc. (AECOM) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell).

1.1 Site Information

Site Name:	Former Shell Service Station (the Site)
Site Address:	4255 MacArthur Boulevard, Oakland, California
Shell Environmental Services Program Manager:	Andrea Wing
Consulting Company / Contact Person:	AECOM / Sara Heikkila
Primary Agencies:	Alameda County Environmental Health

1.2 Site Summary

Frequency of Groundwater Monitoring:	Semiannual
Wells Water Level Gauged:	9
Wells Sampled:	8
Is There Any Separate-Phase Hydrocarbon (SPH) Present in Site Monitoring Wells:	Yes, well MW-2, located just off site
Current Remediation Activity:	None, pending site redevelopment plans

2 Site Activities

2.1 Current Activities

On January 20, 2016, Blaine Tech Services, Inc. (Blaine Tech) of San Jose, California gauged and sampled all accessible wells according to the established monitoring program for this site. This was a coordinated groundwater sampling event with the adjacent 76 Station No.1156 located at 4276 MacArthur Boulevard in Oakland, California. Wells MW-2 and MW-7 were inaccessible during this sampling event. Blaine Tech returned to the site and gauged and sampled MW-2 and MW-7 on February 22, 2016. TestAmerica Laboratories, Inc. of Irvine, California, a certified California laboratory, completed the analyses of the groundwater samples.

AECOM prepared a site vicinity map (Figure 1), a groundwater contour and chemical concentration map (Figure 2), a groundwater data table (Table 1), and a SPH removal data table (Table 2). Blaine Tech's field notes are presented in Appendix A, the laboratory reports are presented in Appendix B, and coordinated sample data for 76 Service Station No. 1156 are available in Appendix C.

Approximately 0.04 of a foot of SPHs was measured in well MW-2 during the February 22, 2016 event. No SPHs were detected in any other site wells. Approximately 1.72 pounds of SPHs were removed by absorbent socks during the first quarter 2016. Historical SPH removal data are presented in Table 2, and a summary of SPH removal is provided below:

SPH Removal Summary	
This Period (pounds)	**Cumulative Removal (pounds)**
1.72	56.91

2.2 Current Findings

Groundwater Elevation:	158.33 to 170.47 in feet above mean sea level
Groundwater Gradient (direction):	Southwest
Groundwater Gradient (magnitude):	Averages 0.046 feet per foot

2.3 Proposed Activities

Blaine Tech will gauge and sample wells according to the established monitoring program for this site. This site is monitored semiannually during the first and third quarters, and AECOM will issue groundwater monitoring reports semiannually following the sampling events. Blaine Tech will coordinate sampling events with 76 Station No. 1156.

Blaine Tech will replace SPH absorbent socks in wells MW-2, MW-3, and MW-4 if SPHs are observed during future sampling events.

3 Conclusions and Recommendations

Approximately 1.72 pounds of SPHs were removed from well MW-2. No SPHs were detected in any other site wells during this monitoring event.

Petroleum constituents were detected in several wells sampled during this semiannual event including:

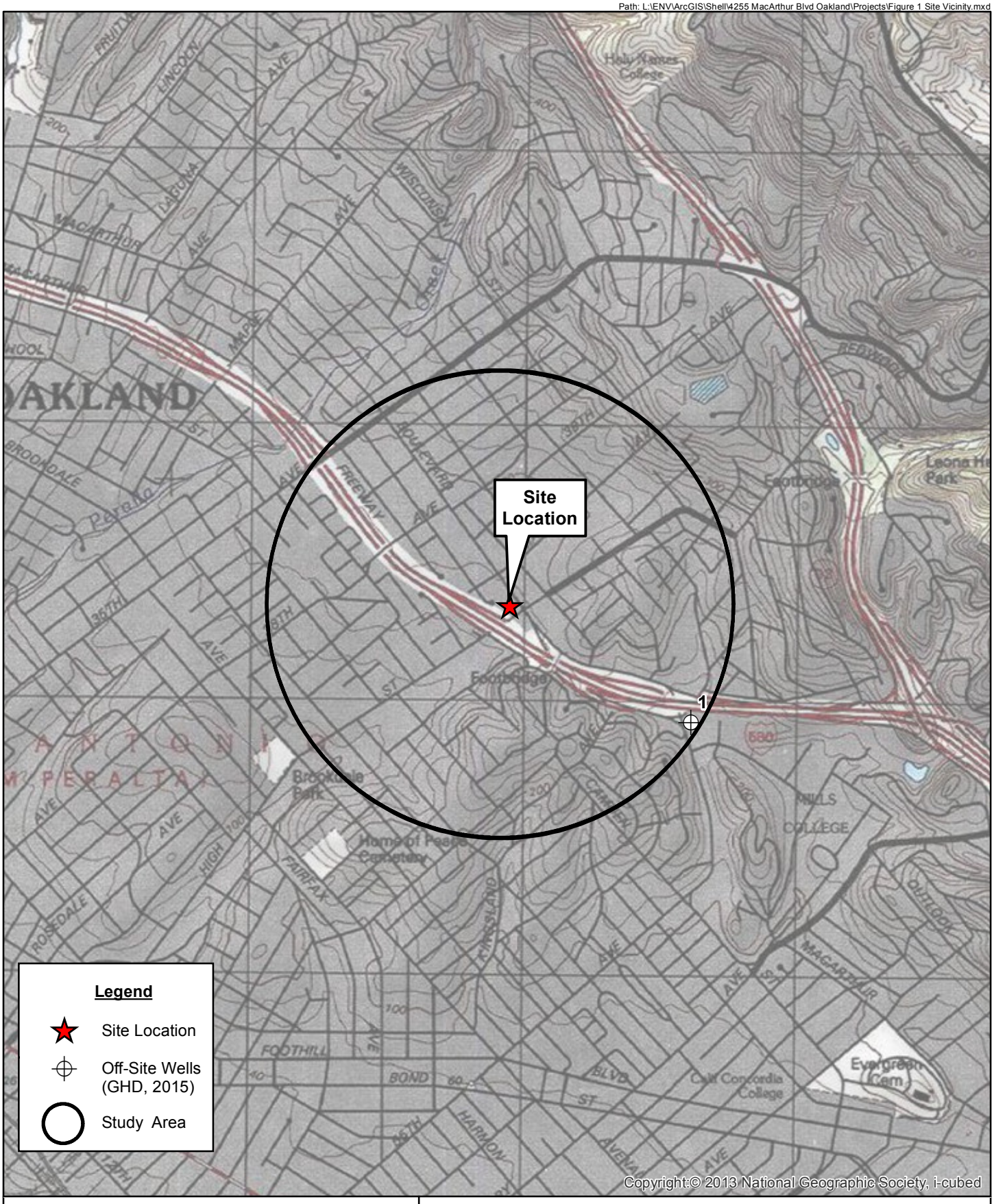
- Total petroleum hydrocarbons as gasoline (TPHg) was detected in seven wells at concentrations ranging from 120 micrograms per liter (µg/L) (MW-8) to 21,000 µg/L (MW-3). The laboratory noted that the TPHg reported for wells MW-1, MW-8, and MW-9 was due to a discrete peak of methyl tertiary-butyl ether (MTBE).
- Benzene was detected in six wells at concentrations ranging from 0.61 µg/L (MW-9) to 2,000 µg/L (MW-3).
- Toluene was detected at 6.1 µg/L in MW-4 and 1.8 µg/L in MW-6.
- Ethylbenzene was detected in three wells ranging from 0.89 µg/L (MW-6) to 840 µg/L (MW-3).
- Total xylenes were detected in four wells from 4.0 µg/L (MW-6) to 690 µg/L (MW-3).
- MTBE was detected in all sampled wells at concentrations ranging from 1.1 µg/L (MW-5) to 1,400 µg/L (MW-1).
- Tertiary-butyl alcohol was detected in five wells from 18 µg/L (MW-9) to 1,500 µg/L (MW-6).

AECOM recommends continuing with the established groundwater monitoring program for this site.

Conestoga-Rovers & Associates, Inc. (CRA) submitted a *Corrective Action Plan* on February 23, 2015 recommending monitored natural attenuation (MNA). CRA also recommended reevaluating MNA once site redevelopment plans are available and future land use is known. AECOM concurs with this recommendation and will review the redevelopment plans once they are available.

Figures

Path: L:\ENV\ArcGIS\Shell\4255 MacArthur Blvd Oakland\Projects\Figure 1 Site Vicinity.mxd



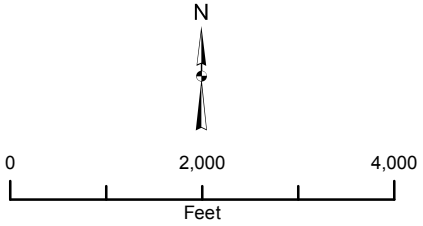


Figure 1
Site Vicinity Map

AECOM

Former Shell Service Station
4255 MacArthur Boulevard, Oakland, California

EXPLANATION

- MW-1 — Monitoring well location (Shell)
- MW-1B — Monitoring well location (ConocoPhillips)
- SVW-1 — Soil vapor well location (ConocoPhillips)
- TB-1 — Destroyed well location
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Water line (W)
- Electrical line (E)
- Unknown utility line (?)
- Gas line (G)
- 160 — Groundwater elevation contour referenced to mean sea level (ft AMSL)
- 0.046 — Groundwater flow direction and gradient (feet per foot)

WELL	Well designation
ELEV	Groundwater elevation, in ft AMSL
Benz	Benzene and MTBE concentrations are in micrograms per liter
MTBE	

Notes:
<X.XX = Not detected at laboratory reporting limit X.XX
SPH = Seperate-phase hydrocarbons present; well not sampled
* = Data collected on 2/22/2016 and is not used in groundwater contouring
^ = Data anomalous; not used in groundwater contouring

MW-2*	MW-3	MW-8^	MW-5	MW-9A^	MW-10A^	MW-10B
161.19	164.64	170.47	167.76	164.54	165.85	168.19
SPH	2,000	<0.50	<0.30	2,400	9,100	1,600
	660	130	2.2	16	320	51

MW-9B	MW-10S	MW-1B	MW-2B	MW-4B
168.06	169.44	168.20	168.64	173.93
<0.30	5.6	<0.30	<0.30	<0.30
4.1	4.4	14	3.8	1.7

MW-5	MW-6	MW-4	MW-7*
159.34	158.82	158.33	163.44
<0.50	82	20	90
1.1	32	41	480

MW-1	MW-9	MW-7^	MW-11B^	MW-11A	MW-11S	MW-3B
168.95	169.33	165.63	166.94	171.09	172.68	172.59
6.4	0.61	<0.30	9,400	10,000	2.6	160
1,400	130	120	1,900	2,400	2.5	8.9

MACARTHUR BOULEVARD; HIGH STREET; HIGHWAY 580; 580 ON-RAMP; Parking; Pharmacy; Oakland Veterinary Hospital 4258 MacArthur Boulevard; Former Used Oil UST; Existing Used Oil AST; Foot Clinic; Church Structures; Mobile Home Park; Residence 4240 Redding; Fenceline; Former Shell 4255 MacArthur; 76 Station #1156 4276 MacArthur; Former USTs; USTs; Former Dispenser Island (removed 1/03); Former Dispenser Island (removed 11/96); Proposed Building; Proposed Total Footprint; Former Storage Building; Approximate Excavation Boundary; Former Chevron Service Station; Steep Embankment; Driveway; Building; TP-1; TB-1; TB-2; SVW-1; SVW-2; SVW-3; SVW-4; SVW-5; SVW-6

N

0 20 40 Feet

SOURCE: BASE MAP GHD

Figure 2
Groundwater Contour and Chemical Concentration Map
January 20, 2016
Former Shell Service Station
4255 MacArthur Boulevard, Oakland California

AECOM

L:\ENV\ARCGIS\SHELL\4255 MACARTHUR BLVD OAKLAND\PROJECTS\1102016\FIGURE 2 GROUNDWATER CONTOURS AND CHEMICAL CONCENTRATION MAPUPDATED.DWG - 14 Apr 2016

Tables

Table 1
Groundwater Data
Former Shell Service Station, 4255 Macarthur Boulevard, 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)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)	TOC (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	SPH Thickness (ft)	DO Reading (mg/L)	ORP Reading (mV)
MW-1	11/17/1993	410	21	11	7.9	47	---	---	---	---	---	---	---	---	---	175.79	8.59	167.20	---	---	---
MW-1	01/20/1994	1,200	180	19	48	47	---	---	---	---	---	---	---	---	---	175.79	8.22	167.57	---	---	---
MW-1	04/25/1994	3,100	610	<10	130	27	---	---	---	---	---	---	---	---	---	175.79	7.63	168.16	---	---	---
MW-1	07/07/1994	2,400	1,000	10	250	20	---	---	---	---	---	---	---	---	---	175.79	8.31	167.48	---	---	---
MW-1	10/27/1994	2,200	500	3.1	72	1.8	---	---	---	---	---	---	---	---	---	175.79	8.84	166.95	---	---	---
MW-1	11/17/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	175.79	7.60	168.19	---	---	---
MW-1	11/28/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	175.79	7.56	168.23	---	---	---
MW-1	01/13/1995	570	75	2.5	6.7	11	---	---	---	---	---	---	---	---	---	175.79	7.11	168.68	---	---	---
MW-1	04/12/1995	1,800	480	<5.0	79	<5.0	---	---	---	---	---	---	---	---	---	175.79	7.08	168.71	---	---	---
MW-1	07/25/1995	120	15	1.1	2.1	2.9	---	---	---	---	---	---	---	---	---	175.79	7.73	168.06	---	---	---
MW-1 (D)	07/25/1995	300	88	2.4	11	6.5	---	---	---	---	---	---	---	---	---	175.79	7.73	168.06	---	---	---
MW-1	10/18/1995	130	9.5	0.8	1.3	1.7	---	---	---	---	---	---	---	---	---	175.79	8.42	167.37	---	---	---
MW-1 (D)	10/18/1995	120	11	0.8	1.4	1.8	---	---	---	---	---	---	---	---	---	175.79	8.42	167.37	---	---	---
MW-1	01/17/1996	250	22	0.9	1.6	2.3	---	---	---	---	---	---	---	---	---	175.79	7.83	167.96	---	---	---
MW-1	04/25/1996	<50	4.6	<0.5	<0.5	0.6	500b	---	---	---	---	---	---	---	---	175.79	7.35	168.44	---	---	---
MW-1	07/17/1996	<250	15	<2.5	<2.5	<2.5	540	---	---	---	---	---	---	---	---	175.79	7.70	168.09	---	---	---
MW-1	10/01/1996	1,200	500	12	57	82	1,900	---	---	---	---	---	---	---	---	175.79	8.07	167.72	---	---	---
MW-1	01/22/1997	640	170	4.3	33	33	1,200	---	---	---	---	---	---	---	---	175.79	7.21	168.58	---	---	---
MW-1	04/08/1997	<200	34	<2.0	3.3	4.3	950	---	---	---	---	---	---	---	---	175.79	7.75	168.04	---	---	---
MW-1 (D)	04/08/1997	<200	66	<2.0	6.4	8	740	---	---	---	---	---	---	---	---	175.79	7.75	168.04	---	---	---
MW-1	07/08/1997	190	49	1.2	5.8	8.6	560	---	---	---	---	---	---	---	---	175.79	8.01	167.78	---	---	---
MW-1	10/08/1997	<100	7	<1.0	<1.0	<1.0	620	---	---	---	---	---	---	---	---	175.79	8.10	167.69	---	---	---
MW-1	01/09/1998	970	390	12	48	71	1,200	---	---	---	---	---	---	---	---	175.79	7.14	168.65	---	---	---
MW-1	04/13/1998	<50	136	<0.50	1.5	1.8	170	---	---	---	---	---	---	---	---	175.79	6.78	169.01	---	---	---
MW-1	07/17/1998	2,500	750	11	88	67	150	---	---	---	---	---	---	---	---	175.79	7.28	168.51	---	---	---
MW-1	10/02/1998	8,000	970	36	270	440	35	---	---	---	---	---	---	---	---	175.79	7.77	168.02	---	---	---
MW-1	02/03/1999	210	56	0.82	<0.50	3.2	220	---	---	---	---	---	---	---	---	175.79	7.45	168.34	---	1.4	---
MW-1	04/29/1999	<50	4.5	<0.50	0.56	<0.50	140	196	---	---	---	---	---	---	---	175.79	7.58	168.21	---	1.2	140
MW-1	07/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	120	111 f	---	---	---	---	---	---	---	175.79	8.51	167.28	---	1.0	---
MW-1	11/01/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2.90	---	---	---	---	---	---	---	---	175.79	8.30	167.49	---	1.4	-71
MW-1	01/17/2000	<50	<0.50	<0.50	<0.50	<0.50	3.30	---	---	---	---	---	---	---	---	175.79	8.04	167.75	---	16.9	64
MW-1	04/17/2000	<50.0	1.08	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	---	---	---	175.79	8.00	167.79	---	1.8	112
MW-1	07/26/2000	125	54.3	2.16	5.45	9.86	33.1	---	---	---	---	---	---	---	---	175.79	7.52	168.27	---	13.2	-140
MW-1	10/12/2000	101	40.7	2.68	3.00	5.18	25.0	---	---	---	---	---	---	---	---	175.79	7.71	168.08	---	>20	534
MW-1	01/15/2001	<50.0	0.633	<0.500	0.505	1.74	<2.50	---	---	---	---	---	---	---	---	175.79	7.33	168.46	---	16.9	-127
MW-1	04/09/2001	<50.0	<0.500	<0.500	<0.500	0.927	<2.50	---	---	---	---	---	---	---	---	175.79	7.68	168.11	---	12.8	-117
MW-1	07/24/2001	<50	4.0	0.65	0.53	1.3	---	<5.0	---	---	---	---	---	---	---	175.79	8.00	167.79	---	>20	43
MW-1	10/31/2001	<50	4.4	<0.50	<0.50	0.98	---	<5.0	---	---	---	---	---	---	---	175.79	7.94	167.85	---	13.6	123
MW-1	01/10/2002	<50	2.2	<0.50	<0.50	1.2	---	6.1	---	---	---	---	---	---	---	175.79	7.63	168.16	---	0.1	63
MW-1	04/25/2002	<50	2.0	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	175.79	7.76	168.03	---	0.3	54
MW-1	07/18/2002	<50	6.1	<0.50	<0.50	0.98	---	<5.0	---	---	---	---	---	---	---	175.79	8.29	167.50	---	1.1	32

Table 1
Groundwater Data
Former Shell Service Station, 4255 Macarthur Boulevard, 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)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)	TOC (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	SPH Thickness (ft)	DO Reading (mg/L)	ORP Reading (mV)
MW-1	10/07/2002	500	17	14	11	60	---	9.0	---	---	---	---	---	---	---	175.76	8.34	167.42	---	2.8	-26
MW-1	01/06/2003	<50	12	<0.50	0.73	0.58	---	14	---	---	---	---	---	---	---	175.76	7.18	168.58	---	0.5	-22
MW-1	04/07/2003	<50	<0.50	<0.50	<0.50	<1.0	---	12	<5.0	---	---	---	---	---	---	175.76	7.75	168.01	---	0.7	-24
MW-1	07/07/2003	<50	6.6	<0.50	<0.50	<1.0	---	8.1	<5.0	---	---	---	---	---	---	175.76	7.75	168.01	---	0.5	16
MW-1	10/09/2003	<50	1.9	<0.50	<0.50	<1.0	---	22	<5.0	---	---	---	---	---	---	175.76	8.45	167.31	---	0.7	80
MW-1	01/14/2004	<100	19	<1.0	<1.0	<2.0	---	180	63	---	---	---	---	---	---	175.76	7.45	168.31	---	0.8	242
MW-1	04/28/2004	<50	2.1	<0.50	<0.50	<1.0	---	110	33	---	---	---	---	---	---	175.76	8.25	167.51	---	0.5	64
MW-1	07/12/2004	<50	2.5	<0.50	<0.50	<1.0	---	120	26	<2.0	<2.0	<2.0	---	---	<50	175.76	6.20	169.56	---	0.5	72
MW-1	10/25/2004	<500	<5.0	<5.0	<5.0	<10	---	550	240	---	---	---	---	---	---	175.76	7.98	167.78	---	3.15	-72
MW-1	01/17/2005	<250	8.0	<2.5	<2.5	<5.0	---	500	310	---	---	---	---	---	---	175.76	7.42	168.34	---	0.2	9
MW-1	04/06/2005	<250	<2.5	<2.5	<2.5	<5.0	---	230	330*	---	---	---	---	---	---	175.76	8.15	167.61	---	2.49	143
MW-1	07/08/2005	<50	<0.50	<0.50	<0.50	<0.50	---	380	510	<0.50	<0.50	<0.50	---	---	<5.0	175.76	7.45	168.31	---	1.1	12
MW-1	10/07/2005	<500 c	<5.0	<5.0	<5.0	<10	---	1,600	1,600	---	---	---	---	---	---	175.76	7.72	168.04	---	---	---
MW-1	01/27/2006	1,720	6.92	<0.500	<0.500	<0.500	---	1,270	1,380	---	---	---	---	---	---	175.76	6.68	169.08	---	---	---
MW-1	04/28/2006	2,420	6.90	1.19	<0.500	0.980	---	2,080	1,870	---	---	---	---	---	---	175.76	6.67	169.09	---	---	---
MW-1	07/28/2006	3,230	2.06	<0.500	<0.500	<0.500	---	1,770	1,730	<0.500	<0.500	1.14	---	---	<50.0	175.76	7.65	168.11	---	---	---
MW-1	10/27/2006	1,020	3.22	<0.500	1.72	<0.500	---	690	884	---	---	---	---	---	---	175.76	7.90	167.86	---	---	---
MW-1	01/10/2007	1,100	3.0	<0.50	<0.50	<1.0	---	2,300	2,900	---	---	---	---	---	---	175.76	7.62	168.14	---	---	---
MW-1	04/13/2007	620 c,g	7.1	0.24 h	<1.0	<1.0	---	2,800	3,600	---	---	---	---	---	---	175.76	6.98	168.78	---	---	---
MW-1	07/09/2007	960 c,g	4.3 h	<20	<20	<20	---	1,900	2,100	<40	<40	<40	---	---	<2,000	175.76	7.60	168.16	---	---	---
MW-1	10/08/2007	590 c,g	5.9 h	<20	<20	<20	---	3,200	2,200	---	---	---	---	---	---	175.76	8.05	167.71	---	---	---
MW-1	01/09/2008	470 c,g	36	<10	<10	<10	---	660	1,300	---	---	---	---	---	---	175.76	6.99	168.77	---	---	---
MW-1	04/04/2008	2,200	<10	<20	<20	<20	---	2,000	1,500	---	---	---	---	---	---	175.76	6.94	168.82	---	---	---
MW-1	07/03/2008	1,800	<10	<20	<20	<20	---	1,800	3,400	<40	<40	<40	---	---	<2,000	175.76	8.03	167.73	---	---	---
MW-1	10/03/2008	2,000	<10	<20	<20	<20	---	2,000	2,800	---	---	---	---	---	---	175.76	8.58	167.18	---	---	---
MW-1	01/22/2009	2,400	14	<20	<20	<20	---	1,600	3,200	---	---	---	---	---	---	175.76	8.15	167.61	---	---	---
MW-1	04/13/2009	1,800	<10	<20	<20	<20	---	970	1,900	---	---	---	---	---	---	175.76	2.13	173.63	---	---	---
MW-1	07/23/2009	1,800	6.9	<10	<10	<10	---	1,500	2,800	<20	<20	<20	---	---	<1000	175.76	8.15	167.61	---	---	---
MW-1	02/01/2010	910	94	<5.0	<5.0	<5.0	---	620	1,800	---	---	---	---	---	---	175.76	7.44	168.32	---	---	---
MW-1	08/02/2010	1,600	8.4	<5.0	<5.0	<5.0	---	2,100	2,100	---	---	---	---	---	---	175.76	7.49	168.27	---	---	---
MW-1	01/31/2011	1,100 c	41	<10	<10	<10	---	2,000	2,600	---	---	---	<10	<10	---	175.76	7.45	168.31	---	---	---
MW-1	07/25/2011	520 c	31	<2.5	<2.5	<5.0	---	530	1,600	<5.0	<5.0	<5.0	---	---	<750	175.76	7.39	168.37	---	---	---
MW-1	01/23/2012	<1,000	49	<10	<10	<20	---	1,200	1,200	---	---	---	---	---	---	175.76	7.85	167.91	---	---	---
MW-1	07/24/2012	390	14	<2.5	<2.5	<5.0	---	350	1,100	<2.5	<2.5	<2.5	---	---	---	175.76	7.80	167.96	---	---	---
MW-1	01/23/2013	1,100	45	<1.0	<1.0	<2.0	---	1,400	1,600	---	---	---	---	---	---	175.76	7.26	168.50	---	---	---
MW-1	07/10/2013	1,000	5.2	<5.0	<5.0	<10	---	1,000	700	<5.0	<5.0	<5.0	---	---	<1,500	175.76	7.99	167.77	---	---	---
MW-1	01/16/2014	840	56	<5.0	<5.0	<10	---	750	960	---	---	---	---	---	---	175.76	8.60	167.16	---	---	---
MW-1	07/10/2014	1,100 i	<10	<10	<10	<20	---	980	600	<10	<10	<10	---	---	<3,000	175.76	8.11	167.65	---	---	---
MW-1	01/27/2015	150	33	<0.50	<0.50	<1.0	---	55	630	---	---	---	---	---	---	175.76	7.54	168.22	---	---	---
MW-1	07/21/2015	1100 i	<10	<10	<10	<20	---	950	510	<10	<10	<10	---	---	<3,000	175.76	8.34	167.42	---	---	---
MW-1	**01/20/2016**	**1,300 i**	**6.4**	**<5.0**	**<5.0**	**<10**	**---**	**1,400**	**450**	**---**	**---**	**---**	**---**	**---**	**---**	**175.76**	**6.81**	**168.95**	**---**	**---**	**---**

Table 1
Groundwater Data
Former Shell Service Station, 4255 Macarthur Boulevard, 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)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)	TOC (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	SPH Thickness (ft)	DO Reading (mg/L)	ORP Reading (mV)
MW-2	11/17/1993	31,000	9,400	4,600	1,000	3,900	---	---	---	---	---	---	---	---	---	170.91	12.31	158.60	---	---	---
MW-2	01/20/1994	40,000	6,900	5,600	780	4,100	---	---	---	---	---	---	---	---	---	170.91	11.48	159.43	---	---	---
MW-2 (D)	01/20/1994	41,000	7,200	6,200	900	4,800	---	---	---	---	---	---	---	---	---	170.91	11.48	159.43	---	---	---
MW-2	04/25/1994	60,000	9,300	6,100	1,400	6,200	---	---	---	---	---	---	---	---	---	170.91	10.84	160.07	---	---	---
MW-2	07/07/1994	280,000 a	40,000	26,000	8,100	32,000	---	---	---	---	---	---	---	---	---	170.91	11.89	159.02	---	---	---
MW-2 (D)	07/07/1994	53,000	13,000	6,600	2,000	8,400	---	---	---	---	---	---	---	---	---	170.91	11.89	159.02	---	---	---
MW-2	10/27/1994	130,000	14,000	12,000	2,400	13,000	---	---	---	---	---	---	---	---	---	170.91	12.89	158.02	---	---	---
MW-2 (D)	10/27/1994	390,000	8,800	7,000	1,700	11,000	---	---	---	---	---	---	---	---	---	170.91	12.89	158.02	---	---	---
MW-2	11/17/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	9.11	161.80	---	---	---
MW-2	11/28/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	9.22	161.69	---	---	---
MW-2	01/13/1995	75,000	5,900	12,000	3,100	17,000	---	---	---	---	---	---	---	---	---	170.91	8.10	162.81	---	---	---
MW-2	04/12/1995	100,000	8,500	11,000	2,400	12,000	---	---	---	---	---	---	---	---	---	170.91	10.12	160.79	---	---	---
MW-2 (D)	04/12/1995	80,000	4,200	9,300	2,500	12,000	---	---	---	---	---	---	---	---	---	170.91	10.12	160.79	---	---	---
MW-2	07/25/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	11.53	159.80	0.52	---	---
MW-2	10/18/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	14.02	156.99	0.13	---	---
MW-2	01/17/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	10.27	160.78	0.17	---	---
MW-2	04/25/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	11.68	159.25	0.03	---	---
MW-2	07/17/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	12.78	158.51	0.48	---	---
MW-2	10/01/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	14.21	156.92	0.28	---	---
MW-2	01/22/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	10.92	160.08	0.11	---	---
MW-2	04/08/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	14.12	156.95	0.20	---	---
MW-2	07/08/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	14.98	156.08	0.19	---	---
MW-2	10/08/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	12.97	157.98	0.05	---	---
MW-2	01/08/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	12.54	158.43	0.08	---	---
MW-2	04/13/1998	180,000	2,800	5,200	2,400	13,000	71,000	---	---	---	---	---	---	---	---	170.91	10.05	160.86	---	---	---
MW-2	07/17/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	11.75	159.24	0.10	---	---
MW-2	10/02/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	16.78	154.22	0.11	---	---
MW-2	02/03/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	9.90	161.07	0.08	---	---
MW-2	04/29/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	9.86	161.09	0.05	---	---
MW-2	07/23/1999	65,800	6,500	4,480	1,960	8,960	46,600	58,500 f	---	---	---	---	---	---	---	170.91	14.45	156.46	---	1.4	---
MW-2	11/01/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	11.84	159.09	0.03	---	---
MW-2	01/17/2000	46,000	6,000	2,400	1,500	5,500	50,000	31,000	---	---	---	---	---	---	---	170.91	11.00	159.91	---	1.3	-54
MW-2	04/17/2000	96,300	8,150	10,200	2,820	14,900	112,000	108,000	---	---	---	---	---	---	---	170.91	11.06	159.85	---	2.6	125
MW-2	07/26/2000	72,400	8,680	5,620	2,810	13,400	66,200	46,300	---	---	---	---	---	---	---	170.91	12.82	158.09	---	2.2	113
MW-2	10/12/2000	63,200	5,840	4,180	2,310	11,100	61,200	66,600	---	---	---	---	---	---	---	170.91	11.32	159.59	---	0.4	55
MW-2	01/15/2001	59,700	2,630	4,800	2,050	11,500	44,400	5,080	---	---	---	---	---	---	---	170.91	10.19	160.72	---	1.1	-22
MW-2	04/09/2001	56,900	1,860	2,550	1,810	9,720	40,000	46,600	---	---	---	---	---	---	---	170.91	11.15	159.76	---	1.0	-55
MW-2	07/24/2001	84,000	3,000	4,600	2,500	13,000	---	41,000	---	---	---	---	---	---	---	170.91	11.67	159.24	---	0.2	53
MW-2	10/31/2001	45,000	2,200	3,000	1,500	7,700	---	29,000	51,000	<50	<50	<50	---	---	<500	170.91	11.04	159.87	---	1.2	-17
MW-2	01/10/2002	28,000	840	740	760	3,300	---	32,000	---	---	---	---	---	---	---	170.91	9.58	161.33	---	2.1	-76

Table 1
Groundwater Data
Former Shell Service Station, 4255 Macarthur Boulevard, 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)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)	TOC (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	SPH Thickness (ft)	DO Reading (mg/L)	ORP Reading (mV)
MW-2	04/25/2002	41,000	1,900	2,000	1,200	6,900	---	17,000	---	---	---	---	---	---	---	170.91	11.40	159.51	---	0.8	-95
MW-2	07/18/2002	87,000	2,000	2,200	1,400	10,000	---	19,000	---	---	---	---	---	---	---	170.91	12.68	158.23	---	0.7	-34
MW-2	10/07/2002	110,000	3,900	6,700	2,700	15,000	---	20,000	---	---	---	---	---	---	---	170.88	11.58	159.30	---	1.4	-52
MW-2	01/06/2003	65,000	2,400	3,500	1,400	8,600	---	26,000	---	---	---	---	---	---	---	170.88	9.09	161.79	---	0.4	40
MW-2	04/07/2003	57,000	1,900	2,500	1,700	8,600	---	37,000	34,000	---	---	---	---	---	---	170.88	11.08	159.80	---	1.0	60
MW-2	07/07/2003	34,000	4,000	4,200	1,600	8,500	---	51,000	44,000	---	---	---	---	---	---	170.88	11.27	159.61	---	1.3	-17
MW-2	10/09/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.64	159.26	0.03	---	---
MW-2	10/20/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.88	159.03	0.04	---	---
MW-2	01/14/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	10.96	159.93	0.01	---	---
MW-2	04/28/2004	35,000	2,200	2,200	2,300	8,200	---	26,000	28,000	---	---	---	---	---	---	170.88	11.05	159.83	---	0.1	-96
MW-2	07/12/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	12.12	158.78	0.03	---	---
MW-2	10/25/2004	60,000	2,900	2,300	2,300	7,600	---	27,000	26,000	---	---	---	---	---	---	170.88	11.23	159.65	---	1.62	-69
MW-2	01/17/2005	62,000	1,900	1,800	1,800	5,700	---	22,000	21,000	---	---	---	---	---	---	170.88	8.78	162.10	---	0.8	-102
MW-2	04/06/2005	40,000	1,500	940	1,600	2,900	---	23,000	23,000	---	---	---	---	---	---	170.88	9.23	161.65	---	0.60	-104
MW-2	07/08/2005	50,000	2,300	1,500	1,700	6,600	---	24,000	25,000	<150	<150	<150	---	---	<1,500	170.88	10.99	159.91	0.02	0.01	-41
MW-2	10/07/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	12.15	158.75	0.02	---	---
MW-2	01/27/2006	56,800	1,270	1,280	1,520	5,370	---	8,210	10,600	---	---	---	---	---	---	170.88	9.55	161.33	---	---	---
MW-2	03/16/2006	82,100	1,230	1,310	1,350	4,630	---	9,020	9,690	---	---	---	---	---	---	170.88	8.10	162.78	---	---	---
MW-2	04/28/2006	81,400	1,200	1,610	1,660	5,580	---	10,800	11,100	---	---	---	---	---	---	170.88	9.25	161.63	---	---	---
MW-2	05/15/2006	119,000	2,210	3,800	2,330	8,900	---	15,600	12,200	---	---	---	---	---	---	170.88	10.28	160.60	---	---	---
MW-2	06/19/2006	121,000	1,680	3,830	2,990	12,400	---	10,700	9,310	---	---	---	---	---	---	170.88	10.90	159.98	---	---	---
MW-2	07/28/2006	172,000	3,590	3,450	2,840	8,210	---	22,800	11,300	<0.500	<0.500	<0.500	---	---	<50.0	170.88	11.84	159.04	---	---	---
MW-2	08/31/2006	91,200	1,590	3,710	2,570	11,700	---	3,520	3,940	---	---	---	---	---	---	170.88	18.03	152.85	---	---	---
MW-2	09/26/2006	50,000	2,300	1,300	1,600	6,700	---	17,000	19,000	---	---	---	---	---	---	170.88	10.23	160.65	---	---	---
MW-2	10/27/2006	159,000	5,200	3,890	2,600	12,500	---	18,100	9,230 d	---	---	---	---	---	---	170.88	12.11	158.77	---	---	---
MW-2	11/22/2006	53,000	1,500	960	1,800	7,100	---	9,600	12,000	---	---	---	---	---	---	170.88	11.35	159.53	---	---	---
MW-2	12/26/2006	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	01/10/2007	45,000	2,700	1,700	1,400	5,800	---	13,000	11,000	---	---	---	---	---	---	170.88	10.21	160.67	---	---	---
MW-2	02/19/2007	13,000	1,800	1,900	1,500	5,900	---	7,400	11,000	---	---	---	---	---	---	170.88	9.22	161.66	---	---	---
MW-2	03/16/2007	52,000	2,600	2,300	2,000	7,300	---	9,100	12,000	---	---	---	---	---	---	170.88	9.88	161.00	---	---	---
MW-2	04/13/2007	60,000 g	2,200	2,100	2,300	7,900	---	13,000	20,000	---	---	---	---	---	---	170.88	10.61	160.29	0.02	---	---
MW-2	07/09/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.77	159.20	0.11	---	---
MW-2	10/08/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	12.70	158.33	0.19	---	---
MW-2	11/19/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	8.00	162.88	---	---	---
MW-2	12/10/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	6.49	164.39	---	---	---
MW-2	01/09/2008	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	01/22/2008	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	02/21/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	8.86	162.02	---	---	---
MW-2	03/20/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	10.24	160.66	0.02	---	---
MW-2	04/04/2008	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	05/27/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	12.44	158.46	0.03	---	---

Table 1
Groundwater Data
Former Shell Service Station, 4255 Macarthur Boulevard, 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)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)	TOC (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	SPH Thickness (ft)	DO Reading (mg/L)	ORP Reading (mV)
MW-2	06/11/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.10	159.85	0.09	---	---
MW-2	06/11/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.10	159.85	0.09	---	---
MW-2	07/03/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.62	159.37	0.14	---	---
MW-2	08/04/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.88	159.05	0.06	---	---
MW-2	09/17/1998	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	10/03/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	12.66	158.43	0.26	---	---
MW-2	11/26/2008	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	12/30/2008	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	01/22/2009	86,000	3,800	1,600	2,500	9,800	---	10,000	7,900	---	---	---	---	---	---	170.88	10.74	160.14	---	---	---
MW-2	02/27/2009	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	04/13/2009	60,000	1,700	980	2,000	7,000	---	4,300	4,600	---	---	---	---	---	---	170.88	10.36	160.53	0.01	---	---
MW-2	07/23/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.91	159.13	0.20	---	---
MW-2	11/10/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	10.87	160.04	0.04	---	---
MW-2	02/01/2010	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	02/09/2010	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	08/02/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.38	159.53	0.04	---	---
MW-2	01/31/2011	77,000	1,700	1,500	2,600	9,000	---	2,100	2,700	---	---	---	<25	<25	---	170.88	9.09	161.79	---	---	---
MW-2	04/26/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	9.98	160.90	---	---	---
MW-2	07/25/2011	46,000	990	560	2,500	5,100	---	1,600	1,900	<50	<50	<50	---	---	<7,500	170.88	10.76	160.12	---	---	---
MW-2	10/13/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	10.18	160.70	---	---	---
MW-2	01/23/2012	48,000	1,400	1,100	2,200	6,100	---	820	1,200	---	---	---	---	---	---	170.88	9.22	161.66	---	---	---
MW-2	04/23/2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	9.20	161.68	---	---	---
MW-2	07/24/2012	63,000	1,400	970	2,600	7,100	---	1,000	980	<20	<20	<20	---	---	---	170.88	10.82	160.06	---	---	---
MW-2	11/07/2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	10.76	160.12	---	---	---
MW-2	01/23/2013	48,000	1,500	1,300	1,800	5,400	---	1,100	1,400	---	---	---	---	---	---	170.88	10.30	160.58	---	---	---
MW-2	04/01/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	10.30	160.58	---	---	---
MW-2	07/10/2013	32,000	1,600	670	1,800	3,500	---	1,200	1,700	<20	<20	<20	---	---	<6,000	170.88	10.94	159.94	---	---	---
MW-2	10/01/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.93	158.95	---	---	---
MW-2	01/16/2014	92,000	2,700	4,200	3,600	13,000	---	830	900	---	---	---	---	---	---	170.88	11.85	159.03	---	---	---
MW-2	04/29/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	10.54	160.34	---	---	---
MW-2	07/10/2014	35,000	1,500	410	2,300	3,500	---	1,600	1,200	<50	<50	<50	---	---	<15,000	170.88	11.77	159.11	---	---	---
MW-2	10/14/2014	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	01/27/2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	10.62	160.28	0.02	---	---
MW-2	07/21/2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.78	159.10	---	---	---
MW-2	**01/20/2016**	**Unable to access**		**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**170.88**	**---**	**---**	**---**	**---**	**---**
MW-2	**02/22/2016**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**170.88**	**9.72**	**161.19**	**0.04**	**---**	**---**
MW-3	11/17/1993	18,000	5,400	660	720	2,200	---	---	---	---	---	---	---	---	---	174.61	15.40	159.21	---	---	---
MW-3	01/20/1994	55,000	13,000	2,600	2,200	6,500	---	---	---	---	---	---	---	---	---	174.61	14.61	160.00	---	---	---
MW-3	04/25/1994	96,000	11,000	1,600	3,100	9,900	---	---	---	---	---	---	---	---	---	174.61	13.12	161.49	---	---	---
MW-3 (D)	04/25/1994	78,000	12,000	1,900	2,600	7,300	---	---	---	---	---	---	---	---	---	174.61	13.12	161.49	---	---	---

Table 1
Groundwater Data
Former Shell Service Station, 4255 Macarthur Boulevard, 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)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)	TOC (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	SPH Thickness (ft)	DO Reading (mg/L)	ORP Reading (mV)
MW-3	07/07/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.61	14.54	160.09	0.02	---	---
MW-3	10/27/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.61	15.62	159.03	0.05	---	---
MW-3	11/17/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.61	13.83	160.78	---	---	---
MW-3	11/28/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.61	14.02	160.59	---	---	---
MW-3	01/13/1995	180,000	3,200	2,700	1,700	5,200	---	---	---	---	---	---	---	---	---	174.61	12.13	162.48	---	---	---
MW-3 (D)	01/13/1995	23,000	4,000	690	960	3,000	---	---	---	---	---	---	---	---	---	174.61	12.13	162.48	---	---	---
MW-3	04/12/1995	56,000	8,700	1,500	2,100	6,300	---	---	---	---	---	---	---	---	---	174.61	12.96	161.65	---	---	---
MW-3	07/25/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.61	14.28	160.38	0.06	---	---
MW-3	10/18/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.61	15.88	158.77	0.05	---	---
MW-3	01/17/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.61	13.86	160.94	0.24	---	---
MW-3	04/25/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.61	13.82	160.81	0.02	---	---
MW-3	07/17/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.61	16.11	158.52	0.03	---	---
MW-3	10/01/1996	46,000	7,300	530	1,700	3,900	3,200	---	---	---	---	---	---	---	---	174.61	16.56	158.05	---	---	---
MW-3 (D)	10/01/1996	47,000	7,100	530	1,700	4,000	2,900	---	---	---	---	---	---	---	---	174.61	16.56	158.05	---	---	---
MW-3	01/22/1997	82,000	5,200	1,300	2,800	8,900	1,100	---	---	---	---	---	---	---	---	174.61	13.07	161.54	---	---	---
MW-3 (D)	01/22/1997	61,000	8,400	1,100	2,300	7,000	2,700	---	---	---	---	---	---	---	---	174.61	13.07	161.54	---	---	---
MW-3	04/08/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.61	17.09	157.54	0.03	---	---
MW-3	07/08/1997	56,000	8,800	580	2,000	4,900	2,800	---	---	---	---	---	---	---	---	174.61	15.85	158.76	---	---	---
MW-3	10/08/1997	48,000	8,000	590	1,700	3,400	5,100	---	---	---	---	---	---	---	---	174.61	16.22	158.39	---	---	---
MW-3	01/08/1998	47,000	9,400	810	2,300	4,700	6,300	---	---	---	---	---	---	---	---	174.61	13.80	160.81	---	---	---
MW-3 (D)	01/08/1998	48,000	8,100	750	2,000	4,100	5,800	---	---	---	---	---	---	---	---	174.61	13.80	160.81	---	---	---
MW-3	04/13/1998	32,000	6,800	540	1,400	3,400	4,000	---	---	---	---	---	---	---	---	174.61	12.97	161.64	---	---	---
MW-3 (D)	04/13/1998	36,000	7,300	660	1,600	3,700	4,000	---	---	---	---	---	---	---	---	174.61	12.97	161.64	---	---	---
MW-3	07/17/1998	71,000	11,000	590	2,200	6,900	3,900	---	---	---	---	---	---	---	---	174.61	11.51	163.10	---	---	---
MW-3 (D)	07/17/1998	76,000	12,000	700	2,600	8,000	3,000	---	---	---	---	---	---	---	---	174.61	11.51	163.10	---	---	---
MW-3	10/02/1998	66,000	8,900	510	2,000	4,900	4,600	---	---	---	---	---	---	---	---	174.61	16.50	158.11	---	---	---
MW-3 (D)	10/02/1998	59,000	9,400	460	2,000	4,900	4,700	---	---	---	---	---	---	---	---	174.61	16.50	158.11	---	---	---
MW-3	02/03/1999	36,000	6,800	300	1,600	2,900	18,000	---	---	---	---	---	---	---	---	174.61	15.21	159.40	---	1.3	---
MW-3	04/29/1999	45,000	8,100	580	2,200	5,800	4,700	5,150	---	---	---	---	---	---	---	174.61	15.43	159.18	---	1.5	-68
MW-3	07/23/1999	29,400	3,540	215	810	3,800	4,720	6,950 f	---	---	---	---	---	---	---	174.61	14.95	159.66	---	1.3	---
MW-3	11/01/1999	20,000	4,190	294	1,060	1,740	5,540	8,590	---	---	---	---	---	---	---	174.61	14.66	159.95	---	0.6	-110
MW-3	01/17/2000	17,000	3,900	89	1,100	1,200	7,900	---	---	---	---	---	---	---	---	174.61	13.94	160.67	---	1.3	-40
MW-3	04/17/2000	28,100	5,240	247	1,540	2,750	16,600	---	---	---	---	---	---	---	---	174.61	14.00	160.61	---	1.1	-86
MW-3	07/26/2000	24,300	6,680	159	1,610	1,640	17,100	---	---	---	---	---	---	---	---	174.61	13.72	160.89	---	0.9	-70
MW-3	10/12/2000	14,300	2,630	86.7	241	1,360	16,300	---	---	---	---	---	---	---	---	174.61	14.15	160.46	---	0.9	50
MW-3	01/15/2001	22,100	4,400	266	977	2,990	13,200	---	---	---	---	---	---	---	---	174.61	13.05	161.56	---	1.3	-40
MW-3	04/09/2001	33,800	7,100	147	1,700	2,660	13,000	---	---	---	---	---	---	---	---	174.61	13.59	161.02	---	0.6	-56
MW-3	07/24/2001	220,000	5,600	1,900	4,400	19,000	---	12,000	---	---	---	---	---	---	---	174.61	14.43	160.18	---	0.4	29
MW-3	10/31/2001	65,000	2,700	510	1,800	7,200	---	9,800	5,200	<20	<20	<20	---	---	<500	174.61	14.59	160.02	---	0.9	-27
MW-3	01/10/2002	66,000	2,400	490	1,700	6,600	---	5,500	---	---	---	---	---	---	---	174.61	12.65	161.96	---	1.7	-76
MW-3	04/25/2002	55,000	4,600	460	2,400	6,900	---	8,100	---	---	---	---	---	---	---	174.61	14.13	160.48	---	1.2	-96

Table 1
Groundwater Data
Former Shell Service Station, 4255 Macarthur Boulevard, 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)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)	TOC (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	SPH Thickness (ft)	DO Reading (mg/L)	ORP Reading (mV)
MW-3	07/18/2002	56,000	3,300	270	1,700	5,000	---	8,400	---	---	---	---	---	---	---	174.61	15.48	159.15	0.03	0.8	-41
MW-3	10/07/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	14.60	160.15	0.20	---	---
MW-3	01/06/2003	57,000	3,200	330	1,800	5,400	---	5,100	---	---	---	---	---	---	---	174.59	11.62	162.99	0.02	0.4	33
MW-3	04/07/2003	57,000	6,200	500	2,400	6,700	---	8,200	3,900	---	---	---	---	---	---	174.59	13.80	160.79	---	0.5	61
MW-3	07/07/2003	28,000	4,900	300	1,500	4,100	---	7,900	4,700	---	---	---	---	---	---	174.59	14.00	160.59	---	1.0	-11
MW-3	10/09/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	14.44	160.21	0.08	---	---
MW-3	10/20/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	14.68	159.97	0.07	---	---
MW-3	01/14/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	12.47	162.14	0.02	---	---
MW-3	04/28/2004	32,000	7,300	190	2,100	4,300	---	3,700	2,500	---	---	---	---	---	---	174.59	13.66	160.93	---	0.1	-16
MW-3	07/12/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	14.87	159.75	0.04	---	---
MW-3	10/25/2004	49,000	5,100	61	1,800	3,600	---	5,400	2,700	---	---	---	---	---	---	174.59	14.12	160.47	---	2.70	-59
MW-3	01/17/2005	57,000	8,000	190	2,000	4,000	---	4,600	3,300	---	---	---	---	---	---	174.59	10.59	164.00	---	0.2	-18
MW-3	04/06/2005	57,000	7,300	180	2,200	3,300	---	4,100	2,700	---	---	---	---	---	---	174.59	10.58	164.01	---	0.95	-77
MW-3	07/08/2005	28,000	2,900	47	1,100	2,000	---	2,800	1,900	<20	<20	<20	---	---	<200	174.59	13.46	161.13	---	0.1	-51
MW-3	10/07/2005	23,000	3,200	39	960	1,300	---	2,600	1,900	---	---	---	---	---	---	174.59	14.76	159.83	---	---	---
MW-3	01/27/2006	38,500	6,520	139	1,350	2,160	---	1,940	1,490	---	---	---	---	---	---	174.59	11.69	162.90	---	---	---
MW-3	03/16/2006	65,100	5,280	181	1,580	2,520	---	2,410	12,300	---	---	---	---	---	---	174.59	10.08	164.51	---	---	---
MW-3	04/28/2006	<1000	4,330	157	1,480	2,690	---	2,470	1,520	---	---	---	---	---	---	174.59	3.31	171.28	---	---	---
MW-3	05/15/2006	69,600	6,100	159	1,690	2,640	---	3,520	1,720	---	---	---	---	---	---	174.59	12.69	161.90	---	---	---
MW-3	06/19/2006	103,000	5,070	117	2,210	3,950	---	2,790	1,080	---	---	---	---	---	---	174.59	13.28	161.31	---	---	---
MW-3	07/28/2006	86,600	4,890	85.7	1,570	2,250	---	2,790	1,260	7.28	<0.500	<0.500	---	---	<50.0	174.59	14.72	159.87	---	---	---
MW-3	08/31/2006	45,700	4,600	204	1,740	2,680	---	2,580	1,520	---	---	---	---	---	---	174.59	14.75	159.84	---	---	---
MW-3	09/26/2006	29,000	3,900	76	1,500	2,100	---	2,700	1,500	---	---	---	---	---	---	174.59	14.97	159.62	---	---	---
MW-3	10/27/2006	41,000	3,690	65.2	1,210	1,650	---	1,760	867 d	---	---	---	---	---	---	174.59	15.00	159.59	---	---	---
MW-3	11/22/2006	30,000	3,300	51	810	1,500	---	1,900	1,300	---	---	---	---	---	---	174.59	14.26	160.33	---	---	---
MW-3	12/26/2006	31,000	2,500	56	1,100	1,500	---	2,200	2,000	---	---	---	---	---	---	174.59	12.52	162.07	---	---	---
MW-3	01/10/2007	18,000	2,600	43	750	940	---	2,100	2,100	---	---	---	---	---	---	174.59	12.81	161.78	---	---	---
MW-3	02/19/2007	27,000	3,800	110	1,200	1,500	---	2,400	3,200	---	---	---	---	---	---	174.59	11.65	162.94	---	---	---
MW-3	03/16/2007	25,000	4,000	80	1,300	1,500	---	2,100	2,400	---	---	---	---	---	---	174.59	12.20	162.39	---	---	---
MW-3	04/13/2007	30,000 g	4,400	73	1,500	1,920	---	2,800	3,900	---	---	---	---	---	---	174.59	13.37	161.22	---	---	---
MW-3	07/09/2007	25,000 g	3,800	57	1,400	1,456	---	1,900	1,500	<100	<100	<100	---	---	<5,000	174.59	14.30	160.29	---	---	---
MW-3	10/08/2007	20,000 g	3,200	35 h	1,300	1,124 h	---	1,700	1,500	---	---	---	---	---	---	174.59	15.19	159.41	0.01	---	---
MW-3	11/19/2007	Unable to access			---	---	---	---	---	---	---	---	---	---	---	174.59	---	---	---	---	---
MW-3	11/30/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	14.07	160.52	---	---	---
MW-3	12/10/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	13.78	160.81	---	---	---
MW-3	01/09/2008	33,000 g	2,800	34	910	782 h	---	1,000	1,100	---	---	---	---	---	---	174.59	11.09	163.50	---	---	---
MW-3	02/21/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	12.22	162.37	---	---	---
MW-3	03/20/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	13.03	161.56	---	---	---
MW-3	04/04/2008	24,000	3,300	55	1,100	844	---	1,900	1,200	---	---	---	---	---	---	174.59	13.41	161.18	---	---	---
MW-3	05/27/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	20.49	154.11	0.01	---	---
MW-3	06/11/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	13.95	160.65	0.01	---	---

Table 1
Groundwater Data
Former Shell Service Station, 4255 Macarthur Boulevard, 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)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)	TOC (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	SPH Thickness (ft)	DO Reading (mg/L)	ORP Reading (mV)
MW-3	07/03/2008	33,000	3,800	38	1,500	1,200	---	2,600	1,800	<50	<50	<50	---	---	<2,500	174.59	10.48	164.12	0.01	---	---
MW-3	09/17/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	14.76	159.83	---	---	---
MW-3	09/17/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	14.95	159.65	0.01	---	---
MW-3	10/03/2008	26,000	3,000	29	1,200	750	---	1,700	1,400	---	---	---	---	---	---	174.59	15.32	159.28	0.01	---	---
MW-3	11/26/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	14.54	160.05	---	---	---
MW-3	12/30/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	13.04	161.55	---	---	---
MW-3	01/22/2009	27,000	2,300	29	880	610	---	1,600	1,700	---	---	---	---	---	---	174.59	13.73	160.86	---	---	---
MW-3	02/27/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	12.88	161.71	---	---	---
MW-3	04/13/2009	27,000	3,000	51	1,200	740	---	1,400	1,500	---	---	---	---	---	---	174.59	13.01	161.58	---	---	---
MW-3	07/23/2009	26,000	3,300	41	1,600	1,200	---	2,200	1,600	<50	<50	<50	---	---	<2,500	174.59	14.59	160.00	---	---	---
MW-3	11/10/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	13.66	160.93	---	---	---
MW-3	02/01/2010	34,000	3,200	44	1,300	1,700	---	1,000	1,100	---	---	---	---	---	---	174.59	10.65	163.94	---	---	---
MW-3	08/02/2010	16,000	1,500	12	440	460	---	910	1,200	---	---	---	---	---	---	174.59	14.09	160.50	---	---	---
MW-3	01/31/2011	21,000	2,200	32	980	980	---	1,300	1,700	---	---	---	<20	<20	---	174.59	11.89	162.70	---	---	---
MW-3	04/26/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	12.56	162.03	---	---	---
MW-3	07/25/2011	23,000	1,600	24	1,200	1,000	---	840	940	<25	<25	<25	---	---	<3,800	174.59	13.53	161.06	---	---	---
MW-3	10/13/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	13.02	161.57	---	---	---
MW-3	01/23/2012	25,000	1,500	16	640	610	---	730	660	---	---	---	---	---	---	174.59	12.30	162.29	---	---	---
MW-3	04/23/2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	11.43	163.16	---	---	---
MW-3	07/24/2012	22,000	2,100	33	870	550	---	970	1,100	<10	<10	<10	---	---	---	174.59	13.84	160.76	0.01	---	---
MW-3	11/07/2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	13.81	160.78	---	---	---
MW-3	01/23/2013	36,000	1,600	18	900	830	---	800	1,200	---	---	---	---	---	---	174.59	12.85	161.74	---	---	---
MW-3	04/01/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	13.33	161.26	---	---	---
MW-3	07/10/2013	14,000	1,700	17	250	330	---	870	970	<10	<10	<10	---	---	<3,000	174.59	14.01	160.58	---	---	---
MW-3	10/01/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	14.87	159.72	---	---	---
MW-3	01/16/2014	31,000	2,100	27	1,600	1,700	---	830	960	---	---	---	---	---	---	174.59	15.37	159.22	---	---	---
MW-3	04/29/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	12.99	161.60	---	---	---
MW-3	07/10/2014	19,000	1,900	26	510	560	---	910	1,000	<13	<13	<13	---	---	<3,800	174.59	14.63	159.96	---	---	---
MW-3	10/14/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	15.93	158.66	---	---	---
MW-3	01/27/2015	20,000	1,700	22	430	370	---	730	1,100	---	---	---	---	---	---	174.59	13.23	161.36	---	---	---
MW-3	07/21/2015	13,000	2,000	18	98	110	---	700	1,000	<13	<13	<13	---	---	<3,800	174.59	14.61	159.98	---	---	---
MW-3	**01/20/2016**	**21,000**	**2,000**	**<25**	**840**	**690**	**---**	**660**	**770 j**	**---**	**---**	**---**	**---**	**---**	**---**	**174.59**	**9.95**	**164.64**	**---**	**---**	**---**
MW-4	11/17/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.06	6.62	157.44	---	---	---
MW-4	11/28/1994	2,900	200	17	76	260	---	---	---	---	---	---	---	---	---	164.06	6.11	157.95	---	---	---
MW-4	01/13/1995	1,900	130	5.6	13	40	---	---	---	---	---	---	---	---	---	164.06	6.05	158.01	---	---	---
MW-4	04/12/1995	680	150	<2.0	10	13	---	---	---	---	---	---	---	---	---	164.06	6.31	157.75	---	---	---
MW-4	07/25/1995	340	100	0.80	8.8	3.0	---	---	---	---	---	---	---	---	---	164.06	7.36	156.70	---	---	---
MW-4	10/18/1995	150	31	<0.50	3.5	0.80	---	---	---	---	---	---	---	---	---	164.06	8.54	155.52	---	---	---
MW-4	01/17/1996	290	14	<0.50	1.8	0.80	---	---	---	---	---	---	---	---	---	164.06	8.48	155.58	---	---	---
MW-4	04/25/1996	<500	65	<5.0	<5.0	<5.0	1,700	---	---	---	---	---	---	---	---	164.06	7.40	156.66	---	---	---

Table 1
Groundwater Data
Former Shell Service Station, 4255 Macarthur Boulevard, 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)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)	TOC (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	SPH Thickness (ft)	DO Reading (mg/L)	ORP Reading (mV)
MW-4 (D)	04/25/1996	<500	66	<5.0	8.7	<5.0	1,500	---	---	---	---	---	---	---	---	164.06	7.40	156.66	---	---	---
MW-4	07/17/1996	<500	84	<5.0	6.5	<5.0	1,500	---	---	---	---	---	---	---	---	164.06	7.75	156.31	---	---	---
MW-4 (D)	07/17/1996	<500	54	<5.0	<5.0	<5.0	1,700	2,100	---	---	---	---	---	---	---	164.06	7.75	156.31	---	---	---
MW-4	10/01/1996	<500	1.9	<5.0	<5.0	<5.0	3,000	---	---	---	---	---	---	---	---	164.06	8.82	155.24	---	---	---
MW-4	01/22/1997	580	130	<2.5	18	5.2	1,200	---	---	---	---	---	---	---	---	164.06	7.51	156.55	---	---	---
MW-4	04/08/1997	770	200	7.0	26	55	1,500	8.0	---	---	---	---	---	---	---	164.06	7.18	156.88	---	---	---
MW-4	07/08/1997	570	78	<5.0	14	11	1,200	---	---	---	---	---	---	---	---	164.06	9.00	155.06	---	---	---
MW-4 (D)	07/08/1997	640	81	<5.0	16	19	1,600	---	---	---	---	---	---	---	---	164.06	9.00	155.06	---	---	---
MW-4	10/08/1997	<500	40	<5.0	7.4	5.4	1,400	---	---	---	---	---	---	---	---	164.06	8.97	155.09	---	---	---
MW-4 (D)	10/08/1997	<500	36	<5.0	5.9	<5.0	1,400	---	---	---	---	---	---	---	---	164.06	8.97	155.09	---	---	---
MW-4	01/08/1998	<1,000	55	<10	13	<10	2,000	---	---	---	---	---	---	---	---	164.06	7.90	156.16	---	---	---
MW-4	04/13/1998	350	110	2.4	20	26	<2.5	---	---	---	---	---	---	---	---	164.06	7.35	156.71	---	---	---
MW-4	07/17/1998	210	66	0.78	5.4	9.8	1,700	---	---	---	---	---	---	---	---	164.06	6.95	157.11	---	---	---
MW-4	10/02/1998	<50	0.69	<0.50	<0.50	<0.50	2,900	---	---	---	---	---	---	---	---	164.06	7.35	156.71	---	---	---
MW-4	02/03/1999	560	120	2.5	29	34	6,800	---	---	---	---	---	---	---	---	164.06	7.71	156.35	---	0.9	---
MW-4	04/29/1999	390	80	1.9	13	19	7,000	8,360	---	---	---	---	---	---	---	164.06	7.83	156.23	---	1.1	-125
MW-4	07/23/1999	460	93.6	8.40	25.2	28.8	3,760	6,000 f	---	---	---	---	---	---	---	164.06	11.33	152.73	---	0.9	---
MW-4	11/01/1999	77.3	0.520	<0.500	<0.500	<0.500	539	---	---	---	---	---	---	---	---	164.06	10.66	153.40	---	2.8	3
MW-4	01/17/2000	160	27	<0.50	12	6.3	12,000	---	---	---	---	---	---	---	---	164.06	10.15	153.91	---	3.9	-17
MW-4	04/17/2000	<500	26	6.38	9.35	10.4	9,070	---	---	---	---	---	---	---	---	164.06	10.10	153.96	---	1.7	-129
MW-4	07/26/2000	<500	22.7	<5.00	7.59	6.96	7,660	---	---	---	---	---	---	---	---	164.06	10.09	153.97	---	1.4	-137
MW-4	10/12/2000	172	19.8	<0.500	7.47	4.50	8,290	---	---	---	---	---	---	---	---	164.06	9.35	154.71	---	3.5	529
MW-4	01/15/2001	53.6	1.50	<0.500	2.45	1.80	9,260	---	---	---	---	---	---	---	---	164.06	8.77	155.29	---	2.3	53
MW-4	04/09/2001	<500	<5.00	<5.00	<5.00	5.52	10,300	---	---	---	---	---	---	---	---	164.06	7.75	156.31	---	1.0	-133
MW-4	07/24/2001	58	3.8	<0.50	3.2	2.9	---	1,700	---	---	---	---	---	---	---	164.06	10.07	153.99	---	0.5	106
MW-4	10/31/2001	<1,000	<10	<10	<10	<10	---	7,400	---	---	---	---	---	---	---	164.06	9.97	154.09	---	0.8	22
MW-4	01/10/2002	<2,000	<20	<20	<20	<20	---	12,000	---	---	---	---	---	---	---	164.06	8.53	155.53	---	8.9	224
MW-4	04/25/2002	<2,000	<20	<20	<20	<20	---	7,900	---	---	---	---	---	---	---	164.06	7.33	156.73	---	3.6	-84
MW-4	07/18/2002	<2,000	<20	<20	<20	<20	---	7,200	---	---	---	---	---	---	---	164.06	9.05	155.01	---	1.7	120
MW-4	10/07/2002	<1,000	<10	<10	<10	<10	---	3,300	---	---	---	---	---	---	---	164.03	9.06	154.97	---	2.5	33
MW-4	01/06/2003	<500	21	<5.0	<5.0	<5.0	---	2,500	---	---	---	---	---	---	---	164.03	7.09	156.94	---	0.5	55
MW-4	04/07/2003	<2,500	<25	<25	<25	<50	---	1,700	5,900	---	---	---	---	---	---	164.03	8.26	155.77	---	1.2	69
MW-4	07/07/2003	<2,500	<25	<25	<25	<50	---	860	6,900	---	---	---	---	---	---	164.03	8.92	155.11	---	0.5	-3
MW-4	10/09/2003	<500	<5.0	<5.0	<5.0	<10	---	420	6,700	---	---	---	---	---	---	164.03	8.91	155.12	---	0.7	171
MW-4	01/14/2004	<1,000	24	<10	<10	<20	---	500	7,200	---	---	---	---	---	---	164.03	8.34	155.69	---	1.2	140
MW-4	04/28/2004	<500	6.0	<5.0	<5.0	<10	---	310	5,200	---	---	---	---	---	---	164.03	7.55	156.48	---	0.4	69
MW-4	07/12/2004	<500	11	<5.0	7.8	<10	---	370	5,900	<20	<20	<20	---	---	<500	164.03	8.12	155.91	---	0.5	142
MW-4	10/25/2004	<500	<5.0	<5.0	5.6	<10	---	280	4,300	---	---	---	---	---	---	164.03	7.85	156.18	---	1.90	-70
MW-4	01/17/2005	<1,000	56	<10	10	<20	---	380	8,400	---	---	---	---	---	---	164.03	6.08	157.95	---	0.4	6
MW-4	04/06/2005	<1,000	52	<10	11	<20	---	450	12,000	---	---	---	---	---	---	164.03	8.10	155.93	---	0.49	11
MW-4	07/08/2005	<400	30	<4.0	6.0	<4.0	---	250	9,600	<4.0	<4.0	<4.0	---	---	<40	164.03	7.50	156.53	---	0.6	71

Table 1
Groundwater Data
Former Shell Service Station, 4255 Macarthur Boulevard, 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)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)	TOC (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	SPH Thickness (ft)	DO Reading (mg/L)	ORP Reading (mV)
MW-4	07/08/2005	<400	30	<4.0	6.0	<4.0	---	250	9,600	<4.0	<4.0	<4.0	---	---	<40	164.03	7.50	156.53	---	0.6	71
MW-4	10/07/2005	<1,000	<10	<10	<10	<20	---	200	8,900	---	---	---	---	---	---	164.03	8.30	155.73	---	---	---
MW-4	01/27/2006	1,140	34.3	2.37	8.69	12.0	---	198	32,100	---	---	---	---	---	---	164.03	8.55	155.48	---	---	---
MW-4	04/28/2006	1,490	46.8	2.80	21.2	24.8	---	344	14,800	---	---	---	---	---	---	164.03	9.02	155.01	---	---	---
MW-4	07/28/2006	951	5.09	<0.500	<0.500	<0.500	---	169	4,830	1.57	<0.500	<0.500	---	---	<50.0	164.03	9.19	154.84	---	---	---
MW-4	10/27/2006	1,620	21.5	2.65	13.2	10.3	---	173	5,150	---	---	---	---	---	---	164.03	9.01	155.02	---	---	---
MW-4	01/10/2007	740	56	2.4	23	24	---	190	7,500 f	---	---	---	---	---	---	164.03	6.95	157.08	---	---	---
MW-4	04/13/2007	1,500 g	130	20	100	138	---	120	6,300	---	---	---	---	---	---	164.03	7.51	156.52	---	---	---
MW-4	07/09/2007	650 g	65	5.3 h	36	33.2 h	---	130	6,000	<20	<20	<20	---	---	<1,000	164.03	7.85	156.18	---	---	---
MW-4	10/08/2007	840 g	100	23	70	120	---	120	5,300	---	---	---	---	---	---	164.03	8.50	155.53	---	---	---
MW-4	01/09/2008	2,200 g	130	38	130	264	---	160	5,400	---	---	---	---	---	---	164.03	8.33	155.70	---	---	---
MW-4	04/04/2008	1,700	93	24	74	145	---	110	3,700	---	---	---	---	---	---	164.03	6.63	157.40	---	---	---
MW-4	07/03/2008	1,400	87	15	54	109	---	88	3,900	<20	<20	<20	---	---	<1,000	164.03	8.25	155.78	---	---	---
MW-4	10/03/2008	1,000	61	12	41	78	---	84	3,700	---	---	---	---	---	---	164.03	8.54	155.49	---	---	---
MW-4	01/22/2009	800	26	5.4	14	26	---	81	4,100	---	---	---	---	---	---	164.03	7.40	156.63	---	---	---
MW-4	04/13/2009	2,000	100	26	64	130	---	69	3,200	---	---	---	---	---	---	164.03	6.91	157.12	---	---	---
MW-4	07/23/2009	1,500	180	54	86	200	---	85	2,500	<10	<10	<10	---	---	<500	164.03	7.97	156.06	---	---	---
MW-4	02/01/2010	1,400	120	44	57	120	---	81	2,900	---	---	---	---	---	---	164.03	6.05	157.98	---	---	---
MW-4	08/02/2010	340,000	5,300	5,800	7,700	26,000	---	62	1,800	---	---	---	---	---	---	164.03	6.48	157.65	0.12	---	---
MW-4	01/31/2011	9,700	47	62	340	1,100	---	77	1,300	---	---	---	<5.0	<5.0	---	164.03	6.67	157.36	---	---	---
MW-4	04/26/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.03	8.73	155.30	---	---	---
MW-4	07/25/2011	94,000	2,800	2,900	3,800	12,000	---	<100	<1,000	<100	<100	<100	---	---	<15,000	164.03	7.27	156.76	---	---	---
MW-4	10/13/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.03	7.57	156.46	---	---	---
MW-4	01/23/2012	6,100	83	61	230	510	---	46	150	---	---	---	---	---	---	164.03	5.82	158.21	---	---	---
MW-4	04/23/2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.03	6.50	157.53	---	---	---
MW-4	07/24/2012	5,400	95	33	160	410	---	42	67	<2.5	<2.5	<2.5	---	---	---	164.03	7.19	156.84	---	---	---
MW-4	11/07/2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.03	6.96	157.07	---	---	---
MW-4	01/23/2013	31,000	110	190	950	3,400	---	33	<500	---	---	---	---	---	---	164.03	6.75	157.28	---	---	---
MW-4	04/01/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.03	7.11	156.92	---	---	---
MW-4	07/10/2013	9,000	63	24	180	600	---	34	<100	<5.0	<5.0	<5.0	---	---	<1,500	164.03	7.15	156.88	---	---	---
MW-4	10/01/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.03	8.36	155.67	---	---	---
MW-4	01/16/2014	10,000	150	100	430	1,300	---	30	<100	---	---	---	---	---	---	164.03	8.41	155.62	---	---	---
MW-4	04/29/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.03	7.49	156.54	---	---	---
MW-4	07/10/2014	9,700	120	130	660	2,000	---	33	<100	<5.0	<5.0	<5.0	---	---	<1,500	164.03	8.28	155.75	---	---	---
MW-4	10/14/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.03	9.54	154.49	---	---	---
MW-4	01/27/2015	8,300	73	43	350	1,100	---	35	<50	---	---	---	---	---	---	164.03	6.90	157.13	---	---	---
MW-4	07/21/2015	12,000	37	19	280	820	---	31	<100	<5.0	<5.0	<5.0	---	---	<1,500	164.03	8.03	156.00	---	---	---
MW-4	**01/20/2016**	**5,500**	**20**	**6.1**	**120**	**360**	**---**	**41**	**<25**	**---**	**---**	**---**	**---**	**---**	**---**	**164.03**	**5.70**	**158.33**	**---**	**---**	**---**
MW-5	01/04/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5.62	---	---	---	---
MW-5	01/10/2002	<50	<0.50	<0.50	<0.50	<0.50	---	110	---	---	---	---	---	---	---	164.06	5.88	158.18	---	3.3	172

Table 1
Groundwater Data
Former Shell Service Station, 4255 Macarthur Boulevard, 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)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)	TOC (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	SPH Thickness (ft)	DO Reading (mg/L)	ORP Reading (mV)
MW-5	04/25/2002	<50	<0.50	<0.50	<0.50	<0.50	---	73	---	---	---	---	---	---	---	164.06	6.81	157.25	---	0.3	-44
MW-5	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50	---	75	---	---	---	---	---	---	---	164.06	7.38	156.68	---	0.4	170
MW-5	10/07/2002	<50	<0.50	<0.50	<0.50	<0.50	---	41	---	---	---	---	---	---	---	164.14	6.75	157.39	---	1.5	16
MW-5	01/06/2003	<50	<0.50	<0.50	<0.50	<0.50	---	81	---	---	---	---	---	---	---	164.14	5.96	158.18	---	0.6	166
MW-5	04/07/2003	<50	<0.50	<0.50	<0.50	<1.0	---	77	28	---	---	---	---	---	---	164.14	6.51	157.63	---	0.8	174
MW-5	07/07/2003	<50	<0.50	<0.50	<0.50	<1.0	---	32	23	---	---	---	---	---	---	164.14	6.44	157.70	---	0.3	-17
MW-5	10/09/2003	<50	<0.50	<0.50	<0.50	<1.0	---	59	40	---	---	---	---	---	---	164.14	7.05	157.09	---	0.9	17
MW-5	01/14/2004	<50	<0.50	0.76	<0.50	<1.0	---	47	17	---	---	---	---	---	---	164.14	6.29	157.85	---	1.6	209
MW-5	04/28/2004	<50	<0.50	<0.50	<0.50	<1.0	---	31	11	---	---	---	---	---	---	164.14	6.84	157.30	---	0.4	136
MW-5	07/12/2004	<50	<0.50	<0.50	<0.50	<1.0	---	47	12	<2.0	<2.0	<2.0	---	---	<50	164.14	7.57	156.57	---	0.4	90
MW-5	10/25/2004	<50	<0.50	<0.50	<0.50	<1.0	---	41	13	---	---	---	---	---	---	164.14	6.50	157.64	---	1.74	-21
MW-5	01/17/2005	<50	<0.50	<0.50	<0.50	<1.0	---	41	12	---	---	---	---	---	---	164.14	5.83	158.31	---	0.1	-7
MW-5	04/06/2005	<50	<0.50	<0.50	<0.50	<1.0	---	12	<5.0	---	---	---	---	---	---	164.14	5.91	158.23	---	1.05	-62
MW-5	07/08/2005	<50	<0.50	<0.50	<0.50	<0.50	---	26	18	<0.50	<0.50	<0.50	---	---	<5.0	164.14	6.78	157.36	---	1.2	81
MW-5	10/07/2005	<50	<0.50	<0.50	<0.50	<1.0	---	28	24	---	---	---	---	---	---	164.14	7.64	156.50	---	---	---
MW-5	01/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	26.7	46.3	---	---	---	---	---	---	164.14	6.21	157.93	---	---	---
MW-5	04/28/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	39.1	15.0	---	---	---	---	---	---	164.14	6.05	158.09	---	---	---
MW-5	07/28/2006	103	<0.500	<0.500	<0.500	<0.500	---	35.5	<10.0	<0.500	<0.500	<0.500	---	---	<50.0	164.14	7.54	156.60	---	---	---
MW-5	10/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	19.7	26.0 d	---	---	---	---	---	---	164.14	7.91	156.23	---	---	---
MW-5	01/10/2007	<50	<0.50	<0.50	<0.50	<1.0	---	11	16	---	---	---	---	---	---	164.14	6.38	157.76	---	---	---
MW-5	04/13/2007	76 c,g	<0.50	<1.0	<1.0	<1.0	---	35	37	---	---	---	---	---	---	164.14	6.58	157.56	---	---	---
MW-5	07/09/2007	<50 g	<0.50	<1.0	<1.0	<1.0	---	26	34	<2.0	<2.0	<2.0	---	---	<100	164.14	7.28	156.86	---	---	---
MW-5	10/08/2007	<50 g	<0.50	<1.0	<1.0	<1.0	---	25	28	---	---	---	---	---	---	164.14	8.01	156.13	---	---	---
MW-5	01/09/2008	<50 g	0.15 h	<1.0	<1.0	<1.0	---	11	7.6 h	---	---	---	---	---	---	164.14	5.45	158.69	---	---	---
MW-5	04/04/2008	50	<0.50	<1.0	<1.0	<1.0	---	17	<10	---	---	---	---	---	---	164.14	6.61	157.53	---	---	---
MW-5	07/03/2008	<50	<0.50	<1.0	<1.0	<1.0	---	16	11	<2.0	<2.0	<2.0	---	---	<100	164.14	7.40	156.74	---	---	---
MW-5	10/03/2008	<50	<0.50	<1.0	<1.0	<1.0	---	17	14	---	---	---	---	---	---	164.14	7.90	156.24	---	---	---
MW-5	01/22/2009	<50	<0.50	<1.0	<1.0	<1.0	---	9.2	<10	---	---	---	---	---	---	164.14	6.30	157.84	---	---	---
MW-5	04/13/2009	<50	<0.50	<1.0	<1.0	<1.0	---	8.4	<10	---	---	---	---	---	---	164.14	6.42	157.72	---	---	---
MW-5	07/23/2009	<50	<0.50	<1.0	<1.0	<1.0	---	15	<10	<2.0	<2.0	<2.0	---	---	<100	164.14	7.60	156.54	---	---	---
MW-5	02/01/2010	<50	<0.50	<1.0	<1.0	<1.0	---	9.0	<10	---	---	---	---	---	---	164.14	5.80	158.34	---	---	---
MW-5	08/02/2010	<50	<0.50	<1.0	<1.0	<1.0	---	7.5	<10	---	---	---	---	---	---	164.14	7.00	157.14	---	---	---
MW-5	01/31/2011	<50	<0.50	<0.50	<0.50	<1.0	---	7.5	<10	---	---	---	<0.50	<0.50	---	164.14	5.79	158.35	---	---	---
MW-5	07/25/2011	Unable to locate		---	---	---	---	---	---	---	---	---	---	---	---	164.14	---	---	---	---	---
MW-5	01/23/2012	<50	<0.50	<0.50	<0.50	<1.0	---	5.7	<10	---	---	---	---	---	---	164.14	5.40	158.74	---	---	---
MW-5	07/24/2012	<50	<0.50	<0.50	<0.50	<1.0	---	9.0	<10	<0.50	<0.50	<0.50	---	---	---	164.14	6.45	157.69	---	---	---
MW-5	01/23/2013	<50	<0.50	<0.50	<0.50	<1.0	---	6.0	<10	---	---	---	---	---	---	164.14	6.32	157.82	---	---	---
MW-5	07/10/2013	<50	<0.50	<0.50	<0.50	<1.0	---	6.8	<10	<0.50	<0.50	<0.50	---	---	<150	164.14	6.68	157.46	---	---	---
MW-5	01/16/2014	<50	<0.50	<0.50	<0.50	<1.0	---	2.5	<10	---	---	---	---	---	---	164.14	7.86	156.28	---	---	---
MW-5	07/10/2014	<50	<0.50	<0.50	<0.50	<1.0	---	6.0	<10	<0.50	<0.50	<0.50	---	---	<150	164.14	7.66	156.48	---	---	---
MW-5	01/27/2015	<50	<0.50	<0.50	<0.50	<1.0	---	2.9	<10	---	---	---	---	---	---	164.14	6.47	157.67	---	---	---

Table 1
Groundwater Data
Former Shell Service Station, 4255 Macarthur Boulevard, 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)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)	TOC (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	SPH Thickness (ft)	DO Reading (mg/L)	ORP Reading (mV)
MW-5	07/21/2015	<50	<0.50	<0.50	<0.50	<1.0	---	3.0	<10	<0.50	<0.50	<0.50	---	---	<150	164.14	7.94	156.20	---	---	---
MW-5	**01/20/2016**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**1.1**	**<10**	**---**	**---**	**---**	**---**	**---**	**---**	**164.14**	**4.80**	**159.34**	**---**	**---**	**---**
MW-6	06/26/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	169.89	10.25	159.64	---	---	---
MW-6	07/28/2006	19,200	1,290	41.7	141	245	---	777	8,340	3.37	<0.500	<0.500	---	---	<50.0	169.89	11.00	158.89	---	---	---
MW-6	10/27/2006	11,400	1,250	41.0	155	242	---	569	7,270	---	---	---	---	---	---	169.89	11.41	158.48	---	---	---
MW-6	01/10/2007	7,000	1,000	26	270	240	---	770	17,000	---	---	---	---	---	---	169.89	9.43	160.46	---	---	---
MW-6	04/13/2007	4,200 g	820	22	72	71	---	490	9,500	---	---	---	---	---	---	169.89	9.81	160.08	---	---	---
MW-6	07/09/2007	6,100 g	960	23	65	116	---	280	8,400	<40	<40	<40	---	---	<2,000	169.89	10.80	159.09	---	---	---
MW-6	10/08/2007	3,600 g	960	17 h	27	76 h	---	260	7,000	---	---	---	---	---	---	169.89	11.64	158.25	---	---	---
MW-6	01/09/2008	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	169.89	---	---	---	---	---
MW-6	01/22/2008	4,100 g	610	14 h	31	19 h	---	180	7,700	---	---	---	---	---	---	169.89	8.81	161.08	---	---	---
MW-6	04/04/2008	6,100	760	<20	20	29	---	240	6,900	---	---	---	---	---	---	169.89	10.01	159.88	---	---	---
MW-6	07/03/2008	7,100	1,100	<20	25	50	---	220	9,400	<40	<40	<40	---	---	<2,000	169.89	10.94	158.95	---	---	---
MW-6	10/03/2008	7,400	1,000	<20	<20	116	---	270	8,400	---	---	---	---	---	---	169.89	11.87	158.02	---	---	---
MW-6	01/22/2009	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	169.89	---	---	---	---	---
MW-6	04/13/2009	5,300	690	<20	35	47	---	210	9,000	---	---	---	---	---	---	169.89	9.70	160.19	---	---	---
MW-6	07/23/2009	6,800	1,100	<20	<20	42	---	220	7,400	<40	<40	<40	---	---	<2000	169.89	11.09	158.80	---	---	---
MW-6	02/01/2010	4,000	460	<10	<10	<10	---	88	8,400	---	---	---	---	---	---	169.89	8.05	161.84	---	---	---
MW-6	08/02/2010	7,600	860	15	18	49	---	97	6,800	---	---	---	---	---	---	169.89	10.50	159.39	---	---	---
MW-6	01/31/2011	2,800	370	11	19	26	---	170	4,800	---	---	---	<5.0	<5.0	---	169.89	8.52	161.37	---	---	---
MW-6	07/25/2011	4,600	730	13	6.5	18	---	110	5,500	<10	<10	<10	---	---	<1,500	169.89	10.08	159.81	---	---	---
MW-6	01/23/2012	2,100	300	5.3	5.1	13	---	61	3,100	---	---	---	---	---	---	169.89	8.18	161.71	---	---	---
MW-6	07/24/2012	3,400	510	8.8	5.8	14	---	110	5,100	<5.0	<5.0	<5.0	---	---	---	169.89	10.01	159.88	---	---	---
MW-6	01/23/2013	2,400	260	5.4	30	15	---	110	4,600	---	---	---	---	---	---	169.89	9.62	160.27	---	---	---
MW-6	07/10/2013	3,000	390	6.3	<5.0	12	---	110	4,300	<5.0	<5.0	<5.0	---	---	<1,500	169.89	9.94	159.95	---	---	---
MW-6	01/16/2014	3,500	500	9.3	9.0	14	---	64	3,900	---	---	---	---	---	---	169.89	11.10	158.79	---	---	---
MW-6	07/10/2014	3,300	400	9.4	8.7	26	---	150	5,200	<5.0	<5.0	<5.0	---	---	<1,500	169.89	11.11	158.80	---	---	---
MW-6	01/27/2015	3,300	400	8.4	9.7	15	---	67	3,600	---	---	---	---	---	---	169.89	9.91	158.81	---	---	---
MW-6	07/21/2015	4,700	680	9.2	<5.0	14	---	73	4,400	<5.0	<5.0	<5.0	---	---	<1,500	169.89	11.03	158.86	---	---	---
MW-6	**01/20/2016**	**1,100**	**82**	**1.8**	**0.89**	**4.0**	**---**	**32**	**1,500**	**---**	**---**	**---**	**---**	**---**	**---**	**169.89**	**6.90**	**158.82**	**---**	**---**	**---**
MW-7	06/26/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.87	9.59	161.28	---	---	---
MW-7	07/28/2006	5,860	72.0	6.67	25.4	165	---	3,940	1,420	<0.500	<0.500	2.89	---	---	<50.0	170.87	10.08	160.79	---	---	---
MW-7	10/27/2006	1,180	8.67	<0.500	2.48	7.52	---	1,100	184	---	---	---	---	---	---	170.87	10.13	160.74	---	---	---
MW-7	01/10/2007	1,000	12	<5.0	<5.0	<10	---	2,200 f	2,400	---	---	---	---	---	---	170.87	8.41	162.46	---	---	---
MW-7	04/13/2007	1,100 c,g	54	<20	18 h	23.5 h	---	2,500	3,800	---	---	---	---	---	---	170.87	8.25	162.62	---	---	---
MW-7	07/09/2007	1,100 g	41	<20	8.8 h	4.5 h	---	2,000	1,200	<40	<40	<40	---	---	<2,000	170.87	9.22	161.65	---	---	---
MW-7	10/08/2007	400 g	25	<20	<20	<20	---	1,500	740	---	---	---	---	---	---	170.87	9.41	161.46	---	---	---
MW-7	01/09/2008	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.87	---	---	---	---	---
MW-7	01/22/2008	160 g	32	<10	<10	<10	---	1,900	820	---	---	---	---	---	---	170.87	7.63	163.24	---	---	---

Table 1
Groundwater Data
Former Shell Service Station, 4255 Macarthur Boulevard, 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)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)	TOC (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	SPH Thickness (ft)	DO Reading (mg/L)	ORP Reading (mV)
MW-7	04/04/2008	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.87	---	---	---	---	---
MW-7	07/03/2008	1,500	11	<10	<10	<10	---	1,700	680	<20	<20	<20	---	---	<1,000	170.87	8.96	161.91	---	---	---
MW-7	10/03/2008	1,000	5.6	<10	<10	<10	---	970	550	---	---	---	---	---	---	170.87	9.57	161.30	---	---	---
MW-7	01/22/2009	880	<5.0	<10	<10	18	---	550	250	---	---	---	---	---	---	170.87	8.60	162.27	---	---	---
MW-7	04/13/2009	1,400	15	<10	<10	<10	---	820	440	---	---	---	---	---	---	170.87	8.24	162.63	---	---	---
MW-7	07/23/2009	1,400	12	<10	<10	<10	---	1,300	550	<20	<20	<20	---	---	<1000	170.87	9.10	161.77	---	---	---
MW-7	02/01/2010	1,300	20	<10	<10	<10	---	1,300	920	---	---	---	---	---	---	170.87	6.81	164.06	---	---	---
MW-7	08/02/2010	780	10	<5.0	<5.0	<5.0	---	890	680	---	---	---	---	---	---	170.87	8.55	162.32	---	---	---
MW-7	01/31/2011	340	12	3.2	6.1	17	---	390	480	---	---	---	<2.5	<2.5	---	170.87	7.58	163.29	---	---	---
MW-7	07/25/2011	480 c	8.8	<2.5	3.8	5.8	---	500	480	<5.0	<5.0	<5.0	---	---	<750	170.87	8.11	162.76	---	---	---
MW-7	01/23/2012	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.87	---	---	---	---	---
MW-7	07/24/2012	610	9.2	<2.5	<2.5	6.6	---	540	600	<2.5	<2.5	<2.5	---	---	---	170.87	8.30	162.57	---	---	---
MW-7	01/23/2013	700	26	<5.0	<5.0	15	---	520	640	---	---	---	---	---	---	170.87	7.79	163.08	---	---	---
MW-7	07/10/2013	710	10	<5.0	<5.0	<10	---	550	520	<5.0	<5.0	<5.0	---	---	<1,500	170.87	8.37	162.50	---	---	---
MW-7	01/16/2014	<500	<5.0	<5.0	<5.0	<10	---	170	<100	---	---	---	---	---	---	170.87	9.13	161.74	---	---	---
MW-7	07/10/2014	590 i	11	<2.5	<2.5	5.4	---	500	490	<2.5	<2.5	<2.5	---	---	<750	170.87	8.82	162.05	---	---	---
MW-7	01/27/2015	510 i	9.6	<2.5	<2.5	<5.0	---	310	350	---	---	---	---	---	---	170.87	7.95	162.92	---	---	---
MW-7	07/21/2015	260 i	3.2	<2.5	<2.5	<5.0	---	220	320	<2.5	<2.5	<2.5	---	---	<750	170.87	8.79	162.08	---	---	---
MW-7	**01/20/2016**	**Unable to access**		**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**170.87**	**---**	**---**	**---**	**---**	**---**
MW-7	**02/22/2016**	**650**	**90**	**<5.0**	**<5.0**	**18**	**---**	**480**	**1,100**	**---**	**---**	**---**	**---**	**---**	**---**	**170.87**	**7.43**	**163.44**	**---**	**---**	**---**
MW-8	06/26/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.13	4.53	169.60	---	---	---
MW-8	07/28/2006	2,300	<0.500	<0.500	<0.500	<0.500	---	1,380	<10.0	<0.500	<0.500	0.950	---	---	<50.0	174.13	4.55	169.58	---	---	---
MW-8	10/27/2006	1,570	2.79 e	<0.500	<0.500	<0.500	---	1,280 e	<10.0	---	---	---	---	---	---	174.13	4.87	169.26	---	---	---
MW-8	01/10/2007	540	<2.5	<2.5	<2.5	<5.0	---	1,200 f	750	---	---	---	---	---	---	174.13	4.17	169.96	---	---	---
MW-8	04/13/2007	450 c,g	<5.0	<10	<10	<10	---	1,400	<100	---	---	---	---	---	---	174.13	4.13	170.00	---	---	---
MW-8	07/09/2007	590 g	<5.0	<10	<10	<10	---	1,000	<100	<20	<20	<20	---	---	<1,000	174.13	6.33	167.80	---	---	---
MW-8	10/08/2007	270 c,g	<5.0	<10	<10	<10	---	1,200	<100	---	---	---	---	---	---	174.13	5.63	168.50	---	---	---
MW-8	01/09/2008	200 c,g	<2.5	<5.0	<5.0	<5.0	---	370	<50	---	---	---	---	---	---	174.13	4.17	169.96	---	---	---
MW-8	04/04/2008	1,000	<5.0	<10	<10	<10	---	930	<100	---	---	---	---	---	---	174.13	4.36	169.77	---	---	---
MW-8	07/03/2008	960	<5.0	<10	<10	<10	---	1,000	<100	<20	<20	<20	---	---	<1,000	174.13	5.05	169.08	---	---	---
MW-8	10/03/2008	820	<5.0	<10	<10	<10	---	830	<100	---	---	---	---	---	---	174.13	5.54	168.59	---	---	---
MW-8	01/22/2009	1,000	<2.5	<5.0	<5.0	<5.0	---	740	<50	---	---	---	---	---	---	174.13	5.00	169.13	---	---	---
MW-8	04/13/2009	810	<2.5	<5.0	<5.0	<5.0	---	520	<50	---	---	---	---	---	---	174.13	4.51	169.62	---	---	---
MW-8	07/23/2009	840	<2.5	<5.0	<5.0	<5.0	---	830	<50	<10	<10	<10	---	---	<500	174.13	4.92	169.21	---	---	---
MW-8	02/01/2010	270	<1.0	<2.0	<2.0	<2.0	---	260	<20	---	---	---	---	---	---	174.13	3.65	170.48	---	---	---
MW-8	08/02/2010	430	<2.5	<5.0	<5.0	<5.0	---	480	<50	---	---	---	---	---	---	174.13	4.52	169.61	---	---	---
MW-8	01/31/2011	<250	<2.5	<2.5	<2.5	<5.0	---	380	300	---	---	---	<2.5	<2.5	---	174.13	4.29	169.84	---	---	---
MW-8	07/25/2011	300 c	<2.0	<2.0	<2.0	<4.0	---	350	<40	<4.0	<4.0	<4.0	---	---	<600	174.13	4.56	169.57	---	---	---
MW-8	01/23/2012	<250	<2.5	<2.5	<2.5	<5.0	---	320	98	---	---	---	---	---	---	174.13	4.49	169.64	---	---	---
MW-8	07/24/2012	350	<2.5	<2.5	<2.5	<5.0	---	330	<50	<2.5	<2.5	<2.5	---	---	---	174.13	4.85	169.28	---	---	---

Table 1
Groundwater Data
Former Shell Service Station, 4255 Macarthur Boulevard, 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)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)	TOC (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	SPH Thickness (ft)	DO Reading (mg/L)	ORP Reading (mV)
MW-8	01/23/2013	290	<2.5	<2.5	<2.5	<5.0	---	270	100	---	---	---	---	---	---	174.13	4.25	169.88	---	---	---
MW-8	07/10/2013	290	<2.5	<2.5	<2.5	<5.0	---	250	<50	<2.5	<2.5	<2.5	---	---	<750	174.13	4.95	169.18	---	---	---
MW-8	01/16/2014	<250	<2.5	<2.5	<2.5	<5.0	---	230	<50	---	---	---	---	---	---	174.13	5.60	168.53	---	---	---
MW-8	07/10/2014	<250	<2.5	<2.5	<2.5	<5.0	---	210	<50	<2.5	<2.5	<2.5	---	---	<750	174.13	4.92	169.21	---	---	---
MW-8	01/27/2015	280 i	<2.5	<2.5	<2.5	<5.0	---	150	<50	---	---	---	---	---	---	174.13	4.45	169.68	---	---	---
MW-8	07/21/2015	<50	<0.50	<0.50	<0.50	<1.0	---	41	<10	<0.50	<0.50	<0.50	---	---	<150	174.13	5.15	168.98	---	---	---
MW-8	**01/20/2016**	**120 i**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**130**	**<10**	**---**	**---**	**---**	**---**	**---**	**---**	**174.13**	**3.66**	**170.47**	**---**	**---**	**---**
MW-9	06/26/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	175.20	6.41	168.79	---	---	---
MW-9	07/28/2006	5,690	19.2	2.64	2.02	57.7	---	5,780	166	<0.500	<0.500	2.74	---	---	<50.0	175.20	6.69	168.51	---	---	---
MW-9	10/27/2006	2,710	34.2	<0.500	2.76	4.75	---	2,140	29.2 d	---	---	---	---	---	---	175.20	6.90	168.30	---	---	---
MW-9	01/10/2007	1,500	340	6.8	8.9	27	---	2,300 f	1,400	---	---	---	---	---	---	175.20	6.14	169.06	---	---	---
MW-9	04/13/2007	1,600 c,g	390	4.1 h	8.6 h	4.7 h	---	3,700	120	---	---	---	---	---	---	175.20	6.17	169.03	---	---	---
MW-9	07/09/2007	1,200 g	55	<25	<25	<25	---	2,500	<250	<50	<50	<50	---	---	<2,500	175.20	6.65	168.55	---	---	---
MW-9	10/08/2007	520 c,g	9.1 h	<25	<25	<25	---	2,500	<250	---	---	---	---	---	---	175.20	7.58	167.62	---	---	---
MW-9	01/09/2008	350 c,g	3.4 h	<10	<10	<10	---	650	<100	---	---	---	---	---	---	175.20	6.30	168.90	---	---	---
MW-9	04/04/2008	1,500	88	<10	<10	<10	---	1,200	<100	---	---	---	---	---	---	175.20	6.05	169.15	---	---	---
MW-9	07/03/2008	2,600	70	<10	<10	<10	---	2,800	<100	<20	<20	<20	---	---	<1,000	175.20	7.00	168.20	---	---	---
MW-9	10/03/2008	2,600	160	<20	<20	<20	---	2,400	<200	---	---	---	---	---	---	175.20	7.39	167.81	---	---	---
MW-9	01/22/2009	2,900	130	<20	<20	30	---	1,900	<200	---	---	---	---	---	---	175.20	7.00	168.20	---	---	---
MW-9	04/13/2009	5,200	590	24	60	89	---	1,600	230	---	---	---	---	---	---	175.20	6.47	168.73	---	---	---
MW-9	07/23/2009	6,300	830	30	150	130	---	3,200	170	<20	<20	<20	---	---	<1000	175.20	7.05	168.15	---	---	---
MW-9	02/01/2010	18,000	1,900	130	770	1,200	---	2,400	430	---	---	---	---	---	---	175.20	5.70	169.50	---	---	---
MW-9	08/02/2010	2,200	270	<10	99	36	---	1,200	280	---	---	---	---	---	---	175.20	6.50	168.70	---	---	---
MW-9	01/31/2011	1,100	120	9.5	60	63	---	1,100	1,000	---	---	---	<5.0	<5.0	---	175.20	6.21	168.99	---	---	---
MW-9	07/25/2011	1,200	210	<5.0	67	15	---	710	480	<10	<10	<10	---	---	<1,500	175.20	6.53	168.67	---	---	---
MW-9	01/23/2012	390	9.9	<1.0	4.7	5.8	---	460	370	---	---	---	---	---	---	175.20	6.49	168.71	---	---	---
MW-9	07/24/2012	970	91	<5.0	15	<10	---	660	530	<5.0	<5.0	<5.0	---	---	---	175.20	6.95	168.25	---	---	---
MW-9	01/23/2013	940	84	<5.0	20	<10	---	640	540	---	---	---	---	---	---	175.20	6.24	168.96	---	---	---
MW-9	07/10/2013	540	10	<5.0	<5.0	<10	---	360	290	<5.0	<5.0	<5.0	---	---	<1,500	175.20	7.09	168.11	---	---	---
MW-9	01/16/2014	240 i	<1.3	<1.3	<1.3	<2.5	---	250	170	---	---	---	---	---	---	175.20	7.70	167.50	---	---	---
MW-9	07/10/2014	340 i	<1.0	<1.0	<1.0	<2.0	---	350	94	<1.0	<1.0	<1.0	---	---	<300	175.20	7.12	168.08	---	---	---
MW-9	01/27/2015	140 i	<1.0	<1.0	<1.0	<2.0	---	86	97	---	---	---	---	---	---	175.20	6.61	168.59	---	---	---
MW-9	07/21/2015	310 i	<1.0	<1.0	<1.0	<2.0	---	300	52	<1.0	<1.0	<1.0	---	---	<300	175.20	7.32	167.88	---	---	---
MW-9	**01/20/2016**	**130 i**	**0.61**	**<0.50**	**<0.50**	**<1.0**	**---**	**130**	**18**	**---**	**---**	**---**	**---**	**---**	**---**	**175.20**	**5.87**	**169.33**	**---**	**---**	**---**
TB-1	04/29/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6.00	---	---	3.8	-132
TB-1	11/01/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	12.65	---	---	0.2	-165
TB-1	01/17/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.72	---	---	0.8	-178
TB-1	04/17/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.65	---	---	0.5	-152
TB-1	07/26/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5.13	---	---	1.0	-124

Table 1
Groundwater Data
Former Shell Service Station, 4255 Macarthur Boulevard, 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)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)	TOC (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	SPH Thickness (ft)	DO Reading (mg/L)	ORP Reading (mV)
TB-1	10/12/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5.20	---	---	0.7	-73
TB-1	01/15/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5.09	---	---	1.2	-118
TB-1	04/09/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.96	---	---	1.0	-72
TB-1	07/24/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6.03	---	---	1.4	31
TB-1	10/31/2001	1,000	85	<10	<10	42	---	4,100	---	---	---	---	---	---	---	---	5.89	---	---	1.8	88
TB-1	01/10/2002	5,000	410	390	65	620	---	9,000	---	---	---	---	---	---	---	---	7.47	---	---	2.0	95
TB-1	04/25/2002	5,000	780	60	49	91	---	6,000	---	---	---	---	---	---	---	---	11.71	---	---	1.7	-136
TB-1	07/18/2002	Insufficient water		---	---	---	---	---	---	---	---	---	---	---	---	---	13.50	---	---	---	---
TB-1	10/07/2002	4,600	480	36	98	200	---	4,000	---	---	---	---	---	---	---	---	12.95	---	---	1.6	-48
TB-1	01/06/2003	130	30	<0.50	<0.50	0.78	---	330	---	---	---	---	---	---	---	---	5.56	---	---	0.4	-20
TB-2	04/29/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.76	---	---	4.2	-108
TB-2	11/01/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	11.33	---	---	0.5	-148
TB-2	01/17/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.79	---	---	0.7	-162
TB-2	04/17/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.75	---	---	0.9	-121
TB-2	07/26/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.73	---	---	0.9	-85
TB-2	10/12/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.05	---	---	0.6	-47
TB-2	01/15/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.87	---	---	0.7	-91
TB-2	04/09/2001	46,600	1,240	1,310	1,110	12,100	31,300	---	---	---	---	---	---	---	---	---	3.76	---	---	0.8	-24
TB-2	07/24/2001	11,000	630	<25	310	200	---	11,000	---	---	---	---	---	---	---	---	4.75	---	---	0.4	-51
TB-2	10/31/2001	7,500	530	1,500	100	500	---	2,500	---	---	---	---	---	---	---	---	4.24	---	---	0.6	-7
TB-2	01/10/2002	<5,000	480	47	34	110	---	12,000	---	---	---	---	---	---	---	---	6.26	---	---	1.3	-81
TB-2	04/25/2002	4,700	470	140	<20	80	---	7,400	---	---	---	---	---	---	---	---	11.78	---	---	0.9	-107
TB-2	07/18/2002	7,500	630	650	<25	390	---	44,000	---	---	---	---	---	---	---	---	12.34	---	---	0.9	-67
TB-2	10/07/2002	<10,000	580	<100	<100	180	---	30,000	---	---	---	---	---	---	---	---	11.62	---	---	1.0	-41
TB-2	01/06/2003	120	4.8	<0.50	<0.50	2.0	---	220	---	---	---	---	---	---	---	---	4.35	---	---	0.5	-515

Notes: *See Following Page*

Table 1
Groundwater Data
Former Shell Service Station, 4255 Macarthur Boulevard, Oakland, California

Notes:

TPHg	=	Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to July 24, 2001, analyzed by EPA Method 8015 unless otherwise noted.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to July 24, 2001, analyzed by EPA Method 8020.
MTBE	=	Methyl tertiary-butyl ether analyzed by method as noted
TBA	=	Tertiary-butyl alcohol analyzed by EPA Method 8260B
DIPE	=	Di-isopropyl ether analyzed by EPA Method 8260B
ETBE	=	Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME	=	Tertiary-amyl methyl ether analyzed by EPA Method 8260B
EDB	=	1,2-Dibromoethane analyzed by EPA Method 8260B
1,2-DCA	=	1,2-Dichloroethane analyzed by EPA Method 8260B
Ethanol analyzed by EPA Method 8260B		
TOC	=	Top of casing elevation, in feet relative to mean sea level
SPH	=	Separate-phase hydrocarbon
GW	=	Groundwater
DO	=	Dissolved oxygen
ORP	=	Oxidation reduction potential
µg/L	=	Micrograms per liter
ft	=	Feet
AMSL	=	Above mean sea level
mg/L	=	Milligrams per liter
mV	=	Millivolts
<X.XX	=	Not detected at reporting limit X.XX
---	=	Not analyzed or not available
(D)	=	Duplicate sample
a	=	Groundwater surface had a sheen when sampled.
b	=	MTBE value is estimated by laboratory
c	=	The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.
d	=	Secondary ion abundances were outside method requirements. Identification based on analytical judgment.
e	=	pH>2
f	=	Sample analyzed outside the EPA recommended holding time.
g	=	Analyzed by EPA Method 8015B (M).
h	=	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
i	=	TPHg concentration is due to the presence of a discrete peak of MTBE.
j	=	Analyte identified by retention time and presence of single mass ion.

When SPHs are present, groundwater elevation is adjusted using the relation: Corrected groundwater elevation = TOC - Depth to Water + (0.8 x Hydrocarbon Thickness).
Site wells surveyed March 14, 2002 by Virgil Chavez Land Surveying
Wells MW-6, MW-7, MW-8 and MW-9 surveyed July 12, 2006 by Virgil Chavez Land Surveying

Table 2
Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station, 4255 Macarthur Boulevard, Oakland, California

Well ID	Date	SPHs observed in 2" bailer (feet)	SPHs observed in 2" bailer/ skimmer (ml)	SPHs measured with interface probe (feet)	SPH calculated volume (ml)	Bailer / Skimmer			Sock			
						SPHs removed (ml)	SPHs removed (pounds)	Cumulative SPHs removed (pounds)	Initial weight (pounds)	Final weight (pounds)	SPHs removed (pounds)	Cumulative SPHs removed (pounds)
MW-2	07/25/1995	---	---	0.52	1279	0	0.00	0.00	---	---	---	0.00
MW-2	08/10/1995	---	---	0.56	1378	2,000	3.28	3.28	---	---	---	0.00
MW-2	10/18/1995	---	---	0.13	320	0	0.00	3.28	---	---	---	0.00
MW-2	01/17/1996	---	---	0.17	418	1,000	1.64	4.93	---	---	---	0.00
MW-2	04/25/1996	---	---	0.03	74	400	0.66	5.58	---	---	---	0.00
MW-2	07/17/1996	---	---	0.48	1181	1,200	1.97	7.55	---	---	---	0.00
MW-2	10/01/1996	---	---	0.28	689	500	0.82	8.37	---	---	---	0.00
MW-2	01/22/1997	---	---	0.11	271	300	0.49	8.87	---	---	---	0.00
MW-2	04/08/1997	---	---	0.20	492	600	0.99	9.85	---	---	---	0.00
MW-2	07/08/1997	---	---	0.19	467	600	0.99	10.84	---	---	---	0.00
MW-2	10/08/1997	---	---	0.05	123	500	0.82	11.66	---	---	---	0.00
MW-2	01/08/1998	---	---	0.08	197	800	1.31	12.97	---	---	---	0.00
MW-2	04/13/1998	---	10	0.00	0	10	0.02	12.99	---	---	---	0.00
MW-2	07/17/1998	---	---	0.10	246	500	0.82	13.81	---	---	---	0.00
MW-2	10/02/1998	---	---	0.11	271	500	0.82	14.63	---	---	---	0.00
MW-2	02/03/1999	---	---	0.08	197	150	0.25	14.88	---	---	---	0.00
MW-2	04/29/1999	---	---	0.05	123	200	0.33	15.21	---	---	---	0.00
MW-2	07/23/1999	---	---	0.00	0	0	0.00	15.21	---	---	---	0.00
MW-2	11/01/1999	---	20	0.03	74	35	0.06	15.26	---	---	---	0.00
MW-2	01/17/2000	---	200	0.00	0	200	0.33	15.59	---	---	---	0.00
MW-2	04/17/2000	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	07/26/2000	---	0	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	10/12/2000	---	0	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	01/15/2001	---	0	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	04/09/2001	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	07/24/2001	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	10/31/2001	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	01/10/2002	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	04/25/2002	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	10/07/2002	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	01/06/2003	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	04/07/2003	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00

Table 2
Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station, 4255 Macarthur Boulevard, Oakland, California

Well ID	Date	SPHs observed in 2" bailer (feet)	SPHs observed in 2" bailer/ skimmer (ml)	SPHs measured with interface probe (feet)	SPH calculated volume (ml)	Bailer / Skimmer			Sock			
						SPHs removed (ml)	SPHs removed (pounds)	Cumulative SPHs removed (pounds)	Initial weight (pounds)	Final weight (pounds)	SPHs removed (pounds)	Cumulative SPHs removed (pounds)
MW-2	07/07/2003	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	10/09/2003	---	---	0.03	74	0	0.00	15.59	---	---	---	0.00
MW-2	10/20/2003	---	---	0.04	98	100	0.16	15.76	---	---	---	0.00
MW-2	01/14/2004	---	---	0.01	25	25	0.04	15.80	---	---	---	0.00
MW-2	04/28/2004	---	---	0.00	0	0	0.00	15.80	---	---	---	0.00
MW-2	07/12/2004	---	---	0.03	74	73	0.12	15.92	---	---	---	0.00
MW-2	10/25/2004	---	---	0.01	25	15	0.02	15.94	---	---	---	0.00
MW-2	01/17/2005	---	---	0.00	0	0	0.00	15.94	---	---	---	0.00
MW-2	04/06/2005	---	---	0.00	0	0	0.00	15.94	---	---	---	0.00
MW-2	07/08/2005	---	---	0.02	49	49	0.08	16.02	---	---	---	0.00
MW-2	10/07/2005	---	---	0.02	49	250	0.41	16.43	---	---	---	0.00
MW-2	01/27/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	03/16/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	04/28/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	05/15/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	07/28/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	08/31/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	09/26/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	10/27/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	11/22/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	12/26/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	01/10/2007	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	02/19/2007	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	03/16/2007	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	04/13/2007	---	---	0.02	49	49	0.08	16.51	---	---	---	0.00
MW-2	07/09/2007	---	---	0.11	271	271	0.45	16.96	---	---	---	0.00
MW-2	10/08/2007	---	---	0.19	467	467	0.77	17.72	---	---	---	0.00
MW-2	01/09/2008	Unable to access		---	---	0	0.00	17.72	---	---	---	0.00
MW-2	02/21/2008	---	---	0.00	0	0	0.00	17.72	---	---	---	0.00
MW-2	03/20/2008	---	---	0.02	49	49	0.08	17.81	---	---	---	0.00
MW-2	04/04/2008	Unable to access		---	---	0	0.00	17.81	---	---	---	0.00
MW-2	05/27/2008	---	---	0.03	74	73	0.12	17.92	---	---	---	0.00

Table 2
Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station, 4255 Macarthur Boulevard, Oakland, California

Well ID	Date	SPHs observed in 2" bailer (feet)	SPHs observed in 2" bailer/ skimmer (ml)	SPHs measured with interface probe (feet)	SPH calculated volume (ml)	Bailer / Skimmer			Sock			
						SPHs removed (ml)	SPHs removed (pounds)	Cumulative SPHs removed (pounds)	Initial weight (pounds)	Final weight (pounds)	SPHs removed (pounds)	Cumulative SPHs removed (pounds)
MW-2	06/11/2008	---	---	0.09	221	221	0.36	18.29	---	---	---	0.00
MW-2	07/03/2008	---	---	0.14	344	344	0.56	18.85	---	---	---	0.00
MW-2	08/04/2008	---	---	0.06	148	150	0.25	19.10	---	---	---	0.00
MW-2	09/17/2008	Unable to access		---	---	0	0.00	19.10	---	---	---	0.00
MW-2	10/03/2008	---	---	0.26	640	640	1.05	20.15	---	---	---	0.00
MW-2	11/26/2008	Unable to access		---	---	0	0.00	20.15	---	---	---	0.00
MW-2	12/30/2008	Unable to access		---	---	0	0.00	20.15	---	---	---	0.00
MW-2	01/22/2009	---	---	0.00	0	0	0.00	20.15	---	---	---	0.00
MW-2	02/27/2009	Unable to access		---	---	0	0.00	20.15	---	---	---	0.00
MW-2	04/13/2009	---	---	0.01	25	0	0.00	20.15	---	---	---	0.00
MW-2	07/23/2009	---	---	0.20	492	492	0.81	20.96	---	---	---	0.00
MW-2	11/10/2009	---	---	0.04	98	242	0.40	21.36	---	---	---	0.00
MW-2	02/01/2010	Unable to access		---	---	0	0.00	21.36	---	---	---	0.00
MW-2	02/09/2010	Unable to access		---	---	0	0.00	21.36	---	---	---	0.00
MW-2	06/29/2010	0.00	0.0	0.00	0	0	0.00	21.36	---	---	---	0.00
MW-2	07/06/2010	0.00	0.0	0.01	25	0	0.00	21.36	---	---	---	0.00
MW-2	07/13/2010	0.01	6.2	0.02	49	0.51	0.00	21.36	---	---	---	0.00
MW-2	07/20/2010	0.125	6.4	0.01	25	77	0.13	21.48	---	---	---	0.00
MW-2	07/27/2010	0.02	1.0	0.03	74	1.0	0.00	21.48	---	---	---	0.00
MW-2	08/02/2010	0.04	50	0.04	98	148	0.24	21.73	---	---	---	0.00
MW-2	08/10/2010	0.51	26	0.04	98	26	0.04	21.77	---	---	---	0.00
MW-2	08/24/2010	0.02	1.0	0.07	172	1	0.00	21.77	---	---	---	0.00
MW-2	09/07/2010	0.02	1.0	0.06	148	30	0.05	21.82	---	---	---	0.00
MW-2	10/05/2010	0.02	1.0	0.07	172	145	0.24	22.06	---	---	---	0.00
MW-2	11/02/2010	0.02	1.0	0.17	418	80	0.13	22.19	---	---	---	0.00
MW-2	12/07/2010	0.03	1.5	0.01	25	28	0.05	22.24	---	---	---	0.00
MW-2	01/31/2011	---	---	0.00	0	0	0.00	22.24	---	---	---	0.00
MW-2	02/17/2011	---	---	0.01	25	0	0.00	22.24	---	---	---	0.00
MW-2	04/26/2011	---	---	0.00	0	0	0.00	22.24	0.68	1.19	0.51	0.51
MW-2	07/25/2011	---	---	0.00	0	0	0.00	22.24	0.64	1.01	0.37	0.88
MW-2	10/13/2011	---	---	0.00	0	0	0.00	22.24	0.66	1.56	0.90	1.78
MW-2	01/23/2012	---	---	0.00	0	0	0.00	22.24	0.62	0.86	0.24	2.02

Table 2
Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station, 4255 Macarthur Boulevard, Oakland, California

Well ID	Date	SPHs observed in 2" bailer (feet)	SPHs observed in 2" bailer/ skimmer (ml)	SPHs measured with interface probe (feet)	SPH calculated volume (ml)	Bailer / Skimmer			Sock			
						SPHs removed (ml)	SPHs removed (pounds)	Cumulative SPHs removed (pounds)	Initial weight (pounds)	Final weight (pounds)	SPHs removed (pounds)	Cumulative SPHs removed (pounds)
MW-2	04/23/2012	---	---	0.00	0	0	0.00	22.24	0.33	1.60	1.27	3.29
MW-2	07/24/2012	---	---	0.00	0	0	0.00	22.24	0.54	1.22	0.68	3.97
MW-2	11/07/2012	---	---	0.00	0	0	0.00	22.24	0.68	1.60	0.92	4.89
MW-2	01/23/2013	---	---	0.00	0	0	0.00	22.24	0.66	1.88	1.22	6.11
MW-2	04/01/2013	---	---	0.00	0	0	0.00	22.24	0.64	1.14	0.50	6.61
MW-2	07/10/2013	---	---	0.00	0	0	0.00	22.24	0.60	1.28	0.68	7.29
MW-2	10/01/2013	---	---	0.00	0	0	0.00	22.24	0.66	1.28	0.62	7.91
MW-2	01/16/2014	---	---	0.00	0	0	0.00	22.24	0.88	1.42	0.54	8.45
MW-2	04/29/2014	---	---	0.00	0	0	0.00	22.24	0.72	2.14	1.42	9.87
MW-2	07/10/2014	---	---	0.00	0	0	0.00	22.24	0.74	1.03	0.29	10.16
MW-2	10/14/2014	Unable to access		---	---	0	0.00	22.24	---	---	0.00	10.16
MW-2	01/27/2015	---	---	0.02	49	0	0.00	22.24	0.74	2.44	1.70	11.86
MW-2	07/21/2015	---	---	0.07	200	200	0.33	22.56	0.80	---	0.00	11.86
MW-2	**01/20/2016**	**Unable to access**		**---**	**---**	**0**	**0.00**	**22.56**	**---**	**---**	**0.00**	**11.86**
MW-2	**02/22/2016**	**---**	**---**	**0.04**	**98**	**0**	**0.00**	**22.56**	**0.40**	**2.12**	**1.72**	**13.58**
MW-3	07/07/1994	---	---	0.02	49	250	0.41	0.41	---	---	---	0.00
MW-3	10/27/1994	---	---	0.05	123	400	0.66	1.07	---	---	---	0.00
MW-3	01/13/1995	---	15	---	---	15	0.02	1.09	---	---	---	0.00
MW-3	04/12/1995	---	---	---	---	0	0.00	1.09	---	---	---	0.00
MW-3	07/25/1995	---	---	0.06	148	0	0.00	1.09	---	---	---	0.00
MW-3	08/10/1995	---	---	0.05	123	50	0.08	1.17	---	---	---	0.00
MW-3	10/18/1995	---	---	0.05	123	0	0.00	1.17	---	---	---	0.00
MW-3	01/17/1996	---	---	0.24	590	1500	2.46	3.64	---	---	---	0.00
MW-3	04/25/1996	---	---	0.02	49	200	0.33	3.97	---	---	---	0.00
MW-3	07/17/1996	---	---	0.03	74	400	0.66	4.62	---	---	---	0.00
MW-3	10/01/1996	---	---	0.00	0	0	0.00	4.62	---	---	---	0.00
MW-3	01/22/1997	---	---	0.00	0	0	0.00	4.62	---	---	---	0.00
MW-3	04/08/1997	---	---	0.03	74	100	0.16	4.79	---	---	---	0.00
MW-3	07/08/1997	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	10/08/1997	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	01/08/1998	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00

Table 2
Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station, 4255 Macarthur Boulevard, Oakland, California

Well ID	Date	SPHs observed in 2" bailer (feet)	SPHs observed in 2" bailer/ skimmer (ml)	SPHs measured with interface probe (feet)	SPH calculated volume (ml)	Bailer / Skimmer			Sock			
						SPHs removed (ml)	SPHs removed (pounds)	Cumulative SPHs removed (pounds)	Initial weight (pounds)	Final weight (pounds)	SPHs removed (pounds)	Cumulative SPHs removed (pounds)
MW-3	04/13/1998	---	0	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	07/17/1998	---	0	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	07/17/1998	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	02/03/1999	---	0	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	04/29/1999	---	0	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	07/23/1999	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	11/01/1999	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	01/17/2000	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	04/17/2000	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	07/26/2000	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	10/12/2000	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	01/15/2001	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	04/09/2001	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	07/24/2001	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	10/31/2001	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	01/10/2002	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	04/25/2002	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	07/18/2002	---	---	0.03	74	50	0.08	4.87	---	---	---	0.00
MW-3	10/07/2002	---	---	0.20	492	0	0.00	4.87	---	---	---	0.00
MW-3	01/06/2003	---	---	0.02	49	0	0.00	4.87	---	---	---	0.00
MW-3	04/07/2003	---	---	0.00	0	0	0.00	4.87	---	---	---	0.00
MW-3	07/07/2003	---	---	0.00	0	0	0.00	4.87	---	---	---	0.00
MW-3	10/20/2003	---	---	0.08	197	0	0.00	4.87	---	---	---	0.00
MW-3	10/20/2003	---	---	0.07	172	150	0.25	5.12	---	---	---	0.00
MW-3	01/14/2004	---	---	0.02	49	50	0.08	5.20	---	---	---	0.00
MW-3	04/28/2004	---	---	0.00	0	0	0.00	5.20	---	---	---	0.00
MW-3	07/12/2004	---	---	0.03	74	98	0.16	5.36	---	---	---	0.00
MW-3	10/25/2004	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	01/17/2005	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	04/06/2005	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	07/08/2005	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	08/31/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00

Table 2
Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station, 4255 Macarthur Boulevard, Oakland, California

Well ID	Date	SPHs observed in 2" bailer (feet)	SPHs observed in 2" bailer/ skimmer (ml)	SPHs measured with interface probe (feet)	SPH calculated volume (ml)	Bailer / Skimmer			Sock			
						SPHs removed (ml)	SPHs removed (pounds)	Cumulative SPHs removed (pounds)	Initial weight (pounds)	Final weight (pounds)	SPHs removed (pounds)	Cumulative SPHs removed (pounds)
MW-3	10/07/2005	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	01/27/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	03/16/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	04/28/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	05/15/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	07/28/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	09/26/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	10/27/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	12/26/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	01/10/2007	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	02/19/2007	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	03/16/2007	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	04/13/2007	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	07/09/2007	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	10/08/2007	---	---	0.01	25	0	0.00	5.36	---	---	---	0.00
MW-3	01/09/2008	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	02/21/2008	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	03/20/2008	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	04/04/2008	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	05/27/2008	---	---	0.01	25	24	0.04	5.40	---	---	---	0.00
MW-3	06/11/2008	---	---	0.01	25	25	0.04	5.44	---	---	---	0.00
MW-3	07/03/2008	---	---	0.01	25	25	0.04	5.48	---	---	---	0.00
MW-3	08/04/2008	---	---	0.00	0	0	0.00	5.48	---	---	---	0.00
MW-3	09/17/2008	---	---	0.01	24	24	0.04	5.52	---	---	---	0.00
MW-3	10/03/2008	---	---	0.01	25	0	0.00	5.52	---	---	---	0.00
MW-3	11/26/2008	---	---	0.00	0	0	0.00	5.52	---	---	---	0.00
MW-3	12/30/2008	---	---	0.00	0	0	0.00	5.52	---	---	---	0.00
MW-3	01/22/2009	---	---	0.00	0	0	0.00	5.52	---	---	---	0.00
MW-3	11/10/2009	---	---	0.00	0	0	0.00	5.52	---	---	---	0.00
MW-3	02/01/2010	---	---	0.00	0	0	0.00	5.52	---	---	---	0.00
MW-3	08/02/2010	---	---	0.00	0	0	0.00	5.52	---	---	---	0.00
MW-3	01/31/2011	---	---	0.00	0	0	0.00	5.52	---	---	---	0.00

Table 2
Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station, 4255 Macarthur Boulevard, Oakland, California

Well ID	Date	SPHs observed in 2" bailer (feet)	SPHs observed in 2" bailer/ skimmer (ml)	SPHs measured with interface probe (feet)	SPH calculated volume (ml)	Bailer / Skimmer			Sock			
						SPHs removed (ml)	SPHs removed (pounds)	Cumulative SPHs removed (pounds)	Initial weight (pounds)	Final weight (pounds)	SPHs removed (pounds)	Cumulative SPHs removed (pounds)
MW-3	02/17/2011	---	---	0.01	25	0	0.00	5.52	---	---	---	0.00
MW-3	04/26/2011	---	---	0.00	0	0	0.00	5.52	0.70	1.12	0.42	0.42
MW-3	07/25/2011	---	---	0.00	0	0	0.00	5.52	0.66	0.74	0.08	0.50
MW-3	10/13/2011	---	---	0.00	0	0	0.00	5.52	0.00	0.00	0.00	0.50
MW-3	01/23/2012	---	---	0.00	0	0	0.00	5.52	0.64	0.64	0.00	0.50
MW-3	04/23/2012	---	---	0.00	0	0	0.00	5.52	0.34	1.50	1.16	1.66
MW-3	07/24/2012	---	---	0.01	25	0	0.00	5.52	0.52	1.04	0.52	2.18
MW-3	11/07/2012	---	---	0.00	0	0	0.00	5.52	0.68	2.30	1.62	3.80
MW-3	01/23/2013	---	---	0.00	0	0	0.00	5.52	0.66	1.70	1.04	4.84
MW-3	04/01/2013	---	---	0.00	0	0	0.00	5.52	0.64	1.80	1.16	6.00
MW-3	07/10/2013	---	---	0.00	0	0	0.00	5.52	0.60	1.00	0.40	6.40
MW-3	10/01/2013	---	---	0.00	0	0	0.00	5.52	0.72	1.41	0.69	7.09
MW-3	01/16/2014	---	---	0.00	0	0	0.00	5.52	0.84	2.36	1.52	8.61
MW-3	04/29/2014	---	---	0.00	0	0	0.00	5.52	0.75	0.92	0.17	8.78
MW-3	07/10/2014	---	---	0.00	0	0	0.00	5.52	0.74	0.92	0.18	8.96
MW-3	10/14/2014	---	---	0.00	0	0	0.00	5.52	0.74	2.23	1.49	10.45
MW-3	01/27/2015	---	---	0.00	0	0	0.00	5.52	0.74	1.74	1.00	11.45
MW-4	08/02/2010	---	---	0.12	73	72	0.12	0.12	---	---	---	0.00
MW-4	08/24/2010	---	---	0.10	61	0	0.00	0.12	---	---	---	0.00
MW-4	09/07/2010	---	---	0.13	79	30	0.05	0.17	---	---	---	0.00
MW-4	10/05/2010	---	---	0.19	115	40	0.07	0.23	---	---	---	0.00
MW-4	11/02/2010	---	---	0.03	18	20	0.03	0.27	---	---	---	0.00
MW-4	12/07/2010	---	---	0.01	6.1	2	0.00	0.27	---	---	---	0.00
MW-4	01/31/2011	---	---	0.00	0	0	0.00	0.27	---	---	---	0.00
MW-4	04/26/2011	---	---	0.00	0	0	0.00	0.27	---	---	---	0.00
MW-4	07/25/2011	---	---	0.00	0	0	0.00	0.27	0.31	0.62	0.31	0.31
MW-4	10/13/2011	---	---	0.00	0	0	0.00	0.27	0.34	0.90	0.56	0.87
MW-4	01/23/2012	---	---	0.00	0	0	0.00	0.27	0.28	0.56	0.28	1.15
MW-4	04/23/2012	---	---	0.00	0	0	0.00	0.27	0.32	0.60	0.28	1.43
MW-4	07/24/2012	---	---	0.00	0	0	0.00	0.27	0.36	0.36	0.00	1.43
MW-4	11/07/2012	---	---	0.00	0	0	0.00	0.27	0.34	1.20	0.86	2.29

Table 2
Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station, 4255 Macarthur Boulevard, Oakland, California

Well ID	Date	SPHs observed in 2" bailer (feet)	SPHs observed in 2" bailer/ skimmer (ml)	SPHs measured with interface probe (feet)	SPH calculated volume (ml)	Bailer / Skimmer			Sock			
						SPHs removed (ml)	SPHs removed (pounds)	Cumulative SPHs removed (pounds)	Initial weight (pounds)	Final weight (pounds)	SPHs removed (pounds)	Cumulative SPHs removed (pounds)
MW-4	01/23/2013	---	---	0.00	0	0	0.00	0.27	0.34	0.31	-0.03	2.26
MW-4	04/01/2013	---	---	0.00	0	0	0.00	0.27	0.74	0.64	-0.10	2.16
MW-4	07/10/2013	---	---	0.00	0	0	0.00	0.27	0.30	0.38	0.08	2.24
MW-4	10/01/2013	---	---	0.00	0	0	0.00	0.27	0.35	0.38	0.03	2.27
MW-4	01/16/2014	---	---	0.00	0	0	0.00	0.27	0.35	1.08	0.73	3.00
MW-4	04/29/2014	---	---	0.00	0	0	0.00	0.27	0.64	0.60	-0.04	2.96
MW-4	07/10/2014	---	---	0.00	0	0	0.00	0.27	0.37	0.42	0.05	3.01
MW-4	10/14/2014	---	---	0.00	0	0	0.00	0.27	0.37	0.41	0.04	3.05
MW-4	01/27/2015	---	---	0.00	0	0	0.00	0.27	0.38	0.86	0.48	3.53

SPHs removed by bailer/skimmer this period:	0.00	***SPHs removed by socks this period:***	1.72
Cumulative SPHs removed by bailer/skimmer:	28.35	***Cumulative SPHs removed by Socks:***	28.56

Total SPHs removed this event (pounds):	1.72
Total SPHs removed (pounds):	56.91

Notes:
SPH = Separate-phase hydrocarbon
Sock = SPH-absorbent sock
ml = Milliliters

Appendix A

Field Notes
(Blaine Tech Services, Inc.)

WELL GAUGING DATA

Project # 160120-RH1 Date 1/20/15 Client Shell

Site 4255 MacArthur Blvd, Oakland CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	Notes
mw-1	0920	4					6.81	23.36		
mw-2	—	4	well Parked over				—	—		
mw-3	0930	4	odor	—			9.95	21.94		
mw-4	0928	2	odor	—			5.70	30.98		
mw-5	1107	2					4.80	19.82		
mw-6	0923	2					6.90	23.66		
mw-7	—	4	well Parked over				—	—		
mw-8	0914	4					3.66	29.80		
mw-9	0917	4					5.87	29.65	—	

SHELL WELL MONITORING DATA SHEET

BTS #: 160120-RH1	Site: 4255 MacArthur Blvd Oakland
Sampler: RH	Date: 1/20/16
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 23.36	Depth to Water (DTW): 23. 6.81
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 16.55 x 0.20) + DTW]: 10.21	

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
10.75 0.66 (Gals.) X	3	= 1.97 32.25 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
1020	66.2	7.21	845	9	10.75	
		* dewatered	@ 18 gal.			21.29 DTW
1205	67.0	7.34	860	12	grab	

Did well dewater? (Yes) No Gallons actually evacuated: 18

Sampling Date: 1/20/16 Sampling Time: 1200 Depth to Water: 21.29 10.05

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 #: 160120-RH1	Site: 98995758
Sampler: RH	Date: 1/20/16
Well I.D.: MW-2	Well Diameter: 2 3 4 6 8 ___
Total Well Depth (TD): NA	Depth to Water (DTW): NA
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	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
	* Well not accessible					
		NO	Sample			

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 WELL MONITORING DATA SHEET

BTS #: 160120-RH	Site: 9899575 8
Sampler: RH	Date: 1/20/16
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 21.94	Depth to Water (DTW): 9.95
Depth to Free Product: 0.0	Thickness of Free Product (feet): 0.0
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.34 11.99	

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:_____

7.8 (Gals.) X	3	= 23.4 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
1052	67.3	6.74	1092	39	8.0	odor / slightly cloudy
	Well Dewatered @ 9 gallons					DTW: 18.71
1150	65.5	6.66	1039	122	Grab	

Did well dewater? (Yes) No Gallons actually evacuated: 9

Sampling Date: 1-20-16 Sampling Time: 1155 Depth to Water: 11.76

Sample I.D.: MW-3 Laboratory: (Test America) Other_____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 160120-RH1	Site: 9899-758
Sampler: RH	Date: 1/20/16
Well I.D.: MW-4	Well Diameter: ② 3 4 6 8 ___
Total Well Depth (TD): 30.98	Depth to Water (DTW): 5.70
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 (25.28) x 0.20) + DTW]:	10.75

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

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

4.04 (Gals.) X 3 = 12.12 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
1100	65.7	6.85	1032	23	4.25	
1110	65.8	6.78	1027	28	8.50	
1120	65.8	6.80	1029	27	12.25	

Did well dewater? Yes (No) Gallons actually evacuated: 12.25

Sampling Date: 1/20/16 Sampling Time: 1125 Depth to Water: 10.64

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 #: 160120-RH1	Site: 98995758
Sampler: RH	Date: 1/20/16
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 19.82	Depth to Water (DTW): 4.80
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 (15.02) x 0.20) + DTW]: 7.80	

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: ___

2.4 (Gals.) X 3 = 7.2 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
1127	62.3	6.90	716	71000	2.5	cloudy
1134	62.4	6.81	631	71000	5.0	cloudy
1139	62.4	6.77	620	71000	7.5	cloudy

Did well dewater? Yes (No) Gallons actually evacuated: 7.5

Sampling Date: 1/20/16 Sampling Time: 1145 Depth to Water: 4.99

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 #: 160120-RH1	Site: 98995758
Sampler: RH	Date: 1-20-16
Well I.D.: MW-6	Well Diameter: ② 3 4 6 8 ___
Total Well Depth (TD): 23.66	Depth to Water (DTW): 6.90
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]: 10.25	

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: _____

2.6 (Gals.) X	3	=	7.8 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
1043	64.0	6.94	1073	195	2.6	
1051	65.6	6.77	1078	153	5.2	
1059	64.1	6.83	1028	82	7.8	

Did well dewater? Yes (No) Gallons actually evacuated: 7.8

Sampling Date: 1-20-16 Sampling Time: 1103 Depth to Water: 7.91

Sample I.D.: MW-6 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 #: 160120-RH1	Site: 98995758
Sampler: RH	Date: 1/20/16
Well I.D.: MW-7	Well Diameter: 2 3 4 6 8 ___
Total Well Depth (TD): NA	Depth to Water (DTW): NA
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	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
*	well	Not	accessible			
	No	Sample				

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 WELL MONITORING DATA SHEET

BTS #: 160120-RH1	Site: 4255 MacArthur Blvd, Oakland CA
Sampler: RH	Date: 1-20-16
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 29.65	Depth to Water (DTW): 5.87
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]: 10.62 Ft	

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:_____

15.5 (Gals.) X	3	=	46.5 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1008	63.8	7.42	813	8	15.5	
1011	66.9	7.31	908	16	31.0	
1012	well dewatered at 20 gallons				DTW: 26.20	
1140	66.0	6.96	945 (µS)	14	Grab	

Did well dewater? (Yes) No Gallons actually evacuated: 20 gallons

Sampling Date: 1-20-16 Sampling Time: 1145 Depth to Water: 10.57

Sample I.D.: MW-8 Laboratory: (Test America) Other_____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 160120-RH1	Site: 98995758
Sampler: RH	Date: 1/20/16
Well I.D.: MW-9	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 29.65	Depth to Water (DTW): 5.87
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]: 10.62 (23.78)	

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: ____

15.4 (Gals.) X 3 = 46.2 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
1025	67.9	7.14	867	9	15.5	clear
1027	68.9	7.14	748	10		
1028	well dewatered at 31.0 gallons				31.0 gallons	
					DTW 26.79	
1255	66.7	7.21	813	28	Grab	

Did well dewater? (Yes) No — Gallons actually evacuated: 31.0

Sampling Date: 1-20-16 — Sampling Time: 1300 — Depth to Water: 10.44

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 Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # 1364589 (TestAmerica)

Please Check Appropriate Box:
- ☐ GW FDG
- ☐ PIPELINE
- ☐ RETAIL
- ☐ CHEMICALS
- ☑ CONSULTANT
- ☐ LUBES
- ☐ TRANSPORTATION
- ☐ OTHER _____

Print Bill To Contact Name: Christine Pilachowski

PO. #

PlaNet Site or Project ID: 38573

GSAP Project ID: USPC/00308,USRT/00752

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1/20/16

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services, Inc.

LOG CODE: BTSS

ADDRESS: 1680 Rogers Ave., San Jose, CA, 95112

PROJECT CONTACT (Hardcopy or PDF Report to): Bart Gebbie

TELEPHONE: 310-885-4455 Ext. 103

FAX: 310-637-5802

EDF To Contact E-MAIL: christine.pilachowski@aecom.com

SITE ADDRESS: Street and City: 4255 MacArthur Blvd., Oakland

State: CA

AECOM Project / Task Number:

EDF DELIVERABLE TO (Name, Company, Office Location): Casey Huff, AECOM, Oakland, CA

PHONE NO: 510-893-3600

E-MAIL: casey.huff@aecom.com

AECOM Oher ID: 10059253

SAMPLER NAME(S) (Print): Rodolfo Huerta

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
- ☑ STANDARD (14 DAY)
- ☐ 7 DAYS
- ☐ 3 DAYS
- ☐ 2 DAYS
- ☐ 24 HOURS
- ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☑ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

Email invoice to USAPimaging@aecom.com

- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST: TPH-GRO, Purgeable (8260B)	UNIT COST: BTEX, MTBE, TBA (8260B)	UNIT COST: BTEX, MTBE (8260B)	UNIT COST: 5 OXYS (8260B)	UNIT COST: Ethanol (8260B)	NON-UNIT COST	Container PID Readings or Laboratory Notes
	mw-1	1/20/16	1200	W	3					3	X	X					
	mw-3		1155	W	3					3	X	X					
	mw-4		1125	W	3					3	X	X					
	mw-5		1145	W	3					3	X	X					
	mw-6		1103	W	3					3	X	X					
	mw-8		1145	W	3					3	X	X					
	mw-9		1300	W	3					3	X	X					

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Rodolfo 1/20/16 1315		1-20-16	1315
	(sample custodian)	1-20-16	1420

Version: 14Dec15

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 98995758

ADDRESS 4255 MacArthur Blvd, ~~Oakland~~ CA

DATE: 1/20/16

CITY & STATE Oakland CA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-1	Standpipe	(Flush)	G	(P)	Size (inch) 8	(Y)	N	(G)	R	(G)	R	NL	(G)	P	1/2 tabs Broken 1/2 Bolts missing	Y	(N)	
MW-2	Standpipe	(Flush)	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P	Parked over	Y	N	
MW-3	Standpipe	(Flush)	(G)	P	Size (inch) 12	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-4	Standpipe	(Flush)	(G)	P	Size (inch) 12	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-5	Standpipe	(Flush)	(G)	P	Size (inch) 12	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-6	Standpipe	(Flush)	(G)	P	Size (inch) 12	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-7	Standpipe	(Flush)	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P	Parked over	Y	N	
MW-8	Standpipe	(Flush)	(G)	P	Size (inch) 12	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-9	Standpipe	(Flush)	(G)	P	Size (inch) 12	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	

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

Condition of Soil Boring Patches or Abandoned Monitoring Wells:	G	P	(N/A)	If POOR, Borings/Well IDs or Location Description:	Y	N	

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

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
0	Y	N	(N/A)	Y	N	(N/A)	G	P	(N/A)	Y	N	Y	N	(N/A)		Y	N	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

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

Version 2.4, March 2008

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

Rodolfo Huerta / BTS

Print or type Name of Field Personnel & Consultant Company

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NOT REQUIRED	1	800-424-9300	07004436

5. Generator's Name and Mailing Address

Shell Oil Products US C/O Waste Coordinator - NORCAL,OR
6520 Corporate Drive, Indianapolis, IN. 46278

Generator's Phone: 317-291-7041

Generator's Site Address (if different than mailing address)
4255 MacArthur Blvd.
Oakland CA

6. Transporter 1 Company Name — U.S. EPA ID Number
Blaine Tech Services, Inc — CAR000148338

7. Transporter 2 Company Name — U.S. EPA ID Number
American Integrated Services, Inc — CAR000148338

8. Designated Facility Name and Site Address — U.S. EPA ID Number
Crosby & Overton, Inc.
1630 W. 17th Street — CAD028409019
Long Beach, CA. 90813 562-432-5445

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Waste Liquid (Groundwater)	1	TT	107	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (800) 424-9300 Chemtrec.

PlaNet#:
Incident#: 98995758
Profile#: 27578
Project #: 75007-4-1,CRA Project#:

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Rodolfo Huerta — Signature: RodoB — Month: 1 Day: 20 Year: 16

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rodolfo Huerta — Signature: RodoB — Month: 1 Day: 20 Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

BLAINE TECH SERVICES

Daily Tailgate Safety Meeting Checklist & Hazard Mitigation Form

TGSM

Site Address: 4255 MacArthur Blvd, Oakland CA		Date: 1/20/16
Check-In with site representative completed?		☐ Yes ☒ N/A
Is **fuel delivery** scheduled for today?		☐ Yes ☐ No ☒ N/A
Emergency pump cut-off switch located?		☐ Yes ☒ N/A
First aid kit located and confirmed ready-to-use?		☒ Yes
Fire extinguisher located and confirmed ready-to-use?		☒ Yes
Eye wash located and confirmed ready-to-use?		☒ Yes
HASP	**Emergency Services** information located & reviewed?	☒ Yes
	Hospital map & route located and reviewed?	☒ Yes
	Special Hazard Notice section reviewed?	☒ Yes
	Site Status confirmed or amended, dated and initialed?	☒ Yes
	Emergency Response procedures reviewed with all work crew members?	☒ Yes
	Compliance Roster signed by all work crew members?	☒ Yes
Site walk has been performed to locate wells and identify additional hazards?		☒ Yes
Job Safety Analysis (JSA) for each task located & reviewed by all work crew members?		☒ Yes
Work Area Plans reviewed for suitability and effectiveness given current site conditions?		☒ Yes ☐ N/A
Traffic Control Plans reviewed for suitability given current road, traffic & weather conditions?		☐ Yes ☒ N/A
Stop Work Authority reviewed and understood by all work crew members?		☒ Yes

- In the space below, note unaddressed hazards and conditions that might compromise compliance with Approved Procedures and/or JSA's or impede the safe and proper execution of the Work Plan, Work Area Plan(s) and/or Traffic Control Plan(s).
- Report unaddressed hazards and adverse conditions to the Project Manager during Pre-Start Call-In **and** as hazards are identified or conditions change throughout the workday.
- DO NOT COMMENCE OR RESTART WORK until PM has been notified and mitigation measures approved.

Time	Hazard or Adverse Condition	PM Initials	Hazard Control Measure

Site representative briefed on planned work activities and Work Area Plans?		☒ Yes ☐ N/A
Job Clearance Form completed?		☒ Yes
Pre-Start Call-In completed and approval to start work received from Project Manager?		☒ Yes
Printed Name: Rodolfo Huerta	Signature: Rodolfo	Time: 0900

Appendix A – Job Clearance Form

Job Clearance Form

CONTRACTOR INSTRUCTIONS PRIOR TO START OF WORK: 1. Review form, check appropriate boxes, read and sign at the bottom of this form 2. Inform station manager or site representative of the job to be performed and potential safety concerns and obtain signature

Station #: 48995758	Station Address: 4255 MacArthur Blvd. Oakland CA		Work Order Number:	Date: 1/20/16
Contractor Company Name: Blaine Tech. Services	Contractor person in charge (print name): Dustin Baker	Number of Workers: 3	JSA Reference Number: (if required) / Start Time: 0900 / End Time: 1310	Labor: / Travel Time: 2hrs / Travel Distance:

Problem/Work Description: Gauge and sample 9 groundwater monitoring wells

Return Call: yes / (no)
Damage Claim: yes / (no)

PPE REQUIRED (CHECK AND OR FILL BLANK SPACE)

- [x] SAFETY VEST
- [x] HARD HAT
- [x] SHOES & BOOTS
- [ ] HEARING PROTECTION
- [ ] RESPIRATOR
- [x] PROTECTIVE CLOTHING
- [x] GLOVES
- [x] SAFETY GLASSES/GOGGLES
- [ ] WELDING PPE
- [ ] OTHER ____________

Contractor to complete this section below if circumstances on site or specific to this job may generate additional hazards that are not described in the JSA

TASK STEP	Hazards not covered by JSA	How to reduce or eliminate risk - Include PPE to be Worn

Work documentation requirements — Lower Risk - no JSA required — Medium Risk / Higher Risk tasks - JSA required — Higher Risk - JSA required & appropriate check list completed (see below)

Examples of Higher / Medium tasks

- [ ] Works at heights: in all cases on open sites - on closed sites if no JSA present
- [ ] Trenching or excavation related to underground tank / product lines
- [ ] Heavy lifting
- [ ] Work in confined spaces (e.g. tank, interceptor or deep manhole entry)
- [ ] Hot work with risk of product or vapor ignition
- [ ] LPG system degassing, installation or maintenance

This form must be completed for each job and updated and re-signed if circumstances change or additional hazards identified

SIGN IN

Operating sites: to be signed by the Site Representative

Non-operating sites: to be signed by Contractor Representative only

Contractor representative name	Signature
Rodolfo Huerta	[signature]

GENERAL SAFETY CHECKS

- Have all site personnel been informed?
- Has fuel delivery service been informed?
- Is a fuel delivery due?
- Have isolation procedures been agreed - lock out/tag out?
- Are work areas cordoned off to protect workers, site staff & public?
- Other

Site representative name	Signature
I have discussed job clearance form with contractor	
NA	NA

VACANT LOT

SIGN OUT

GENERAL SAFETY CHECKS

- Has the work area been left tidy and safe?
- Are site personnel aware of status of work including remaining isolation?
- Are changes to equipment documented and communicated?
- All incidents, near incidents, unsafe situations reported?
- Other

Contractor signature
[signature]

Site representative name	Signature
I have discussed job clearance form with contractor	
NA	NA

VACANT LOT

PARTS - Ordered, Replaced and/or Disposed Of (include model and serial as appropriate)

The contractor through its authorized representative shall sign, issue and be solely responsible for all job clearance forms and the obligations arising there under applicable to the work.

This form covers important reminders and is not intended to relieve the contractor from safely performing the work in compliance with all applicable laws and regulations.
The Site Representative may require the contractor to stop work if it appears that the contractor or any of its workers are failing to comply with the requirements in the applicable items of this form or other applicable safety requirements.

WELL GAUGING DATA

Project # 160222-B02 Date 2/22/16 Client Shell

Site 4255 MacArthur Blvd. 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-2	1110	4	Both	9.68	0.04	—	9.72	—	↓	
MW-7	1130	4	ODOR				7.43	29.10	↓	

SHELL WELL MONITORING DATA SHEET

BTS #: 160222-BW2	Site: 98995758
Sampler: BW	Date: 2/22/16
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 9.72
Depth to Free Product: ~~9.71~~ 9.68	Thickness of Free Product (feet): 0.04
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 / Middleburg / 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/cm or µS/cm)	Turbidity (NTUs)	Gals. Removed	Observations
* Detected	0.04'	SPH	w/ Interface Probe			
* Removed	Absorbent Sock 0.96 Kg (2.12 lbs)				(3" sock)	
* Install	new 3" Absorbent Sock		0.18 Kg (0.40 lbs)			
* No Sample Collected						

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Test America

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

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

Analyzed for: TPH-G BTEX MTBE TPH-D 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 #: 160222-BW2	Site: 98995758
Sampler: BW	Date: 2/22/16
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 29.10	Depth to Water (DTW): 7.93
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 21.67 x 0.20) + DTW]: 11.76	

Purge Method: Bailer; Disposable Bailer; Middleburg; Electric Submersible; Waterra; X Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: new tubing

1 Case Volume	(Gals.) X	Specified Volumes	=	Calculated Volume	Gals.
14.1		3		42.3	

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/cm or µS/cm)	Turbidity (NTUs)	Gals. Removed	Observations
1210	69.1	7.14	851	7	14.1	ODOR
1225	69.3	7.18	850	5	28.2	ODOR
1240	69.3	7.21	847	5	42.3	DTW - 19.21' ODOR

Did well dewater? Yes (No) Gallons actually evacuated: 42.3

Sampling Date: 2/22/16 Sampling Time: 1250 Depth to Water: 17.05' (ZWS)

Sample I.D.: MW-7 Laboratory: Test America

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

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

Analyzed for: TPH-G BTEX MTBE TPH-D 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 Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION)
☐ ACCUTEST (_____)
☐ ALSCIENCE (_____)
☑ TESTAMERICA (_____)
☐ Other (_____)
Lab Vendor # 1364589 (TestAmerica)

Please Check Appropriate Box:
☐ GW FDG ☐ PIPELINE ☐ RETAIL
☐ CHEMICALS ☑ CONSULTANT ☐ LUBES
☐ TRANSPORTATION ☐ OTHER _____

Print Bill To Contact Name: Christine Plachowski
PO #:
PlaNet Site or Project ID: 38573
GSAP Project ID: USPC/00308 USRT/00752

☐ CHECK IF NO INCIDENT # APPLIES
DATE: 2/22/16
PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services, Inc.
LOG CODE: BTSS
ADDRESS: 1680 Rogers Ave., San Jose, CA, 95112
PROJECT CONTACT (Hardcopy or PDF Report to): Bart Gebbie
TELEPHONE: 310-885-4455 Ext. 103
FAX: 310-637-5802
SITE CONTACT E-MAIL: christine.plachowski@aecom.com

SITE ADDRESS: Street and City: 4255 MacArthur Blvd., Oakland
State: CA
AECOM Project / Task Number:
EDF DELIVERABLE TO (Name, Company, Office Location): Casey Huff, AECOM, Oakland, CA
PHONE NO.: 510-893-3600
E-Mail: casey.huff@aecom.com
AECOM Client ID: 10059253
SAMPLER NAME(S) (Print): Brian Weeks
LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☑ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
Email invoice to USAPimaging@aecom.com

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST: TPH-GRO, Purgeable (8260B)	UNIT COST: BTEX, MTBE, TBA (8260B)	NON-UNIT COST: BTEX, MTBE (8260B)	NON-UNIT COST: 5 OXYS (8260B)	NON-UNIT COST: Ethanol (8260B)	FIELD NOTES: Container PID Readings or Laboratory Notes
	MW-7	2/22/16	1450	WG	X					3	X	X				

TEMPERATURE ON RECEIPT: 3.1/3.4 °C; 2.8/3.1 IR-20; 3.6/3.9

440-139101 Chain of Custody

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	Sample custody	2/22/16	1600
(Sample Custody)		2/23/16	1145
2/23/16 1550		2/24/16	9:50

Version: 14Dec15

Fed: 6618 8701 0600

3.0°C

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 98995758

ADDRESS 4255 MacArthur Blvd.

DATE: 2/22/16

CITY & STATE Oakland, CA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-2	Standpipe	**Flush**	**G**	P	Size (inch) 12	**Y**	N	**G**	R	**G**	R	NL	**G**	P		Y	**N**	
MW-7	Standpipe	**Flush**	**G**	P	Size (inch) 12	**Y**	N	**G**	R	**G**	R	NL	**G**	P		Y	**N**	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	

TOTAL # CAPS REPLACED = ____ ____ = TOTAL # OF LOCKS REPLACED

Condition of Soil Boring Patches or Abandoned Monitoring Wells:	G	P	**N/A**	If POOR, Borings/Well IDs or Location Description:		Y	N	

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

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
1	**Y**	N	N/A	**Y**	N	N/A	**G**	P	N/A	**Y**	N	**Y**	N	N/A		Y	**N**	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

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

Brian Weeks Blaine Tech Services

Print or type Name of Field Personnel & Consultant Company

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

Version 2.4, March 2008

BLAINE TECH SERVICES

Daily Tailgate Safety Meeting Checklist & Hazard Mitigation Form

TGSM

Site Address: 4255 MacArthur Blvd. Oakland		Date: 2/22/16
Check-In with site representative completed?		☐ Yes ☒ N/A
Is **Fuel Delivery** scheduled for today?		☐ Yes ☐ No ☒ N/A
Fuel dispenser **Emergency Shut-Off Switch** located?		☐ Yes ☒ N/A
First Aid Kit located and confirmed ready-to-use?		☒ Yes
Fire Extinguisher located and confirmed ready-to-use?		☒ Yes
Eye Wash located and confirmed ready-to-use?		☒ Yes
HASP	**Emergency Services** information located & reviewed?	☒ Yes
	Hospital map & route located and reviewed?	☒ Yes
	Special Hazard Notice section reviewed?	☒ Yes
	Site Status confirmed or amended, dated and initialed?	☒ Yes
	Emergency Response procedures reviewed with all work crew members?	☒ Yes
	Compliance Roster signed by all work crew members?	☒ Yes
Emergency Muster Point identified (considering traffic, overhead hazards, ignition/fuel sources)?		☒ Yes
Site walk has been performed to locate wells and identify additional hazards?		☒ Yes
Job Safety Analysis (JSA) for each task located & reviewed by all work crew members?		☒ Yes
Work Area Plans reviewed for suitability and effectiveness given current site conditions?		☐ Yes ☒ N/A
Traffic Control Plans reviewed for suitability given current road, traffic & weather conditions?		☐ Yes ☒ N/A
Stop Work Authority reviewed and understood by all work crew members?		☒ Yes
Allergies have been discussed with work crew and plan of action confirmed in case of a reaction?		☒ Yes ☐ N/A

- In the space below, note unaddressed hazards and conditions that might compromise compliance with Approved Procedures and/or JSA's or impede the safe and proper execution of the Work Plan, Work Area Plan(s) and/or Traffic Control Plan(s).
- Report unaddressed hazards and adverse conditions to the Project Manager during Pre-Start Call-In **and** as hazards are identified or conditions change throughout the workday.
- DO NOT COMMENCE OR RESTART WORK until PM has been notified and mitigation measures approved.

Time	Hazard or Adverse Condition	PM Initials	Hazard Control Measure

Site representative briefed on planned work activities and Work Area Plans?		☐ Yes ☒ N/A
Job Clearance Form completed?		☒ Yes
Pre-Start Call-In completed and approval to start work received from Project Manager?		☒ Yes
Printed Name: Ryan Woods	Signature:	Time: 1050

Job Clearance Form

CONTRACTOR INSTRUCTIONS PRIOR TO START OF WORK: 1. Review form, check appropriate boxes, read and sign at the bottom of this form. 2. Inform dealer, manager or site representative of the job to be performed and potential safety concerns and obtain signature.

Station #	Station Address: 4255 MacArthur Blvd. Oakland	Work Order Number: 160222-BW2	Date: 2/22/16

Contractor Company Name:	Contractor person in charge (print name):	Number of Workers:	JSA Reference Number: (if required)	Start Time:	End Time:	Labor:	Travel Time:	Travel Distance:
BlueTech Services	Brian Weeks	~~1045~~ ~~1500~~ 1		1045	1500			

Problem/Work Description: Groundwater Monitoring

Return Call: yes / no

Damage Claim: yes / no

PPE REQUIRED (CHECK AND OR FILL BLANK SPACE)

- [x] SAFETY VEST
- [ ] PROTECTIVE CLOTHING
- [x] HARD HAT
- [x] GLOVES
- [x] SHOES & BOOTS
- [x] SAFETY GLASSES/GOGGLES
- [x] HEARING PROTECTION
- [ ] WELDING PPE
- [ ] RESPIRATOR
- [ ] OTHER ________

Contractor to complete this section to see if circumstances on site or specific to this job may present additional hazards that are not identified in the JSA

TASK STEP	Hazards not covered by JSA	How to reduce or eliminate risk - Include PPE to be Worn

Work documentation requirements — Lower Risk - no JSA required — Medium Risk / Higher Risk tasks - JSA required — Higher Risk - JSA required & appropriate check list completed (see below)

Examples of Higher / Medium tasks

- [ ] Works at heights: in all cases on open sites - on closed sites if no JSA present
- [ ] Trenching or excavation related to underground tank / product lines
- [ ] Heavy lifting
- [ ] Work in confined spaces (e.g. tank, interceptor or deep manhole entry)
- [ ] Hot work with risk of product or vapor ignition
- [ ] LPG system degassing, installation or maintenance

This form must be completed for each job and updated and re-signed if circumstances change or additional hazards identified.

SIGN IN

Operating sites: to be signed by the Site Representative

Non-operating sites: to be signed by Contractor Representative only

GENERAL SAFETY CHECKS

- Have all site personnel been informed?
- Has fuel delivery service been informed?
- Is a fuel delivery due?
- Have isolation procedures been agreed - lock out/tag out?
- Are work areas cordoned off to protect workers, site staff & public?
- Other

Contractor representative name	Signature
Brian Weeks	[signature]

Site representative name	Signature
I have discussed job clearance form with contractor	
Vacant	

SIGN OUT

GENERAL SAFETY CHECKS

- Has the work area been left tidy and safe?
- Are site personnel aware of status of work including remaining isolation?
- Are changes to equipment documented and communicated?
- All incidents, near incidents, unsafe situations reported?
- Other

Contractor signature
[signature]

Site representative name	Signature
I have discussed job clearance form with contractor	
Vacant	

PARTS - Ordered, Replaced and/or Disposed Of (include model and serial as appropriate)

The contractor through its authorized representative shall sign, issue and be solely responsible for all job clearance forms and the obligations arising there under applicable to the work.

This form covers important reminders and is not intended to relieve the contractor from safely performing the work in compliance with all applicable laws and regulations.
The Site Representative may require the contractor to stop work if it appears that the contractor or any of its workers are failing to comply with the requirements in the applicable items of this form or other applicable safety requirements.

Revision No.: 1.0
Date Issued: May 2007

NO. 721568

NON-HAZARDOUS WASTE DATA FORM

BESI #

GENERATOR

Generator's Name and Mailing Address

SHELL OIL PRODUCTS US
C/O AECOM
1333 BROADWAY, SUITE 800
OAKLAND, CA 94612

Generator's Site Address (if different than mailing address)

SHELL OIL 10059253
4255 MACARTHUR BOULEVARD
OAKLAND, CA 94619

Generator's Phone: 510-874-3255

Container type removed from site:

☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck

☒ Other ~~55~~ 43 ~~gal~~

Quantity 43 gallons

Container type transported to receiving facility:

☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck

☐ Other _____

Quantity _____ Volume _____

WASTE DESCRIPTION NON-HAZARDOUS WATER

GENERATING PROCESS WELL PURGING / DECON WATER

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. WATER		99-100%	3.		
2. TPH		<1%	4.		

Waste Profile _____ PROPERTIES: pH 7-10 ☐ SOLID ☒ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: Brian Weeks | Signature: [signature] | Month: 2 | Day: 22 | Year: 16

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: BLAINE TECH SERVICES, INC. | Phone#: 408-573-0555

Transporter 1 Printed/Typed Name: Brian Weeks | Signature: [signature] | Month: 2 | Day: 22 | Year: 16

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name: | Phone#:

Transporter 2 Printed/Typed Name: | Signature: | Month: | Day: | Year:

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address

DEMENNO KERDOON
2000 N. ALAMEDA ST.
COMPTON, CA 90222

Phone#: 310-537-7100

Printed/Typed Name: | Signature: | Month: | Day: | Year:

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

Appendix B

Analytical Report
(TestAmerica Laboratories, Inc.)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 440-135945-1
Client Project/Site: Shell - 4255 MacArthur Blvd., Oakland

For:
AECOM Technical Services Inc.
1333 Broadway
Suite 800
Oakland, California 94612

Attn: Casey Huff

Authorized for release by:
1/29/2016 4:01:40 PM

Laura Turpen, Project Manager I
(916)374-4414
laura.turpen@testamericainc.com

Table of Contents

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: Shell - 4255 MacArthur Blvd., Oakland

TestAmerica Job ID: 440-135945-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-135945-1	MW-1	Water	01/20/16 12:00	01/23/16 12:10
440-135945-2	MW-3	Water	01/20/16 11:55	01/23/16 12:10
440-135945-3	MW-4	Water	01/20/16 11:25	01/23/16 12:10
440-135945-4	MW-5	Water	01/20/16 11:45	01/23/16 12:10
440-135945-5	MW-6	Water	01/20/16 11:03	01/23/16 12:10
440-135945-6	MW-8	Water	01/20/16 11:45	01/23/16 12:10
440-135945-7	MW-9	Water	01/20/16 13:00	01/23/16 12:10

Job ID: 440-135945-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-135945-1

Comments
No additional comments.

Receipt
The samples were received on 1/23/2016 12:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2º C and 3.7º C.

GC/MS VOA
Method(s) 8260B/CA_LUFTMS: The Gasoline Range Organics (GRO) concentration reported for the following samples is due to the presence of discrete peaks: MW-1 (440-135945-1), MW-8 (440-135945-6) and MW-9 (440-135945-7). Methyl tert-butyl ether.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: MW-1

Date Collected: 01/20/16 12:00
Date Received: 01/23/16 12:10

Lab Sample ID: 440-135945-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	**1300**		500		ug/L			01/28/16 15:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*122*		*76 - 132*		*01/28/16 15:46*	*10*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*01/28/16 15:46*	*10*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/28/16 15:46*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**6.4**		5.0		ug/L			01/28/16 15:46	10
Ethylbenzene	ND		5.0		ug/L			01/28/16 15:46	10
Methyl-t-Butyl Ether (MTBE)	**1400**		5.0		ug/L			01/28/16 15:46	10
tert-Butyl alcohol (TBA)	**450**		100		ug/L			01/28/16 15:46	10
Toluene	ND		5.0		ug/L			01/28/16 15:46	10
Xylenes, Total	ND		10		ug/L			01/28/16 15:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*01/28/16 15:46*	*10*
Dibromofluoromethane (Surr)	*122*		*76 - 132*		*01/28/16 15:46*	*10*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/28/16 15:46*	*10*

Client Sample ID: MW-3

Date Collected: 01/20/16 11:55
Date Received: 01/23/16 12:10

Lab Sample ID: 440-135945-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	**21000**		2500		ug/L			01/28/16 16:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*122*		*76 - 132*		*01/28/16 16:15*	*50*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*01/28/16 16:15*	*50*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/28/16 16:15*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2000**		25		ug/L			01/28/16 16:15	50
Ethylbenzene	**840**		25		ug/L			01/28/16 16:15	50
Methyl-t-Butyl Ether (MTBE)	**660**		25		ug/L			01/28/16 16:15	50
tert-Butyl alcohol (TBA)	**770**	**ID**	500		ug/L			01/28/16 16:15	50
Toluene	ND		25		ug/L			01/28/16 16:15	50
Xylenes, Total	**690**		50		ug/L			01/28/16 16:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*01/28/16 16:15*	*50*
Dibromofluoromethane (Surr)	*122*		*76 - 132*		*01/28/16 16:15*	*50*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/28/16 16:15*	*50*

Client Sample ID: MW-4 — Lab Sample ID: 440-135945-3

Date Collected: 01/20/16 11:25 — **Matrix: Water**
Date Received: 01/23/16 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	**5500**		130		ug/L			01/28/16 16:44	2.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*76 - 132*		*01/28/16 16:44*	*2.5*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*01/28/16 16:44*	*2.5*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/28/16 16:44*	*2.5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**20**		1.3		ug/L			01/28/16 16:44	2.5
Ethylbenzene	**120**		1.3		ug/L			01/28/16 16:44	2.5
Methyl-t-Butyl Ether (MTBE)	**41**		1.3		ug/L			01/28/16 16:44	2.5
tert-Butyl alcohol (TBA)	ND		25		ug/L			01/28/16 16:44	2.5
Toluene	**6.1**		1.3		ug/L			01/28/16 16:44	2.5
Xylenes, Total	**360**		2.5		ug/L			01/28/16 16:44	2.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*01/28/16 16:44*	*2.5*
Dibromofluoromethane (Surr)	*119*		*76 - 132*		*01/28/16 16:44*	*2.5*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/28/16 16:44*	*2.5*

Client Sample ID: MW-5 — Lab Sample ID: 440-135945-4

Date Collected: 01/20/16 11:45 — **Matrix: Water**
Date Received: 01/23/16 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			01/28/16 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*01/28/16 17:12*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*01/28/16 17:12*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/28/16 17:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			01/28/16 17:12	1
Ethylbenzene	ND		0.50		ug/L			01/28/16 17:12	1
Methyl-t-Butyl Ether (MTBE)	**1.1**		0.50		ug/L			01/28/16 17:12	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			01/28/16 17:12	1
Toluene	ND		0.50		ug/L			01/28/16 17:12	1
Xylenes, Total	ND		1.0		ug/L			01/28/16 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*01/28/16 17:12*	*1*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*01/28/16 17:12*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/28/16 17:12*	*1*

Client Sample ID: MW-6 — Lab Sample ID: 440-135945-5

Date Collected: 01/20/16 11:03 — **Matrix: Water**
Date Received: 01/23/16 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	1100		50		ug/L			01/28/16 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*01/28/16 17:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*01/28/16 17:41*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/28/16 17:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	82		0.50		ug/L			01/28/16 17:41	1
Ethylbenzene	0.89		0.50		ug/L			01/28/16 17:41	1
Methyl-t-Butyl Ether (MTBE)	32		0.50		ug/L			01/28/16 17:41	1
tert-Butyl alcohol (TBA)	1500		10		ug/L			01/28/16 17:41	1
Toluene	1.8		0.50		ug/L			01/28/16 17:41	1
Xylenes, Total	4.0		1.0		ug/L			01/28/16 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*01/28/16 17:41*	*1*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*01/28/16 17:41*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/28/16 17:41*	*1*

Client Sample ID: MW-8 — Lab Sample ID: 440-135945-6

Date Collected: 01/20/16 11:45 — **Matrix: Water**
Date Received: 01/23/16 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	120		50		ug/L			01/28/16 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*76 - 132*		*01/28/16 18:09*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*01/28/16 18:09*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/28/16 18:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			01/28/16 18:09	1
Ethylbenzene	ND		0.50		ug/L			01/28/16 18:09	1
Methyl-t-Butyl Ether (MTBE)	130		0.50		ug/L			01/28/16 18:09	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			01/28/16 18:09	1
Toluene	ND		0.50		ug/L			01/28/16 18:09	1
Xylenes, Total	ND		1.0		ug/L			01/28/16 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*01/28/16 18:09*	*1*
Dibromofluoromethane (Surr)	*118*		*76 - 132*		*01/28/16 18:09*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/28/16 18:09*	*1*

Client Sample ID: MW-9 **Lab Sample ID: 440-135945-7**
Date Collected: 01/20/16 13:00 **Matrix: Water**
Date Received: 01/23/16 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	**130**		50		ug/L			01/28/16 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*123*		*76 - 132*		*01/28/16 18:37*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*01/28/16 18:37*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/28/16 18:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.61**		0.50		ug/L			01/28/16 18:37	1
Ethylbenzene	ND		0.50		ug/L			01/28/16 18:37	1
Methyl-t-Butyl Ether (MTBE)	**130**		0.50		ug/L			01/28/16 18:37	1
tert-Butyl alcohol (TBA)	**18**		10		ug/L			01/28/16 18:37	1
Toluene	ND		0.50		ug/L			01/28/16 18:37	1
Xylenes, Total	ND		1.0		ug/L			01/28/16 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*01/28/16 18:37*	*1*
Dibromofluoromethane (Surr)	*123*		*76 - 132*		*01/28/16 18:37*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/28/16 18:37*	*1*

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: Shell - 4255 MacArthur Blvd., Oakland

TestAmerica Job ID: 440-135945-1

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

Protocol References:

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

Laboratory References:

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

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: Shell - 4255 MacArthur Blvd., Oakland

TestAmerica Job ID: 440-135945-1

Client Sample ID: MW-1
Date Collected: 01/20/16 12:00
Date Received: 01/23/16 12:10

Lab Sample ID: 440-135945-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	10 mL	10 mL	308533	01/28/16 15:46	AA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		10	10 mL	10 mL	308534	01/28/16 15:46	AA	TAL IRV

Client Sample ID: MW-3
Date Collected: 01/20/16 11:55
Date Received: 01/23/16 12:10

Lab Sample ID: 440-135945-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	10 mL	10 mL	308533	01/28/16 16:15	AA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		50	10 mL	10 mL	308534	01/28/16 16:15	AA	TAL IRV

Client Sample ID: MW-4
Date Collected: 01/20/16 11:25
Date Received: 01/23/16 12:10

Lab Sample ID: 440-135945-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2.5	10 mL	10 mL	308533	01/28/16 16:44	AA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		2.5	10 mL	10 mL	308534	01/28/16 16:44	AA	TAL IRV

Client Sample ID: MW-5
Date Collected: 01/20/16 11:45
Date Received: 01/23/16 12:10

Lab Sample ID: 440-135945-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	308533	01/28/16 17:12	AA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	308534	01/28/16 17:12	AA	TAL IRV

Client Sample ID: MW-6
Date Collected: 01/20/16 11:03
Date Received: 01/23/16 12:10

Lab Sample ID: 440-135945-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	308533	01/28/16 17:41	AA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	308534	01/28/16 17:41	AA	TAL IRV

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: Shell - 4255 MacArthur Blvd., Oakland

TestAmerica Job ID: 440-135945-1

Client Sample ID: MW-8

Date Collected: 01/20/16 11:45
Date Received: 01/23/16 12:10

Lab Sample ID: 440-135945-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	308533	01/28/16 18:09	AA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	308534	01/28/16 18:09	AA	TAL IRV

Client Sample ID: MW-9

Date Collected: 01/20/16 13:00
Date Received: 01/23/16 12:10

Lab Sample ID: 440-135945-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	308533	01/28/16 18:37	AA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	308534	01/28/16 18:37	AA	TAL IRV

Laboratory References:

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

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

Lab Sample ID: MB 440-308533/4
Matrix: Water
Analysis Batch: 308533

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			01/28/16 08:22	1
Ethylbenzene	ND		0.50		ug/L			01/28/16 08:22	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			01/28/16 08:22	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			01/28/16 08:22	1
Toluene	ND		0.50		ug/L			01/28/16 08:22	1
Xylenes, Total	ND		1.0		ug/L			01/28/16 08:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*01/28/16 08:22*	*1*
Dibromofluoromethane (Surr)	*115*		*76 - 132*		*01/28/16 08:22*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*01/28/16 08:22*	*1*

Lab Sample ID: LCS 440-308533/5
Matrix: Water
Analysis Batch: 308533

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.0		ug/L		96	68 - 130
Ethylbenzene	25.0	26.5		ug/L		106	70 - 130
m,p-Xylene	25.0	27.3		ug/L		109	70 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	26.7		ug/L		107	63 - 131
o-Xylene	25.0	26.6		ug/L		106	70 - 130
tert-Butyl alcohol (TBA)	250	281		ug/L		112	70 - 130
Toluene	25.0	24.9		ug/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

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

Lab Sample ID: MB 440-308534/4
Matrix: Water
Analysis Batch: 308534

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			01/28/16 08:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*76 - 132*		*01/28/16 08:22*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*01/28/16 08:22*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*01/28/16 08:22*	*1*

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

Lab Sample ID: LCS 440-308534/6
Matrix: Water
Analysis Batch: 308534

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Volatile Fuel Hydrocarbons (C4-C12)			500	413		ug/L		83	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 128*

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: Shell - 4255 MacArthur Blvd., Oakland

TestAmerica Job ID: 440-135945-1

GC/MS VOA

Analysis Batch: 308533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-135945-1	MW-1	Total/NA	Water	8260B	
440-135945-2	MW-3	Total/NA	Water	8260B	
440-135945-3	MW-4	Total/NA	Water	8260B	
440-135945-4	MW-5	Total/NA	Water	8260B	
440-135945-5	MW-6	Total/NA	Water	8260B	
440-135945-6	MW-8	Total/NA	Water	8260B	
440-135945-7	MW-9	Total/NA	Water	8260B	
LCS 440-308533/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-308533/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 308534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-135945-1	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
440-135945-2	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
440-135945-3	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
440-135945-4	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
440-135945-5	MW-6	Total/NA	Water	8260B/CA_LUFT MS	
440-135945-6	MW-8	Total/NA	Water	8260B/CA_LUFT MS	
440-135945-7	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-308534/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-308534/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
ID	Analyte identified by RT & presence of single mass ion

Glossary

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

Certification Summary

Client: AECOM Technical Services Inc. TestAmerica Job ID: 440-135945-1
Project/Site: Shell - 4255 MacArthur Blvd., Oakland

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Methyl-t-Butyl Ether (MTBE)
8260B		Water	Xylenes, Total
8260B/CA_LUFTMS		Water	Volatile Fuel Hydrocarbons (C4-C12)

Laboratory: TestAmerica Pleasanton

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16 *

* Certification renewal pending - certification considered valid.

LAB (LOCATION)
- ☐ ACCUTEST ( )
- ☐ CALSCIENCE ( )
- ☑ TESTAMERICA ( )
- ☐ Other ( )

Lab Vendor # 1364589 (TestAmerica)

Shell Oil Products US Chain Of Custody Record

AECOM

Please Check Appropriate Box:			Print Bill To Contact Name:	PlaNet Site or Project ID	☐ CHECK IF NO INCIDENT # APPLIES
☐ SGW FDG	☐ PIPELINE	☐ RETAIL	Christine Pilachowski	38573	DATE: 1/20/16
☐ CHEMICALS	☑ CONSULTANT	☐ LUBES	PO #	GSAP Project ID	PAGE: 1 of 1
☐ TRANSPORTATION	☐ OTHER			USPC/00308,USRT/00752	

SAMPLING COMPANY: Blaine Tech Services, Inc.	LOG CODE: BTSS
ADDRESS: 1680 Rogers Ave., San Jose, CA, 95112	
PROJECT CONTACT (Hardcopy or PDF Report to): Bart Gebbie	
TELEPHONE: 310-885-4455 Ext. 103	FAX: 310-637-5802
Bill To Contact E-MAIL: christine.pilachowski@aecom.com	

SITE ADDRESS: Street and City: 4255 MacArthur Blvd., Oakland	State: CA	AECOM Project / Task Number:	
EDF DELIVERABLE TO (Name, Company, Office Location): Casey Huff, AECOM, Oakland, CA	PHONE NO.: 510-893-3600	E-MAIL: casey.huff@aecom.com	AECOM Other ID: 10059253
SAMPLER NAME(S) (Print): Rodolfo Huerta		LAB USE ONLY	

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☑ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

Email invoice to USAPimaging@aecom.com

REQUESTED ANALYSIS — UNIT COST / NON-UNIT COST

FIELD NOTES: TEMPERATURE ON RECEIPT C°; Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH-GRO, Purgeable (8260B)	BTEX, MTBE, TBA (8260B)	BTEX, MTBE (8260B)	5 OXYS (8260B)	Ethanol (8260B)	Field Notes
	MW-1	1/20/16	1200	W	3					3	X	X				
	MW-3		1155	W	3					3	X	X				
	MW-4		1125	W	3					3	X	X				
	MW-5		1145	W	3					3	X	X				
	MW-6		1103	W	3					3	X	X				
	MW-8		1145	W	3					3	X	X				
	MW-9		1300	W	3					3	X	X				MS 1/25/16 14:50

440-135945 Chain of Custody

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Rodolfo 1/20/16 1315	[signature]	1-20-16	1315
[signature] 1-20-16 1420	[signature] (sample custodian)	1-20-16	1420
[signature] (Sample Custodian)	[signature]	1/21/16	0900

Version: 14Dec15

[signature] 1/22/16, 1500 [signature] 23, 2.1°C 1-21-16 1355

1.4°/1.2° 1.1°/0.9° IR-77
3.9°/3.7°

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1/29/2016

Ref: 6618 8700 8836

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 440-135945-1

Login Number: 135945
List Number: 1
Creator: Skinner, Alma

List Source: TestAmerica Irvine

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 440-139101-1
Client Project/Site: Shell - 4255 MacArthur Blvd., Oakland

For:
AECOM Technical Services Inc.
1333 Broadway
Suite 800
Oakland, California 94612

Attn: Casey Huff

Authorized for release by:
3/7/2016 2:48:37 PM

Laura Turpen, Project Manager I
(916)374-4414
laura.turpen@testamericainc.com

Table of Contents

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: Shell - 4255 MacArthur Blvd., Oakland

TestAmerica Job ID: 440-139101-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-139101-1	MW-7	Water	02/22/16 14:50	02/24/16 09:50

Job ID: 440-139101-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-139101-1

Comments
No additional comments.

Receipt
The samples were received on 2/24/2016 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.1º C, 3.4º C and 3.9º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Shell - 4255 MacArthur Blvd., Oakland

TestAmerica Job ID: 440-139101-1

Client Sample ID: MW-7
Date Collected: 02/22/16 14:50
Date Received: 02/24/16 09:50

Lab Sample ID: 440-139101-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	**650**		500		ug/L			03/03/16 00:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*03/03/16 00:54*	*10*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/03/16 00:54*	*10*
Toluene-d8 (Surr)	*101*		*80 - 128*		*03/03/16 00:54*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**90**		5.0		ug/L			03/03/16 00:54	10
Ethylbenzene	ND		5.0		ug/L			03/03/16 00:54	10
Methyl-t-Butyl Ether (MTBE)	**480**		5.0		ug/L			03/03/16 00:54	10
tert-Butyl alcohol (TBA)	**1100**		100		ug/L			03/03/16 00:54	10
Toluene	ND		5.0		ug/L			03/03/16 00:54	10
Xylenes, Total	**18**		10		ug/L			03/03/16 00:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/03/16 00:54*	*10*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*03/03/16 00:54*	*10*
Toluene-d8 (Surr)	*101*		*80 - 128*		*03/03/16 00:54*	*10*

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: Shell - 4255 MacArthur Blvd., Oakland

TestAmerica Job ID: 440-139101-1

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

Protocol References:

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

Laboratory References:

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

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: Shell - 4255 MacArthur Blvd., Oakland

TestAmerica Job ID: 440-139101-1

Client Sample ID: MW-7
Date Collected: 02/22/16 14:50
Date Received: 02/24/16 09:50

Lab Sample ID: 440-139101-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	10 mL	10 mL	314912	03/03/16 00:54	WK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		10	10 mL	10 mL	314913	03/03/16 00:54	WK	TAL IRV

Laboratory References:

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

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

Lab Sample ID: MB 440-314912/26
Matrix: Water
Analysis Batch: 314912

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/02/16 21:51	1
Ethylbenzene	ND		0.50		ug/L			03/02/16 21:51	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/02/16 21:51	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			03/02/16 21:51	1
Toluene	ND		0.50		ug/L			03/02/16 21:51	1
Xylenes, Total	ND		1.0		ug/L			03/02/16 21:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/02/16 21:51*	*1*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*03/02/16 21:51*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*03/02/16 21:51*	*1*

Lab Sample ID: LCS 440-314912/27
Matrix: Water
Analysis Batch: 314912

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	23.7		ug/L		95	68 - 130
Ethylbenzene	25.0	24.1		ug/L		96	70 - 130
m,p-Xylene	25.0	25.2		ug/L		101	70 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	24.5		ug/L		98	63 - 131
o-Xylene	25.0	24.5		ug/L		98	70 - 130
tert-Butyl alcohol (TBA)	250	276		ug/L		110	70 - 130
Toluene	25.0	24.2		ug/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
Toluene-d8 (Surr)	*97*		*80 - 128*

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

Lab Sample ID: MB 440-314913/26
Matrix: Water
Analysis Batch: 314913

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			03/02/16 21:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*03/02/16 21:51*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/02/16 21:51*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*03/02/16 21:51*	*1*

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

Lab Sample ID: LCS 440-314913/6
Matrix: Water
Analysis Batch: 314913

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Volatile Fuel Hydrocarbons (C4-C12)			500	365		ug/L		73	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*76 - 132*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 128*

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: Shell - 4255 MacArthur Blvd., Oakland

TestAmerica Job ID: 440-139101-1

GC/MS VOA

Analysis Batch: 314912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139101-1	MW-7	Total/NA	Water	8260B	
LCS 440-314912/27	Lab Control Sample	Total/NA	Water	8260B	
MB 440-314912/26	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 314913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139101-1	MW-7	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-314913/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-314913/26	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Glossary

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

Certification Summary

Client: AECOM Technical Services Inc. TestAmerica Job ID: 440-139101-1
Project/Site: Shell - 4255 MacArthur Blvd., Oakland

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Methyl-t-Butyl Ether (MTBE)
8260B		Water	Xylenes, Total
8260B/CA_LUFTMS		Water	Volatile Fuel Hydrocarbons (C4-C12)

Laboratory: TestAmerica Pleasanton

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-17

Shell Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION)

- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # 1364589 (TestAmerica)

Please Check Appropriate Box:

☐ SGW FDG	☐ PIPELINE	☐ RETAIL
☐ CHEMICALS	☑ CONSULTANT	☐ LUBES
☐ TRANSPORTATION	☐ OTHER _____	

Print Bill To Contact Name:	PlaNet Site or Project ID
Christine Pilachowski	38573
PO #	**GSAP Project ID**
	USPC/00308,USRT/00752

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 2/22/16

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services, Inc.

LOG CODE: BTSS

SITE ADDRESS: Street and City: 4255 MacArthur Blvd., Oakland

State: CA

AECOM Project / Task Number:

ADDRESS: 1680 Rogers Ave., San Jose, CA, 95112

EDF DELIVERABLE TO (Name, Company, Office Location): Casey Huff, AECOM, Oakland, CA

PHONE NO.: 510-893-3600

E-MAIL: casey.huff@aecom.com

AECOM Other ID: 10059253

PROJECT CONTACT (Hardcopy or PDF Report to): Bart Gebbie

SAMPLER NAME(S) (Print): Brian Weeks

LAB USE ONLY

TELEPHONE: 310-885-4455 Ext. 103

FAX: 310-637-5802

Bill To Contact E-MAIL: christine.pilachowski@aecom.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☑ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

Email invoice to USAPimaging@aecom.com

- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

UNIT COST: TPH-GRO, Purgeable (8260B); BTEX, MTBE, TBA (8260B); BTEX, MTBE (8260B); 5 OXYS (8260B); Ethanol (8260B)

NON-UNIT COST

FIELD NOTES:

TEMPERATURE ON RECEIPT: 3.1/3.4 °C; 2.8/3.1 IR-7; 3.6/3.9

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH-GRO, Purgeable (8260B)	BTEX, MTBE, TBA (8260B)	BTEX, MTBE (8260B)	5 OXYS (8260B)	Ethanol (8260B)
	MW-7	2/22/16	1450	WG	X					3	X	X			

440-139101 Chain of Custody

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Sample custody	2/22/16	1600
(Sample Custody)		2/23/16	1145
2/23/16 1550		2/24/16	9:50

Version: 14Dec15

Fed: 6618 8701 0600

3.0°C

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc. Job Number: 440-139101-1

Login Number: 139101 **List Source: TestAmerica Irvine**
List Number: 1
Creator: Schulze, Julon S

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

Appendix C

AECOM - Data Tables for 76 Service Station No. 1156

Table 1
Well Construction Details
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

Well ID	Well Installation Date	Casing Diameter (in.)	Boring Depth (ft. bgs)	Screen Interval (ft. bgs)	Screen Size (in.)	Filter Pack (ft. bgs)	Bentonite Seal (ft. bgs)	Grout Interval (ft. bgs)
MW-1*	7/16/1999	2	26.5	5-25	0.01	4-26.5	3-4	0-3
MW-1B	8/17/2010	2	25	20-25	0.02	19-25	18-19	0.5-18
MW-2*	7/16/1999	2	26.5	5-25	0.01	4-26.5	3-4	0-3
MW-2B	8/16/2010	2	25	20-25	0.02	19-25	18-19	0.5-18
MW-3*	7/16/1999	2	31.5	5-25	0.01	4-27	3-4; 27-31.5	0-3
MW-3B	8/16/2010	2	25	20-25	0.02	19-25	18-19	0.5-18
MW-4*	7/16/1999	2	26.5	5-25	0.01	4-26.5	3-4	0-3
MW-4B	8/13/2010	2	25	20-25	0.02	19-25	18-19	0.5-18
MW-5	8/29/2001	2	25	5-25	0.02	4-25	3-4	0.5-3
MW-6	8/29/2001	2	25	5-25	0.02	4-25	3-4	0.5-3
MW-7	8/29/2001	2	25	5-25	0.02	4-25	3-4	0.5-3
MW-8	10/30/2007	2	25	15-25	0.01	13-25	11-13	1-11
MW-9A	3/18/2013	2	15	10-15	0.02	8-15	1.5-8	1-1.5
MW-9B	3/18/2013	2	20	15-20	0.02	13-20	1.5-13	1-1.5
MW-10A	3/18/2013	2	15	10-15	0.02	8-15	1.5-8	1-1.5
MW-10B	3/18/2013	2	20	15-20	0.02	13-20	1.5-13	1-1.5
MW-10S	6/12/2014	4	10	6.5-10	0.02	3.5-10	1-3.5	n/a
MW-11A	3/19/2013	2	15	10-15	0.02	8-15	1.5-8	1-1.5
MW-11B	3/19/2013	2	20	15-20	0.02	13-20	1.5-13	1-1.5
MW-11S	6/11/2014	4	10	6.5-10	0.02	3.5-10	1-3.5	n/a

Notes:
* = Destroyed and replaced with "B" well in 2010
ft. bgs = Feet below ground surface
ID = Identification
in. = Inches
n/a = Not available

Table 2
Current Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

Well ID	Date Sampled	TOC* (ft)	DTW (ft)	LNAPL Thickness (ft)	GWE* (ft)	Oil and Grease (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Comments
MW-1B	1/20/2016	174.06	5.86	0	168.20	--	ND<40	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
MW-2B	1/20/2016	173.55	4.91	0	168.64	--	ND<40	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
MW-3B	1/20/2016	177.77	5.18	0	172.59	--	240	4,700	160	52	230	80	
MW-4B	1/20/2016	179.07	5.14	0	173.93	--	ND<40	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
MW-5	1/20/2016	169.18	1.42	0	167.76	--	ND<40	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
MW-7	1/20/2016	172.11	6.48	0	165.63	--	ND<40	130	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
MW-9A	1/20/2016	173.01	8.47	0	164.54	--	360	7,700	2,400	17	53	14	
MW-9B	1/20/2016	172.78	4.72	0	168.06	--	ND<40	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
MW-10A	1/20/2016	174.48	8.63	0	165.85	--	990	30,000	9,100	200	960	1,000	
MW-10B	1/20/2016	174.62	6.43	0	168.19	--	300	7,800	1,600	60	240	270	
MW-10S	1/20/2016	175.57	6.13	0	169.44	ND<5,000	ND<40	200	5.6	ND<0.30	15	ND<0.60	
MW-11A	1/20/2016	175.37	4.28	0	171.09	--	930	68,000	10,000	5,500	1,500	11,000	
MW-11B	1/20/2016	174.65	7.71	0	166.94	--	780	35,000	9,400	1,600	880	2,300	
MW-11S	1/20/2016	176.09	3.23	0	172.86	--	ND<40	270	2.6	0.47	1.4	0.86	
QA	1/20/2016	--	--	--	--	--	--	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	

Notes:
* TOC and GWE are in feet above mean sea level
Oil and grease analyzed by Environmental Protection Agency (EPA) Method 1664A HEM
TPH-DRO with SGC analyzed by EPA Method 8015B/TPHd
TPH-GRO analyzed by EPA Method 8015B
BTEX analyzed by EPA Method 8020
µg/L = Micrograms per liter
-- = Not available/not sampled
B = Benzene
DTW = Depth to water below TOC
E = Ethylbenzene
ft = Feet
GWE = Groundwater elevation
ID = Identification
LNAPL = Light non-aqueous phase liquid
ND<# = Analyte not detected at or above indicated practical quantitation limit
Q1 = 1st quarter
QA = Trip blank
T = Toluene
TOC = Top of casing
TPH-DRO W/SGC = Total petroleum hydrocarbons-diesel range organics with silica gel cleanup
TPH-GRO = Total petroleum hydrocarbons-gasoline range organics
X = Total xylenes

Table 3
Current Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	DATE	MTBE (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	EDB (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-1B	1/20/2016	14	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2B	1/20/2016	3.8	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-3B	1/20/2016	8.9	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-4B	1/20/2016	1.7	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-5	1/20/2016	2.2	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-7	1/20/2016	120	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-9A	1/20/2016	16	1,300	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-9B	1/20/2016	4.1	ND<10	ND<250	ND<0.50	1.1	ND<0.50	ND<0.50	ND<0.50
MW-10A	1/20/2016	320	ND<50	ND<1,200	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
MW-10B	1/20/2016	51	ND<10	ND<250	ND<0.50	36	ND<0.50	ND<0.50	ND<0.50
MW-10S	1/20/2016	4.4	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-11A	1/20/2016	2,400	ND<500	ND<12,000	ND<25	ND<25	ND<25	ND<25	ND<25
MW-11B	1/20/2016	1,900	ND<250	ND<6,200	ND<12	ND<12	ND<12	ND<12	ND<12
MW-11S	1/20/2016	2.5	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
QA	1/20/2016	ND<0.50	--	--	--	--	--	--	--

Notes:
Oxygenate compounds analyzed by Environmental Protection Agency Method 8260B
µg/L = Micrograms per liter
-- = Not sampled
DIPE = Diisopropyl ether
EDB = 1,2-dibromoethane
EDC = 1,2-dichloroethane
ETBE = Ethyl t-butyl ether
ID = Identification
MTBE = Methyl t-butyl ether
ND<# = Analyte not detected at or above indicated practical quantitation limit
QA = Trip blank
TAME = t-amyl methyl ether
TBA = t-butyl alcohol

Table 4
Current Groundwater Analytical Results - Monitored Natural Attenuation Parameters
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

Well ID	Date	Methane (mg/L)	Nitrate as NO3 (mg/L)	Sulfate (mg/L)	Iron (II) Species (µg/L)	Dissolved Manganese (µg/L)
MW-3B	1/20/2016	3.0	ND<0.44	4.9	1,400	3,200
MW-9A	1/20/2016	1.3	ND<0.44	ND<1.0	21,000	1,000
MW-10A	1/20/2016	1.2	ND<0.44	ND<1.0	5,100	1,000
MW-10B	1/20/2016	0.86	ND<0.44	ND<1.0	7,800	5,100
MW-10S	1/20/2016	0.0018	ND<0.44	33	200	1,400
MW-11A	1/20/2016	5.2	ND<0.44	ND<1.0	5,500	3,400
MW-11B	1/20/2016	1.5	ND<0.44	ND<1.0	5,500	1,400
MW-11S	1/20/2016	0.0014	ND<0.44	28	440	330

Notes:

Methane analyzed by Method RSK-175M

Nitrate as NO3 and sulfate analyzed by Environmental Protection Agency (EPA) Method 300.0

Iron (II) Species analyzed by Method SM-3500-FeD

Dissolved Manganese analyzed by EPA Method 200.8

µg/L = Micrograms per liter

-- = Not sampled

ID = Identification

mg/L = Milligrams per liter

ND<# = Analyte not detected at or above indicated practical quantitation limit

Table 5
Historical Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

Well ID	Date Sampled	TOC* (ft)	DTW (ft)	LNAPL Thickness (ft)	GWE* (ft)	Oil and Grease (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
MW-1	7/20/1999	174.86	7.50	0	167.36	--	16,000	120,000	--	11,000	27,000	3,300	18,000	
	9/28/1999	174.86	8.75	0	166.11	--	2,410	6,020	--	1,030	1,040	68.5	412	
	1/7/2000	174.86	9.05	0.02	165.82	--	7,870	72,700	--	7,410	13,900	2,070	9,620	GWE corrected
	3/31/2000	174.86	7.18	0	167.68	--	3,600	92,000	--	10,000	23,000	3,200	14,000	
	7/14/2000	174.86	7.68	0	167.18	--	8,580	108,000	--	8,250	18,700	3,750	17,800	
	10/3/2000	174.86	7.99	0	166.87	--	9,260	96,000	--	8,760	20,000	3,350	15,600	
	1/3/2001	174.86	9.18	0	165.68	--	11,000	37,000	--	5,800	13,000	1,700	8,100	
	4/4/2001	174.86	8.05	0	166.81	--	14,000	86,900	--	7,780	18,500	2,470	11,800	
	7/17/2001	174.86	7.01	0	167.85	--	2,200	79,000	--	5,600	11,000	2,800	12,000	
	10/3/2001	177.54	7.89	0	169.65	--	--	99,000	--	8,200	18,000	3,000	16,000	
	10/5/2001	177.54	7.91	0	169.63	--	13,000	--	--	--	--	--	--	
	1/28/2002	177.54	5.98	0	171.56	--	4,400	110,000	--	8,900	19,000	2,600	12,000	
	4/25/2002	177.54	6.19	0	171.35	--	9,000	93,000	--	8,100	18,000	3,000	15,000	
	7/18/2002	177.54	6.99	0	170.55	--	9,200	69,000	--	5,400	10,000	2,100	10,000	
	10/7/2002	177.54	7.73	0	169.81	--	3,400	82,000	--	9,200	20,000	2,600	13,000	
	1/6/2003	177.54	5.48	0	172.06	--	5,100	82,000	--	6,500	18,000	2,700	11,000	
	4/7/2003	177.54	6.30	0	171.24	--	2,800	74,000	--	7,000	15,000	2,400	11,000	
	7/7/2003	177.54	6.47	0	171.07	--	7,000	60,000	--	6,400	11,000	2,600	11,000	
	10/9/2003	177.54	7.85	0	169.69	--	4,300	91,000	81,000	8,100	17,000	3,200	14,000	Sampled for TPH-GRO by 8015M on 11/14/2003
	1/14/2004	177.54	6.69	0	170.85	--	6,200	98,000	--	8,000	21,000	2,600	15,000	
	4/28/2004	177.54	6.43	0	171.11	--	--	93,000	--	9,000	20,000	1,300	10,000	
	7/12/2004	177.54	7.44	0	170.10	--	270	57,000	--	6,900	7,200	1,600	580	
	10/25/2004	177.54	7.54	0	170.00	--	5,100	66,000	--	7,300	19,000	2,700	14,000	
	1/17/2005	177.54	5.79	0	171.75	--	6,400	86,000	--	8,600	21,000	3,200	15,000	
	4/6/2005	177.54	4.93	0	172.61	--	2,800	85,000	--	8,400	20,000	3,200	16,000	
	7/8/2005	177.54	5.35	0	172.19	--	6,400	69,000	--	7,100	17,000	2,700	14,000	
	10/7/2005	177.54	5.96	0	171.58	--	5,500	68,000	--	5,900	8,300	1,800	8,300	
	1/27/2006	177.54	5.08	0	172.46	--	9,000	94,000	--	7,400	19,000	3,700	14,000	
	4/28/2006	177.54	4.85	0	172.69	--	9,200	74,000	--	6,400	13,000	2,300	10,000	
	7/28/2006	177.54	5.32	0	172.22	--	5,100	74,000	--	6,600	12,000	3,100	13,000	
	10/27/2006	177.54	6.13	0	171.41	--	4,600	100,000	--	8,300	20,000	3,600	16,000	
	1/10/2007	177.54	5.47	0	172.07	--	12,000	84,000	--	7,100	15,000	2,600	13,000	
	4/13/2007	177.54	5.60	0	171.94	--	8,400	27,000	--	5,600	840	2,300	3,200	
	7/19/2007	177.54	5.69	0	171.85	--	10,000	83,000	--	6,000	15,000	2,600	13,000	
	10/8/2007	177.54	--	--	--	--	--	--	--	--	--	--	--	Gate locked; no key available
	1/9/2008	177.54	5.15	0	172.39	--	12,000	40,000	--	6,000	4,800	2,600	5,100	Gauged on 1/18/2008
	4/4/2008	177.54	5.25	0	172.29	--	15,000	71,000	--	6,800	12,000	3,300	13,000	
	7/3/2008	177.54	6.00	0	171.54	--	9,300	92,000	--	7,000	16,000	3,500	15,000	

Table 5
Historical Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

Well ID	Date Sampled	TOC* (ft)	DTW (ft)	LNAPL Thickness (ft)	GWE* (ft)	Oil and Grease (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	10/3/2008	177.54	7.16	0	170.38	--	4,400	69,000	--	7,200	18,000	3,500	14,000	
	1/22/2009	177.54	6.61	0	170.93	--	8,000	45,000	--	410	720	2,400	9,600	
	4/13/2009	177.54	5.11	0	172.43	--	4,800	5,400	--	300	640	300	940	
	7/23/2009	177.54	6.04	0	171.50	--	2,800	85,000	--	5,800	15,000	3,500	13,000	
	2/1/2010	177.54	4.86	0	172.68	ND<5,000	3,900	74,000	--	7,000	11,000	3,100	10,000	
	8/2/2010	177.54	5.68	0	171.86	ND<5,000	3,900	71,000	--	7,000	11,000	3,300	10,000	
	8/24/2010	DESTROYED												
MW-1B	11/1/2010	174.05	7.15	0	166.90	ND<5,000	ND<50	99	--	3.0	0.30	ND<0.30	ND<0.60	
	1/31/2011	174.05	6.62	0	167.43	ND<5,000	ND<50	170	--	6.7	0.64	0.33	ND<0.60	
	4/26/2011	174.05	6.14	0	167.91	ND<5,000	ND<50	220	--	7.3	0.55	0.32	0.69	
	7/25/2011	174.05	6.69	0	167.36	ND<5,000	ND<40	140	--	7.8	0.35	ND<0.30	ND<0.60	
	10/7/2011	174.06	6.86	0	167.20	ND<5,000	ND<40	120	--	5.7	ND<0.30	ND<0.30	ND<0.60	
	1/23/2012	174.06	6.96	0	167.10	ND<5,000	ND<40	89	--	3.6	ND<0.30	ND<0.30	ND<0.60	
	4/6/2012	174.06	5.89	0	168.17	ND<5,000	ND<40	110	--	4.5	ND<0.30	ND<0.30	ND<0.60	
	7/24/2012	174.06	6.98	0	167.08	ND<5,000	ND<40	130	--	6.2	ND<0.30	ND<0.30	ND<0.60	
	2/8/2013	174.06	6.65	0	167.41	ND<5,000	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/10/2013	174.06	7.11	0	166.95	ND<5,000	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	0.61	
	1/16/2014	174.06	7.73	0	166.33	ND<5,000	ND<40	ND<50	--	1.0	ND<0.30	ND<0.30	ND<0.60	
	7/22/2014	174.06	7.18	0	166.88	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/27/2015	174.06	6.63	0	167.43	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/21/2015	174.06	7.64	0	166.42	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/20/2016	**174.06**	**5.86**	**0**	**168.20**	**--**	**ND<40**	**ND<50**	**--**	**ND<0.30**	**ND<0.30**	**ND<0.30**	**ND<0.60**	
MW-2	7/20/1999	173.01	5.40	--	167.61	--	--	ND	--	ND	ND	ND	ND	
	9/28/1999	173.01	5.60	0	167.41	--	--	1,390	--	124	ND	62.9	43.1	
	1/7/2000	173.01	5.92	0	167.09	--	--	1,450	--	99	ND	23.8	16	
	3/31/2000	173.01	5.23	0	167.78	--	--	ND	--	42	ND	ND	ND	
	7/14/2000	173.01	5.52	0	167.49	--	--	ND	--	44.7	ND	ND	ND	
	10/3/2000	173.01	6.04	0	166.97	--	--	ND	--	56.7	ND	ND	ND	
	1/3/2001	173.01	6.42	0	166.59	--	--	ND	--	ND	ND	ND	ND	
	4/4/2001	173.01	6.14	0	166.87	--	--	ND	--	ND	ND	ND	ND	
	7/17/2001	173.01	5.30	0	167.71	--	--	ND	--	ND	ND	ND	ND	
	10/3/2001	173.50	7.38	0	166.12	--	--	ND<250	--	2.7	ND<2.5	ND<2.5	ND<2.5	
	1/28/2002	173.50	5.68	0	167.82	--	--	ND<250	--	2.5	4.4	2.8	7.4	
	4/25/2002	173.50	5.82	0	167.68	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	7/18/2002	173.50	6.90	0	166.60	--	--	ND<500	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	10/7/2002	173.50	7.54	0	165.96	--	--	4,300	--	ND<10	27	21	75	

Table 5
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76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

Well ID	Date Sampled	TOC* (ft)	DTW (ft)	LNAPL Thickness (ft)	GWE* (ft)	Oil and Grease (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	1/6/2003	173.50	6.79	0	166.71	--	--	5,900	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	4/7/2003	173.50	6.49	0	167.01	--	--	1,500	--	ND<10	14	11	38	
	7/7/2003	173.50	6.72	0	166.78	--	--	ND<2,500	--	ND<25	ND<25	ND<25	ND<25	
	10/9/2003	173.50	7.16	0	166.34	--	--	3,500	ND<5,000	ND<50	ND<50	ND<50	ND<100	Sampled for TPH-GRO by 8015M on 11/14/2003
	1/14/2004	173.50	5.53	0	167.97	--	--	3,200	--	ND<25	ND<25	ND<25	ND<25	
	4/28/2004	173.50	5.21	0	168.29	--	--	22,000	--	ND<3	9.2	ND<3	ND<6	
	7/12/2004	173.50	5.83	0	167.67	--	--	1,700	--	3.8	18	2.6	16	
	10/25/2004	173.50	6.89	0	166.61	--	--	3,400	--	ND<25	ND<25	ND<25	ND<25	
	1/17/2005	173.50	5.70	0	167.80	--	--	1,700	--	ND<10	ND<10	ND<10	ND<10	
	4/6/2005	173.50	4.50	0	169.00	--	--	3,000	--	ND<20	ND<20	ND<20	ND<20	
	7/8/2005	173.50	4.69	0	168.81	--	--	ND<2,000	--	ND<20	ND<20	ND<20	ND<20	
	10/7/2005	173.50	4.61	0	168.89	--	--	7,500	--	6.7	6.6	ND<3.0	ND<6.0	
	1/27/2006	173.50	4.10	0	169.40	--	--	2,500	--	1.0	2.6	ND<0.30	ND<0.60	
	4/28/2006	173.50	3.75	0	169.75	--	--	3,100	--	9.4	3.6	0.94	3.4	
	7/28/2006	173.50	4.34	0	169.16	--	--	3,000	--	2.0	ND<1.5	ND<1.5	ND<3.0	
	10/27/2006	173.50	5.62	0	167.88	--	--	1,800	--	1.5	ND<1.5	ND<1.5	ND<3.0	
	1/10/2007	173.50	4.02	0	169.48	--	--	2,100	--	1.1	ND<0.60	ND<0.60	ND<1.2	
	4/13/2007	173.50	4.03	0	169.47	--	--	3,300	--	12	1.6	0.46	1.1	
	7/19/2007	173.50	4.41	0	169.09	--	--	2,500	--	21	0.64	5.1	1.5	
	10/8/2007	173.50	4.93	0	168.57	--	--	3,400	--	38	1.6	13	2.1	
	1/9/2008	173.50	3.03	0	170.47	--	--	1,700	--	6.2	2.5	0.61	0.91	Gauged on 1/18/2008
	4/4/2008	173.50	3.52	0	169.98	--	--	1,400	--	15	2.1	0.76	ND<0.60	
	7/3/2008	173.50	4.70	0	168.80	--	--	1,100	--	14	1.1	2.0	1.2	
	10/3/2008	173.50	5.57	0	167.93	--	ND<50	740	--	14	ND<0.30	4.5	6.9	
	1/22/2009	173.50	5.03	0	168.47	--	ND<50	640	--	4.6	ND<0.30	ND<0.30	ND<0.60	
	4/13/2009	173.50	3.73	0	169.77	--	ND<50	940	--	7.1	ND<0.30	ND<0.30	ND<0.60	
	7/23/2009	173.50	4.39	0	169.11	--	230	700	--	12	6.0	5.4	13	
	2/1/2010	173.50	4.33	0	169.17	--	140	860	--	17	13	0.83	2.4	
	8/2/2010	173.50	5.16	0	168.34	--	210	1,200	--	9.5	32	1.4	2.4	
	8/24/2010	DESTROYED												
MW-2B	11/1/2010	173.55	11.27	0	162.28	--	57	550	--	7.8	2.7	2.1	0.99	
	1/31/2011	173.55	7.79	0	165.76	--	ND<50	420	--	1.7	0.47	0.59	ND<0.60	
	4/26/2011	173.55	9.09	0	164.46	--	ND<50	390	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/25/2011	173.55	3.91	0	169.64	--	ND<40	210	--	1.7	ND<0.30	ND<0.30	ND<0.60	
	10/7/2011	173.55	4.50	0	169.05	--	52	110	--	1.0	ND<0.30	ND<0.30	ND<0.60	
	1/23/2012	173.55	6.96	0	166.59	--	ND<40	110	--	0.73	ND<0.30	ND<0.30	ND<0.60	
	4/6/2012	173.55	5.67	0	167.88	--	ND<40	120	--	0.36	ND<0.30	ND<0.30	ND<0.60	

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Well ID	Date Sampled	TOC* (ft)	DTW (ft)	LNAPL Thickness (ft)	GWE* (ft)	Oil and Grease (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	7/24/2012	173.55	5.33	0	168.22	--	ND<40	73	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	2/8/2013	173.55	4.58	0	168.97	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/10/2013	173.55	7.06	0	166.49	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/16/2014	173.55	5.58	0	167.97	ND<5,000	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/22/2014	173.55	6.18	0	167.37	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/27/2015	173.55	4.98	0	168.57	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/21/2015	173.55	10.35	0	163.20	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/20/2016	**173.55**	**4.91**	**0**	**168.64**	**--**	**ND<40**	**ND<50**	**--**	**ND<0.30**	**ND<0.30**	**ND<0.30**	**ND<0.60**	
MW-3	7/20/1999	178.44	8.50	--	169.94	--	--	1,000	--	76	52	79	76	
	9/28/1999	178.44	8.31	0	170.13	--	--	1,860	--	174	95.4	71.8	135	
	1/7/2000	178.44	8.56	0	169.88	--	--	28,400	--	2,450	3,090	1,560	3,910	
	3/31/2000	178.44	8.42	0	170.02	--	--	26,000	--	1,300	2,900	2,600	3,500	
	7/14/2000	178.44	8.61	0	169.83	--	--	24,500	--	1,850	2,630	2,750	3,900	
	10/3/2000	178.44	9.14	0	169.30	--	--	22,000	--	1,910	2,020	2,400	2,680	
	1/3/2001	178.44	9.06	0	169.38	--	--	14,000	--	1,600	1,100	2,300	1,400	
	4/4/2001	178.44	8.98	0	169.46	--	--	19,600	--	1,150	1,470	2,100	1,820	
	7/17/2001	178.44	7.46	0	170.98	--	--	26,000	--	1,500	2,100	2,100	3,400	
	10/3/2001	178.13	9.81	0	168.32	--	--	22,000	--	830	1,900	1,700	3,000	
	1/28/2002	178.13	7.39	0	170.74	--	--	30,000	--	880	2,600	1,800	4,300	
	4/25/2002	178.13	7.86	0	170.27	--	--	18,000	--	500	2,000	1,300	3,800	
	7/18/2002	178.13	8.83	0	169.30	--	--	37,000	--	1,800	3,800	2,200	8,000	
	10/7/2002	178.13	9.71	0	168.42	--	--	26,000	--	600	2,000	1,800	6,400	
	1/6/2003	178.13	7.40	0	170.73	--	--	27,000	--	800	2,100	2,000	6,400	
	4/7/2003	178.13	8.17	0	169.96	--	--	28,000	--	660	2,200	1,900	6,300	
	7/7/2003	178.13	8.35	0	169.78	--	--	33,000	--	1,200	2,500	2,700	8,300	
	10/9/2003	178.13	9.39	0	168.74	--	--	3,800	6,000	120	260	390	1,200	Sampled for TPH-GRO by 8015M on 11/14/2003
	1/14/2004	178.13	6.86	0	171.27	--	--	5,100	--	120	240	310	720	
	4/28/2004	178.13	6.63	0	171.50	--	--	7,300	--	250	440	580	1300	
	7/12/2004	178.13	7.41	0	170.72	--	--	5,500	--	350	310	120	350	
	10/25/2004	178.13	8.81	0	169.32	--	--	3,300	--	96	140	270	490	
	1/17/2005	178.13	6.37	0	171.76	--	--	3,400	--	150	270	360	750	
	4/6/2005	178.13	4.69	0	173.44	--	--	14,000	--	420	1,300	1,000	3,100	
	7/8/2005	178.13	5.23	0	172.90	--	--	5,000	--	180	290	500	800	
	10/7/2005	178.13	6.35	0	171.78	--	--	6,800	--	270	120	ND<0.30	210	
	1/27/2006	178.13	5.24	0	172.89	--	--	3,200	--	120	140	270	460	
	4/28/2006	178.13	5.01	0	173.12	--	--	4,500	--	130	250	380	670	
	7/28/2006	178.13	6.21	0	171.92	--	--	4,700	--	160	240	510	730	

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	10/27/2006	178.13	6.93	0	171.20	--	--	3,700	--	150	160	460	530	
	1/10/2007	178.13	5.93	0	172.20	--	--	4,800	--	180	160	550	600	
	4/13/2007	178.13	6.10	0	172.03	--	--	5,100	--	180	240	550	710	
	7/19/2007	178.13	6.51	0	171.62	--	--	2,000	--	110	64	220	190	
	10/8/2007	178.13	7.05	0	171.08	--	--	2,100	--	72	65	180	290	
	1/9/2008	178.13	3.65	0	174.48	--	--	4,200	--	200	160	510	580	Gauged on 1/18/2008
	4/4/2008	178.13	5.69	0	172.44	--	--	7,500	--	270	390	810	1,200	
	7/3/2008	178.13	7.28	0	170.85	--	--	2,300	--	99	66	210	220	
	10/3/2008	178.13	8.40	0	169.73	--	1,200	12,000	--	740	620	1,500	2,700	
	1/22/2009	178.13	7.68	0	170.45	--	270	2,000	--	120	79	290	290	
	4/13/2009	178.13	6.28	0	171.85	--	150	3,600	--	110	150	180	510	
	7/23/2009	178.13	7.20	0	170.93	--	310	3,400	--	180	150	360	650	
	2/1/2010	178.13	5.29	0	172.84	--	390	6,500	--	180	92	300	250	
	8/2/2010	178.13	6.83	0	171.30	--	540	8,600	--	140	110	320	1,000	
	8/24/2010	DESTROYED												
MW-3B	11/1/2010	177.77	6.82	0	170.95	--	58	990	--	31	32	47	50	
	1/31/2011	177.77	5.30	0	172.47	--	65	2,800	--	32	20	39	47	
	4/26/2011	177.77	4.64	0	173.13	--	93	2,800	--	36	55	80	82	
	7/25/2011	177.77	5.53	0	172.24	--	100	1,700	--	28	33	80	73	
	10/7/2011	177.77	6.08	0	171.69	--	81	1,700	--	32	20	88	47	
	1/23/2012	177.77	6.90	0	170.87	--	120	1,800	--	39	17	75	20	
	4/6/2012	177.77	4.23	0	173.54	--	ND<40	1,200	--	36	25	80	41	
	7/24/2012	177.77	6.42	0	171.35	--	190	1,500	--	66	10	76	39	
	2/8/2013	177.77	5.60	0	172.17	--	ND<40	4,400	--	170	93	450	150	
	7/10/2013	177.77	6.71	0	171.06	--	350	2,800	--	190	60	530	82	
	1/16/2014	177.77	7.63	0	170.14	5,300	40	3,800	--	190	71	380	210	
	7/22/2014	177.77	6.89	0	170.88	--	370	8,600	--	190	120	670	190	
	1/27/2015	177.77	5.00	0	172.77	--	94	6,400	--	240	84	480	140	
	7/21/2015	177.77	7.28	0	170.49	--	280	4,200	--	210	100	570	220	
	1/20/2016	**177.77**	**5.18**	**0**	**172.59**	**--**	**240**	**4,700**	**--**	**160**	**52**	**230**	**80**	
MW-4	7/20/1999	179.10	7.40	--	171.70	--	--	69	--	2.7	0.77	ND	7.1	
	9/28/1999	179.10	7.19	0	171.91	--	--	4,050	--	1,250	72	51.3	133	
	1/7/2000	179.10	8.98	0	170.12	--	--	7,010	--	2,260	167	271	276	
	3/31/2000	179.10	7.26	0	171.84	--	--	5,500	--	1,800	230	330	400	
	7/14/2000	179.10	7.67	0	171.43	--	--	7,940	--	2,810	332	450	247	
	10/3/2000	179.10	8.12	0	170.98	--	--	11,400	--	3,110	437	519	816	

Table 5
Historical Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

Well ID	Date Sampled	TOC* (ft)	DTW (ft)	LNAPL Thickness (ft)	GWE* (ft)	Oil and Grease (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	1/3/2001	179.10	9.10	0	170.00	--	--	8,600	--	2,500	340	480	960	
	4/4/2001	179.10	8.63	0	170.47	--	--	9,950	--	2,380	126	416	725	
	7/17/2001	179.10	6.49	0	172.61	--	--	10,000	--	2,300	110	410	800	
	10/3/2001	178.96	7.01	0	171.95	--	--	7,800	--	2,100	85	380	390	
	1/28/2002	178.96	6.21	0	172.75	--	--	12,000	--	2,100	130	350	670	
	4/25/2002	178.96	5.49	0	173.47	--	--	3,300	--	1,300	42	270	250	
	7/18/2002	178.96	8.28	0	170.68	--	--	4,800	--	1,300	71	290	220	
	10/7/2002	178.96	7.49	0	171.47	--	--	5,100	--	1,400	110	330	380	
	1/6/2003	178.96	6.36	0	172.60	--	--	5,600	--	1,100	57	260	320	
	4/7/2003	178.96	6.24	0	172.72	--	--	5,100	--	1,100	55	190	370	
	7/7/2003	178.96	6.43	0	172.53	--	--	3,000	--	920	28	170	330	
	10/9/2003	178.96	7.97	0	170.99	--	--	530	700	100	2.2	5.4	14	Sampled for TPH-GRO by 8015M on 11/14/2003
	1/14/2004	178.96	6.30	0	172.66	--	--	530	--	88	4.1	9.9	11	
	4/28/2004	178.96	5.68	0	173.28	--	--	1,200	--	200	5.3	21	13	
	7/12/2004	178.96	6.48	0	172.48	--	--	3,600	--	1,000	14	260	72	
	10/25/2004	178.96	6.85	0	172.11	--	--	490	--	34	ND<2.5	ND<2.5	ND<2.5	
	1/17/2005	178.96	4.56	0	174.40	--	--	620	--	100	2.6	15	8.0	
	4/6/2005	178.96	2.90	0	176.06	--	--	630	--	81	9.6	16	41	
	7/8/2005	178.96	3.74	0	175.22	--	--	980	--	170	24	44	140	
	10/7/2005	178.96	4.24	0	174.72	--	--	4,900	--	1,100	11	110	110	
	1/27/2006	178.96	3.65	0	175.31	--	--	2,800	--	580	20	130	230	
	4/28/2006	178.96	3.94	0	175.02	--	--	710	--	110	2.4	21	22	
	7/28/2006	178.96	4.63	0	174.33	--	--	550	--	120	2.1	12	19	
	10/27/2006	178.96	5.19	0	173.77	--	--	260	--	37	2.0	1.9	6.7	
	1/10/2007	178.96	4.82	0	174.14	--	--	270	--	29	0.72	1.8	2.7	
	4/13/2007	178.96	4.25	0	174.71	--	--	390	--	53	1.2	3.1	4.1	
	7/19/2007	178.96	5.35	0	173.61	--	--	210	--	8.0	1.0	1.4	4.5	
	10/8/2007	178.96	5.48	0	173.48	--	--	290	--	17	2.3	3.8	14	
	1/9/2008	178.96	3.40	0	175.56	--	--	770	--	190	5.9	21	40	Gauged on 1/18/2008
	4/4/2008	178.96	4.20	0	174.76	--	--	180	--	11	2.0	0.67	2.9	
	7/3/2008	178.96	5.89	0	173.07	--	--	140	--	4.5	1.3	ND<0.30	ND<0.60	
	10/3/2008	178.96	7.34	0	171.62	--	96	430	--	29	3.4	9.6	20	
	1/22/2009	178.96	6.75	0	172.21	--	ND<50	190	--	25	1.7	0.87	1.5	
	4/13/2009	178.96	4.74	0	174.22	--	110	290	--	17	2.1	4.4	12	
	7/23/2009	178.96	6.01	0	172.95	--	85	360	--	33	2.3	5.4	18	
	2/1/2010	178.96	6.42	0	172.54	--	80	490	--	35	3.1	2.7	5.5	
	8/2/2010	178.96	5.92	0	173.04	--	120	470	--	17	3.4	2.5	12	
	8/24/2010	DESTROYED												

Table 5
Historical Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

Well ID	Date Sampled	TOC* (ft)	DTW (ft)	LNAPL Thickness (ft)	GWE* (ft)	Oil and Grease (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
MW-4B	11/1/2010	179.07	7.20	0	171.87	--	ND<50	230	--	ND<0.30	2.1	1.3	43	
	1/31/2011	179.07	4.49	0	174.58	--	ND<50	68	--	ND<0.30	ND<0.30	ND<0.30	2.0	
	4/26/2011	179.07	4.32	0	174.75	--	ND<50	52	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/25/2011	179.07	5.52	0	173.55	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	10/7/2011	179.07	6.04	0	173.03	--	ND<40	ND<50	--	ND<0.30	0.46	ND<0.30	ND<0.60	
	1/23/2012	179.07	6.58	0	172.49	--	ND<40	ND<50	--	ND<0.30	0.36	0.87	ND<0.60	
	4/6/2012	179.07	4.41	0	174.66	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/24/2012	179.07	6.20	0	172.87	--	ND<40	75	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	2/8/2013	179.07	5.37	0	173.70	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/10/2013	179.07	6.52	0	172.55	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/16/2014	179.07	7.55	0	171.52	ND<5,000	ND<40	ND<50	--	0.32	ND<0.30	ND<0.30	ND<0.60	
	7/22/2014	179.07	6.80	0	172.27	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/27/2015	179.07	5.83	0	173.24	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/21/2015	179.07	7.26	0	171.81	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/20/2016	**179.07**	**5.14**	**0**	**173.93**	**--**	**ND<40**	**ND<50**	**--**	**ND<0.30**	**ND<0.30**	**ND<0.30**	**ND<0.60**	
MW-5	10/3/2001	169.18	2.81	0	166.37	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	1/28/2002	169.18	1.88	0	167.30	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	4/25/2002	169.18	1.99	0	167.19	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	7/18/2002	169.18	2.49	0	166.69	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	10/7/2002	169.18	2.80	0	166.38	--	--	140	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	1/6/2003	169.18	1.86	0	167.32	--	ND<50	120	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	4/7/2003	169.18	2.15	0	167.03	--	--	220	--	0.53	ND<0.50	ND<0.50	ND<0.50	
	7/7/2003	169.18	2.26	0	166.92	--	--	120	--	ND<1.2	ND<1.2	ND<1.2	ND<1.2	
	10/9/2003	169.18	2.72	0	166.46	--	--	560	210	ND<1.0	ND<1.0	ND<1.0	ND<2.0	Sampled for TPH-GRO by 8015M on 11/14/2003
	1/14/2004	169.18	2.00	0	167.18	--	--	560	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	
	4/28/2004	169.18	2.01	0	167.17	--	--	760	--	ND<0.3	1.8	ND<0.3	ND<0.6	
	7/12/2004	169.18	2.56	0	166.62	--	--	96	--	1.8	3.3	0.54	3.6	
	10/25/2004	169.18	2.43	0	166.75	--	--	1,100	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	1/17/2005	169.18	1.49	0	167.69	--	--	720	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	4/6/2005	169.18	0.95	0	168.23	--	--	830	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	7/8/2005	169.18	1.49	0	167.69	--	--	ND<500	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	10/7/2005	169.18	1.92	0	167.26	--	--	540	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/27/2006	169.18	2.03	0	167.15	--	--	490	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/28/2006	169.18	1.02	0	168.16	--	--	430	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/28/2006	169.18	1.57	0	167.61	--	--	480	--	0.34	ND<0.30	ND<0.30	ND<0.60	
	10/27/2006	169.18	2.20	0	166.98	--	--	420	--	0.34	ND<0.30	ND<0.30	ND<0.60	

Table 5
Historical Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

Well ID	Date Sampled	TOC* (ft)	DTW (ft)	LNAPL Thickness (ft)	GWE* (ft)	Oil and Grease (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	1/10/2007	169.18	1.57	0	167.61	--	--	390	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/13/2007	169.18	1.89	0	167.29	--	--	170	--	3.8	5.9	1.5	3.8	
	7/19/2007	169.18	1.92	0	167.26	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	10/8/2007	169.18	2.28	0	166.90	--	--	200	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/9/2008	169.18	1.09	0	168.09	--	--	150	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	Gauged on 1/18/2008
	4/4/2008	169.18	1.72	0	167.46	--	--	210	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/3/2008	169.18	2.27	0	166.91	--	--	260	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	10/3/2008	169.18	2.80	0	166.38	--	60	200	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/22/2009	169.18	2.45	0	166.73	--	ND<50	130	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/13/2009	169.18	1.81	0	167.37	--	ND<50	190	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/23/2009	169.18	2.33	0	166.85	--	ND<50	210	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	2/1/2010	169.18	1.32	0	167.86	--	ND<50	170	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	8/2/2010	169.18	2.20	0	166.98	--	ND<50	64	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	11/1/2010	169.18	3.92	0	165.26	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
	1/31/2011	169.18	1.63	0	167.55	--	ND<50	160	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/26/2011	169.18	1.32	0	167.86	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
	7/25/2011	169.18	1.79	0	167.39	--	ND<40	140	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	10/7/2011	169.18	2.18	0	167.00	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
	1/23/2012	169.18	1.98	0	167.20	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/6/2012	169.18	1.18	0	168.00	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
	7/24/2012	169.18	1.90	0	167.28	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	2/8/2013	169.18	1.88	0	167.30	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/10/2013	169.18	2.32	0	166.86	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/16/2014	169.18	2.82	0	166.36	ND<5,000	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/22/2014	169.18	3.13	0	166.05	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/27/2015	169.18	1.96	`	167.22	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/21/2015	169.18	2.58	0	166.60	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/20/2016	**169.18**	**1.42**	**0**	**167.76**	**--**	**ND<40**	**ND<50**	**--**	**ND<0.30**	**ND<0.30**	**ND<0.30**	**ND<0.60**	
MW-6	10/3/2001	169.04	2.87	0	166.17	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	1/28/2002	169.04	1.82	0	167.22	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	4/25/2002	169.04	2.01	0	167.03	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	7/18/2002	169.04	2.44	0	166.60	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	10/7/2002	169.04	2.72	0	166.32	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	1/6/2003	169.04	1.90	0	167.14	--	--	ND<50	--	0.62	1.2	1.2	3.5	
	4/7/2003	169.04	2.02	0	167.02	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	7/7/2003	169.04	2.21	0	166.83	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	10/9/2003	169.04	2.71	0	166.33	--	--	ND<50	ND<50	0.95	3.0	1.4	5.5	Sampled for TPH-GRO by 8015M on 11/14/2003

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Well ID	Date Sampled	TOC* (ft)	DTW (ft)	LNAPL Thickness (ft)	GWE* (ft)	Oil and Grease (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	1/14/2004	169.04	2.00	0	167.04	--	--	ND<50	--	ND<0.50	0.57	ND<0.50	0.64	
	4/28/2004	169.04	2.18	0	166.86	--	--	ND<50	--	0.39	0.78	ND<0.3	ND<0.6	
	7/12/2004	169.04	2.69	0	166.35	--	--	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.6	
	10/25/2004	169.04	2.46	0	166.58	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	1/17/2005	169.04	1.54	0	167.50	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	4/6/2005	169.04	1.15	0	167.89	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	7/8/2005	169.04	1.05	0	167.99	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	10/7/2005	169.04	1.90	0	167.14	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/27/2006	169.04	1.32	0	167.72	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/28/2006	169.04	0.00	0	169.04	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/28/2006	169.04	1.68	0	167.36	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	10/27/2006	169.04	1.98	0	167.06	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/10/2007	169.04	1.60	0	167.44	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/13/2007	169.04	2.01	0	167.03	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/19/2007	169.04	1.96	0	167.08	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	10/8/2007	169.04	2.35	0	166.69	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/9/2008	169.04	1.10	0	167.94	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	Gauged on 1/18/2008
	4/4/2008	169.04	1.60	0	167.44	--	--	ND<50	--	ND<0.30	0.40	ND<0.30	0.71	
	7/3/2008	169.04	2.19	0	166.85	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	10/3/2008	169.04	2.78	0	166.26	--	ND<50	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/22/2009	169.04	2.35	0	166.69	--	ND<50	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/13/2009	169.04	1.81	0	167.23	--	ND<50	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/23/2009	169.04	--	--	--	--	--	--	--	--	--	--	--	Paved over
	2/1/2010	169.04	--	--	--	--	--	--	--	--	--	--	--	Paved over
	8/2/2010	169.04	--	--	--	--	--	--	--	--	--	--	--	Paved over
	8/24/2010	DESTROYED												
MW-7	10/3/2001	171.64	7.62	0	164.02	--	--	10,000	--	210	ND<50	ND<50	800	
	1/28/2002	171.64	7.21	0	164.43	--	--	ND<1,000	--	ND<10	ND<10	ND<10	ND<10	
	4/25/2002	171.64	7.25	0	164.39	--	--	ND<5,000	--	660	ND<50	ND<50	ND<50	
	7/18/2002	171.64	8.12	0	163.52	--	--	ND<5,000	--	130	ND<50	ND<50	ND<50	
	10/7/2002	171.64	7.71	0	163.93	--	--	18,000	--	ND<50	ND<50	ND<50	ND<50	
	1/6/2003	171.64	7.63	0	164.01	--	ND<50	410	--	0.61	1.0	0.89	2.9	
	4/7/2003	171.64	7.58	0	164.06	--	--	13,000	--	ND<20	ND<20	ND<20	ND<20	
	7/7/2003	171.64	7.56	0	164.08	--	--	990	--	8.2	ND<0.50	1.2	ND<0.50	
	10/9/2003	171.64	7.72	0	163.92	--	--	6,800	ND<13,000	ND<130	ND<130	ND<130	ND<250	Sampled for TPH-GRO by 8015M on 11/14/2003
	1/14/2004	171.64	6.97	0	164.67	--	--	19,000	--	ND<100	ND<100	ND<100	ND<100	
	4/28/2004	171.64	8.70	0	162.94	--	--	19,000	--	ND<3	ND<3	ND<3	ND<6	

Table 5
Historical Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

Well ID	Date Sampled	TOC* (ft)	DTW (ft)	LNAPL Thickness (ft)	GWE* (ft)	Oil and Grease (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	7/12/2004	171.64	9.44	0	162.20	--	--	12,000	--	28	14	330	200	
	10/25/2004	171.64	7.23	0	164.41	--	--	28,000	--	ND<250	ND<250	ND<250	ND<250	
	1/17/2005	171.64	6.30	0	165.34	--	--	15,000	--	ND<100	ND<100	ND<100	ND<100	
	4/6/2005	171.64	5.96	0	165.68	--	--	13,000	--	ND<100	ND<100	ND<100	ND<100	
	7/8/2005	171.64	6.45	0	165.19	--	--	ND<10,000	--	ND<100	ND<100	ND<100	ND<100	
	10/7/2005	171.64	6.78	0	164.86	--	--	13,000	--	ND<3.0	ND<3.0	ND<3.0	ND<6.0	
	1/27/2006	171.64	5.82	0	165.82	--	--	8,200	--	0.64	1.6	ND<0.30	ND<0.60	
	4/28/2006	171.64	5.57	0	166.07	--	--	6,900	--	0.88	1.5	0.34	1.0	
	7/28/2006	171.64	6.67	0	164.97	--	--	5,400	--	5.2	ND<3.0	ND<3.0	ND<6.0	
	10/27/2006	171.64	6.93	0	164.71	--	--	4,500	--	ND<1.5	ND<1.5	ND<1.5	ND<3.0	
	1/10/2007	171.64	6.41	0	165.23	--	12,000	4,000	--	ND<1.2	ND<1.2	ND<1.2	ND<2.4	
	4/13/2007	171.64	--	--	--	--	--	--	--	--	--	--	--	Paved over
	7/19/2007	171.64	7.10	0	164.54	--	--	2,700	--	0.57	ND<0.30	ND<0.30	ND<0.60	
	10/8/2007	171.64	7.42	0	164.22	--	--	1,600	--	0.47	0.49	ND<0.30	ND<0.60	
	1/9/2008	171.64	5.98	0	165.66	--	--	1,500	--	0.45	0.49	ND<0.30	ND<0.60	Gauged on 1/18/2008
	4/4/2008	171.64	6.80	0	164.84	--	--	1,800	--	0.72	0.58	ND<0.30	ND<0.60	
	7/3/2008	171.64	7.31	0	164.33	--	--	1,600	--	0.45	ND<0.30	ND<0.30	ND<0.60	
	10/3/2008	171.64	7.79	0	163.85	--	ND<50	1,300	--	0.53	0.59	ND<0.30	ND<0.60	
	1/22/2009	171.64	7.26	0	164.38	--	ND<50	890	--	0.43	0.49	ND<0.30	ND<0.60	
	4/13/2009	171.64	6.83	0	164.81	--	ND<50	1,100	--	0.46	0.30	ND<0.30	ND<0.60	
	7/23/2009	171.64	7.32	0	164.32	--	ND<50	920	--	ND<0.30	0.73	ND<0.30	ND<0.60	
	2/1/2010	171.64	6.21	0	165.43	--	53	1,000	--	5.6	4.0	1.2	2.0	
	8/2/2010	171.64	7.08	0	164.56	--	ND<50	880	--	ND<0.30	0.62	ND<0.30	ND<0.60	
	11/1/2010	172.11	6.97	0	165.14	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
	1/31/2011	172.11	6.58	0	165.53	--	ND<50	730	--	0.31	0.59	ND<0.30	ND<0.60	
	4/26/2011	172.11	5.21	0	166.90	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
	7/25/2011	172.11	6.89	0	165.22	--	ND<40	610	--	2.5	ND<0.30	ND<0.30	ND<0.60	
	10/7/2011	172.11	7.15	0	164.96	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
	1/23/2012	172.11	6.92	0	165.19	--	ND<40	300	--	ND<0.30	0.55	ND<0.30	ND<0.60	
	4/6/2012	172.11	6.01	0	166.10	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
	7/24/2012	172.11	7.25	0	164.86	--	ND<40	270	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	2/8/2013	172.11	6.90	0	165.21	--	ND<40	240	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/10/2013	172.11	7.36	0	164.75	--	ND<40	340	--	0.75	ND<0.30	0.46	0.69	
	1/16/2014	172.11	7.86	0	164.25	ND<5,000	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/22/2014	172.11	7.40	0	164.71	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/27/2015	172.11	6.93	0	165.18	--	ND<40	150	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/21/2015	172.11	7.48	0	164.63	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/20/2016	**172.11**	**6.48**	**0**	**165.63**	**--**	**ND<40**	**130**	**--**	**ND<0.30**	**ND<0.30**	**ND<0.30**	**ND<0.60**	

Table 5
Historical Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

Well ID	Date Sampled	TOC* (ft)	DTW (ft)	LNAPL Thickness (ft)	GWE* (ft)	Oil and Grease (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
MW-8	1/18/2008	167.97	0.43	0	167.54	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/4/2008	167.97	0.55	0	167.42	--	--	ND<50	--	0.76	1.6	0.72	2.3	
	7/3/2008	167.97	0.91	0	167.06	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	10/3/2008	167.97	1.71	0	166.26	--	ND<50	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/22/2009	167.97	1.59	0	166.38	--	64	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/13/2009	167.97	0.08	0	167.89	--	ND<50	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/23/2009	167.97	1.10	0	166.87	--	ND<50	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	2/1/2010	167.97	0.65	0	167.32	--	ND<50	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	8/2/2010	167.97	--	--	--	--	--	--	--	--	--	--	--	Paved over
	8/24/2010	DESTROYED												
MW-9A	7/10/2013	173.01	5.88	0	167.13	--	220	4,600	--	1,100	14	220	140	
	1/16/2014	173.01	6.24	0	166.77	ND<5,000	200	4,600	--	820	ND<6.0	180	ND<12	
	7/22/2014	173.01	8.65	0	164.36	--	250	6,400	--	1,100	12	380	12	
	1/27/2015	173.01	8.24	0	164.77	--	250	7,900	--	2,500	16	340	23	
	7/21/2015	173.01	5.87	0	167.14	--	170	7,100	--	2,700	22	190	23	
	1/20/2016	**173.01**	**8.47**	**0**	**164.54**	**--**	**360**	**7,700**	**--**	**2,400**	**17**	**53**	**14**	
MW-9B	7/10/2013	172.78	5.87	0	166.91	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/16/2014	172.78	6.57	0	166.21	ND<5,000	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/22/2014	172.78	5.94	0	166.84	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/27/2015	172.78	5.38	0	167.40	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/21/2015	172.78	6.01	0	166.77	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/20/2016	**172.78**	**4.72**	**0**	**168.06**	**--**	**ND<40**	**ND<50**	**--**	**ND<0.30**	**ND<0.30**	**ND<0.30**	**ND<0.60**	
MW-10A	7/10/2013	174.48	7.15	0	167.33	--	1,300	23,000	--	6,600	76	750	1,900	
	1/16/2014	174.48	9.41	0	165.07	ND<5,000	710	25,000	--	6,600	120	850	830	
	7/22/2014	174.48	10.61	0	163.87	--	800	27,000	--	6,300	120	900	1,000	
	1/27/2015	174.48	10.82	0	163.66	--	800	28,000	--	9,800	190	1,200	1,200	
	7/21/2015	174.48	7.32	0	167.16	--	530	22,000	--	15,000	190	1,000	960	
	1/20/2016	**174.48**	**8.63**	**0**	**165.85**	**--**	**990**	**30,000**	**--**	**9,100**	**200**	**960**	**1,000**	
MW-10B	7/10/2013	174.62	7.65	0	166.97	--	170	4,100	--	1,100	34	130	140	
	1/16/2014	174.62	8.33	0	166.29	ND<5,000	360	5,500	--	1,200	69	190	160	
	7/22/2014	174.62	7.76	0	166.86	--	120	2,400	--	570	19	68	54	
	1/27/2015	174.62	7.18	0	167.44	--	250	7,500	--	2,000	80	290	290	

Table 5
Historical Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

Well ID	Date Sampled	TOC* (ft)	DTW (ft)	LNAPL Thickness (ft)	GWE* (ft)	Oil and Grease (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	7/21/2015	174.62	7.58	0	167.04	--	46	2,600	--	780	27	100	130	
	1/20/2016	**174.62**	**6.43**	**0**	**168.19**	**--**	**300**	**7,800**	**--**	**1,600**	**60**	**240**	**270**	
MW-10S	7/22/2014	175.57	10.02	0	165.55	--	--	--	--	--	--	--	--	Insufficient water to sample
	1/27/2015	175.57	7.82	0	167.75	ND<5,000	ND<40	110	--	3.1	ND<0.30	1.8	ND<0.60	
	7/21/2015	175.57	5.92	0	169.65	ND<5,000	ND<40	ND<50	--	1.6	ND<0.30	6.2	ND<0.60	
	1/20/2016	**175.57**	**6.13**	**0**	**169.44**	**ND<5,000**	**ND<40**	**200**	**--**	**5.6**	**ND<0.30**	**15**	**ND<0.60**	
MW-11A	7/10/2013	175.37	6.02	0	169.35	--	730	45,000	--	8,600	5,900	940	7,600	
	1/16/2014	175.37	6.08	0	169.29	ND<5,000	480	45,000	--	7,000	4,000	660	6,300	
	7/22/2014	175.37	6.22	0	169.15	--	1,600	49,000	--	6,600	3,300	1,100	7,100	
	1/27/2015	175.37	4.61	0	170.76	--	500	73,000	--	10,000	6,500	1,600	11,000	
	7/21/2015	175.37	5.39	0	169.98	--	700	56,000	--	11,000	6,900	1,800	12,000	
	1/20/2016	**175.37**	**4.28**	**0**	**171.09**	**--**	**930**	**68,000**	**--**	**10,000**	**5,500**	**1,500**	**11,000**	
MW-11B	7/10/2013	174.65	5.07	0	169.58	--	ND<40	3,800	--	1,300	52	41	300	
	1/16/2014	174.65	5.97	0	168.68	ND<5,000	120	19,000	--	5,700	240	330	470	
	7/22/2014	174.65	5.35	0	169.30	--	260	12,000	--	3,400	64	210	59	
	1/27/2015	174.65	5.78	0	168.87	--	170	17,000	--	4,200	190	310	330	
	7/21/2015	174.65	5.37	0	169.28	--	430	23,000	--	10,000	770	960	1,200	
	1/20/2016	**174.65**	**7.71**	**0**	**166.94**	**--**	**780**	**35,000**	**--**	**9,400**	**1,600**	**880**	**2,300**	
MW-11S	7/22/2014	176.09	6.05	0	170.04	ND<5,000	2,400	40,000	--	4,200	3,000	690	7,100	
	1/27/2015	176.09	4.69	0	171.40	ND<5,000	210	3,300	--	230	16	64	100	
	7/21/2015	176.09	6.13	0	169.96	ND<5,000	280	5,100	--	670	18	420	240	
	1/20/2016	**176.09**	**3.23**	**0**	**172.86**	**--**	**ND<40**	**270**	**--**	**2.6**	**0.47**	**1.4**	**0.86**	

Notes:

* TOC and GWE are in feet above mean sea level
µg/L = Micrograms per liter
-- = Not available/not sampled
B = Benzene
DTW = Depth to water below TOC
E = Ethylbenzene
ft = Feet
GC/MS = Gas chromatography/mass spectrometery
GWE = Groundwater elevation
ID = Identification
LNAPL = Light non-aqueous phase liquid
ND<# = Analyte not detected at or above indicated practical quantitation limit
Q1 = 1st quarter
QA = Trip blank
T = Toluene
TOC = Top of casing
TPH-DRO W/SGC = Total petroleum hydrocarbons-diesel range organics with silica gel cleanup
TPH-GRO = Total petroleum hydrocarbons-gasoline range organics
X = Total xylenes

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	Date	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	Ethanol 8260B (µg/L)	Ethanol 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-1	7/20/1999	ND	--	--	--	--	--	--	--	--	--	--
	9/28/1999	321	333	ND	--	--	--	--	--	ND	ND	ND
	1/7/2000	ND	--	--	--	--	--	--	--	--	--	--
	3/31/2000	ND	--	--	--	--	--	--	--	--	--	--
	7/14/2000	ND	--	--	--	--	--	--	--	--	--	--
	10/3/2000	ND	--	--	--	--	--	--	--	--	--	--
	1/3/2001	2,200	--	--	--	--	--	--	--	--	--	--
	4/4/2001	ND	481	ND	--	ND	ND	--	ND	ND	ND	ND
	7/17/2001	ND	230	ND	--	ND	ND	--	ND	ND	ND	ND
	10/3/2001	ND<2,500	--	--	--	--	--	--	--	--	--	--
	10/5/2001	--	--	--	--	--	--	--	--	--	--	--
	1/28/2002	3,000	440	--	--	--	--	--	--	--	--	--
	4/25/2002	810	670	--	--	--	--	--	--	--	--	--
	7/18/2002	ND<500	620	ND<100	--	ND<2,500,000	ND<10	--	ND<10	ND<10	ND<10	ND<10
	10/7/2002	1,300	760	ND<10,000	--	ND<50,000,000	ND<200	--	ND<200	ND<200	ND<200	ND<200
	1/6/2003	ND<1,000	790	ND<20,000	--	ND<100,000,000	ND<400	--	ND<400	ND<400	ND<400	ND<400
	4/7/2003	1,000	800	ND<10,000	--	ND<50,000,000	ND<200	--	ND<200	ND<200	ND<200	ND<200
	7/7/2003	600	530	ND<25,000	ND<120,000	--	ND<500	--	ND<500	ND<500	ND<500	ND<500
	10/9/2003	--	660	ND<2,0000	--	ND<100,000	ND<400	--	ND<400	ND<400	ND<400	ND<400
	1/14/2004	ND<1,300	ND<800	ND<40,000	--	ND<200,000	ND<800	--	ND<800	ND<800	ND<800	ND<800
	4/28/2004	1,400	560	800	--	ND<1,000	ND<50	--	ND<50	ND<1	ND<1	ND<1
	7/12/2004	490	440	1,100	--	ND<20,000	ND<10	--	ND<10	ND<20	ND<20	ND<20
	10/25/2004	ND<1,300	330	ND<2,000	--	ND<20,000	ND<200	--	ND<200	ND<400	ND<200	ND<200
	1/17/2005	ND<1,300	570	3,100	--	ND<20,000	ND<200	--	ND<200	ND<400	ND<200	ND<200
	4/6/2005	ND<1,300	580	1,500	--	ND<10,000	ND<100	--	ND<100	ND<100	ND<100	ND<100
	7/8/2005	ND<1,300	290	ND<1,300	--	ND<13,000	ND<130	--	3.8	ND<130	ND<130	ND<130
	10/7/2005	330	250	680	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/27/2006	450	360	ND<500	--	ND<12,000	ND<25	--	ND<25	ND<25	ND<25	ND<25
	4/28/2006	460	280	ND<500	--	ND<12,000	ND<25	--	ND<25	ND<25	ND<25	ND<25
	7/28/2006	330	220	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/27/2006	280	250	ND<2,500	--	ND<62,000	ND<120	--	ND<120	ND<120	ND<120	ND<120
	1/10/2007	350	260	ND<1,000	--	ND<25,000	ND<50	--	ND<50	ND<50	ND<50	ND<50
	4/13/2007	270	220	730	--	ND<250	ND<0.50	--	0.68	ND<0.50	ND<0.50	ND<0.50

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	Date	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	Ethanol 8260B (µg/L)	Ethanol 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	7/19/2007	1,000	200	ND<1,000	--	ND<25,000	ND<50	--	ND<50	ND<50	ND<50	ND<50
	10/8/2007	--	--	--	--	--	--	--	--	--	--	--
	1/9/2008	840	170	ND<250	--	ND<6,200	ND<12	--	ND<12	ND<12	ND<12	ND<12
	4/4/2008	--	160	770	--	ND<5,000	ND<10	--	ND<10	ND<10	ND<10	ND<10
	7/3/2008	--	110	ND<250	--	ND<6,200	ND<12	--	ND<12	ND<12	ND<12	ND<12
	10/3/2008	--	180	ND<200	--	ND<5,000	ND<10	--	ND<10	ND<10	ND<10	ND<10
	1/22/2009	--	160	ND<500	--	ND<12,000	ND<25	--	ND<25	ND<25	ND<25	ND<25
	4/13/2009	--	150	280	--	ND<1,200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	7/23/2009	--	140	ND<2,000	--	ND<50,000	ND<100	--	ND<100	ND<100	ND<100	ND<100
	2/1/2010	--	ND<50	--	--	--	--	--	--	--	--	--
	8/2/2010	--	ND<10	--	--	--	ND<10	ND<10	ND<10	--	--	--
	8/24/2010	--	--	--	--	--	--	--	--	--	--	--
MW-1B	11/1/2010	--	30	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/31/2011	--	46	28	--	ND<250	ND<0.50	--	0.76	ND<0.50	ND<0.50	ND<0.50
	4/26/2011	--	44	33	--	ND<250	ND<0.50	--	0.82	ND<0.50	ND<0.50	ND<0.50
	7/25/2011	--	47	28	--	ND<250	ND<0.50	--	0.75	ND<0.50	ND<0.50	ND<0.50
	10/7/2011	--	41	30	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/23/2012	--	32	23	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/6/2012	--	55	18	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/24/2012	--	46	27	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/8/2013	--	28	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/10/2013	--	12	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/16/2014	--	42	ND<10	ND<250	--	ND<0.50	--	1.3	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	--	--	--	--	--	--	--	--	--	--
	1/27/2015	--	0.96	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	--	--	--	--	--	--	--	--	--	--
	1/20/2016	**--**	**14**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
MW-2	7/20/1999	4,500	11,000	--	--	--	--	--	--	--	--	--
	9/28/1999	5,280	6,150	ND	--	--	--	--	--	ND	ND	ND
	1/7/2000	33,100	--	--	--	--	--	--	--	--	--	--
	3/31/2000	17,000	--	--	--	--	--	--	--	--	--	--

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	Date	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	Ethanol 8260B (µg/L)	Ethanol 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	7/14/2000	66,500	--	--	--	--	--	--	--	--	--	--
	10/3/2000	57,500	--	--	--	--	--	--	--	--	--	--
	1/3/2001	49,000	--	--	--	--	--	--	--	--	--	--
	4/4/2001	38,700	37,800	ND	--	ND	ND	--	ND	ND	ND	ND
	7/17/2001	65,000	56,000	ND	--	ND	ND	--	ND	ND	ND	ND
	10/3/2001	14,000	18,000	--	--	--	--	--	--	--	--	--
	1/28/2002	11,000	10,000	--	--	--	--	--	--	--	--	--
	4/25/2002	8,400	8,100	--	--	--	--	--	--	--	--	--
	7/18/2002	4,300	8,800	ND<1,000	--	ND<25,000,000	ND<100	--	ND<100	ND<100	ND<100	ND<100
	10/7/2002	7,100	5,900	ND<20,000	--	ND<100,000,000	ND<400	--	ND<400	ND<400	ND<400	ND<400
	1/6/2003	31,000	35,000	ND<50,000	--	ND<250,000,000	ND<1,000	--	ND<1,000	ND<1,000	ND<1,000	ND<1,000
	4/7/2003	2,000	1,500	ND<2,000	--	ND<10,000,000	ND<40	--	ND<40	ND<40	ND<40	ND<40
	7/7/2003	5,500	8,300	ND<5,000	--	ND<25,000,000	ND<100	--	ND<100	ND<100	ND<100	ND<100
	10/9/2003	--	8,500	ND<10,000	--	ND<50,000	ND<200	--	ND<200	ND<200	ND<200	ND<200
	1/14/2004	2,600	3,200	ND<2,500	--	ND<13,000	ND<50	--	ND<50	ND<50	ND<50	ND<50
	4/28/2004	35,000	22,000	13,000	--	ND<1,000	ND<0.5	--	ND<0.5	ND<1	ND<1	11
	7/12/2004	3,000	3,000	110	--	ND<4,000	ND<3	--	ND<3	ND<5	ND<5	ND<5
	10/25/2004	1,800	1,600	1,100	--	ND<1,300	ND<13	--	ND<13	ND<25	ND<13	ND<13
	1/17/2005	1,600	1,500	1,200	--	ND<1,300	ND<13	--	ND<13	ND<25	ND<13	ND<13
	4/6/2005	2,500	3,200	2,800	--	ND<2,500	ND<25	--	ND<25	ND<25	ND<25	ND<25
	7/8/2005	2,900	3,100	4,300	--	ND<2,500	ND<25	--	ND<25	ND<25	ND<25	ND<25
	10/7/2005	5,900	5,200	8,700	--	ND<250	ND<0.50	--	1.4	ND<0.50	ND<0.50	ND<0.50
	1/27/2006	2,600	2,800	5,200	--	ND<12,000	ND<25	--	ND<25	ND<25	ND<25	ND<25
	4/28/2006	3,700	3,600	6,700	--	ND<250	ND<0.50	--	1.4	ND<0.50	ND<0.50	1.6
	7/28/2006	3,000	2,900	5,100	--	ND<6,200	ND<12	--	ND<12	ND<12	ND<12	ND<12
	10/27/2006	1,600	1,300	6,600	--	ND<1,200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	1/10/2007	2,300	2,000	6,000	--	ND<1,200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	4/13/2007	3,600	3,200	7,400	--	ND<6,200	ND<12	--	ND<12	ND<12	ND<12	ND<12
	7/19/2007	2,000	2,000	6,200	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	10/8/2007	5,000	4,000	20,000	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/9/2008	2,100	2,200	9,900	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/4/2008	--	2,100	5,800	--	ND<1,200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	7/3/2008	--	1,400	8,300	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	Date	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	Ethanol 8260B (µg/L)	Ethanol 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	10/3/2008	--	750	5,900	--	ND<1,200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	1/22/2009	--	850	7,400	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/13/2009	--	990	5,500	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	7/23/2009	--	390	5,000	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	2/1/2010	--	290	--	--	--	--	--	--	--	--	--
	8/2/2010	--	140	--	--	--	ND<1.0	ND<1.0	ND<1.0	--	--	--
	8/24/2010	--	--	--	--	--	--	--	--	--	--	--
MW-2B	11/1/2010	--	250	2,000	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/31/2011	--	310	1,300	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/26/2011	--	240	770	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/25/2011	--	170	1,100	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/7/2011	--	100	840	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/23/2012	--	95	370	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/6/2012	--	140	310	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/24/2012	--	53	270	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/8/2013	--	1.2	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/10/2013	--	0.86	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/16/2014	--	9.6	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	--	--	--	--	--	--	--	--	--	--
	1/27/2015	--	3.9	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	--	--	--	--	--	--	--	--	--	--
	1/20/2016	**--**	**3.8**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
MW-3	7/20/1999	330	--	--	--	--	--	--	--	--	--	--
	9/28/1999	443	288	ND	--	--	--	--	--	ND	ND	8.80
	1/7/2000	1,940	--	--	--	--	--	--	--	--	--	--
	3/31/2000	2,800	--	--	--	--	--	--	--	--	--	--
	7/14/2000	548	--	--	--	--	--	--	--	--	--	--
	10/3/2000	965	--	--	--	--	--	--	--	--	--	--
	1/3/2001	3,300	--	--	--	--	--	--	--	--	--	--
	4/4/2001	1,050	450	ND	--	ND	ND	--	ND	ND	ND	ND
	7/17/2001	ND	350	ND	--	ND	ND	--	ND	ND	ND	ND

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	Date	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	Ethanol 8260B (µg/L)	Ethanol 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	10/3/2001	ND<1000	--	--	--	--	--	--	--	--	--	--
	1/28/2002	3,200	210	--	--	--	--	--	--	--	--	--
	4/25/2002	500	260	--	--	--	--	--	--	--	--	--
	7/18/2002	ND<250	270	ND<50	--	ND<1,200,000	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	10/7/2002	ND<120	ND<200	ND<10,000	--	ND<50,000,000	ND<200	--	ND<200	ND<200	ND<200	ND<200
	1/6/2003	440	110	ND<4,000	--	23,000,000	ND<80	--	ND<80	ND<80	ND<80	ND<80
	4/7/2003	440	100	ND<4,000	--	ND<20,000,000	ND<80	--	ND<80	ND<80	ND<80	ND<80
	7/7/2003	280	100	ND<2,000	--	ND<10,000,000	ND<40	--	ND<40	ND<40	ND<40	ND<40
	10/9/2003	--	190	ND<1,000	--	ND<5,000	ND<20	--	ND<20	ND<20	ND<20	ND<20
	1/14/2004	190	230	ND<1,000	--	ND<5,000	ND<20	--	ND<20	ND<20	ND<20	ND<20
	4/28/2004	740	240	ND<12	--	ND<1,000	ND<3	--	ND<3	ND<1	ND<1	ND<1
	7/12/2004	180	100	350	--	ND<20,000	ND<10	--	ND<10	ND<20	ND<20	ND<20
	10/25/2004	94	260	39	--	ND<250	ND<2.5	--	ND<2.5	ND<5.0	ND<2.5	ND<2.5
	1/17/2005	55	200	120	--	ND<250	ND<2.5	--	ND<2.5	ND<5.0	ND<2.5	ND<2.5
	4/6/2005	ND<250	200	150	--	ND<1,000	ND<10	--	ND<10	ND<10	ND<10	ND<10
	7/8/2005	ND<250	150	64	--	ND<250	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	10/7/2005	260	180	ND<200	--	ND<5,000	ND<10	--	ND<10	ND<10	ND<10	ND<10
	1/27/2006	280	250	ND<10	--	ND<250	ND<0.50	--	1.5	ND<0.50	ND<0.50	ND<0.50
	4/28/2006	230	180	190	--	ND<250	ND<0.50	--	0.63	ND<0.50	ND<0.50	ND<0.50
	7/28/2006	250	150	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/27/2006	250	140	ND<10	--	ND<250	ND<0.50	--	1.3	ND<0.50	ND<0.50	ND<0.50
	1/10/2007	230	150	66	--	ND<250	ND<0.50	--	1.4	ND<0.50	ND<0.50	ND<0.50
	4/13/2007	230	160	ND<10	--	ND<250	ND<0.50	--	1.2	ND<0.50	ND<0.50	ND<0.50
	7/19/2007	190	180	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/8/2007	180	120	ND<20	--	ND<500	ND<1.0	--	1.1	ND<1.0	ND<1.0	ND<1.0
	1/9/2008	290	120	ND<20	--	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	4/4/2008	--	120	ND<50	--	ND<1,200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	7/3/2008	--	190	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/3/2008	--	71	ND<100	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/22/2009	--	130	ND<20	--	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	4/13/2009	--	120	ND<10	--	ND<250	ND<0.50	--	1.0	ND<0.50	ND<0.50	ND<0.50
	7/23/2009	--	120	ND<100	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	2/1/2010	--	97	--	--	--	--	--	--	--	--	--

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	Date	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	Ethanol 8260B (µg/L)	Ethanol 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	8/2/2010	--	89	--	--	--	ND<0.50	--	ND<0.50	--	--	--
	8/24/2010	--	--	--	--	--	--	--	--	--	--	--
MW-3B	11/1/2010	--	46	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/31/2011	--	73	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/26/2011	--	52	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/25/2011	--	62	47	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/7/2011	--	61	64	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/23/2012	--	56	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/6/2012	--	68	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/24/2012	--	54	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/8/2013	--	20	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/10/2013	--	14	ND<100	ND<2,500	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/16/2014	--	13	ND<10	ND<250	--	ND<5.0	--	1.2	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	8.8	ND<20	ND<500	--	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	1/27/2015	--	14	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	15
	7/21/2015	--	23	ND<100	ND<2,500	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/20/2016	**--**	**8.9**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
MW-4	7/20/1999	100	--	--	--	--	--	--	--	--	--	--
	9/28/1999	416	459	ND	--	--	--	--	--	ND	ND	ND
	1/7/2000	764	--	--	--	--	--	--	--	--	--	--
	3/31/2000	1,000	--	--	--	--	--	--	--	--	--	--
	7/14/2000	1,530	--	--	--	--	--	--	--	--	--	--
	10/3/2000	1,040	--	--	--	--	--	--	--	--	--	--
	1/3/2001	850	--	--	--	--	--	--	--	--	--	--
	4/4/2001	1,140	819	ND	--	ND	ND	--	ND	ND	ND	ND
	7/17/2001	1,200	900	ND	--	ND	ND	--	ND	ND	ND	ND
	10/3/2001	580	820	--	--	--	--	--	--	--	--	--
	1/28/2002	1,100	500	--	--	--	--	--	--	--	--	--
	4/25/2002	680	600	--	--	--	--	--	--	--	--	--
	7/18/2002	530	760	ND<100	--	ND<2,500,000	ND<10	--	49	ND<10	ND<10	ND<10
	10/7/2002	650	540	ND<10,000	--	ND<50,000,000	ND<200	--	ND<200	ND<200	ND<200	ND<200

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	Date	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	Ethanol 8260B (µg/L)	Ethanol 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	1/6/2003	370	520	ND<1,000	--	ND<5,000,000	ND<20	--	ND<20	ND<20	ND<20	ND<20
	4/7/2003	550	420	ND<1,000	--	ND<5,000,000	ND<20	--	ND<20	ND<20	ND<20	ND<20
	7/7/2003	480	450	ND<1,000	--	ND<5,000,000	ND<20	--	ND<20	ND<20	ND<20	ND<20
	10/9/2003	--	270	ND<200	--	ND<1,000	ND<4.0	--	ND<4.0	ND<4.0	ND<4.0	ND<4.0
	1/14/2004	150	180	ND<200	--	ND<1,000	ND<4.0	--	6.5	ND<4.0	ND<4.0	ND<4.0
	4/28/2004	490	310	150	--	ND<1,000	ND<0.5	--	ND<0.5	ND<1	ND<1	ND<1
	7/12/2004	710	470	210	--	ND<4,000	ND<3	--	14	ND<5	ND<5	ND<5
	10/25/2004	200	170	38	--	ND<100	ND<1.0	--	2.0	ND<2.0	ND<1.0	ND<1.0
	1/17/2005	240	200	110	--	ND<100	ND<1.0	--	3.6	ND<2.0	ND<1.0	ND<1.0
	4/6/2005	ND<25	26	ND<25	--	73,000	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	7/8/2005	ND<25	64	29	--	ND<50	ND<0.50	--	1.2	ND<0.50	ND<0.50	ND<0.50
	10/7/2005	370	310	210	--	ND<250	ND<0.50	--	26	ND<0.50	ND<0.50	ND<0.50
	1/27/2006	320	240	280	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	4/28/2006	140	140	130	--	ND<250	ND<0.50	--	0.97	ND<0.50	ND<0.50	ND<0.50
	7/28/2006	170	150	64	--	ND<250	ND<0.50	--	5.8	ND<0.50	ND<0.50	ND<0.50
	10/27/2006	130	130	54	--	ND<250	ND<0.50	--	1.5	ND<0.50	ND<0.50	ND<0.50
	1/10/2007	160	150	33	--	310	ND<0.50	--	1.9	ND<0.50	ND<0.50	ND<0.50
	4/13/2007	210	160	82	--	ND<250	ND<0.50	--	0.77	ND<0.50	ND<0.50	ND<0.50
	7/19/2007	120	130	13	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/8/2007	160	150	ND<20	--	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	1/9/2008	210	220	ND<20	--	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	4/4/2008	--	110	27	--	ND<250	ND<0.50	--	1.0	ND<0.50	ND<0.50	ND<0.50
	7/3/2008	--	100	27	--	ND<250	ND<0.50	--	1.4	ND<0.50	ND<0.50	ND<0.50
	10/3/2008	--	100	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/22/2009	--	96	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/13/2009	--	88	39	--	ND<250	ND<0.50	--	1.4	ND<0.50	ND<0.50	ND<0.50
	7/23/2009	--	92	42	--	ND<250	ND<0.50	--	1.5	ND<0.50	ND<0.50	ND<0.50
	2/1/2010	--	51	--	--	--	--	--	--	--	--	--
	8/2/2010	--	48	--	--	--	ND<0.50	ND<1.0	1.4	--	--	--
	8/24/2010	--	--	--	--	--	--	--	--	--	--	--
MW-4B	11/1/2010	--	20	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/31/2011	--	30	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	Date	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	Ethanol 8260B (µg/L)	Ethanol 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	4/26/2011	--	26	25	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/25/2011	--	28	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/7/2011	--	25	25	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/23/2012	--	17	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/6/2012	--	21	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/24/2012	--	24	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/8/2013	--	2.8	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/10/2013	--	0.64	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/16/2014	--	2.3	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	--	--	--	--	--	--	--	--	--	--
	1/27/2015	--	2.1	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/21/2015	--	--	--	--	--	--	--	--	--	--	--
	1/20/2016	**--**	**1.7**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
MW-5	10/3/2001	1,800	2,100	--	--	--	--	--	--	--	--	--
	1/28/2002	650	550	--	--	--	--	--	--	--	--	--
	4/25/2002	2,200	2,400	--	--	--	--	--	--	--	--	--
	7/18/2002	530	690	ND<20	--	ND<500,000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	10/7/2002	300	330	ND<100	--	ND<500,000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	1/6/2003	410	350	ND<100	--	ND<500,000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	4/7/2003	450	420	ND<500	--	ND<2,500,000	ND<10	--	ND<10	ND<10	ND<10	ND<10
	7/7/2003	220	200	ND<200	--	ND<1,000,000	ND<4.0	--	ND<4.0	ND<4.0	ND<4.0	ND<4.0
	10/9/2003	--	290	ND<200	--	ND<1,000	ND<4.0	--	ND<4.0	ND<4.0	ND<4.0	ND<4.0
	1/14/2004	670	760	ND<2,000	--	ND<10,000	ND<40	--	ND<40	ND<40	ND<40	ND<40
	4/28/2004	1,200	790	ND<12	--	ND<1,000	ND<0.5	--	1.8	ND<1	ND<1	ND<1
	7/12/2004	2.8	ND<0.5	ND<12	--	ND<800	ND<0.5	--	0.76	ND<1	ND<1	ND<1
	10/25/2004	780	1,100	ND<500	--	ND<5,000	ND<50	--	ND<50	ND<100	ND<50	ND<50
	1/17/2005	530	550	100	--	ND<250	ND<2.5	--	ND<2.5	ND<5.0	ND<2.5	ND<2.5
	4/6/2005	600	760	7.6	--	ND<50	ND<0.50	--	1.4	ND<0.50	ND<0.50	ND<0.50
	7/8/2005	570	630	180	--	ND<500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	10/7/2005	530	490	ND<10	--	ND<250	ND<0.50	--	1.0	ND<0.50	ND<0.50	ND<0.50
	1/27/2006	580	610	1,000	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	4/28/2006	590	520	130	--	ND<250	ND<0.50	--	0.95	ND<0.50	ND<0.50	ND<0.50

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	Date	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	Ethanol 8260B (µg/L)	Ethanol 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	7/28/2006	440	420	ND<100	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	10/27/2006	460	390	43	--	ND<250	ND<0.50	--	1.5	ND<0.50	ND<0.50	ND<0.50
	1/10/2007	430	420	28	--	ND<250	ND<0.50	--	1.7	ND<0.50	ND<0.50	ND<0.50
	4/13/2007	160	120	ND<10	--	ND<250	ND<0.50	--	0.84	ND<0.50	ND<0.50	ND<0.50
	7/19/2007	19	23	ND<10	--	ND<250	ND<0.50	--	ND<5.0	ND<0.50	ND<0.50	ND<0.50
	10/8/2007	310	280	ND<10	--	ND<250	ND<0.50	--	1.3	ND<0.50	ND<0.50	ND<0.50
	1/9/2008	170	170	ND<10	--	ND<250	ND<0.50	--	1.2	ND<0.50	ND<0.50	ND<0.50
	4/4/2008	--	260	ND<10	--	ND<250	ND<0.50	--	1.4	ND<0.50	ND<0.50	ND<0.50
	7/3/2008	--	360	ND<10	--	ND<250	ND<0.50	--	1.5	ND<0.50	ND<0.50	ND<0.50
	10/3/2008	--	240	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/22/2009	--	170	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/13/2009	--	190	ND<10	--	ND<250	ND<0.50	--	1.2	ND<0.50	ND<0.50	ND<0.50
	7/23/2009	--	210	ND<10	--	ND<250	ND<0.50	--	1.8	ND<0.50	ND<0.50	ND<0.50
	2/1/2010	--	120	--	--	--	--	--	--	--	--	--
	8/2/2010	--	42	--	--	--	ND<0.50	--	ND<0.50	--	--	--
	11/1/2010	--	--	--	--	--	--	--	--	--	--	--
	1/31/2011	--	130	ND<10	--	ND<250	ND<0.50	--	1.6	ND<0.50	ND<0.50	ND<0.50
	4/26/2011	--	--	--	--	--	--	--	--	--	--	--
	7/25/2011	--	130	ND<10	--	ND<250	ND<0.50	--	1.6	ND<0.50	ND<0.50	ND<0.50
	10/7/2011	--	--	--	--	--	--	--	--	--	--	--
	1/23/2012	--	52	22	--	ND<250	ND<0.50	--	0.92	ND<0.50	ND<0.50	ND<0.50
	4/6/2012	--	--	--	--	--	--	--	--	--	--	--
	7/24/2012	--	81	20	--	ND<250	ND<0.50	--	1.4	ND<0.50	ND<0.50	ND<0.50
	2/8/2013	--	21	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/10/2013	--	4.7	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/16/2014	--	39	ND<10	ND<250	--	ND<0.50	--	0.67	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	--	--	--	--	--	--	--	--	--	--
	1/27/2015	--	2.9	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/21/2015	--	--	--	--	--	--	--	--	--	--	--
	1/20/2016	**--**	**2.2**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
MW-6	10/3/2001	200	270	--	--	--	--	--	--	--	--	--
	1/28/2002	ND<2.5	--	--	--	--	--	--	--	--	--	--

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	Date	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	Ethanol 8260B (µg/L)	Ethanol 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	4/25/2002	ND<2.5	--	--	--	--	--	--	--	--	--	--
	7/18/2002	ND<2.5	ND<2.0	ND<20	--	ND<500,000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	10/7/2002	ND<2.5	ND<2.0	ND<100	--	ND<500,000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	1/6/2003	ND<2.0	ND<2.0	ND<100	--	ND<500,000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	4/7/2003	46	46	ND<100	--	ND<500,000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	7/7/2003	ND<2.0	ND<2.0	ND<100	--	ND<500,000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	10/9/2003	--	ND<2.0	ND<100	--	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	1/14/2004	ND<5.0	ND<2.0	ND<100	--	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	4/28/2004	ND<1	ND<0.5	ND<12	--	ND<1,000	ND<0.5	--	ND<0.5	ND<1	ND<1	ND<1
	7/12/2004	6.4	ND<0.5	ND<12	--	ND<800	ND<0.5	--	ND<0.5	ND<1	ND<1	ND<1
	10/25/2004	ND<5.0	0.57	ND<5.0	--	ND<50	ND<0.50	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50
	1/17/2005	ND<5.0	ND<0.50	ND<5.0	--	ND<50	ND<0.50	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50
	4/6/2005	ND<5.0	ND<0.50	ND<5.0	--	ND<50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/8/2005	ND<5.0	ND<0.50	ND<5.0	--	ND<50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/7/2005	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/27/2006	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/28/2006	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/28/2006	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/27/2006	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/10/2007	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/13/2007	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/19/2007	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/8/2007	ND<1.0	0.80	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/9/2008	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/4/2008	--	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/3/2008	--	1.4	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/3/2008	--	1.8	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/22/2009	--	1.2	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/13/2009	--	0.72	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/23/2009	--	--	--	--	--	--	--	--	--	--	--
	2/1/2010	--	--	--	--	--	--	--	--	--	--	--
	8/2/2010	--	--	--	--	--	--	--	--	--	--	--
	8/24/2010	--	--	--	--	--	--	--	--	--	--	--

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	Date	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	Ethanol 8260B (µg/L)	Ethanol 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-7	10/3/2001	35,000	40,000	--	--	--	--	--	--	--	--	--
	1/28/2002	42,000	38,000	--	--	--	--	--	--	--	--	--
	4/25/2002	42,000	45,000	--	--	--	--	--	--	--	--	--
	7/18/2002	51,000	53,000	33,000	--	ND<5,000,000	ND<20	--	ND<20	ND<20	ND<20	ND<20
	10/7/2002	33,000	38,000	26,000	--	ND<100,000,000	ND<400	--	ND<400	ND<400	ND<400	ND<400
	1/6/2003	3,900	3,100	ND<10,000	--	ND<50,000,000	ND<200	--	ND<200	ND<200	ND<200	ND<200
	4/7/2003	32,000	28,000	ND<40,000	--	ND<200,000,000	ND<800	--	ND<800	ND<800	ND<800	ND<800
	7/7/2003	36,000	45,000	27,000	--	ND<100,000,000	ND<400	--	ND<400	ND<400	ND<400	ND<400
	10/9/2003	--	20,000	ND<25,000	--	ND<130,000	ND<500	--	ND<500	ND<500	ND<500	ND<500
	1/14/2004	20,000	25,000	ND<40,000	--	ND<200,000	ND<800	--	ND<800	ND<800	ND<800	ND<800
	4/28/2004	30,000	21,000	9,200	--	ND<1,000	ND<0.5	--	6.8	ND<1	ND<1	12
	7/12/2004	12,000	11,000	4,600	--	ND<8,000	ND<5	--	5.1	ND<10	ND<10	ND<10
	10/25/2004	13,000	14,000	3,900	--	ND<5,000	ND<50	--	ND<50	ND<100	ND<50	ND<50
	1/17/2005	17,000	16,000	4,200	--	ND<5,000	ND<50	--	ND<50	ND<100	ND<50	ND<50
	4/6/2005	14,000	17,000	4,200	--	ND<10,000	ND<0.50	--	6.4	ND<0.50	ND<0.50	9.3
	7/8/2005	8,600	11,000	4,300	--	ND<5,000	ND<50	--	ND<50	ND<50	ND<50	ND<50
	10/7/2005	9,400	9,800	1,100	--	ND<12,000	ND<25	--	ND<25	ND<25	ND<25	ND<25
	1/27/2006	9,900	7,900	1,600	--	ND<25,000	ND<50	--	ND<50	ND<50	ND<50	ND<50
	4/28/2006	9,600	11,000	2,900	--	ND<250	ND<0.50	--	3.4	ND<0.50	ND<0.50	6.3
	7/28/2006	5,000	5,300	1,300	--	ND<6,200	ND<12	--	ND<12	ND<12	ND<12	ND<12
	10/27/2006	4,700	3,700	1,700	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/10/2007	4,400	4,400	1,300	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	4/13/2007	--	--	--	--	--	--	--	--	--	--	--
	7/19/2007	2,700	3,300	ND<100	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	10/8/2007	2,500	2,200	ND<500	--	ND<12,000	ND<25	--	ND<25	ND<25	ND<25	ND<25
	1/9/2008	1,900	1,900	2,700	--	ND<250	ND<0.50	--	1.2	ND<0.50	ND<0.50	1.1
	4/4/2008	--	2,700	1,400	--	ND<6,200	ND<12	--	ND<12	ND<12	ND<12	ND<12
	7/3/2008	--	2,300	940	--	ND<250	ND<0.50	--	2.2	ND<0.50	ND<0.50	1.2
	10/3/2008	--	1,800	540	--	ND<1,200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	1/22/2009	--	1,300	370	--	ND<1,200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	4/13/2009	--	1,200	420	--	ND<5,000	ND<10	--	ND<10	ND<10	ND<10	ND<10
	7/23/2009	--	900	370	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	Date	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	Ethanol 8260B (µg/L)	Ethanol 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	2/1/2010	--	720	--	--	--	--	--	--	--	--	--
	8/2/2010	--	770	--	--	--	ND<0.50	--	1.9	--	--	--
	11/1/2010	--	--	--	--	--	--	--	--	--	--	--
	1/31/2011	--	600	160	--	ND<250	ND<0.50	--	1.3	ND<0.50	ND<0.50	ND<0.50
	4/26/2011	--	--	--	--	--	--	--	--	--	--	--
	7/25/2011	--	620	220	--	ND<250	ND<0.50	--	1.6	ND<0.50	ND<0.50	ND<0.50
	10/7/2011	--	--	--	--	--	--	--	--	--	--	--
	1/23/2012	--	390	190	--	ND<250	ND<0.50	--	1.2	ND<0.50	ND<0.50	ND<0.50
	4/6/2012	--	--	--	--	--	--	--	--	--	--	--
	7/24/2012	--	300	160	--	ND<250	ND<0.50	--	1.5	ND<0.50	ND<0.50	ND<0.50
	2/8/2013	--	610	ND<50	ND<1,200	--	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	7/10/2013	--	450	44	ND<250	--	ND<0.50	--	1.2	ND<0.50	ND<0.50	ND<0.50
	1/16/2014	--	310	ND<10	ND<250	--	ND<0.50	--	1.4	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	--	--	--	--	--	--	--	--	--	--
	1/27/2015	--	180	ND<10	ND<250	--	ND<0.50	--	0.80	ND<0.50	ND<0.50	ND<0.50
	7/21/2015	--	--	--	--	--	--	--	--	--	--	--
	1/20/2016	**--**	**120**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
MW-8	1/18/2008	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/4/2008	--	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/3/2008	--	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/3/2008	--	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/22/2009	--	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/13/2009	--	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/23/2009	--	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/1/2010	--	ND<0.50	--	--	--	--	--	--	--	--	--
	8/2/2010	--	--	--	--	--	--	--	--	--	--	--
	8/24/2010	--	--	--	--	--	--	--	--	--	--	--
MW-9A	7/10/2013	--	4.4	1,700	ND<250	--	ND<0.50	--	16	ND<0.50	ND<0.50	ND<0.50
	1/16/2014	--	ND<0.50	2,800	ND<250	--	ND<0.50	--	25	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	4.1	2,600	ND<1,200	--	ND<2.5	--	18	ND<2.5	ND<2.5	ND<2.5
	1/27/2015	--	3.9	1,100	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	58

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	Date	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	Ethanol 8260B (µg/L)	Ethanol 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	7/21/2015	--	ND<5.0	ND<100	ND<2,500	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/20/2016	**--**	**16**	**1,300**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
MW-9B	7/10/2013	--	18	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/16/2014	--	56	ND<10	ND<250	--	ND<0.50	--	1.7	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	--	--	--	--	--	--	--	--	--	--
	1/27/2015	--	9.8	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/21/2015	--	--	--	--	--	--	--	--	--	--	--
	1/20/2016	**--**	**4.1**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**1.1**	**ND<0.50**	**ND<0.50**	**ND<0.50**
MW-10A	7/10/2013	--	310	1,500	ND<2,500	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/16/2014	--	420	1,800	ND<2,500	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	7/22/2014	--	360	ND<100	ND<2,500	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/27/2015	--	340	1,500	ND<2,500	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	50
	7/21/2015	--	420	ND<100	ND<2,500	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/20/2016	**--**	**320**	**ND<50**	**ND<1,200**	**--**	**ND<2.5**	**--**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**
MW-10B	7/10/2013	--	110	370	ND<250	--	ND<0.50	--	3.5	ND<0.50	ND<0.50	ND<0.50
	1/16/2014	--	100	630	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	89	ND<50	ND<1,200	--	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	1/27/2015	--	59	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/21/2015	--	96	ND<100	ND<2,500	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/20/2016	**--**	**51**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**36**	**ND<0.50**	**ND<0.50**	**ND<0.50**
MW-10S	7/22/2014	--	--	--	--	--	--	--	--	--	--	--
	1/27/2015	--	3.9	180	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	2.5
	7/21/2015	--	10	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/20/2016	**--**	**4.4**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
MW-11A	7/10/2013	--	3,600	4,900	ND<6,200	--	ND<12	--	ND<12	ND<12	ND<12	ND<12
	1/16/2014	--	3,600	4,000	ND<6,200	--	ND<12	--	ND<12	ND<12	ND<12	ND<12
	7/22/2014	--	2,800	ND<250	ND<6,200	--	ND<12	--	ND<12	ND<12	ND<12	ND<12
	1/27/2015	--	2,200	3,600	ND<6,200	--	ND<12	--	ND<12	ND<12	ND<12	90

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	Date	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	Ethanol 8260B (µg/L)	Ethanol 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	7/21/2015	--	2,600	ND<500	ND<12,000	--	ND<25	--	ND<25	ND<25	ND<25	ND<25
	1/20/2016	**--**	**2,400**	**ND<500**	**ND<12,000**	**--**	**ND<25**	**--**	**ND<25**	**ND<25**	**ND<25**	**ND<25**
MW-11B	7/10/2013	--	490	1,500	ND<1,200	--	ND<2.5	--	57	ND<2.5	ND<2.5	ND<2.5
	1/16/2014	--	2,100	5,200	ND<1,200	--	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	7/22/2014	--	1,400	5,500	ND<5,000	--	ND<10	--	ND<10	ND<10	ND<10	ND<10
	1/27/2015	--	1,200	3,000	ND<1,200	--	ND<2.5	--	110	ND<2.5	ND<2.5	46
	7/21/2015	--	1,900	ND<500	ND<12,000	--	ND<25	--	ND<25	ND<25	ND<25	ND<25
	1/20/2016	**--**	**1,900**	**ND<250**	**ND<6,200**	**--**	**ND<12**	**--**	**ND<12**	**ND<12**	**ND<12**	**ND<12**
MW-11S	7/22/2014	--	1,300	4,800	ND<6,200	--	ND<12	--	ND<12	ND<12	ND<12	ND<12
	1/27/2015	--	29	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	1.2
	7/21/2015	--	190	ND<100	ND<2,500	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/20/2016	**--**	**2.5**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**

Notes:

8021B = Analyzed by Environmental Protection Agency (EPA) Method 8021B
8260B = Analyzed by EPA Method 8260B
8015B = Analyzed by EPA Method 8015B
504 = Analyzed by EPA Method 504
µg/L = Micrograms per liter
-- = Not sampled
DIPE = Diisopropyl ether
EDB = 1,2-dibromoethane
EDC = 1,2-dichloroethane
ETBE = Ethyl t-butyl ether
ID = Identification
MTBE = Methyl t-butyl ether
ND = Not detected
ND<# = Analyte not detected at or above indicated practical quantitation limit
QA = Trip blank
TAME = t-amyl methyl ether
TBA = t-butyl alcohol

Table 7
Historical Groundwater Analytical Results - Monitored Natural Attenuation Parameters
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

Well ID	Date	Methane (mg/L)	Nitrate as NO3 (mg/L)	Sulfate (mg/L)	Iron (II) Species (µg/L)	Dissolved Manganese (µg/L)
MW-1B	1/16/2014	0.013	7.2	19	ND<100	120
MW-2B	1/16/2014	0.0021	ND<0.44	7.9	ND<100	260
MW-3B	1/16/2014	12	ND<0.44	1.0	5,200	3,300
	7/22/2014	13	ND<0.44	1.8	5,900	3,300
	1/27/2015	11	ND<0.44	1.8	1,600	3,700
	7/21/2015	4.3	ND<0.44	ND<1.0	2,600	8.5
	1/20/2016	**3.0**	**ND<0.44**	**4.9**	**1,400**	**3,200**
MW-4B	1/16/2014	0.0079	12	28	ND<100	70
MW-5	1/16/2014	0.0027	4.5	27	ND<100	5.2
MW-7	1/16/2014	0.081	ND<0.44	4.1	2,200	300
MW-9A	1/16/2014	2.5	ND<0.88	8.6	2,400	1,500
	7/22/2014	1.9	ND<0.88	ND<2.0	6,800	1,600
	1/27/2015	1.7	14	ND<1.0	6,200	1,400
	7/21/2015	0.91	ND<0.44	ND<1.0	6,000	1,300
	1/20/2016	**1.3**	**ND<0.44**	**ND<1.0**	**21,000**	**1,000**
MW-9B	1/16/2014	0.0017	4.7	18	ND<100	630
MW-10A	1/16/2014	1.7	ND<0.44	ND<1.0	5,800	1,100
	7/22/2014	2.8	ND<0.44	ND<1.0	7,200	1,200
	1/27/2015	2.0	--	--	--	--
	7/21/2015	1.0	ND<0.44	ND<1.0	5,500	1,200
	1/20/2016	**1.2**	**ND<0.44**	**ND<1.0**	**5,100**	**1,000**
MW-10B	1/16/2014	0.63	ND<0.44	ND<1.0	7,300	5,400
	7/22/2014	0.064	ND<0.44	ND<1.0	4,200	5,000
	1/27/2015	0.67	ND<0.44	ND<1.0	6,400	5,000
	7/21/2015	0.20	ND<0.44	ND<1.0	5,300	1,100
	1/20/2016	**0.86**	**ND<0.44**	**ND<1.0**	**7,800**	**5,100**
MW-10S	1/27/2015	0.25	ND<0.44	72	700	1,200
	7/21/2015	0.50	ND<0.44	51	2,400	1,600
	1/20/2016	**0.0018**	**ND<0.44**	**33**	**200**	**1,400**

Table 7
Historical Groundwater Analytical Results - Monitored Natural Attenuation Parameters
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

Well ID	Date	Methane (mg/L)	Nitrate as NO3 (mg/L)	Sulfate (mg/L)	Iron (II) Species (µg/L)	Dissolved Manganese (µg/L)
MW-11A	1/16/2014	2.3	ND<0.44	ND<1.0	7,900	3,700
	7/22/2014	4.6	ND<0.44	ND<1.0	6,100	4,600
	1/27/2015	3.9	ND<0.44	ND<1.0	7,000	4,100
	7/21/2015	2.7	ND<0.44	ND<1.0	8,400	1,500
	1/20/2016	**5.2**	**ND<0.44**	**ND<1.0**	**5,500**	**3,400**
MW-11B	1/16/2014	0.31	ND<0.44	5.2	6,600	1,100
	7/22/2014	0.48	ND<0.44	ND<1.0	2,700	1,600
	1/27/2015	0.68	ND<0.44	ND<1.0	8,800	1,500
	7/21/2015	0.48	ND<0.44	ND<1.0	3,100	1,800
	1/20/2016	**1.5**	**ND<0.44**	**ND<1.0**	**5,500**	**1,400**
MW-11S	7/22/2014	0.50	ND<0.44	30	1,900	1,800
	1/27/2015	0.30	ND<0.44	22	690	1,200
	7/21/2015	0.65	ND<0.44	ND<1.0	5,200	1,700
	1/20/2016	**0.0014**	**ND<0.44**	**28**	**440**	**330**

Notes:
µg/L = Micrograms per liter
-- = Not sampled
ID = Identification
mg/L = Milligrams per liter
ND<# = Analyte not detected at or above indicated practical quantitation limit

Table 8a
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	DATE	Acenaph-thylene (µg/L)	Bromo-dichloro-methane (µg/L)	Bromo-form (µg/L)	Bromo-methane (µg/L)	Carbon Tetra-chloride (µg/L)	Chloro-benzene (µg/L)	Chloro-ethane (µg/L)	Chloroform (µg/L)	Chloro-methane (µg/L)	Dibromo-chloro-methane (µg/L)	1,2-Dichloro-benzene (µg/L)	1,3-Dichloro-benzene (µg/L)
MW-1	7/20/1999	--	--	--	--	--	12	--	--	--	--	3.9	--
	3/31/2000	--	--	--	--	--	--	--	--	--	--	6.2	--
	4/4/2001	--	--	--	--	--	5.6	--	--	--	--	4.6	--
	7/17/2001	--	--	--	--	--	--	--	--	--	--	18	--
	7/18/2002	--	--	--	--	--	5.9	1.1	--	--	--	5.8	--
	7/7/2003	--	--	--	--	--	ND<120	--	--	--	--	--	--
	7/12/2004	ND<2	ND<10	ND<10	ND<20	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<2	ND<2
	7/8/2005	--	ND<0.50	ND<2.0	ND<1.0	ND<0.50	12	1.0	ND<0.50	ND<1.0	ND<0.50	9.0	ND<0.50
	7/28/2006	--	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/19/2007	--	ND<50	ND<50	ND<100	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
	7/3/2008	--	ND<12	ND<12	ND<25	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12
MW-7	1/6/2003	--	--	--	--	--	ND<50	--	--	--	--	--	--

Notes:
µg/L = Micrograms per liter
-- = Not sampled
ID = Identification
ND<# = Analyte not detected at or above indicated practical quantitation limit

Table 8b
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	DATE	1,4-Dichloro-benzene (µg/L)	Dichloro-difluoro-methane (µg/L)	1,1-Dichloro-ethane (µg/L)	1,1-Dichloro-ethene (µg/L)	cis-1,2-Dichloro-ethene (µg/L)	trans-1,2-Dichloro-ethene (µg/L)	1,2-Dichloro-propane (µg/L)	cis-1,3-Dichloro-propene (µg/L)	trans-1,3-Dichloro-propene (µg/L)	Hexa-chloro-butadiene (µg/L)	Methylene chloride (µg/L)	Naph-thalene (µg/L)
MW-1	7/20/1999	--	--	2.0	--	3.6	--	0.92	--	--	--	--	600
	9/28/1999	--	--	--	--	--	--	--	--	--	--	--	534
	1/7/2000	--	--	--	--	--	--	--	--	--	--	--	1,050
	3/31/2000	--	--	--	--	--	--	--	--	--	--	--	140
	7/14/2000	--	--	--	--	--	--	--	--	--	--	--	690
	10/3/2000	--	--	--	--	--	--	--	--	--	--	--	361
	1/3/2001	--	--	--	--	--	--	--	--	--	--	--	400
	4/4/2001	--	--	--	--	3.4	--	--	--	--	--	--	490
	7/17/2001	--	--	--	--	--	--	--	--	--	--	--	740
	7/18/2002	1.3	--	--	--	1.3	--	--	--	--	--	--	910
	7/7/2003	--	--	--	--	ND<120	--	--	--	--	--	--	850
	7/12/2004	ND<2	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<2	ND<20	450
	7/8/2005	1.2	ND<1.0	1.3	ND<0.50	3.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<20	ND<5.0	250
	7/28/2006	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<1.0	--
	7/19/2007	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND<100	--
	7/3/2008	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	--	ND<25	--
MW-5	1/6/2003	--	--	--	--	ND<0.50	--	--	--	--	--	--	ND<10
MW-7	1/6/2003	--	--	--	--	ND<50	--	--	--	--	--	--	ND<10

Notes:
µg/L = Micrograms per liter
-- = Not sampled
ID = Identification
ND<# = Analyte not detected at or above indicated practical quantitation limit

Table 8c
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	DATE	n-Propyl-benzene (µg/L)	1,1,2,2-Tetrachloro-ethane (µg/L)	Tetrachloro-ethene (PCE) (µg/L)	Trichloro-trifluoro-ethane (µg/L)	1,2,4-Trichloro-benzene (µg/L)	1,1,1-Trichloro-ethane (µg/L)	1,1,2-Trichloro-ethane (µg/L)	Trichloro-ethene (TCE) (µg/L)	Trichloro-fluoro-methane (µg/L)	1,2,4-Trimethyl-benzene (µg/L)	1,3,5-Trimethyl-benzene (µg/L)	Vinyl chloride (µg/L)
MW-1	9/28/1999	--	--	--	--	--	--	--	--	--	1240	318	--
	1/7/2000	371	--	--	--	--	--	--	--	--	2210	597	--
	7/14/2000	--	--	334	--	--	--	--	--	--	--	--	--
	7/18/2002	--	--	ND<0.60	--	--	--	--	--	--	--	--	--
	7/7/2003	--	--	ND<120	--	--	--	--	--	--	--	--	--
	7/12/2004	--	ND<10	ND<10	ND<10	ND<2	ND<10	ND<10	ND<10	ND<10	--	--	ND<10
	7/8/2005	--	ND<0.50	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	0.73	ND<1.0	--	--	ND<0.50
	7/28/2006	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	ND<0.50
	7/19/2007	--	ND<50	ND<50	ND<50	--	ND<50	ND<50	ND<50	ND<50	--	--	ND<50
	7/3/2008	--	ND<12	ND<12	ND<12	--	ND<12	ND<12	ND<12	ND<12	--	--	ND<12
MW-5	1/6/2003	--	--	ND<0.50	--	--	--	--	--	--	--	--	--
MW-7	1/6/2003	--	--	ND<50	--	--	--	--	--	--	--	--	--

Notes:
µg/L = Micrograms per liter
-- = Not sampled
ID = Identification
ND<# = Analyte not detected at or above indicated practical quantitation limit

Table 8d
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	DATE	Acena-phthene (µg/L)	Acena-phthylene (svoc) (µg/L)	Anthra-cene (µg/L)	Benzo[a]-anthracene (µg/L)	Benzo[a]-pyrene (µg/L)	Benzo[b]-fluor-anthene (µg/L)	Benzo-[g,h,I]-perylene (µg/L)	Benzo[k]-fluor-anthene (µg/L)	Benzoic Acid (µg/L)	Benzyl Alcohol (µg/L)	Bis(2-chloro-ethoxy) methane (µg/L)	Bis(2-chloro-ethyl) ether (µg/L)
MW-1	7/12/2004	ND<2	--	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	--	--	--	--
	7/28/2006	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<50	ND<10	ND<10	ND<10
	7/19/2007	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<11	ND<2.2	ND<2.2	ND<2.2
	7/3/2008	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<100	ND<20	ND<20	ND<20

Notes:
µg/L = Micrograms per liter
-- = Not sampled
ID = Identification
ND<# = Analyte not detected at or above indicated practical quantitation limit
svoc = Semi-volatile organic compound

Table 8e
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	DATE	Bis(2-chloro-isopropyl)-ether (µg/L)	Bis(2-ethyl-hexyl) phthalate (µg/L)	4-Bromo-pheny phe-nyl ether (µg/L)	Butyl-benzyl phthalate (µg/L)	4-Chloro-3-methyl-phenol (µg/L)	4-Chloro-aniline (µg/L)	2-Chloro-naphtha-lene (µg/L)	2-Chloro-phenol (µg/L)	4-Chloro-phenyl phenyl ether (µg/L)	Chrysene (µg/L)	Dibenzo-[a,h]-anthracene (µg/L)	Dibenzo-furan (µg/L)
MW-1	3/31/2000	--	10	--	--	--	--	--	--	--	--	--	--
	10/3/2000	--	51.6	--	--	--	--	--	--	--	--	--	--
	4/4/2001	--	55	--	--	--	--	--	--	--	--	--	--
	7/17/2001	--	400	--	--	--	--	--	--	--	--	--	--
	7/18/2002	--	120	--	--	--	--	--	--	--	--	--	--
	7/7/2003	--	70	--	--	--	--	--	--	--	--	--	--
	7/12/2004	--	ND<5	--	--	--	--	--	--	--	ND<2	ND<3	--
	7/28/2006	ND<10	33	ND<10	ND<10	ND<25	ND<10	ND<10	ND<10	ND<10	ND<10	ND<15	ND<10
	7/19/2007	ND<2.2	ND<4.4	ND<2.2	ND<2.2	ND<5.5	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<3.3	ND<2.2
	7/3/2008	ND<20	ND<40	ND<20	ND<20	ND<50	ND<20	ND<20	ND<20	ND<20	ND<20	ND<30	ND<20
MW-5	1/6/2003	--	ND<5.0	--	--	--	--	--	--	--	--	--	--
MW-7	1/6/2003	--	ND<5.0	--	--	--	--	--	--	--	--	--	--

Notes:
µg/L = Micrograms per liter
-- = Not sampled
ID = Identification
ND<# = Analyte not detected at or above indicated practical quantitation limit

Table 8f
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	DATE	1,2-Dichloro-benzene (svoc) (µg/L)	1,3-Dichloro-benzene (svoc) (µg/L)	1,4-Dichloro-benzene (svoc) (µg/L)	3,3-Dichloro-benzidine (µg/L)	2,4-Dichloro-phenol (µg/L)	Diethyl phthalate (µg/L)	2,4-Dimethyl-phenol (µg/L)	Dimethyl phthalate (µg/L)	Di-n-butyl phthalate (µg/L)	2,4-Dinitro-phenol (µg/L)	2,4-Dinitro-toluene (µg/L)	2,6-Dinitro-toluene (µg/L)
MW-1	7/28/2006	ND<10	ND<10	ND<10	ND<50	ND<10	ND<10	ND<10	ND<10	ND<10	ND<50	ND<10	ND<10
	7/19/2007	ND<2.2	ND<2.2	ND<2.2	ND<11	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<11	ND<2.2	ND<2.2
	7/3/2008	ND<20	ND<20	ND<20	ND<100	ND<20	ND<20	ND<20	ND<20	ND<20	ND<100	ND<20	ND<20

Notes:
µg/L = Micrograms per liter
-- = Not sampled
ID = Identification
ND<# = Analyte not detected at or above indicated practical quantitation limit
svoc = Semi-volatile organic compound

Table 8g
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	DATE	Di-n-octyl phthalate (µg/L)	Fluoran-thene (µg/L)	Fluorene (µg/L)	Hexa-chloro-benzene (µg/L)	Hexachloro-butadiene (svoc) (µg/L)	Hexachloro cyclopenta-diene (µg/L)	Hexachloro -ethane (µg/L)	Indeno-[1,2,3-c,d] pyrene (µg/L)	Isophorone (µg/L)	2-Methyl-4,6-dinitro-phenol (µg/L)	2-Methyl-naphtha-lene (µg/L)	2-Methyl-phenol (µg/L)
MW-1	7/20/1999	--	--	--	--	--	--	--	--	--	--	240	--
	9/28/1999	--	--	--	--	--	--	--	--	--	--	87.4	26.4
	1/7/2000	--	--	--	--	--	--	--	--	--	--	315	--
	3/31/2000	--	--	--	--	--	--	--	--	--	--	73	31
	7/14/2000	--	--	--	--	--	--	--	--	--	--	300	--
	10/3/2000	--	--	--	--	--	--	--	--	--	--	98.1	--
	1/3/2001	--	--	--	--	--	--	--	--	--	--	180	--
	4/4/2001	--	--	--	--	--	--	--	--	--	--	78	--
	7/17/2001	--	--	--	--	--	--	--	--	--	--	290	47
	7/18/2002	--	--	--	--	--	--	--	--	--	--	420	13
	7/7/2003	--	--	--	--	--	--	--	--	--	--	260	ND<5.0
	7/12/2004	--	ND<2	ND<2	--	--	--	--	ND<2	--	--	--	--
	7/28/2006	ND<10	ND<10	ND<10	ND<10	ND<5.0	ND<10	ND<10	ND<10	ND<10	--	280	ND<10
	7/19/2007	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<1.1	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<11	230	29
	7/3/2008	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<100	270	ND<20
MW-5	1/6/2003	--	--	--	--	--	--	--	--	--	--	ND<5.0	ND<5.0
MW-7	1/6/2003	--	--	--	--	--	--	--	--	--	--	ND<5.0	ND<5.0

Notes:
µg/L = Micrograms per liter
-- = Not sampled
ID = Identification
ND<# = Analyte not detected at or above indicated practical quantitation limit
svoc = Semi-volatile organic compound

Table 8h
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	DATE	4-Methyl-phenol (µg/L)	Naphtha-lene (svoc) (µg/L)	2-Nitro-aniline (µg/L)	3-Nitro-aniline (µg/L)	4-Nitro-aniline (µg/L)	Nitro-benzene (µg/L)	2-Nitro-phenol (µg/L)	4-Nitro-phenol (µg/L)	N-nitrosodi-n-propyl-amine (µg/L)	N-Nitro-sodiphenyl-amine (µg/L)	Penta-chloro-phenol (µg/L)	Phen-anthrene (µg/L)
MW-1	7/20/1999	27	--	--	--	--	--	--	--	--	--	--	--
	9/28/1999	35.6	--	--	--	--	--	--	--	--	--	--	--
	3/31/2000	18	--	--	--	--	--	--	--	--	--	--	--
	10/3/2000	28.9	--	--	--	--	--	--	--	--	--	--	--
	7/17/2001	25	--	--	--	--	--	--	--	--	--	--	--
	7/18/2002	25	--	--	--	--	--	--	--	--	--	--	--
	7/7/2003	22	--	--	--	--	--	--	--	--	--	--	--
	7/12/2004	--	--	--	--	--	--	--	--	--	--	--	ND<2
	7/28/2006	--	660	ND<10	ND<10	ND<25	ND<10	ND<10	ND<10	ND<10	ND<10	ND<50	ND<10
	7/19/2007	--	770	ND<2.2	ND<2.2	ND<5.5	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<11	ND<2.2
	7/3/2008	--	750	ND<20	ND<20	ND<50	ND<20	ND<20	ND<20	ND<20	ND<20	ND<100	ND<20
MW-5	1/6/2003	ND<5.0	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/6/2003	ND<5.0	--	--	--	--	--	--	--	--	--	--	--

Notes:
µg/L = Micrograms per liter
-- = Not sampled
ID = Identification
ND<# = Analyte not detected at or above indicated practical quantitation limit
svoc = Semi-volatile organic compound

Table 8i
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	DATE	Phenol (µg/L)	Pyrene (µg/L)	1,2,4-Trichloro-benzene (svoc) (µg/L)	2,4,6-Trichloro-phenol (µg/L)	2,4,5-Trichloro-phenol (µg/L)	Carbon (organic, total) (µg/L)	Chromium VI (µg/L)	Chromium (total) (µg/L)	Iron Ferrous (µg/L)	Manganese (dissolved) (µg/L)	Manganese (total) (µg/L)	Molyb-denum (total) (µg/L)
MW-1	7/12/2004	--	ND<2	--	--	--	--	--	--	--	--	--	--
	7/28/2006	ND<10	ND<10	ND<10	ND<25	ND<25	--	--	--	--	--	--	--
	7/19/2007	ND<2.2	ND<2.2	ND<2.2	ND<5.5	ND<5.5	--	--	--	--	--	--	--
	7/3/2008	ND<20	ND<20	ND<20	ND<50	ND<50	--	--	--	--	--	--	--
	4/13/2009	--	--	--	--	--	26	ND<2.0	ND<3.0	280	160	200	8.6
MW-2	4/13/2009	--	--	--	--	--	4.4	ND<2.0	9.3	740	110	230	1.1
MW-3	4/13/2009	--	--	--	--	--	3.0	ND<2.0	14	1,800	2,800	2,500	4.7
MW-4	4/13/2009	--	--	--	--	--	1.9	ND<2.0	8.1	1,500	2,000	3,500	7.2
MW-5	4/13/2009	--	--	--	--	--	1.4	ND<2.0	19	ND<500	1.4	650	1.2
MW-6	4/13/2009	--	--	--	--	--	1.4	ND<2.0	32	ND<500	14	530	2.6
MW-7	4/13/2009	--	--	--	--	--	2.3	ND<2.0	100	3,200	960	2,300	1.1
MW-8	4/13/2009	--	--	--	--	--	0.48	ND<2.0	3.3	130	ND<1.0	47	1.2

Note:

µg/L = Micrograms per liter

-- = Not sampled

ID = Identification

ND<# = Analyte not detected at or above indicated practical quantitation limit

Table 8j
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	DATE	Molyb-denum (dissolved) (µg/L)	Selenium (total) (µg/L)	Selenium (dissolved) (µg/L)	Vanadium (total) (µg/L)	Vanadium (dissolved) (µg/L)	Bromate (µg/L)	Bromide (µg/L)	Chloride (µg/L)	Nitrogen as Nitrate (µg/L)	Sulfate (µg/L)	Alkalinity (total) (µg/L)	Specific Con-ductance (µg/L)
MW-1	4/13/2009	7.5	ND<2.0	ND<2.0	ND<3.0	ND<3.0	ND<25	0.77	23	ND<0.44	ND<1.0	390	750
MW-2	4/13/2009	ND<1.0	ND<2.0	ND<2.0	31	12	ND<25	0.40	25	0.85	14	350	688
MW-3	4/13/2009	3.7	ND<2.0	ND<2.0	22	ND<3.0	ND<25	0.41	30	2.9	16	360	681
MW-4	4/13/2009	6.4	ND<2.0	ND<2.0	13	3.4	ND<25	0.40	37	4.4	23	320	704
MW-5	4/13/2009	1.5	ND<2.0	ND<2.0	59	6.1	ND<25	0.71	68	5.7	26	350	860
MW-6	4/13/2009	2.9	ND<2.0	ND<2.0	80	5.2	ND<25	0.58	72	8.9	37	280	754
MW-7	4/13/2009	1.3	ND<2.0	ND<2.0	190	5.6	ND<25	0.50	37	ND<0.44	9.3	430	848
MW-8	4/13/2009	1.2	ND<2.0	ND<2.0	12	4.5	ND<25	ND<0.10	81	19	40	210	690

Notes:
µg/L = Micrograms per liter
-- = Not sampled
ID = Identification
ND<# = Analyte not detected at or above indicated practical quantitation limit

Table 8k
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	DATE	Pre-Purge DO (mg/L)	Post-Purge DO (mg/L)	Pre-Purge ORP (mV)	Post-Purge ORP (mV)
MW-1	4/13/2009	0.75	--	-102	--
	7/23/2009	2.47	--	-23	--
	2/1/2010	1.18	0.81	-98	-108
	8/2/2010	0.72	0.59	-82	-97
MW-1B	11/1/2010	2.80	0.93	121	111
	1/31/2011	2.57	1.32	152	159
	4/26/2011	3.05	1.90	173	182
	1/23/2012	1.63	0.67	84	80
	7/24/2012	1.36	0.70	74	95
	2/8/2013	1.8	1.7	52	61
	7/10/2013	2.0	1.8	55	58
	1/16/2014	3.3	1.2	158	99
	1/27/2015	2.5	2.0	139	111
MW-2	4/13/2009	0.65	0.49	-27	-15
	7/23/2009	2.57	7.09	56	14
	2/1/2010	2.13	1.51	3	-14
	8/2/2010	0.97	0.62	-7	-12
MW-2B	11/1/2010	1.30	1.06	113	115
	1/31/2011	1.25	0.89	159	159
	4/26/2011	4.27	2.42	173	180
	1/23/2012	0.98	--	108	--
	7/24/2012	0.67	1.10	69	67
	2/8/2013	1.9	1.7	79	86
	7/10/2013	1.7	1.5	54	60
	1/16/2014	2.2	1.8	75	90
	1/27/2015	1.9	1.7	128	119
MW-3	4/13/2009	0.64	0.38	-89	-82
	7/23/2009	5.14	6.14	-22	-56
	2/1/2010	2.12	0.79	-63	-89
	8/2/2010	0.81	0.62	-77	-59
MW-3B	11/1/2010	1.89	0.60	125	117
	1/31/2011	0.88	0.66	161	100
	4/26/2011	1.44	0.92	169	115
	1/23/2012	0.83	0.31	84	-9
	7/24/2012	0.64	0.49	-14	-53
	2/8/2013	1.4	1.2	-36	-47
	7/10/2013	1.7	1.4	-29	-32
	1/16/2014	1.5	1.2	-25	-42
	7/22/2014	1.6	1.2	-68	-43
	1/27/2015	1.5	1.3	-42	-58
	7/21/2015	**1.6**	**1.3**	**-32**	**-53**

Table 8k
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	DATE	Pre-Purge DO (mg/L)	Post-Purge DO (mg/L)	Pre-Purge ORP (mV)	Post-Purge ORP (mV)
MW-4	4/13/2009	0.51	1.35	-67	-46
	7/23/2009	2.10	7.23	-28	-48
	2/1/2010	1.67	0.90	-76	-70
	8/2/2010	0.74	0.57	-94	-64
MW-4B	11/1/2010	1.31	0.63	77	83
	1/31/2011	3.13	1.72	151	145
	4/26/2011	4.19	1.97	234	221
	1/23/2012	2.18	3.96	161	124
	7/24/2012	1.37	0.91	2	8
	2/8/2013	2.2	2.1	86	95
	7/10/2013	2.4	2.2	24	27
	1/16/2014	2.0	1.5	65	49
	1/27/2015	2.6	2.3	122	110
MW-5	4/13/2009	1.80	0.95	-21	-12
	7/23/2009	1.54	2.08	136	144
	2/1/2010	1.82	1.84	21	23
	8/2/2010	1.78	1.36	171	44
	1/31/2011	1.17	1.00	154	155
	1/23/2012	1.15	0.56	98	84
	7/24/2012	2.74	0.79	40	42
	2/8/2013	2.3	2.1	62	71
	7/10/2013	2.4	2.2	34	37
	1/16/2014	2.6	2.1	125	107
	1/27/2015	2.2	2.0	135	114
MW-6	4/13/2009	0.80	0.54	-40	-32
MW-7	4/13/2009	0.80	1.27	-21	-13
	7/23/2009	1.35	0.76	165	165
	2/1/2010	1.86	0.97	-33	-12
	8/2/2010	1.24	0.74	133	41
	1/31/2011	1.22	0.92	156	163
	1/23/2012	3.15	0.55	113	106
	7/24/2012	3.14	1.57	-108	-76
	2/8/2013	2.4	2.3	56	67
	7/10/2013	2.1	1.9	52	56
	1/16/2014	2.3	2.1	138	125
	1/27/2015	2.4	2.2	138	127
MW-8	4/13/2009	2.56	1.11	-70	-48
	7/23/2009	4.57	8.40	196	185
	2/1/2010	3.17	2.94	-17	-16
MW-9A	7/10/2013	1.4	1.1	59	58
	1/16/2014	2.2	1.8	28	10

Table 8k
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645), 4276 MacArthur Boulevard, Oakland, California

WELL ID	DATE	Pre-Purge DO (mg/L)	Post-Purge DO (mg/L)	Pre-Purge ORP (mV)	Post-Purge ORP (mV)
	7/22/2014	1.3	1.0	37	26
	1/27/2015	2.3	2.1	60	42
	7/21/2015	**2.1**	**1.7**	**128**	**105**
MW-9B	7/10/2013	1.3	1.1	71	74
	1/16/2014	0.6	0.7	99	87
	1/27/2015	2.8	2.4	137	126
MW-10A	7/10/2013	1.9	1.5	81	84
	1/16/2014	1.0	0.7	34	22
	7/22/2014	1.1	.09	43	33
	1/27/2015	1.3	1.0	39	30
	7/21/2015	**1.5**	**1.1**	**68**	**56**
MW-10B	7/10/2013	1.9	1.7	76	79
	1/16/2014	0.8	0.8	66	57
	7/22/2014	1.1	.08	84	70
	1/27/2015	1.1	0.8	83	72
	7/21/2015	**1.3**	**1.0**	**106**	**84**
MW-10S	**7/21/2015**	**1.8**	**1.6**	**80**	**74**
MW-11A	7/10/2013	1.6	1.4	43	49
	1/16/2014	1.8	1.7	60	46
	7/22/2014	1.7	1.5	69	54
	1/27/2015	1.6	1.2	35	34
	7/21/2015	**1.3**	**1.1**	**12**	**4**
MW-11B	7/10/2013	1.3	1.1	73	74
	1/16/2014	1.5	1.1	25	-83
	7/22/2014	1.6	1.2	-37	-26
	1/27/2015	1.4	1.2	18	7
	7/21/2015	**1.9**	**1.6**	**89**	**66**
MW-11S	7/22/2014	1.8	1.4	16	6
	1/27/2015	1.9	1.4	-19	-32
	7/21/2015	**1.7**	**1.4**	**19**	**9**

Notes:
-- = Not monitored
DO = Dissolved oxygen
ID = Identification
mg/L = Milligrams per liter
mV = Millivolts
ORP = Oxidation-reduction potential