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Alameda County
Environmental Health

ARCADIS U.S., Inc.
100 Montgomery Street, Suite 300
San Francisco, California 94104
Tel 415.374.2744
Fax 415.374.2745
www.arcadis-us.com

Re: First Quarter 2010 Ground-Water Monitoring Report
Former BP Station #11133
2220 98th Avenue
Oakland, California
ACEH Case #RO0000403

ENVIRONMENTAL

"I declare that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct."

Date:
04/30/2010

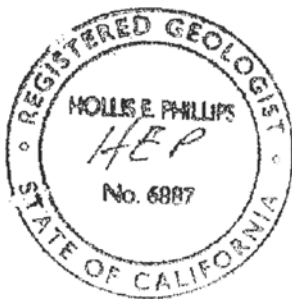
Submitted by:
ARCADIS U.S., Inc.

Contact:
Hollis E. Phillips

Phone:
415.374.2744 ext 13

Hollis E. Phillips, PG
Project Manager

Email:
Hollis.phillips@arcadis-us.com



Our ref:
GP09BPNA.C107

First Quarter 2010 Ground-Water Monitoring Report

Former BP Service Station #11133

2220 98th Avenue
Oakland, California

Prepared for

Ms. Hollis Phillips, PG

Senior Geologist

ARCADIS

100 Montgomery Street, Ste. 300
San Francisco, California 94104

On behalf of

Atlantic Richfield Company

PO Box 1257

San Ramon, California 94583

Prepared by



1324 Mangrove Avenue, Suite 212

Chico, California 95926

(530) 566-1400

www.broadbentinc.com

April 30, 2010

Project No. 09-88-656

April 30, 2010

Project No. 09-88-656

ARCADIS
100 Montgomery Street, Ste. 300
San Francisco, California 94104

Attn.: Ms. Hollis Phillips, PG

Re: First Quarter 2010 Ground-Water Monitoring Report, Former BP Service Station #11133,
2220 98th Avenue, Oakland, Alameda County, California;
ACEH Case #RO0000403

Dear Ms. Phillips:

Provided herein is the *First Quarter 2010 Ground-Water Monitoring Report* for Former BP Service Station #11133 located at 2220 98th Avenue, Oakland, California (Site). This report presents the results of ground-water monitoring conducted at the Site during the First Quarter of 2010.

Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

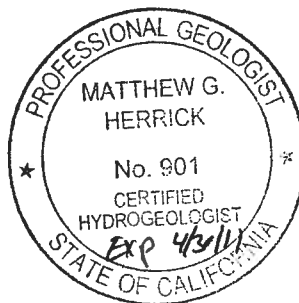
BROADBENT & ASSOCIATES, INC.



Jason Duda
Project Scientist



Matthew G. Herrick, P.G., C.HG.
Senior Hydrogeologist



Enclosure

cc: Mr. Paresh Khatri, Alameda County Environmental Health (Submitted via ACEH ftp site)
Ms. Shelby Lathrop, ConocoPhillips, 76 Broadway, Sacramento, California 95818
Electronic copy uploaded to GeoTracker

STATION #11133 GROUND-WATER MONITORING REPORT

Facility: #11133	Address: 2220 98 th Avenue, Oakland
ARCADIS Project Manager:	Ms. Hollis Phillips, PG
Consulting Co./Contact Persons:	Broadbent & Associates, Inc.(BAI)/Jason Duda & Matt Herrick (530) 566-1400
Primary Agency/Regulatory ID No.:	Alameda County Environmental Health (ACEH) ACEH Case #RO0000403
Consultant Project No.:	09-88-656
Facility Permits/Permitting Agency:	NA

WORK PERFORMED THIS QUARTER (First Quarter 2010):

1. Prepared and submitted *Fourth Quarter 2009 Status Report* (BAI, 01/25/2010).
2. Conducted ground-water monitoring/sampling for First Quarter 2010. Work performed by BAI on March 18, 2010.

WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2010):

1. Prepared and submitted this *First Quarter 2010 Ground-Water Monitoring Report* (contained herein).
2. Prepare and submit a work plan for installation of additional injection wells and proposed sulfate injection pilot testing activities.
3. No environmental work is scheduled at the Site during the Second Quarter of 2010.

QUARTERLY RESULTS SUMMARY:

Current phase of project:	Ground-water monitoring/sampling
Frequency of ground-water monitoring:	All Wells Semi-Annually (1Q & 3Q)
Frequency of ground-water sampling:	Semi-Annually (1Q & 3Q) = MW-1, MW-3, AW-1, AW-4, AW-5, AW-6 & RW-1; Annual (3Q) = AW-2
Is free product (FP) present on-site:	Yes (Sheen present in wells MW-1 and RW-1)
FP recovered this quarter:	None
Current remediation techniques:	NA
Depth to ground water (below TOC):	7.93 ft (MW-2) to 16.45 ft (AW-9)
General ground-water flow direction:	West
Approximate hydraulic gradient:	0.008 ft/ft

DISCUSSION:

First Quarter 2010 ground-water monitoring and sampling was conducted at Station #11133 on March 18, 2010 by BAI. Water levels were gauged in 12 of the 13 wells scheduled to be gauged at the Site. Well AW-7 could not be located (This well has not been able to be located since First Quarter 2001). Wells VW-1 through VW-3 and VEW-4 through VEW-9 were also gauged to assess well integrity. Well VEW-5 was dry. No other irregularities were noted during water level gauging. Depth to ground-water measurements ranged from 7.93 ft at well MW-2 to 16.45 ft in well AW-9. Resulting ground-water surface elevations ranged from 27.57 ft above datum in well MW-2 to 21.33 ft in well AW-9. Water level elevations yielded a potentiometric ground-water flow direction and gradient magnitude toward the west at approximately 0.008 ft/ft. Ground-water monitoring field data sheets are provided within Appendix A. Measured depths to ground water and respective ground-water elevations

are summarized in Table 1. Current and historic ground-water flow directions and gradients are provided in Table 3. A Site Location Map is provided as Drawing 1. Potentiometric ground-water elevation contours are presented in Drawing 2.

Consistent with the current ground-water sampling schedule, water samples were collected from wells: AW-1, AW-4, AW-5, AW-6, MW-1, MW-3, and RW-1. A slight sheen was observed during sample collection activities at wells MW-1 and RW-1. No other irregularities were reported during sampling. Samples were submitted under chain-of-custody protocol to TestAmerica Laboratories, Inc. (Pleasanton, California), for analysis of Gasoline Range Organics (GRO, C6-12), Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Di-isopropyl ether (DIPE), 1,2-Dibromomethane (EDB), 1,2-Dichloroethane (1,2-DCA), Ethanol, Ethyl tert-butyl ether (ETBE), and Methyl tert-butyl ether (MTBE) by EPA Method 8260B. No irregularities were encountered during laboratory analysis of applicable samples. Bio-degradation parameters were not monitored this quarter. Ground-water sampling field data sheets and the laboratory analytical report, including chain-of-custody documentation, are provided in Appendix A.

Gasoline range organics (GRO) were detected above the laboratory reporting limits in four of the seven wells sampled at concentrations up to 4,900 micrograms per liter ($\mu\text{g/L}$) in well AW-1. Benzene was detected above the laboratory reporting limit in two of the seven wells sampled at concentrations of 260 $\mu\text{g/L}$ in well AW-1 and 1.2 $\mu\text{g/L}$ in well MW-1. Ethylbenzene was detected above the laboratory reporting limit in four of the seven wells sampled at concentrations up to 540 $\mu\text{g/L}$ in well AW-1. Total Xylenes were detected above the laboratory reporting limit in three of the seven wells sampled at concentrations up to 180 $\mu\text{g/L}$ in well AW-1. TAME was detected above the laboratory reporting limit in three of the seven wells sampled at concentrations up to 22 $\mu\text{g/L}$ in well AW-6. TBA was detected above the laboratory reporting limit in two of the seven wells sampled at concentrations of 52 $\mu\text{g/L}$ in well AW-5 and 83 $\mu\text{g/L}$ in well AW-6. MTBE was detected above the laboratory reporting limit in three of the seven wells sampled at concentrations up to 93 $\mu\text{g/L}$ in well AW-6. The remaining analytes were not detected above their laboratory reporting limits in the seven wells sampled this quarter. Historic laboratory analytical results are summarized in Table 1, Table 2 and Table 4. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 2. Ground-water monitoring data (GEO_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 Database. Upload confirmation receipts are provided in Appendix B.

CONSLUSIONS AND RECOMMENDATIONS:

Water level elevations were between historic minimum and maximum ranges for each well. The potentiometric ground-water flow direction and gradient of 0.008 ft/ft to the west is consistent with historical data. Detected concentrations of petroleum hydrocarbons were within the historic minimum and maximum ranges recorded for each well sampled this quarter with the following exceptions: MTBE reached a historic minimum concentration in well AW-4 and TBA reached a historic minimum concentration in well AW-5. A work plan detailing additional injection well installation and sulfate injection pilot testing activities will be submitted during the Second Quarter of 2010. No environmental work is scheduled to occur at the site during the Second Quarter of 2010. The next semi-annual ground-water monitoring and sampling event will be conducted during the Third Quarter of 2010.

CLOSURE:

The findings presented in this report are based upon: observations of BAI field personnel (see Appendix A), the points investigated, and results of laboratory tests performed by TestAmerica (Pleasanton, California). Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was

made. This report has been prepared for the exclusive use of ARCADIS-US, Inc. and Atlantic Richfield Company (a BP affiliated company). It is possible that variations in soil or ground-water conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

ATTACHMENTS:

- Drawing 1. Site Location Map, Former BP Service Station #11133, 2220 98th Avenue, Oakland, California
- Drawing 2. Ground-Water Elevation Contour and Analytical Summary Map, March 18, 2010, Former BP Service Station #11133, 2220 98th Avenue, Oakland, California
- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #11133, 2220 98th Avenue, Oakland, California
- Table 2. Summary of Fuel Additives Analytical Data, Station #11133, 2220 98th Avenue, Oakland, California
- Table 3. Historical Ground-Water Flow Direction and Gradient, Station #11133, 2220 98th Avenue, Oakland, California
- Table 4. Bio-Degradation Parameters, Station #11133, 2220 98th Avenue, Oakland, California
- Appendix A. BAI Ground-Water Sampling Data (Includes Field Data Sheets, Laboratory Report, Chain-of-Custody Documentation, Non-Hazardous Waste Data Form, and Field Procedures)
- Appendix B. GeoTracker Upload Confirmations

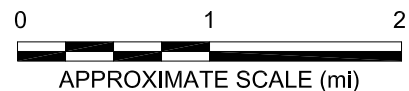
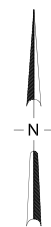
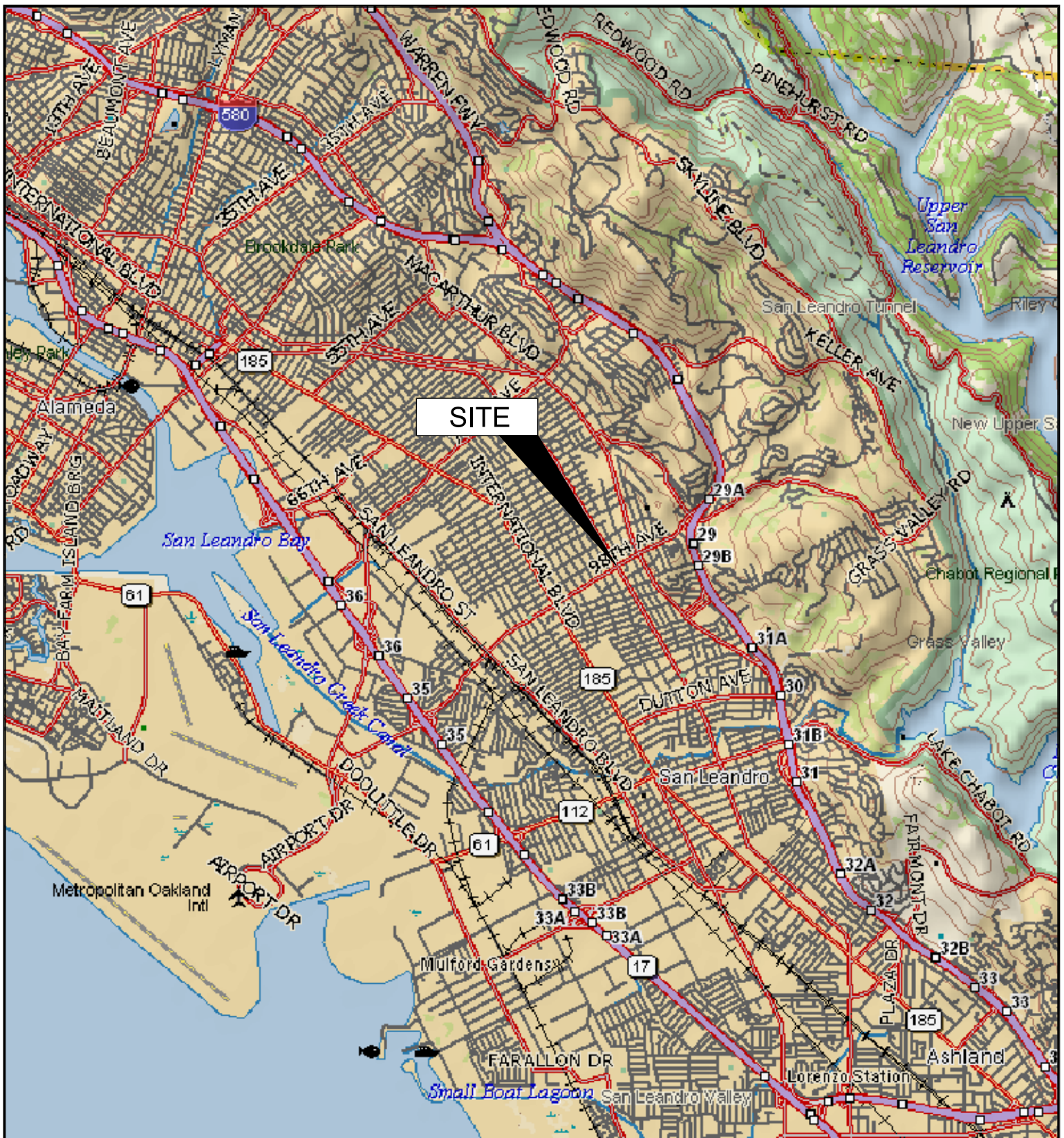


IMAGE SOURCE: DELORME

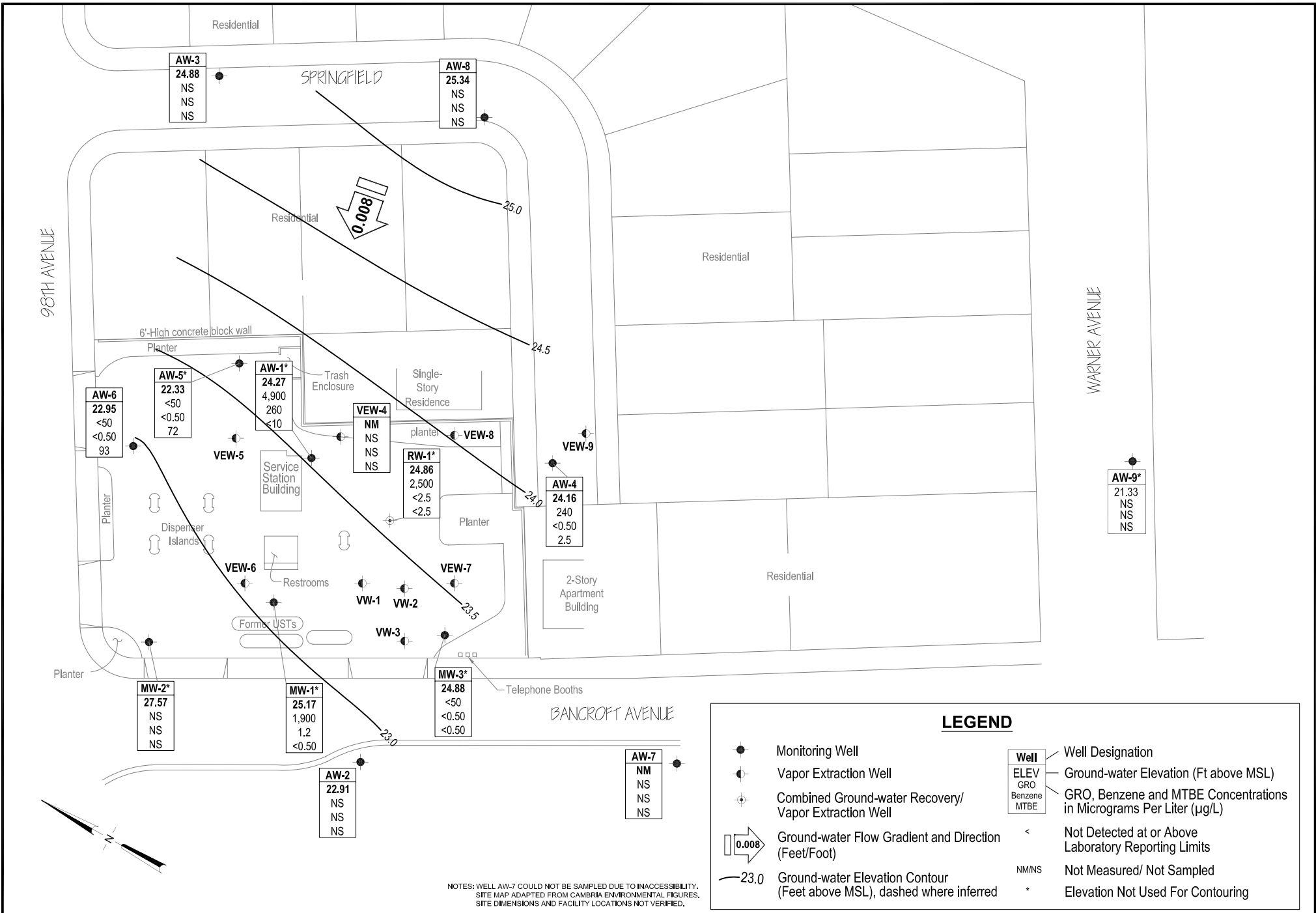
BROADBENT & ASSOCIATES, INC.
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
 1324 Mangrove Ave. Suite 212, Chico, California 95926
 Project No.: 06-88-656 Date: 9/30/2009

Former BP Service Station #11133
 2220 98th Avenue
 Oakland, California

Site Location Map

Drawing

1



AW-3
24.88
NS
NS
NS

AW-8
25.34
NS
NS
NS

AW-5*
22.33
<50
<0.50
72

AW-1*
24.27
4,900
260
<10

VEW-4
NM
NS
NS
NS

RW-1*
24.86
2,500
<2.5
<2.5

AW-4
24.16
240
<0.50
2.5

AW-9*
21.33
NS
NS
NS

MW-2*
27.57
NS
NS
NS

MW-1*
25.17
1,900
1.2
<0.50

MW-3*
24.88
<50
<0.50
<0.50

AW-2
22.91
NS
NS
NS

AW-7
NM
NS
NS
NS

LEGEND

- Monitoring Well
- ⊕ Vapor Extraction Well
- ⊕ Combined Ground-water Recovery/Vapor Extraction Well
- ↔ 0.008 Ground-water Flow Gradient and Direction (Feet/Foot)
- 23.0 Ground-water Elevation Contour (Feet above MSL), dashed where inferred
- Well Designation
- ELEV Ground-water Elevation (Ft above MSL)
- GRO GRO, Benzene and MTBE Concentrations in Micrograms Per Liter (µg/L)
- MTBE
- < Not Detected at or Above Laboratory Reporting Limits
- NM/NS Not Measured/ Not Sampled
- * Elevation Not Used For Contouring

NOTES: WELL AW-7 COULD NOT BE SAMPLED DUE TO INACCESSIBILITY. SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



BROADBENT & ASSOCIATES, INC.
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
 1324 Mangrove Ave. Suite 212, Chico, California 95926
 Project No.: 09-88-656 Date: 04/13/10

Former BP Service Station #11133
 2220 98th Avenue
 Oakland, California

Ground-Water Elevation Contour
 and Analytical Summary Map
 18 March 2010

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-1															
4/5/1991	--	38.11	25.44	--	12.67	4,100	1,500	69	100	83	--	--	SUP	--	
4/1/1992	--	38.11	23.22	--	14.89	--	--	--	--	--	--	--	--	--	
4/2/1992	--	38.11	--	--	--	11,000	1,800	210	210	490	--	--	APP	--	
7/6/1992	--	38.11	24.89	--	13.22	6,500	4,000	40	290	530	--	--	ANA	--	
10/7/1992	--	38.11	26.55	--	11.56	4,700	1,500	41	47	300	--	--	ANA	--	
10/7/1992	--	38.11	--	--	--	2,900	1,200	25	37	210	--	--	ANA	--	e
1/14/1993	--	38.11	23.73	--	14.38	2,800	830	31	140	240	--	--	PACE	--	m
1/14/1993	--	38.11	--	--	--	4,100	1,700	28	130	230	--	--	PACE	--	m, e
4/22/1993	--	38.11	--	--	--	39,000	14,000	530	1,800	6,100	987	--	PACE	--	c, m
7/15/1993	--	38.11	22.50	--	15.61	6,200	2,200	28	210	540	838	--	PACE	--	c, m
10/21/1993	--	38.11	24.32	--	13.79	2,400	820	13	55	120	832	--	PACE	--	c, m
1/27/1994	--	38.11	23.72	--	14.39	3,500	1,400	26	130	220	650	--	PACE	--	c, n
4/21/1994	--	38.11	22.48	--	15.63	40,000	12,000	1,900	1,600	5,000	1,119	1.4	PACE	--	m
9/9/1994	--	38.11	23.04	--	15.07	3,500	1,600	5	200	250	--	2.1	PACE	--	m
9/9/1994	--	38.11	--	--	--	3,900	1,900	5.5	190	240	--	--	PACE	--	e
12/21/1994	--	38.11	21.70	--	16.41	7,600	3,100	36	370	320	855	1.6	PACE	--	m
1/30/1995	--	38.11	17.71	--	20.40	35,000	23,000	650	3,200	4,100	--	1.7	ATI	--	
4/10/1995	--	38.11	20.04	--	18.07	60,000	18,000	2,000	4,300	11,000	--	7.9	ATI	--	
4/10/1995	--	38.11	--	--	--	56,000	17,000	2,000	3,900	10,000	--	--	ATI	--	e
6/29/1995	--	38.11	--	--	--	86,000	12,000	8,400	4,800	18,000	--	--	ATI	--	e
6/29/1995	--	38.11	20.60	--	17.51	72,000	10,000	7,300	4,200	15,000	--	6.2	ATI	--	
9/18/1995	--	38.11	21.87	--	16.24	--	--	--	--	--	--	--	--	--	
9/19/1995	--	38.11	--	--	--	65,000	12,000	3,100	4,400	14,000	1,000	8.5	ATI	--	
12/7/1995	--	38.11	22.06	--	16.05	25,000	8,700	<50	2,500	1,300	1,100	2.9	ATI	--	
3/28/1996	--	38.11	16.91	--	21.20	24,000	11,000	<100	3,200	3,390	<1000	6.6	SPL	--	
6/20/1996	--	38.11	20.82	--	17.29	38,000	6,900	1,100	3,200	7,300	<100	6.4	SPL	--	
10/11/1996	--	38.11	23.20	--	14.91	33,000	8,500	69	3,300	4,230	580	6.3	SPL	--	
1/2/1997	--	38.11	20.41	--	17.70	32,000	8,000	<50	3,100	2,300	700	6.7	SPL	--	
4/14/1997	--	38.11	21.61	--	16.50	--	--	--	--	--	--	--	--	--	
4/15/1997	--	38.11	--	--	--	31,000	5,000	160	2,400	4,540	340	5.4	SPL	--	
7/2/1997	--	38.11	21.17	--	16.94	26,000	5,800	<100	2,600	2,200	<1000	6.2	SPL	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-1 Cont.															
9/30/1997	--	38.11	21.48	--	16.63	29,000	9,200	17	1,400	130	560	6.9	SPL	--	
1/21/1998	--	38.11	20.02	--	18.09	50,000	6,900	450	3,200	4,450	720	5.8	SPL	--	
4/9/1998	--	38.11	13.37	--	24.74	--	--	--	--	--	--	--	--	--	
4/10/1998	--	38.11	--	--	--	46,000	5,800	1,900	3,000	7,400	1,000	4.3	SPL	--	
6/19/1998	--	38.11	19.12	--	18.99	42,000	6,600	200	3,000	3,350	660	4.9	SPL	--	
6/19/1998	--	38.11	--	--	--	43,000	6,800	260	3,100	3,490	620	--	SPL	--	e
11/30/1998	--	38.11	21.13	--	16.98	23,000	6,700	<25	3,100	130	710/820	--	SPL	--	g
1/21/1999	--	38.11	20.77	--	17.34	25,000	4,800	54	2,800	780	1,000	--	SPL	--	
4/30/1999	--	38.11	20.80	--	17.31	21,000	5,300	67	2,800	750	1,500	--	SPL	--	
7/9/1999	--	38.11	20.41	--	17.70	11,000	3,000	<10	760	180	1,300	--	SPL	--	
11/3/1999	--	38.11	20.82	--	17.29	--	--	--	--	--	--	--	--	--	
1/12/2000	--	38.11	19.99	--	18.12	330,000	5,300	10	2,900	560	2,200	--	PACE	--	
4/13/2000	--	38.11	20.14	--	17.97	--	--	--	--	--	--	--	--	--	
5/24/2000	--	38.11	20.17	--	17.94	--	--	--	--	--	--	--	--	--	
6/1/2000	--	38.11	23.05	--	15.06	--	--	--	--	--	--	--	--	--	
6/8/2000	--	38.11	17.08	--	21.03	--	--	--	--	--	--	--	--	--	
6/15/2000	--	38.11	16.93	--	21.18	--	--	--	--	--	--	--	--	--	
7/26/2000	--	38.11	20.07	--	18.04	15,000	290	98	77	220	37,000	--	PACE	--	
10/24/2000	--	38.11	20.10	--	18.01	--	--	--	--	--	--	--	--	--	
1/19/2001	--	38.11	19.82	--	18.29	7,600	2,220	10.9	415	58.4	1,630	--	PACE	--	
7/24/2001	--	38.11	19.86	--	18.25	9,600	2,140	6.34	281	43	1,440	--	PACE	--	
1/18/2002	--	38.11	15.60	--	22.51	20,000	2,170	75.2	1,800	2,080	1,250	--	PACE	--	
8/1/2002	--	38.11	19.55	--	18.56	14,000	2,150	<12.5	197	42.4	1,120	--	PACE	--	
1/16/2003	--	38.11	16.32	--	21.79	15,000	2,300	75	1,600	1,800	1,100	--	SEQ	--	p
7/7/2003	--	38.11	19.80	--	18.31	9,700	1,600	<25	540	110	1,100	--	SEQ	--	q, u
02/05/2004	--	38.11	18.75	--	19.36	12,000	2,000	<50	820	590	930	--	SEQM	6.7	
07/01/2004	P	38.11	19.72	--	18.39	9,900	2,600	<25	300	<25	1,100	--	SEQM	6.5	
03/16/2005	P	38.11	18.78	--	19.33	10,000	1,100	30	630	560	720	0.8	SEQM	6.7	
07/22/2005	P	38.11	15.53	--	22.58	8,000	770	5.4	520	50	510	--	SEQM	6.5	
01/25/2006	P	38.11	18.10	--	20.01	6,400	1,200	10	490	290	490	--	SEQM	7.0	
7/6/2006	P	38.11	17.44	--	20.67	6,200	1,300	70	570	180	270	--	TAMC	6.8	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-1 Cont.															
1/8/2007	P	38.11	16.74	--	21.37	3700	690	19	110	30	380	2.53	TAMC	6.77	
7/10/2007	P	38.11	17.30	--	20.81	4,200	560	12	93	40	220	1.79	TAMC	6.90	
1/15/2008	P	38.11	15.96	--	22.15	5,000	670	<10	490	200	230	0.92	TAMC	6.91	
7/15/2008	P	38.11	18.63	--	19.48	3,400	340	4.5	27	17	<0.50	1.80	CEL	6.79	
10/21/2008	P	38.11	19.96	--	18.15	1,900	160	<5.0	15	<5.0	120	2.40	CEL	7.01	
1/6/2009	P	38.11	19.13	--	18.98	5,000	670	<5.0	84	<5.0	170	1.37	CEL	6.09	
4/21/2009	P	38.11	16.96	--	21.15	7,900	510	<10	90	46	160	2.29	CEL	7.28	
7/21/2009	P	38.11	18.72	--	19.39	5,900	560	<10	92	10	170	17.46	CEL	7.23	y
3/18/2010	P	38.11	13.84	--	24.27	4,900	260	<10	540	180	<10	0.68	TAMC	6.57	
AW-2															
4/5/1991	--	36.83	22.36	--	14.47	<50	<0.3	<0.3	<0.3	<0.3	--	--	SUP	--	
4/1/1992	--	36.83	20.81	--	16.02	--	--	--	--	--	--	--	--	--	
4/2/1992	--	36.83	--	--	--	130	25	2.3	0.7	2.1	--	--	APP	--	
7/6/1992	--	36.83	23.57	--	13.26	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
10/7/1992	--	36.83	25.24	--	11.59	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
1/14/1993	--	36.83	20.82	--	16.01	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
4/22/1993	--	36.83	19.37	--	17.46	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
7/15/1993	--	36.83	21.29	--	15.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	m
10/21/1993	--	36.83	23.14	--	13.69	<50	1.3	1.1	0.9	2.1	<5.0	--	PACE	--	m
1/27/1994	--	36.83	22.34	--	14.49	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
4/21/1994	--	36.83	21.15	--	15.68	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.0	PACE	--	m
9/9/1994	--	36.83	22.09	--	14.74	<50	<0.5	<0.5	<0.5	<0.5	--	4.1	PACE	--	m
12/21/1994	--	36.83	20.12	--	16.71	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.0	PACE	--	m
1/30/1995	--	36.83	16.65	--	20.18	<50	<0.50	<0.50	<0.50	<1.0	--	2.5	ATI	--	
4/10/1995	--	36.83	16.22	--	20.61	<50	<0.50	<0.50	<0.50	<1.0	--	4.4	ATI	--	
6/29/1995	--	36.83	17.55	--	19.28	<50	<0.50	<0.50	<0.50	<1.0	--	7.8	ATI	--	
9/18/1995	--	36.83	19.87	--	16.96	--	--	--	--	--	--	--	--	--	
9/19/1995	--	36.83	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	e
9/19/1995	--	36.83	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	4.5	ATI	--	
12/7/1995	--	36.83	21.31	--	15.52	<50	<0.50	<0.50	<0.50	<1.0	<5.0	4.9	ATI	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-2 Cont.															
3/28/1996	--	36.83	15.61	--	21.22	<50	<0.5	<1	<1	<1	<10	4.1	SPL	--	
6/20/1996	--	36.83	16.30	--	20.53	<50	<0.5	<1	<1	<1	<10	5.2	SPL	--	
10/11/1996	--	36.83	19.60	--	17.23	<50	<0.5	<1.0	<1.0	<1.0	<10	6.0	SPL	--	
1/2/1997	--	36.83	15.97	--	20.86	<50	<0.5	<1.0	<1.0	<1.0	<10	6.1	SPL	--	
4/14/1997	--	36.83	17.19	--	19.64	<50	<0.5	<1.0	<1.0	<1.0	<10	5.3	SPL	--	
7/2/1997	--	36.83	18.11	--	18.72	<50	<0.5	<1.0	<1.0	<1.0	<10	5.7	SPL	--	
9/30/1997	--	36.83	18.52	--	18.31	<50	<0.5	<1.0	<1.0	<1.0	860	5.4	SPL	--	
1/21/1998	--	36.83	14.46	--	22.37	160	13	<1.0	<1.0	<1.0	110	4.9	SPL	--	
4/9/1998	--	36.83	12.85	--	23.98	--	--	--	--	--	--	--	--	--	
4/10/1998	--	36.83	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	3.9	SPL	--	
6/19/1998	--	36.83	14.37	--	22.46	60	<0.5	<1.0	<1.0	<1.0	<10	3.6	SPL	--	
11/30/1998	--	36.83	16.90	--	19.93	--	--	--	--	--	--	--	--	--	
1/21/1999	--	36.83	16.87	--	19.96	<50	<1.0	<1.0	<1.0	<1.0	<1.0	--	SPL	--	
4/30/1999	--	36.83	17.01	--	19.82	--	--	--	--	--	--	--	--	--	
7/9/1999	--	36.83	17.83	--	19.00	--	--	--	--	--	--	--	--	--	
11/3/1999	--	36.83	19.74	--	17.09	--	--	--	--	--	--	--	--	--	
1/12/2000	--	36.83	19.90	--	16.93	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--	
4/13/2000	--	36.83	19.75	--	17.08	--	--	--	--	--	--	--	--	--	
7/26/2000	--	36.83	19.86	--	16.97	--	--	--	--	--	--	--	--	--	
10/24/2000	--	36.83	18.77	--	18.06	--	--	--	--	--	--	--	--	--	
1/19/2001	--	36.83	--	--	--	--	--	--	--	--	--	--	--	--	f
7/24/2001	--	36.83	--	--	--	--	--	--	--	--	--	--	--	--	f
1/18/2002	--	36.83	15.17	--	21.66	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	PACE	--	
8/1/2002	--	36.83	17.17	--	19.66	--	--	--	--	--	--	--	--	--	
1/16/2003	--	36.83	14.81	--	22.02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	SEQ	--	p
7/7/2003	--	36.83	16.65	--	20.18	--	--	--	--	--	--	--	--	--	
02/05/2004	--	36.83	15.37	--	21.46	<50	3.0	<0.50	<0.50	<0.50	5.1	--	SEQM	6.6	
07/01/2004	--	36.83	17.55	--	19.28	--	--	--	--	--	--	--	--	--	
03/16/2005	P	36.83	14.58	--	22.25	<50	0.75	<0.50	1.1	1.1	<0.50	1.7	SEQM	6.7	
07/22/2005	--	36.83	15.41	--	21.42	--	--	--	--	--	--	--	--	--	
01/25/2006	P	36.83	14.17	--	22.66	280	110	<1.0	3.9	8.7	12	--	SEQM	7.1	

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Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-2 Cont.															
7/6/2006	--	36.83	14.00	--	22.83	--	--	--	--	--	--	--	--	--	
1/8/2007	P	36.83	15.85	--	20.98	1900	550	160	58	180	40	2.09	TAMC	7.2	
7/10/2007	--	36.83	17.25	--	19.58	--	--	--	--	--	--	--	--	--	
1/15/2008	P	36.83	15.75	--	21.08	2,300	900	87	100	140	48	0.83	TAMC	6.79	
7/15/2008	P	36.83	17.99	--	18.84	6,400	1,700	550	340	940	<50	2.14	CEL	7.05	
10/21/2008	P	36.83	19.19	--	17.64	2,600	580	96	110	180	16	1.65	CEL	7.33	
1/6/2009	P	36.83	18.45	--	18.38	2,100	440	54	67	110	11	0.84	CEL	6.94	
4/21/2009	P	36.83	16.05	--	20.78	3,400	600	140	99	190	10	1.89	CEL	7.42	
7/21/2009	P	36.83	18.07	--	18.76	3,200	550	150	98	220	13	9.29	CEL	7.32	y
3/18/2010	--	36.83	13.92	--	22.91	--	--	--	--	--	--	--	--	--	
AW-3															
4/5/1991	--	39.13	23.90	--	15.23	5,200	980	450	95	310	--	--	SUP	--	
4/1/1992	--	39.13	22.50	--	16.63	4,700	890	47	43	110	--	--	APP	--	
7/6/1992	--	39.13	23.26	--	15.87	3,900	3,100	30	80	99	--	--	ANA	--	
10/7/1992	--	39.13	24.75	--	14.38	5,000	2,600	<0.5	<0.5	59	--	--	ANA	--	
1/14/1993	--	39.13	23.59	--	15.54	350	250	<0.5	<0.5	<0.5	--	--	PACE	--	m
4/22/1993	--	39.13	19.42	--	19.71	240	71	2.4	0.6	4	--	--	PACE	--	m
7/15/1993	--	39.13	20.09	--	19.04	650	71	2.8	1.5	1.1	37.3	--	PACE	--	c, m
10/21/1993	--	39.13	--	--	--	170	6.1	2	1.7	4.4	--	--	PACE	--	e
10/21/1993	--	39.13	21.88	--	17.25	160	4.8	1.7	1.6	3.6	8.95	--	PACE	--	m
1/27/1994	--	39.13	22.33	--	16.80	92	2.1	<0.5	<0.5	<0.5	7.37	--	PACE	--	m
1/27/1994	--	39.13	--	--	--	90	2.9	0.5	<0.5	<0.5	--	--	PACE	--	e
4/21/1994	--	39.13	20.96	--	18.17	150	3.6	0.8	0.9	2.5	9.36	1.3	PACE	--	m
9/9/1994	--	39.13	21.60	--	17.53	53	<0.5	<0.5	<0.5	<0.5	--	1.9	PACE	--	m
12/21/1994	--	39.13	--	--	--	--	--	--	--	--	--	--	--	--	f
1/30/1995	--	39.13	--	--	--	--	--	--	--	--	--	--	--	--	f
4/10/1995	--	39.13	--	--	--	--	--	--	--	--	--	--	--	--	f
6/29/1995	--	39.13	15.41	--	23.72	<50	<0.50	<0.50	<0.50	<1.0	--	8.0	ATI	--	
9/18/1995	--	39.13	17.83	--	21.30	--	--	--	--	--	--	--	--	--	
9/19/1995	--	39.13	--	--	--	61,000	11,000	2,900	4,100	13,000	790	7.4	ATI	--	

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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-3 Cont.															
12/7/1995	--	39.13	19.27	--	19.86	<50	<0.50	<0.50	<0.50	<1.0	<5.0	3.4	ATI	--	
12/7/1995	--	39.13	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	e
3/28/1996	--	39.13	--	--	--	<50	<0.5	<1	<1	<1	<10	--	SPL	--	e
3/28/1996	--	39.13	13.85	--	25.28	<50	<0.5	<1	<1	<1	<10	4.1	SPL	--	
6/20/1996	--	39.13	14.47	--	24.66	<50	<0.5	<1	<1	<1	<10	4.2	SPL	--	
6/20/1996	--	39.13	--	--	--	<50	<0.5	<1	<1	<1	<10	--	SPL	--	e
10/11/1996	--	39.13	17.97	--	21.16	<50	<0.5	<1.0	<1.0	<1.0	<10	4.7	SPL	--	
10/11/1996	--	39.13	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	--	SPL	--	e
1/2/1997	--	39.13	13.00	--	26.13	<50	<0.5	<1.0	<1.0	<1.0	<10	5.6	SPL	--	
4/14/1997	--	39.13	14.36	--	24.77	<50	<0.5	<1.0	<1.0	<1.0	<10	5.0	SPL	--	
4/15/1997	--	39.13	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	--	SPL	--	e
7/2/1997	--	39.13	15.87	--	23.26	<50	<0.5	<1.0	<1.0	<1.0	<10	5.4	SPL	--	
9/30/1997	--	39.13	17.50	--	21.63	<250	<2.5	<5.0	<5.0	<5.0	810	5.7	SPL	--	
1/21/1998	--	39.13	11.98	--	27.15	140	<0.5	<1.0	<1.0	<1.0	99	4.6	SPL	--	
1/21/1998	--	39.13	--	--	--	150	<0.5	<1.0	<1.0	1.2	110	--	SPL	--	e
4/9/1998	--	39.13	9.45	--	29.68	--	--	--	--	--	--	--	--	--	
4/10/1998	--	39.13	--	--	--	<50	<0.5	<1.0	<1.0	1.6	<10	4.5	SPL	--	
4/10/1998	--	39.13	--	--	--	<50	<0.5	<1.0	1.4	1.7	<10	--	SPL	--	e
6/19/1998	--	39.13	12.13	--	27.00	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	SPL	--	
11/30/1998	--	39.13	15.91	--	23.22	--	--	--	--	--	--	--	--	--	
1/21/1999	--	39.13	15.93	--	23.20	<50	<1.0	<1.0	<1.0	<1.0	<1.0	--	SPL	--	
4/30/1999	--	39.13	15.98	--	23.15	--	--	--	--	--	--	--	--	--	
7/9/1999	--	39.13	14.58	--	24.55	--	--	--	--	--	--	--	--	--	
11/3/1999	--	39.13	17.43	--	21.70	--	--	--	--	--	--	--	--	--	
1/12/2000	--	39.13	18.30	--	20.83	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--	
4/13/2000	--	39.13	18.89	--	20.24	--	--	--	--	--	--	--	--	--	
7/26/2000	--	39.13	18.67	--	20.46	--	--	--	--	--	--	--	--	--	
10/24/2000	--	39.13	18.98	--	20.15	--	--	--	--	--	--	--	--	--	
1/19/2001	--	39.13	16.74	--	22.39	--	--	--	--	--	--	--	--	--	
7/24/2001	--	39.13	18.55	--	20.58	--	--	--	--	--	--	--	--	--	
1/18/2002	--	39.13	14.49	--	24.64	--	--	--	--	--	--	--	--	--	

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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-3 Cont.															
8/1/2002	--	39.13	14.27	--	24.86	--	--	--	--	--	--	--	--	--	
1/16/2003	--	39.13	14.25	--	24.88	--	--	--	--	--	--	--	--	--	
7/7/2003	--	39.13	14.70	--	24.43	--	--	--	--	--	--	--	--	--	
02/05/2004	--	39.13	14.61	--	24.52	--	--	--	--	--	--	--	--	--	
07/01/2004	--	39.13	15.62	--	23.51	--	--	--	--	--	--	--	--	--	
03/16/2005	P	39.13	12.70	--	26.43	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	SEQM	7.3	
07/22/2005	--	39.13	13.44	--	25.69	--	--	--	--	--	--	--	--	--	
01/25/2006	--	39.13	13.56	--	25.57	--	--	--	--	--	--	--	--	--	
7/6/2006	--	39.13	11.60	--	27.53	--	--	--	--	--	--	--	--	--	
1/8/2007	--	39.13	14.97	--	24.16	--	--	--	--	--	--	--	--	--	
7/10/2007	--	39.13	15.81	--	23.32	--	--	--	--	--	--	--	--	--	
1/15/2008	--	39.13	15.97	--	23.16	--	--	--	--	--	--	--	--	--	
7/15/2008	--	39.13	16.70	--	22.43	--	--	--	--	--	--	--	--	--	
10/21/2008	--	39.13	18.16	--	20.97	--	--	--	--	--	--	--	--	--	
1/6/2009	--	39.13	18.35	--	20.78	--	--	--	--	--	--	--	--	--	
4/21/2009	--	39.13	15.57	--	23.56	--	--	--	--	--	--	--	--	--	
7/21/2009	--	39.13	17.22	--	21.91	--	--	--	--	--	--	--	--	--	
3/18/2010	--	39.13	14.25	--	24.88	--	--	--	--	--	--	--	--	--	
AW-4															
4/5/1991	--	39.08	25.12	--	13.96	110,000	40,000	13,000	2,000	5,500	--	--	SUP	--	
4/1/1992	--	39.08	--	--	--	210,000	55,000	23,000	2,900	7,000	--	--	APP	--	e
4/1/1992	--	39.08	23.56	--	15.52	230,000	57,000	31,000	2,900	7,600	--	--	APP	--	
7/6/1992	--	39.08	25.87	--	13.21	38,000	16,000	5,400	2,000	6,100	--	--	ANA	--	
10/7/1992	--	39.08	27.53	--	11.55	120,000	41,000	26,000	4,700	13,000	--	--	ANA	--	
1/14/1993	--	39.08	24.12	--	14.96	62,000	18,000	14,000	2,700	7,700	1,400	--	PACE	--	c, m
4/22/1993	--	39.08	21.47	--	17.61	18,000	1,100	2,100	320	3,500	--	--	PACE	--	m
7/15/1993	--	39.08	23.30	--	15.78	21,000	820	2,300	590	3,800	1,978	--	PACE	--	c, m
10/21/1993	--	39.08	25.08	--	14.00	11,000	570	83	630	2,300	4,600	--	PACE	--	c, m
1/27/1994	--	39.08	24.61	--	14.47	12,000	420	460	600	2,200	6,400	--	PACE	--	c, m
4/21/1994	--	39.08	22.96	--	16.12	12,000	110	250	150	1,900	16,010	1.5	PACE	--	c, m

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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-4 Cont.															
4/21/1994	--	39.08	--	--	--	14,000	71	160	29	1,200	13,000	--	PACE	--	c, e
9/9/1994	--	39.08	23.85	--	15.23	9,700	75	64	280	2,000	--	2.1	PACE	--	m
12/21/1994	--	39.08	--	--	--	--	--	--	--	--	--	--	--	--	f
1/30/1995	--	39.08	--	--	--	--	--	--	--	--	--	--	--	--	f
4/10/1995	--	39.08	18.07	--	21.01	3,700	69	8.7	44	130	--	8.5	ATI	--	
6/29/1995	--	39.08	19.25	--	19.83	8,000	62	190	190	1,100	--	7.5	ATI	--	
9/18/1995	--	39.08	20.73	--	18.35	--	--	--	--	--	--	--	--	--	
9/19/1995	--	39.08	--	--	--	12,000	660	1,600	200	1,900	7,100	8.3	ATI	--	
12/7/1995	--	39.08	22.49	--	16.59	41,000	8,400	7,200	710	6,300	5,200	3.6	ATI	--	
3/28/1996	--	39.08	16.49	--	22.59	--	--	--	--	--	--	--	--	--	f
6/20/1996	--	39.08	16.00	--	23.08	<50	<0.5	<1	<1	<1	12	--	SPL	--	
10/11/1996	--	39.08	19.52	--	19.56	36,000	12,000	5,500	<25	3,800	880/1000	6.2	SPL	--	g
1/2/1997	--	39.08	--	--	--	<50	61	3.8	3.5	8.1	110	--	SPL	--	e
1/2/1997	--	39.08	15.80	--	23.28	<50	<0.5	<1.0	<1.0	<1.0	22	6.4	SPL	--	
4/14/1997	--	39.08	17.01	--	22.07	--	--	--	--	--	--	--	--	--	
4/15/1997	--	39.08	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	5.4	SPL	--	
7/2/1997	--	39.08	19.68	--	19.40	<50	21	<1.0	<1.0	<1.0	41	4.1	SPL	--	
9/30/1997	--	39.08	22.71	--	16.37	--	--	--	--	--	--	--	--	--	f
1/21/1998	--	39.08	15.89	--	23.19	13,000	2,900	<10	230	314	3,100	3.9	SPL	--	
4/9/1998	--	39.08	13.50	--	25.58	--	--	--	--	--	--	--	--	--	
4/10/1998	--	39.08	--	--	--	890	<0.5	<1	<1	<1	730	4.9	SPL	--	
6/19/1998	--	39.08	14.75	--	24.33	60	<0.5	<1.0	<1.0	<1.0	34	4.3	SPL	--	
11/30/1998	--	39.08	19.25	--	19.83	--	--	--	--	--	--	--	--	--	
1/21/1999	--	39.08	18.94	--	20.14	3,700	830	93	200	360	30	--	--	--	
4/30/1999	--	39.08	19.10	--	19.98	--	--	--	--	--	--	--	--	--	
7/9/1999	--	39.08	18.93	--	20.15	76,000	12,000	6,600	2,000	8,700	320	--	SPL	--	
11/3/1999	--	39.08	20.65	--	18.43	--	--	--	--	--	--	--	--	--	
1/12/2000	--	39.08	21.21	--	17.87	67,000	12,000	3,500	2,900	15,000	280	--	PACE	--	
4/13/2000	--	39.08	21.33	--	17.75	--	--	--	--	--	--	--	--	--	
5/24/2000	--	39.08	19.84	--	19.24	--	--	--	--	--	--	--	--	--	
6/1/2000	--	39.08	19.04	--	20.04	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-4 Cont.															
6/8/2000	--	39.08	18.32	--	20.76	--	--	--	--	--	--	--	--	--	
6/15/2000	--	39.08	16.70	--	22.38	--	--	--	--	--	--	--	--	--	
7/26/2000	--	39.08	21.50	--	17.58	910	<0.5	<0.5	<0.5	<0.5	3,500	--	PACE	--	
10/24/2000	--	39.08	22.00	--	17.08	--	--	--	--	--	--	--	--	--	
1/19/2001	--	39.08	18.97	--	20.11	6,600	2,460	24	497	534	267	--	PACE	--	
7/24/2001	--	39.08	18.55	--	20.53	5,100	1,080	143	409	827	115	--	PACE	--	
1/18/2002	--	39.08	17.22	--	21.86	3,900	442	241	157	681	85.3	--	PACE	--	
8/1/2002	--	39.08	--	--	--	--	--	--	--	--	--	--	--	--	f
1/16/2003	--	39.08	16.85	--	22.23	2,900	260	160	120	590	<120	--	SEQ	--	p
7/7/2003	--	39.08	17.94	--	21.14	600	90	7.9	18	36	56	--	SEQ	--	q
02/05/2004	--	39.08	16.94	--	22.14	420	40	3.1	15	27	40	--	SEQM	6.8	
07/01/2004	P	39.08	18.24	--	20.84	6,000	970	200	310	1,500	64	--	SEQM	6.7	
03/16/2005	P	39.08	16.16	--	22.92	3,600	71	31	200	870	23	0.6	SEQM	6.5	
07/22/2005	P	39.08	15.89	--	23.19	4,800	750	48	300	840	59	--	SEQM	6.7	
01/25/2006	P	39.08	15.48	--	23.60	<500	13	<5.0	14	62	12	--	SEQM	7.0	
7/6/2006	P	39.08	14.87	--	24.21	2,800	430	21	230	680	39	--	TAMC	6.7	
1/8/2007	P	39.08	16.48	--	22.60	190	6.6	<0.50	4.1	14	38	3.00	TAMC	6.80	
7/10/2007	P	39.08	17.95	--	21.13	160	2.7	<0.50	0.90	1.0	27	2.54	TAMC	7.19	
1/15/2008	P	39.08	17.70	--	21.38	150	<0.50	<0.50	0.71	<0.50	17	1.30	TAMC	6.75	
7/15/2008	P	39.08	18.74	--	20.34	250	44	1.1	44	78	25	2.64	CEL	6.91	
10/21/2008	P	39.08	20.07	--	19.01	270	1.6	<1.0	<1.0	<1.0	18	1.54	CEL	7.25	
1/6/2009	P	39.08	19.45	--	19.63	230	0.88	<0.50	<0.50	<0.50	8.3	0.70	CEL	6.31	
4/21/2009	P	39.08	17.00	--	22.08	260	4.6	1.6	21	28	4.1	3.51	CEL	7.48	
7/21/2009	P	39.08	18.96	--	20.12	200	4.8	<0.50	6.9	2.8	8.6	6.14	CEL	7.04	y
3/18/2010	P	39.08	14.92	--	24.16	240	<0.50	<0.50	15	21	2.5	0.79	TAMC	6.71	
AW-5															
4/5/1991	--	38.51	25.48	--	13.03	420	31	7.5	20	68	--	--	SUP	--	
4/1/1992	--	38.51	23.95	--	14.56	--	--	--	--	--	--	--	--	--	
4/2/1992	--	38.51	--	--	--	4,000	270	63	190	290	--	--	APP	--	
7/6/1992	--	38.51	26.48	--	12.03	1,400	160	<2.5	250	58	--	--	ANA	--	

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Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-5 Cont.															
10/7/1992	--	38.51	28.18	--	10.33	360	12	0.6	8.7	5	--	--	ANA	--	
1/14/1993	--	38.51	24.15	--	14.36	1,700	270	7.5	130	62	--	--	PACE	--	m
4/22/1993	--	38.51	22.43	--	16.08	2,700	780	30	220	180	--	--	PACE	--	m
4/22/1993	--	38.51	--	--	--	3,500	780	29	240	210	--	--	PACE	--	m, e
7/15/1993	--	38.51	--	--	--	1,300	68	8.3	64	99	<50	--	PACE	--	m, e
7/15/1993	--	38.51	24.31	--	14.20	1,300	69	16	67	120	<50	--	PACE	--	m
10/21/1993	--	38.51	26.05	--	12.46	510	9.6	1.5	17	45	75	--	PACE	--	c, m
1/27/1994	--	38.51	26.42	--	12.09	420	3.3	<0.5	1	0.9	48.9	--	PACE	--	m
4/21/1994	--	38.51	24.36	--	14.15	1,000	110	25	56	27	75	1.3	PACE	--	c, m
9/9/1994	--	38.51	24.55	--	13.96	210	<0.5	<0.5	0.5	0.9	--	2.7	PACE	--	m
12/21/1994	--	38.51	--	--	--	340	<0.5	15	3.3	1.4	104	--	PACE	--	m, e
12/21/1994	--	38.51	22.30	--	16.21	410	<0.5	20	4.3	1.4	114	1.1	PACE	--	m
1/30/1995	--	38.51	18.88	--	19.63	210	0.6	11	8.8	2	--	1.5	ATI	--	
4/10/1995	--	38.51	18.44	--	20.07	500	1.4	0.59	6.5	4.3	--	8.3	ATI	--	
6/29/1995	--	38.51	19.92	--	18.59	490	1.2	0.58	7.3	2.2	--	6.9	ATI	--	d
9/18/1995	--	38.51	22.15	--	16.36	--	--	--	--	--	--	--	--	--	
9/19/1995	--	38.51	--	--	--	260	0.62	<0.50	3.1	1.1	110	8.2	ATI	--	
12/7/1995	--	38.51	23.75	--	14.76	60	<0.50	<0.50	<0.50	<1.0	210	4.3	ATI	--	
3/28/1996	--	38.51	17.76	--	20.75	<50	<0.5	<1	<1	<1	63	3.0	SPL	--	
6/20/1996	--	38.51	18.46	--	20.05	<50	<0.5	<1	<1	<1	<10	3.6	SPL	--	
10/11/1996	--	38.51	21.84	--	16.67	<50	<0.5	<1.0	<1.0	<1.0	<10	4.5	SPL	--	
1/2/1997	--	38.51	18.01	--	20.50	<50	<0.5	<1.0	<1.0	<1.0	<10	4.6	SPL	--	
4/14/1997	--	38.51	19.35	--	19.16	<50	<0.5	<1.0	<1.0	<1.0	<10	5.1	SPL	--	
7/2/1997	--	38.51	20.29	--	18.22	<50	<0.5	<1.0	<1.0	<1.0	<10	4.0	SPL	--	
9/30/1997	--	38.51	23.15	--	15.36	<250	<2.5	<5.0	<5.0	<5.0	1,300	6.3	SPL	--	
1/21/1998	--	38.51	17.33	--	21.18	6,100	<0.5	2.1	<1.0	<1.0	3,700	4.5	SPL	--	
4/9/1998	--	38.51	15.25	--	23.26	--	--	--	--	--	--	--	--	--	
4/10/1998	--	38.51	--	--	--	3,500	<0.5	<1.0	<1.0	<1.0	3,000	5.4	SPL	--	
6/19/1998	--	38.51	17.39	--	21.12	3,300	<0.5	<1.0	<1.0	<1.0	2,500	5.2	SPL	--	
11/30/1998	--	38.51	--	--	--	--	--	--	--	--	--	--	--	--	f
1/21/1999	--	38.51	21.22	--	17.29	2,800	<1.0	<1.0	<1.0	<1.0	1,800	--	SPL	--	

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Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-5 Cont.															
4/30/1999	--	38.51	21.50	--	17.01	--	--	--	--	--	--	--	--	--	
7/9/1999	--	38.51	20.15	--	18.36	4,000	<1.0	<1.0	<1.0	<1.0	3400/3500	--	SPL	--	g
11/3/1999	--	38.51	22.04	--	16.47	--	--	--	--	--	--	--	--	--	
1/12/2000	--	38.51	22.59	--	15.92	1,000	7.3	30	6.7	40	4,600	--	PACE	--	j (TPH-g/GRO)
4/13/2000	--	38.51	23.11	--	15.40	--	--	--	--	--	--	--	--	--	
7/26/2000	--	38.51	22.72	--	15.79	1,800	94	35	5.9	27	16,000	--	PACE	--	
10/24/2000	--	38.51	20.15	--	18.36	--	--	--	--	--	--	--	--	--	
1/19/2001	--	38.51	19.79	--	18.72	2,600	<0.5	<0.5	<0.5	<0.5	4,580	--	PACE	--	
7/24/2001	--	38.51	20.17	--	18.34	5,400	18.4	17.2	<12.5	40.8	5,170	--	PACE	--	
1/18/2002	--	38.51	17.34	--	21.17	3,800	343	0.738	<0.5	<1.0	3,750	--	PACE	--	
8/1/2002	--	38.51	19.49	--	19.02	5,300	<12.5	<12.5	<12.5	<25	3,470	--	PACE	--	
1/16/2003	--	38.51	17.30	--	21.21	1,400	140	<10	<10	<10	1,600	--	SEQ	--	p
7/7/2003	--	38.51	18.43	--	20.08	1,400	<10	<10	<10	<10	980	--	SEQ	--	q
02/05/2004	--	38.51	17.24	--	21.27	1,800	<10	<10	<10	<10	810	--	SEQM	6.7	
07/01/2004	P	38.51	19.43	--	19.08	1,100	<5.0	<5.0	<5.0	<5.0	550	--	SEQM	6.6	
03/16/2005	P	38.51	15.30	--	23.21	<5,000	<50	<50	<50	130	890	2.1	SEQM	6.7	
07/22/2005	P	38.51	17.22	--	21.29	<500	5.2	<5.0	<5.0	6.9	390	--	SEQM	6.6	
01/25/2006	P	38.51	15.28	--	23.23	<500	<5.0	<5.0	<5.0	<5.0	26	--	SEQM	7.0	
7/6/2006	P	38.51	15.93	--	22.58	220	<5.0	<5.0	<5.0	<5.0	170	--	TAMC	6.5	
1/8/2007	P	38.51	17.90	--	20.61	170	<2.5	<2.5	<2.5	<2.5	220	5.22	TAMC	6.84	
7/10/2007	P	38.51	19.00	--	19.51	350	<2.5	<2.5	<2.5	<2.5	360	1.96	TAMC	7.02	
1/15/2008	P	38.51	18.16	--	20.35	130	0.54	<0.50	<0.50	<0.50	85	0.90	TAMC	6.82	w
7/15/2008	P	38.51	19.88	--	18.63	100	<0.50	<0.50	<0.50	<0.50	11	2.13	CEL	6.85	
10/21/2008	P	38.51	20.88	--	17.63	86	<0.50	<0.50	<0.50	<0.50	63	1.01	CEL	7.10	
1/6/2009	P	38.51	20.28	--	18.23	150	<1.0	<1.0	<1.0	<1.0	26	0.70	CEL	6.22	
4/21/2009	P	38.51	18.07	--	20.44	100	<0.50	<0.50	<0.50	<0.50	5.1	2.09	CEL	7.35	
7/21/2009	P	38.51	19.70	--	18.81	83	<0.50	<0.50	<0.50	<0.50	25	6.50	CEL	7.14	y
3/18/2010	P	38.51	16.18	--	22.33	<50	<0.50	<0.50	<0.50	<1.0	72	0.74	TAMC	6.64	
AW-6															
4/5/1991	--	37.08	22.48	--	14.60	1,100	80	19	1.4	230	--	--	SUP	--	

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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-6 Cont.															
4/1/1992	--	37.08	22.50	--	14.58	--	--	--	--	--	--	--	--	--	
4/2/1992	--	37.08	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	APP	--	
7/6/1992	--	37.08	22.74	--	14.34	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
10/7/1992	--	37.08	24.64	--	12.44	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
1/14/1993	--	37.08	22.36	--	14.72	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
4/22/1993	--	37.08	22.82	--	14.26	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
7/15/1993	--	37.08	20.49	--	16.59	<50	<0.5	<0.5	<0.5	0.8	<5.0	--	PACE	--	m
10/21/1993	--	37.08	22.84	--	14.24	<50	0.5	0.6	<0.5	0.7	<5.0	--	PACE	--	m
1/27/1994	--	37.08	22.33	--	14.75	<50	<0.5	0.9	3.1	12	<5.0	--	PACE	--	m
4/21/1994	--	37.08	20.66	--	16.42	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.7	PACE	--	m
9/9/1994	--	37.08	21.57	--	15.51	<50	0.9	<0.5	<0.5	0.5	--	2.9	PACE	--	m
12/21/1994	--	37.08	19.40	--	17.68	<50	1.8	0.8	0.8	3.2	5.19	1.1	PACE	--	m
1/30/1995	--	37.08	16.74	--	20.34	<50	<0.50	<0.50	<0.50	<1.0	--	2.2	ATI	--	
1/30/1995	--	37.08	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	e
4/10/1995	--	37.08	16.01	--	21.07	<50	<0.50	<0.50	<0.50	<1.0	--	8.6	ATI	--	
6/29/1995	--	37.08	17.54	--	19.54	<50	<0.50	<0.50	<0.50	<1.0	--	6.3	ATI	--	
9/18/1995	--	37.08	19.65	--	17.43	--	--	--	--	--	--	--	--	--	
9/19/1995	--	37.08	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	25	8.3	ATI	--	
12/7/1995	--	37.08	20.35	--	16.73	<50	<0.50	<0.50	<0.50	<1.0	16	4.7	ATI	--	
3/28/1996	--	37.08	14.99	--	22.09	<50	<0.5	<1	<1	<1	<10	4.0	SPL	--	
6/20/1996	--	37.08	15.59	--	21.49	<50	<0.5	<1	<1	<1	<10	4.6	SPL	--	
10/11/1996	--	37.08	19.09	--	17.99	<50	<0.5	<1.0	<1.0	<1.0	<10	5.3	SPL	--	
1/2/1997	--	37.08	15.11	--	21.97	<50	<0.5	<1.0	<1.0	<1.0	<10	5.5	SPL	--	
4/14/1997	--	37.08	16.25	--	20.83	<50	<0.5	<1.0	<1.0	<1.0	<10	3.9	SPL	--	
7/2/1997	--	37.08	17.99	--	19.09	<50	<0.5	<1.0	<1.0	<1.0	<10	5.2	SPL	--	
9/30/1997	--	37.08	20.50	--	16.58	<50	<0.5	<1.0	<1.0	<1.0	<10	6.0	SPL	--	
1/21/1998	--	37.08	15.72	--	21.36	160	<0.5	<1.0	<1.0	<1.0	110	5.0	SPL	--	
4/9/1998	--	37.08	13.31	--	23.77	--	--	--	--	--	--	--	--	--	
4/10/1998	--	37.08	--	--	--	370	<0.5	<1.0	<1.0	<1.0	300	4.3	SPL	--	
6/19/1998	--	37.08	15.18	--	21.90	830	2	<1.0	<1.0	<1.0	690	4.0	SPL	--	
11/30/1998	--	37.08	--	--	--	--	--	--	--	--	--	--	--	--	f

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Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-6 Cont.															
1/21/1999	--	37.08	15.78	--	21.30	2,300	<1.0	<1.0	<1.0	<1.0	1,900	--	SPL	--	
4/30/1999	--	37.08	16.01	--	21.07	--	--	--	--	--	--	--	--	--	
7/9/1999	--	37.08	17.63	--	19.45	--	--	--	--	--	--	--	--	--	
11/3/1999	--	37.08	18.42	--	18.66	--	--	--	--	--	--	--	--	--	
1/12/2000	--	37.08	19.92	--	17.16	<50	<0.5	<0.5	<0.5	<0.5	2,700	--	PACE	--	
4/13/2000	--	37.08	19.87	--	17.21	--	--	--	--	--	--	--	--	--	
7/26/2000	--	37.08	19.99	--	17.09	--	--	--	--	--	--	--	--	--	
10/24/2000	--	37.08	18.12	--	18.96	--	--	--	--	--	--	--	--	--	
1/19/2001	--	37.08	17.04	--	20.04	2,700	<0.5	<0.5	<0.5	<0.5	4,850	--	PACE	--	
7/24/2001	--	37.08	17.83	--	19.25	--	--	--	--	--	--	--	--	--	
1/18/2002	--	37.08	15.54	--	21.54	5,500	614	<0.5	<0.5	<1.0	5,390	--	PACE	--	
8/1/2002	--	37.08	16.98	--	20.10	--	--	--	--	--	--	--	--	--	
1/16/2003	--	37.08	15.05	--	22.03	2,900	<20	<20	<20	63	2,500	--	SEQ	--	p
7/7/2003	--	37.08	16.58	--	20.50	--	--	--	--	--	--	--	--	--	
02/05/2004	--	37.08	15.84	--	21.24	7,000	<50	<50	<50	<50	5,400	--	SEQM	6.7	
07/01/2004	P	37.08	17.91	--	19.17	9,600	<50	<50	<50	<50	4,600	--	SEQM	6.5	
03/16/2005	P	37.08	16.04	--	21.04	6,700	<25	<25	<25	<25	4,400	3.0	SEQM	6.8	
07/22/2005	P	37.08	14.20	--	22.88	<5,000	<50	<50	<50	<50	5,500	--	SEQM	6.7	
01/25/2006	P	37.08	14.17	--	22.91	<5,000	<50	<50	<50	<50	3,000	--	SEQM	7.0	
7/6/2006	P	37.08	14.82	--	22.26	3,100	<50	<50	<50	<50	2,800	--	TAMC	6.5	
1/8/2007	P	37.08	15.72	--	21.36	5100	<50	<50	<50	<50	7400	3.18	TAMC	6.78	
7/10/2007	P	37.08	16.99	--	20.09	3,700	<100	<100	<100	<100	3,900	2.09	TAMC	6.83	w
1/15/2008	P	37.08	15.55	--	21.53	120	1.1	<1.0	<1.0	<1.0	150	0.58	TAMC	6.80	w
7/15/2008	P	37.08	17.84	--	19.24	130	<0.50	<0.50	<0.50	<0.50	270	2.12	CEL	6.87	
10/21/2008	P	37.08	18.92	--	18.16	81	<5.0	<5.0	<5.0	<5.0	160	1.01	CEL	7.19	
1/6/2009	P	37.08	18.37	--	18.71	76	<5.0	<5.0	<5.0	<5.0	97	0.94	CEL	6.23	
4/21/2009	P	37.08	15.97	--	21.11	<50	<0.50	<0.50	<0.50	<0.50	22	4.29	CEL	7.38	
7/21/2009	P	37.08	17.90	--	19.18	76	<0.50	<0.50	<0.50	<0.50	93	10.79	CEL	7.09	y
3/18/2010	P	37.08	14.13	--	22.95	<50	<0.50	<0.50	<0.50	<1.0	93	0.68	TAMC	6.75	
AW-7															

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-7 Cont.															
4/5/1991	--	37.60	23.38	--	14.22	<50	0.4	0.7	<0.3	<0.3	--	--	SUP	--	
4/1/1992	--	37.60	21.92	--	15.68	--	--	--	--	--	--	--	--	--	
4/2/1992	--	37.60	--	--	--	<50	<0.5	3.2	1	5.4	--	--	APP	--	
7/6/1992	--	37.60	24.50	--	13.10	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
10/7/1992	--	37.60	26.18	--	11.42	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
1/14/1993	--	37.60	22.03	--	15.57	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
4/22/1993	--	37.60	21.18	--	16.42	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
7/15/1993	--	37.60	22.09	--	15.51	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	m
10/21/1993	--	37.60	24.05	--	13.55	51	5	4.2	3.5	8.2	<5.0	--	PACE	--	m
1/27/1994	--	37.60	23.40	--	14.20	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	m
4/21/1994	--	37.60	22.24	--	15.36	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.5	PACE	--	m
9/9/1994	--	37.60	22.94	--	14.66	<50	<0.5	<0.5	<0.5	0.5	--	4.3	PACE	--	m
12/21/1994	--	37.60	20.86	--	16.74	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.2	PACE	--	m
1/30/1995	--	37.60	17.51	--	20.09	<50	<0.50	<0.50	<0.50	<1.0	--	2.7	ATI	--	
4/10/1995	--	37.60	16.69	--	20.91	<50	<0.50	<0.50	<0.50	<1.0	--	4.8	ATI	--	
6/29/1995	--	37.60	18.33	--	19.27	<50	<0.50	<0.50	<0.50	<1.0	--	7.6	ATI	--	
9/18/1995	--	37.60	20.68	--	16.92	--	--	--	--	--	--	--	--	--	
9/19/1995	--	37.60	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	5.1	ATI	--	
12/7/1995	--	37.60	22.15	--	15.45	<50	<0.50	<0.50	<0.50	<1.0	<5.0	5.2	ATI	--	
3/28/1996	--	37.60	16.38	--	21.22	<50	<0.5	<1	<1	<1	<10	3.9	SPL	--	
6/20/1996	--	37.60	17.02	--	20.58	<50	<0.5	<1	<1	<1	<10	5.0	SPL	--	
10/11/1996	--	37.60	20.47	--	17.13	<50	<0.5	<1.0	<1.0	<1.0	<10	6.3	SPL	--	
1/2/1997	--	37.60	16.70	--	20.90	<50	<0.5	<1.0	<1.0	<1.0	<10	6.2	SPL	--	
4/14/1997	--	37.60	17.96	--	19.64	<50	<0.5	<1.0	<1.0	<1.0	<10	5.0	SPL	--	
7/2/1997	--	37.60	19.11	--	18.49	<50	<0.5	<1.0	<1.0	<1.0	<10	5.4	SPL	--	
9/30/1997	--	37.60	22.97	--	14.63	<250	<2.5	<5.0	<5.0	<5.0	1,100	6.5	SPL	--	
1/21/1998	--	37.60	16.50	--	21.10	<50	<0.5	<1.0	<1.0	<1.0	<10	4.9	SPL	--	
4/9/1998	--	37.60	13.56	--	24.04	<50	<0.5	<1.0	<1.0	<1.0	<10	4.9	SPL	--	
6/19/1998	--	37.60	15.41	--	22.19	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	SPL	--	
11/30/1998	--	37.60	18.90	--	18.70	--	--	--	--	--	--	--	--	--	
1/21/1999	--	37.60	18.39	--	19.21	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-7 Cont.															
4/30/1999	--	37.60	18.54	--	19.06	--	--	--	--	--	--	--	--	--	--
7/9/1999	--	37.60	17.98	--	19.62	--	--	--	--	--	--	--	--	--	--
11/3/1999	--	37.60	20.22	--	17.38	--	--	--	--	--	--	--	--	--	--
1/12/2000	--	37.60	19.46	--	18.14	--	--	--	--	--	--	--	--	--	--
4/13/2000	--	37.60	19.59	--	18.01	--	--	--	--	--	--	--	--	--	--
7/26/2000	--	37.60	19.69	--	17.91	--	--	--	--	--	--	--	--	--	--
10/24/2000	--	37.60	18.78	--	18.82	--	--	--	--	--	--	--	--	--	--
1/19/2001	--	37.60	--	--	--	--	--	--	--	--	--	--	--	--	f
7/25/2001	--	37.60	--	--	--	--	--	--	--	--	--	--	--	--	f
1/18/2002	--	37.60	--	--	--	--	--	--	--	--	--	--	--	--	o
8/1/2002	--	37.60	--	--	--	--	--	--	--	--	--	--	--	--	o
1/16/2003	--	37.60	--	--	--	--	--	--	--	--	--	--	--	--	o
7/7/2003	--	37.60	--	--	--	--	--	--	--	--	--	--	--	--	o
02/05/2004	--	37.60	--	--	--	--	--	--	--	--	--	--	--	--	o
07/01/2004	--	37.60	--	--	--	--	--	--	--	--	--	--	--	--	o
03/16/2005	--	37.60	--	--	--	--	--	--	--	--	--	--	--	--	o
07/22/2005	--	37.60	--	--	--	--	--	--	--	--	--	--	--	--	o
01/25/2006	--	37.60	--	--	--	--	--	--	--	--	--	--	--	--	o
AW-8															
4/5/1991	--	40.86	26.68	--	14.18	80	1.9	2.2	0.5	1.3	--	--	SUP	--	
4/1/1992	--	40.86	25.11	--	15.75	73	<0.5	0.7	<0.5	0.6	--	--	APP	--	
7/6/1992	--	40.86	26.43	--	14.43	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
10/7/1992	--	40.86	28.59	--	12.27	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
1/14/1993	--	40.86	25.55	--	15.31	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
4/22/1993	--	40.86	22.29	--	18.57	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
7/15/1993	--	40.86	23.42	--	17.44	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	m
10/21/1993	--	40.86	25.15	--	15.71	<50	1.9	1.8	1.3	3.3	<5.0	--	PACE	--	m
1/27/1994	--	40.86	25.42	--	15.44	<50	<0.5	0.5	0.6	8.5	<5.0	--	PACE	--	m
4/21/1994	--	40.86	24.14	--	16.72	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.5	PACE	--	m
9/9/1994	--	40.86	24.55	--	16.31	<50	<0.5	<0.5	<0.5	<0.5	--	2.4	PACE	--	m

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Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-8 Cont.															
12/21/1994	--	40.86	22.72	--	18.14	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.1	PACE	--	m
1/30/1995	--	40.86	19.75	--	21.11	<50	<0.50	1	<0.50	1	--	0.8	ATI	--	
4/10/1995	--	40.86	17.78	--	23.08	<50	<0.50	<0.50	<0.50	<1.0	--	8.3	ATI	--	
6/29/1995	--	40.86	18.18	--	22.68	<50	<0.50	<0.50	<0.50	<1.0	--	8.3	ATI	--	
9/18/1995	--	40.86	20.20	--	20.66	--	--	--	--	--	--	--	--	--	
9/19/1995	--	40.86	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	7.7	ATI	--	
12/7/1995	--	40.86	21.54	--	19.32	<50	<0.50	<0.50	<0.50	<1.0	<5.0	4.4	ATI	--	
3/28/1996	--	40.86	15.77	--	25.09	<50	<0.5	<1	<1	<1	<10	3.8	SPL	--	
6/20/1996	--	40.86	16.41	--	24.45	<50	<0.5	<1	<1	<1	<10	3.6	SPL	--	
10/11/1996	--	40.86	19.90	--	20.96	<50	<0.5	<1.0	<1.0	<1.0	<10	6.4	SPL	--	
1/2/1997	--	40.86	15.89	--	24.97	<50	<0.5	<1.0	<1.0	<1.0	<10	5.9	SPL	--	
4/14/1997	--	40.86	17.07	--	23.79	<50	<0.5	<1.0	<1.0	<1.0	<10	4.6	SPL	--	
7/2/1997	--	40.86	18.67	--	22.19	<50	<0.5	<1.0	<1.0	<1.0	<10	5.6	SPL	--	
9/30/1997	--	40.86	22.52	--	18.34	<50	<5	<10	<10	<10	820	6.7	SPL	--	
1/21/1998	--	40.86	16.01	--	24.85	<50	<0.5	<1.0	<1.0	<1.0	<10	5.2	SPL	--	
4/9/1998	--	40.86	11.18	--	29.68	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	SPL	--	
6/19/1998	--	40.86	13.01	--	27.85	<50	<0.5	<1.0	<1.0	<1.0	<10	4.1	SPL	--	
11/30/1998	--	40.86	17.46	--	23.40	--	--	--	--	--	--	--	--	--	
1/21/1999	--	40.86	17.47	--	23.39	--	--	--	--	--	--	--	--	--	
4/30/1999	--	40.86	17.60	--	23.26	--	--	--	--	--	--	--	--	--	
7/9/1999	--	40.86	16.50	--	24.36	--	--	--	--	--	--	--	--	--	
11/3/1999	--	40.86	19.29	--	21.57	--	--	--	--	--	--	--	--	--	
1/12/2000	--	40.86	21.49	--	19.37	--	--	--	--	--	--	--	--	--	
4/13/2000	--	40.86	21.60	--	19.26	--	--	--	--	--	--	--	--	--	
7/26/2000	--	40.86	21.53	--	19.33	--	--	--	--	--	--	--	--	--	
10/24/2000	--	40.86	19.37	--	21.49	--	--	--	--	--	--	--	--	--	
1/19/2001	--	40.86	18.60	--	22.26	--	--	--	--	--	--	--	--	--	
7/24/2001	--	40.86	18.22	--	22.64	--	--	--	--	--	--	--	--	--	
1/18/2002	--	40.86	16.29	--	24.57	--	--	--	--	--	--	--	--	--	
8/1/2002	--	40.86	17.25	--	23.61	--	--	--	--	--	--	--	--	--	
1/16/2003	--	40.86	15.82	--	25.04	--	--	--	--	--	--	--	--	--	

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Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-8 Cont.															
7/7/2003	--	40.86	18.55	--	22.31	--	--	--	--	--	--	--	--	--	
02/05/2004	--	40.86	--	--	--	--	--	--	--	--	--	--	--	--	t
07/01/2004	--	40.86	18.25	--	22.61	--	--	--	--	--	--	--	--	--	t
03/16/2005	P	40.86	15.20	--	25.66	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	SEQM	7.3	
07/22/2005	--	40.86	--	--	--	--	--	--	--	--	--	--	--	--	f
01/25/2006	--	40.86	--	--	--	--	--	--	--	--	--	--	--	--	f
7/6/2006	--	40.86	13.05	--	27.81	--	--	--	--	--	--	--	--	--	
1/8/2007	--	40.86	16.57	--	24.29	--	--	--	--	--	--	--	--	--	
7/10/2007	--	40.86	17.73	--	23.13	--	--	--	--	--	--	--	--	--	
1/15/2008	--	40.86	17.88	--	22.98	--	--	--	--	--	--	--	--	--	
7/15/2008	--	40.86	18.57	--	22.29	--	--	--	--	--	--	--	--	--	
10/21/2008	--	40.86	20.09	--	20.77	--	--	--	--	--	--	--	--	--	
1/6/2009	--	40.86	20.20	--	20.66	--	--	--	--	--	--	--	--	--	
4/21/2009	--	40.86	--	--	--	--	--	--	--	--	--	--	--	--	f
7/21/2009	--	40.86	--	--	--	--	--	--	--	--	--	--	--	--	f
3/18/2010	--	40.86	15.52	--	25.34	--	--	--	--	--	--	--	--	--	
AW-9															
1/2/1997	--	37.78	10.00	--	27.78	<50	<0.5	<1.0	<1.0	<1.0	<10	6.7	SPL	--	
4/14/1997	--	37.78	--	--	--	--	--	--	--	--	--	--	--	--	f
7/2/1997	--	37.78	12.71	--	25.07	<50	<0.5	<1.0	<1.0	<1.0	<10	6.0	SPL	--	
9/30/1997	--	37.78	21.22	--	16.56	<50	<0.5	<1.0	<1.0	<1.0	<10	6.8	SPL	--	
1/21/1998	--	37.78	10.26	--	27.52	<50	<0.5	<1.0	<1.0	<1.0	<10	5.3	SPL	--	
4/9/1998	--	37.78	6.77	--	31.01	<50	<0.5	<1.0	<1.0	<1.0	<10	5.6	SPL	--	
6/19/1998	--	37.78	8.96	--	28.82	<50	<0.5	<1.0	<1.0	<1.0	<10	4.8	SPL	--	
1/8/2007	--	37.78	17.35	--	20.43	--	--	--	--	--	--	--	--	--	
7/10/2007	--	37.78	18.65	--	19.13	--	--	--	--	--	--	--	--	--	
1/15/2008	--	37.78	18.51	--	19.27	--	--	--	--	--	--	--	--	--	
7/15/2008	--	37.78	19.56	--	18.22	--	--	--	--	--	--	--	--	--	
10/21/2008	--	37.78	21.07	--	16.71	--	--	--	--	--	--	--	--	--	
1/6/2009	--	37.78	21.00	--	16.78	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AW-9 Cont.															
4/21/2009	--	37.78	18.28	--	19.50	--	--	--	--	--	--	--	--	--	
7/21/2009	--	37.78	20.00	--	17.78	--	--	--	--	--	--	--	--	--	
3/18/2010	--	37.78	16.45	--	21.33	--	--	--	--	--	--	--	--	--	
MW-1															
4/5/1991	--	34.46	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/1992	--	34.46	11.25	--	23.21	--	--	--	--	--	--	--	--	--	
7/6/1992	--	34.46	13.61	--	20.85	--	--	--	--	--	--	--	--	--	
10/7/1992	--	34.46	15.15	--	19.31	--	--	--	--	--	--	--	--	--	
1/14/1993	--	34.46	10.73	--	23.73	--	--	--	--	--	--	--	--	--	
4/22/1993	--	34.46	11.64	--	22.82	--	--	--	--	--	--	--	--	--	
7/15/1993	--	34.46	13.50	--	20.96	--	--	--	--	--	--	--	--	--	
10/21/1993	--	34.46	15.21	--	19.25	--	--	--	--	--	--	--	--	--	
1/27/1994	--	34.46	17.48	--	16.98	--	--	--	--	--	--	--	--	--	
4/21/1994	--	34.46	10.94	--	23.52	110,000	1,400	9,100	3,400	30,000	11,000	1.6	PACE	--	c
9/9/1994	--	34.46	13.80	--	20.66	--	--	--	--	--	--	--	--	--	
12/21/1994	--	34.46	12.60	--	21.86	--	--	--	--	--	--	--	--	--	
1/30/1995	--	34.46	--	--	--	--	--	--	--	--	--	--	--	--	
4/10/1995	--	34.46	10.62	--	23.84	--	--	--	--	--	--	--	--	--	
6/29/1995	--	34.46	18.72	--	15.74	--	--	--	--	--	--	--	--	--	
9/18/1995	--	34.46	12.92	--	21.54	--	--	--	--	--	--	--	--	--	
12/7/1995	--	34.46	13.82	--	20.64	--	--	--	--	--	--	--	--	--	
3/28/1996	--	34.46	10.03	--	24.43	--	--	--	--	--	--	--	--	--	
6/20/1996	--	34.46	11.29	--	23.17	--	--	--	--	--	--	--	--	--	
10/11/1996	--	34.46	14.86	--	19.60	--	--	--	--	--	--	--	--	--	
1/2/1997	--	34.46	11.03	--	23.43	--	--	--	--	--	--	--	--	--	
4/14/1997	--	34.46	12.25	--	22.21	--	--	--	--	--	--	--	--	--	
4/15/1997	--	34.46	--	--	--	35,000	130	650	1,700	8,200	4,800	--	SPL	--	
7/2/1997	--	34.46	14.11	--	20.35	42,000	<250	<500	2,000	9,600	<5000	5.5	SPL	--	
9/30/1997	--	34.46	14.40	--	20.06	61,000	130	1,100	2,700	14,600	2,000	6.7	SPL	--	
1/21/1998	--	34.46	7.99	--	26.47	14,000	11	60	310	1,790	1,300	4.5	SPL	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-1 Cont.															
4/9/1998	--	34.46	7.89	--	26.57	--	--	--	--	--	--	--	--	--	
4/10/1998	--	34.46	--	--	--	45,000	380	520	2,100	6,800	9,300	5.3	SPL	--	
6/19/1998	--	34.46	10.31	--	24.15	35,000	170	100	1,100	3,590	5,000	4.9	SPL	--	
11/30/1998	--	34.46	11.16	--	23.30	10,000	100	24	350	1,040	1800/2800	--	SPL	--	g
1/21/1999	--	34.46	10.76	--	23.70	18,000	120	37	590	1,800	2,700	--	SPL	--	
4/30/1999	--	34.46	10.78	--	23.68	17,000	240	89	1,100	1,900	1,600	--	SPL	--	
7/9/1999	--	34.46	12.62	--	21.84	58,000	140	100	1,800	6,900	1,200	--	SPL	--	
11/3/1999	--	34.46	14.00	--	20.46	20,000	62	42	620	2,100	630	--	PACE	--	
1/12/2000	--	34.46	15.25	--	19.21	72,000	110	120	2,400	8,200	630	--	PACE	--	
4/13/2000	--	34.46	15.57	--	18.89	37,000	300	32	1,000	1,700	810	--	PACE	--	
5/24/2000	--	34.46	11.75	--	22.71	--	--	--	--	--	--	--	--	--	
6/1/2000	--	34.46	11.41	--	23.05	--	--	--	--	--	--	--	--	--	
6/8/2000	--	34.46	11.68	--	22.78	--	--	--	--	--	--	--	--	--	
6/15/2000	--	34.46	11.85	--	22.61	--	--	--	--	--	--	--	--	--	
7/26/2000	--	34.46	16.19	--	18.27	10,000	480	210	470	710	1,100	--	PACE	--	
10/24/2000	--	34.46	13.89	--	20.57	9,900	31	7.2	550	1,200	4,400	--	PACE	--	
1/19/2001	--	34.46	12.90	--	21.56	57,000	199	7.66	1,170	3,260	514	--	PACE	--	
7/24/2001	--	34.46	13.55	--	20.91	27,000	96.7	<5.0	548	1,460	285	--	PACE	--	
1/18/2002	--	34.46	10.91	--	23.55	25,000	150	31.5	597	1,040	138	--	PACE	--	
8/1/2002	--	34.46	12.97	--	21.49	25,000	80.2	17.7	714	1,280	489	--	PACE	--	
1/16/2003	--	34.46	10.45	--	24.01	22,000	170	110	630	670	<500	--	SEQ	--	p
7/7/2003	--	34.46	12.40	--	22.06	9,900	42	<5.0	160	150	24	--	SEQ	--	q, u
02/05/2004	--	34.46	10.26	--	24.20	6,200	56	11	250	210	9.2	--	SEQM	6.9	
07/01/2004	--	34.46	13.20	--	21.26	18,000	<50	<50	210	300	<50	--	SEQM	--	u
03/16/2005	P	34.46	9.62	--	24.84	7,600	33	5.4	200	130	<5.0	0.9	SEQM	6.9	
07/22/2005	P	34.46	11.23	--	23.23	15,000	<10	<10	110	130	<10	--	SEQM	6.8	u
01/25/2006	P	34.46	8.75	--	25.71	8,300	8.4	4.8	130	120	<2.5	--	SEQM	7.3	u
7/6/2006	P	34.46	10.36	--	24.10	5,100	<2.5	<2.5	16	12	<2.5	--	TAMC	6.9	
1/8/2007	P	34.46	11.55	--	22.91	2700	4.6	0.66	35	27	2.1	1.83	TAMC	6.92	
7/10/2007	P	34.46	13.01	SHEEN	21.45	1,800	1.9	<0.50	13	4.8	2.4	2.16	TAMC	7.04	
1/15/2008	P	34.46	10.96	--	23.50	2,900	8.0	4.0	84	87	1.2	0.94	TAMC	7.13	

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Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-1 Cont.															
7/15/2008	P	34.46	13.82	--	20.64	3,200	<0.50	<0.50	8.5	4.8	<0.50	1.20	CEL	7.06	
10/21/2008	P	34.46	14.70	--	19.76	2,300	2.6	<0.50	5.4	2.4	<0.50	1.99	CEL	7.30	
1/6/2009	P	34.46	13.67	--	20.79	2,600	15	1.8	13	3.4	<0.50	0.67	CEL	6.90	
4/21/2009	P	34.46	12.31	--	22.15	1,500	2.0	<0.50	1.7	<0.50	<0.50	1.99	CEL	7.54	
7/21/2009	P	34.46	13.85	--	20.61	2,900	<0.50	<0.50	4.6	1.2	<0.50	6.20	CEL	7.43	y
3/18/2010	P	34.46	9.29	SHEEN	25.17	1,900	1.2	<0.50	5.2	2.7	<0.50	0.90	TAMC	6.89	
MW-2															
4/5/1991	--	35.50	16.62	--	18.88	<50	0.6	0.9	<0.3	<0.3	--	--	SUP	--	
4/1/1992	--	35.50	11.25	--	24.25	--	--	--	--	--	--	--	--	--	
4/2/1992	--	35.50	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	APP	--	
7/6/1992	--	35.50	12.72	--	22.78	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
10/7/1992	--	35.50	15.08	--	20.42	<50	<0.5	1.8	<0.5	2.3	--	--	ANA	--	
1/14/1993	--	35.50	9.69	--	25.81	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	m
4/22/1993	--	35.50	10.46	--	25.04	<50	<0.5	<0.5	<0.5	<0.5	30	--	PACE	--	c
7/15/1993	--	35.50	12.02	--	23.48	<50	<0.5	<0.5	<0.5	<0.5	21.7	--	PACE	--	c, m
10/21/1993	--	35.50	13.12	--	22.38	<50	0.7	0.9	<0.5	0.9	14.9	--	PACE	--	m
1/27/1994	--	35.50	12.01	--	23.49	<50	0.6	<0.5	<0.5	<0.5	11.5	--	PACE	--	m
4/21/1994	--	35.50	10.60	--	24.90	<50	<0.5	<0.5	<0.5	<0.5	11.4	1.1	PACE	--	m
9/9/1994	--	35.50	12.42	--	23.08	<50	<0.5	<0.5	<0.5	0.6	--	2.2	PACE	--	m
12/21/1994	--	35.50	10.85	--	24.65	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.2	PACE	--	m
1/30/1995	--	35.50	8.38	--	27.12	<50	<0.50	<0.50	<0.50	<1.0	--	1.7	ATI	--	
4/10/1995	--	35.50	9.00	--	26.50	<50	<0.50	<0.50	<0.50	<1.0	--	7.8	ATI	--	
6/29/1995	--	35.50	9.91	--	25.59	<50	<0.50	<0.50	<0.50	<1.0	--	9.1	ATI	--	
9/18/1995	--	35.50	10.98	--	24.52	--	--	--	--	--	--	--	--	--	
9/19/1995	--	35.50	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	7.2	ATI	--	
12/7/1995	--	35.50	12.30	--	23.20	<50	<0.50	<0.50	<0.50	<1.0	<5.0	2.4	ATI	--	
3/28/1996	--	35.50	8.57	--	26.93	<50	<0.5	<1	<1	<1	<10	3.2	SPL	--	
6/20/1996	--	35.50	9.77	--	25.73	<50	<0.5	<1	<1	<1	<10	4.2	SPL	--	
10/11/1996	--	35.50	13.32	--	22.18	<50	<0.5	<1.0	<1.0	<1.0	<10	6.3	SPL	--	
1/2/1997	--	35.50	9.60	--	25.90	<50	<0.5	<1.0	<1.0	<1.0	<10	6.7	SPL	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-2 Cont.															
4/14/1997	--	35.50	10.93	--	24.57	<50	<0.5	<1.0	<1.0	<1.0	<10	5.7	SPL	--	
7/2/1997	--	35.50	12.57	--	22.93	<50	<0.5	<1.0	<1.0	<1.0	<10	5.9	SPL	--	
9/30/1997	--	35.50	12.91	--	22.59	<50	<0.5	<1.0	<1.0	<1.0	<10	6.3	SPL	--	
1/21/1998	--	35.50	10.12	--	25.38	160	<0.5	<1.0	<1.0	<1.0	100	5.4	SPL	--	
4/9/1998	--	35.50	6.82	--	28.68	--	--	--	--	--	--	--	--	--	
4/10/1998	--	35.50	--	--	--	<50	1	<1.0	<1.0	<1.0	23	5.0	SPL	--	
6/19/1998	--	35.50	9.00	--	26.50	<50	<0.5	<1.0	<1.0	<1.0	<10	4.9	SPL	--	
11/30/1998	--	35.50	9.44	--	26.06	--	--	--	--	--	--	--	--	--	
1/21/1999	--	35.50	8.96	--	26.54	<50	<1.0	<1.0	<1.0	<1.0	1.9	--	SPL	--	
4/30/1999	--	35.50	9.15	--	26.35	--	--	--	--	--	--	--	--	--	
7/9/1999	--	35.50	10.82	--	24.68	--	--	--	--	--	--	--	--	--	
11/3/1999	--	35.50	11.86	--	23.64	--	--	--	--	--	--	--	--	--	
1/12/2000	--	35.50	12.35	--	23.15	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--	
4/13/2000	--	35.50	13.01	--	22.49	--	--	--	--	--	--	--	--	--	
7/26/2000	--	35.50	13.01	--	22.49	--	--	--	--	--	--	--	--	--	
10/24/2000	--	35.50	11.57	--	23.93	--	--	--	--	--	--	--	--	--	
1/19/2001	--	35.50	10.52	--	24.98	--	--	--	--	--	--	--	--	--	
7/24/2001	--	35.50	11.13	--	24.37	--	--	--	--	--	--	--	--	--	
1/18/2002	--	35.50	8.85	--	26.65	--	--	--	--	--	--	--	--	--	
8/1/2002	--	35.50	10.47	--	25.03	--	--	--	--	--	--	--	--	--	
1/14/2003	--	35.50	8.49	--	27.01	--	--	--	--	--	--	--	--	--	
7/7/2003	--	35.50	9.63	--	25.87	--	--	--	--	--	--	--	--	--	
02/05/2004	--	35.50	8.40	--	27.10	--	--	--	--	--	--	--	--	--	
07/01/2004	NP	35.50	9.94	--	25.56	--	--	--	--	--	--	--	--	--	
03/16/2005	P	35.50	8.39	--	27.11	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	SEQM	7.1	
07/22/2005	--	35.50	8.80	--	26.70	--	--	--	--	--	--	--	--	--	
01/25/2006	--	35.50	7.85	--	27.65	--	--	--	--	--	--	--	--	--	
7/6/2006	--	35.50	8.33	--	27.17	--	--	--	--	--	--	--	--	--	
1/8/2007	--	35.50	9.35	--	26.15	--	--	--	--	--	--	--	--	--	
7/10/2007	--	35.50	10.45	--	25.05	--	--	--	--	--	--	--	--	--	
1/15/2008	--	35.50	18.83	--	16.67	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-2 Cont.															
7/15/2008	--	35.50	11.07	--	24.43	--	--	--	--	--	--	--	--	--	
10/21/2008	--	35.50	11.30	--	24.20	--	--	--	--	--	--	--	--	--	
1/6/2009	--	35.50	11.00	--	24.50	--	--	--	--	--	--	--	--	--	
4/21/2009	--	35.50	10.00	--	25.50	--	--	--	--	--	--	--	--	--	
7/21/2009	--	35.50	11.10	--	24.40	--	--	--	--	--	--	--	--	--	
3/18/2010	--	35.50	7.93	--	27.57	--	--	--	--	--	--	--	--	--	
MW-3															
4/5/1991	--	36.53	17.84	--	18.69	<50	<0.3	<0.3	<0.3	<0.3	--	--	SUP	--	
4/1/1992	--	36.53	15.64	--	20.89	--	--	--	--	--	--	--	--	--	
4/2/1992	--	36.53	--	--	--	<50	1.4	<0.5	<0.5	<0.5	--	--	APP	--	
7/6/1992	--	36.53	19.03	--	17.50	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
10/7/1992	--	36.53	21.83	--	14.70	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
1/14/1993	--	36.53	15.96	--	20.57	350	<0.5	<0.5	<0.5	<0.5	714	--	PACE	--	c, m
4/22/1993	--	36.53	16.20	--	20.33	2,800	<0.5	<0.5	<0.5	<0.5	3,600	--	PACE	--	c, m
7/15/1993	--	36.53	16.82	--	19.71	1,400	1.2	<0.5	2	3.5	2,204	--	PACE	--	c, m
10/21/1993	--	36.53	18.84	--	17.69	370	2.1	2.3	2.3	6	847	--	PACE	--	c, m
1/27/1994	--	36.53	18.00	--	18.53	1,300	6.3	<0.5	<0.5	<0.5	3,892	--	PACE	--	c, m
4/21/1994	--	36.53	16.62	--	19.91	2,000	<0.5	<0.5	<0.5	<0.5	3,864	1.4	PACE	--	c, m
9/9/1994	--	36.53	18.38	--	18.15	1,300	<0.5	<0.5	0.5	1.2	--	3.0	PACE	--	m
12/21/1994	--	36.53	15.28	--	21.25	420	16	0.7	3.5	5.9	800	1.9	PACE	--	m
1/30/1995	--	36.53	12.62	--	23.91	<50	<0.50	<0.50	<0.50	<1.0	--	2.5	ATI	--	
4/10/1995	--	36.53	12.41	--	24.12	150	<0.50	<0.50	<0.50	<1.0	--	6.9	ATI	--	
6/29/1995	--	36.53	14.95	--	21.58	100	<0.50	<0.50	<0.50	<1.0	--	6.4	ATI	--	d (TPH-g)
9/18/1995	--	36.53	15.82	--	20.71	--	--	--	--	--	--	--	--	--	
9/19/1995	--	36.53	--	--	--	82	<0.50	<0.50	<0.50	<1.0	260	7.0	ATI	--	
12/7/1995	--	36.53	17.09	--	19.44	<50	<0.50	<0.50	<0.50	<1.0	91	4.5	ATI	--	
3/28/1996	--	36.53	11.90	--	24.63	<50	<0.5	<1	<1	<1	230	4.2	SPL	--	
6/20/1996	--	36.53	12.66	--	23.87	260	<0.5	<1	<1	<1	370	4.4	SPL	--	
10/11/1996	--	36.53	16.23	--	20.30	330	<0.5	<1.0	<1.0	<1.0	440	5.8	SPL	--	
1/2/1997	--	36.53	12.17	--	24.36	<50	<0.5	<1.0	<1.0	<1.0	140	6.0	SPL	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-3 Cont.															
4/14/1997	--	36.53	13.45	--	23.08	--	--	--	--	--	--	--	--	--	
4/15/1997	--	36.53	--	--	--	1,500	<0.5	<1.0	<1.0	<1.0	1,800	5.6	SPL	--	
7/2/1997	--	36.53	15.60	--	20.93	880	<0.5	<1.0	<1.0	<1.0	940	5.3	SPL	--	
9/30/1997	--	36.53	17.16	--	19.37	40,000	13,000	2,400	870	3,100	510	6.6	SPL	--	
1/21/1998	--	36.53	11.77	--	24.76	120	<0.5	<1.0	<1.0	<1.0	98	4.7	SPL	--	
4/9/1998	--	36.53	9.42	--	27.11	950	<0.5	<1.0	<1.0	<1.0	890	5.7	SPL	--	
6/19/1998	--	36.53	12.09	--	24.44	1,800	<0.5	<1.0	<1.0	<1.0	1,900	4.7	SPL	--	
6/19/1998	--	36.53	15.28	--	21.25	1,800	<0.5	<1.0	<1.0	<1.0	1,900	4.7	SPL	--	
1/21/1999	--	36.53	14.67	--	21.86	1,100	<1.0	<1.0	<1.0	<1.0	1,200	--	SPL	--	
4/30/1999	--	36.53	16.00	--	20.53	--	--	--	--	--	--	--	--	--	
7/9/1999	--	36.53	14.64	--	21.89	470	<1.0	<1.0	<1.0	<1.0	460/470	--	SPL	--	g
11/3/1999	--	36.53	16.39	--	20.14	--	--	--	--	--	--	--	--	--	
1/12/2000	--	36.53	16.80	--	19.73	<50	<0.5	<0.5	<0.5	<0.5	34	--	PACE	--	
4/13/2000	--	36.53	16.43	--	20.10	--	--	--	--	--	--	--	--	--	
7/26/2000	--	36.53	16.93	--	19.60	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--	
10/24/2000	--	36.53	15.69	--	20.84	--	--	--	--	--	--	--	--	--	
1/19/2001	--	36.53	14.84	--	21.69	<50	<0.5	<0.5	<0.5	1	25.9	--	PACE	--	
7/23/2001	--	36.53	15.11	--	21.42	62	<0.5	<0.5	<0.5	<1.5	28.7	--	PACE	--	
1/18/2002	--	36.53	12.37	--	24.16	<50	<0.5	<0.5	<0.5	<1.0	17.8	--	PACE	--	
8/1/2002	--	36.53	14.44	--	22.09	66	<0.5	<0.5	<0.5	<1.0	<0.5	--	PACE	--	
1/16/2003	--	36.53	12.07	--	24.46	<50	<0.50	<0.50	<0.50	<0.50	20	--	SEQ	--	p
7/7/2003	--	36.53	13.90	--	22.63	<50	<0.50	<0.50	<0.50	<0.50	8.8	--	SEQ	--	q
02/05/2004	--	36.53	12.60	--	23.93	<50	<0.50	<0.50	<0.50	<0.50	4.6	--	SEQM	7.0	
07/01/2004	--	36.53	14.57	--	21.96	<50	<0.50	<0.50	<0.50	<0.50	3.3	--	SEQM	--	
03/16/2005	P	36.53	11.03	--	25.50	<50	<0.50	<0.50	<0.50	<0.50	4.4	1.5	SEQM	6.8	
07/22/2005	P	36.53	12.68	--	23.85	<50	<0.50	<0.50	<0.50	<0.50	4.1	--	SEQM	6.8	
01/25/2006	P	36.53	11.35	--	25.18	81	<0.50	<0.50	<0.50	<0.50	3.0	--	SEQM	6.9	
7/6/2006	P	36.53	11.47	--	25.06	<50	<0.50	<0.50	<0.50	<0.50	3.0	--	TAMC	6.9	
1/8/2007	P	36.53	12.92	--	23.61	<50	<0.50	<0.50	<0.50	<0.50	3.2	2.87	TAMC	7.12	
7/10/2007	P	36.53	14.46	--	22.07	<50	<0.50	<0.50	<0.50	<0.50	2.8	2.87	TAMC	7.25	
1/15/2008	P	36.53	12.99	--	23.54	<50	<0.50	<0.50	<0.50	<0.50	0.88	1.04	TAMC	7.10	

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Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-3 Cont.															
7/15/2008	P	36.53	15.30	--	21.23	<50	<0.50	<0.50	<0.50	<0.50	1.3	1.60	CEL	7.06	
10/21/2008	P	36.53	16.30	--	20.23	<50	<0.50	<0.50	<0.50	<0.50	0.94	2.21	CEL	7.28	
1/6/2009	P	36.53	15.45	--	21.08	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.02	CEL	6.43	
4/21/2009	P	36.53	13.90	--	22.63	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.26	CEL	7.59	
7/21/2009	P	36.53	15.28	--	21.25	<50	<0.50	<0.50	<0.50	<0.50	0.60	15.16	CEL	7.43	y
3/18/2010	P	36.53	11.65	--	24.88	<50	<0.50	<0.50	<0.50	<1.0	<0.50	0.73	TAMC	7.05	
QC-2															
10/7/1992	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	i
1/14/1993	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i, m
4/22/1993	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i, m
7/15/1993	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	i, m
10/21/1993	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i
1/27/1994	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i
4/21/1994	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i
9/9/1994	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i
12/21/1994	--	37.73	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i
1/30/1995	--	37.73	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	i
4/10/1995	--	37.73	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	i
6/27/1995	--	37.73	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	i
9/19/1995	--	37.73	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	i
12/7/1995	--	37.73	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	i
3/28/1996	--	37.73	--	--	--	<50	<0.5	<1	<1	<1	<10	--	SPL	--	i
6/20/1996	--	37.73	--	--	--	<50	<0.5	<1	<1	<1	<10	--	SPL	--	i
RW-1															
4/5/1991	--	37.73	--	--	--	--	--	--	--	--	--	--	--	--	--
4/1/1992	--	37.73	22.81	--	14.92	--	--	--	--	--	--	--	--	--	--
7/6/1992	--	37.73	26.92	--	10.81	--	--	--	--	--	--	--	--	--	--
10/7/1992	--	37.73	28.51	--	9.22	--	--	--	--	--	--	--	--	--	--
1/14/1993	--	37.73	23.75	--	13.98	--	--	--	--	--	--	--	--	--	--

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Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
RW-1 Cont.															
4/22/1993	--	37.73	22.70	--	15.03	--	--	--	--	--	--	--	--	--	
7/15/1993	--	37.73	26.10	--	11.63	--	--	--	--	--	--	--	--	--	
10/21/1993	--	37.73	25.40	--	12.33	--	--	--	--	--	--	--	--	--	
1/27/1994	--	37.73	28.02	--	9.71	--	--	--	--	--	--	--	--	--	
4/21/1994	--	37.73	23.10	--	14.63	--	--	--	--	--	--	--	--	--	
9/9/1994	--	37.73	24.39	--	13.34	--	--	--	--	--	--	--	--	--	
12/21/1994	--	37.73	--	--	--	--	--	--	--	--	--	--	--	--	h
12/7/1995	--	37.73	25.71	--	12.02	150,000	34,000	35,000	4,300	21,000	2,700	--	ATI	--	
3/28/1996	--	37.73	16.75	--	20.98	--	--	--	--	--	--	--	--	--	
6/20/1996	--	37.73	25.10	--	12.63	--	--	--	--	--	--	--	--	--	h
10/11/1996	--	37.73	25.51	--	12.22	130,000	20,000	32,000	2,800	20,700	1400/1200	7.4	SPL	--	g
1/2/1997	--	37.73	24.49	--	13.24	--	--	--	--	--	--	--	--	--	
4/14/1997	--	37.73	23.99	--	13.74	--	--	--	--	--	--	--	--	--	
4/15/1997	--	37.73	--	--	--	1,800,000	38,000	190,000	48,000	281,000	<25000	--	SPL	--	
7/2/1997	--	37.73	16.40	--	21.33	140,000	19,000	55,000	4,400	32,400	<10000	5.7	SPL	--	
7/2/1997	--	37.73	--	--	--	130,000	19,000	54,000	4,700	33,400	<10000	--	SPL	--	e
9/30/1997	--	37.73	--	--	--	140,000	17,000	29,000	2,500	15,900	1,200	--	SPL	--	e
9/30/1997	--	37.73	27.97	--	9.76	110,000	13,000	22,000	2,000	12,500	1,100	7.0	SPL	--	
1/21/1998	--	37.73	14.14	--	23.59	270,000	21,000	48,000	3,500	25,000	1,100	4.8	SPL	--	
4/9/1998	--	37.73	25.01	--	12.72	--	--	--	--	--	--	--	--	--	
4/10/1998	--	37.73	--	--	--	220,000	26,000	46,000	4,400	24,500	<2500	5.1	SPL	--	
6/19/1998	--	37.73	11.43	--	26.30	180,000	19,000	32,000	3,000	17,400	<2500	4.6	SPL	--	
11/30/1998	--	37.73	7.87	--	29.86	--	--	--	--	--	--	--	--	--	
1/21/1999	--	37.73	18.90	--	18.83	260,000	24,000	46,000	5,100	30,000	1,700	--	SPL	--	
7/9/1999	--	37.73	18.58	--	19.15	--	--	--	--	--	--	--	--	--	
11/3/1999	--	37.73	20.85	--	16.88	160,000	19,000	37,000	3,800	25,000	1,500	--	PACE	--	
1/12/2000	--	37.73	21.20	--	16.53	240,000	18,000	46,000	5,800	26,000	2,100	--	PACE	--	
4/13/2000	--	37.73	21.71	--	16.02	120,000	2,100	33,000	2,800	28,000	1,500	--	PACE	--	
5/24/2000	--	37.73	21.89	--	15.84	--	--	--	--	--	--	--	--	--	
6/1/2000	--	37.73	16.30	--	21.43	--	--	--	--	--	--	--	--	--	
6/8/2000	--	37.73	17.88	--	19.85	--	--	--	--	--	--	--	--	--	

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Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
RW-1 Cont.															
6/15/2000	--	37.73	16.72	--	21.01	--	--	--	--	--	--	--	--	--	
6/20/2000	--	37.73	21.04	--	16.69	--	--	--	--	--	--	--	--	--	
7/7/2000	--	37.73	17.21	--	20.52	--	--	--	--	--	--	--	--	--	
7/20/2000	--	37.73	21.87	--	15.86	--	--	--	--	--	--	--	--	--	
7/26/2000	--	37.73	21.45	--	16.28	67,000	160	5,300	2,100	18,000	1,100	--	PACE	--	
7/31/2000	--	37.73	22.11	--	15.62	--	--	--	--	--	--	--	--	--	
8/8/2000	--	37.73	17.80	--	19.93	--	--	--	--	--	--	--	--	--	
8/16/2000	--	37.73	17.92	--	19.81	--	--	--	--	--	--	--	--	--	
8/23/2000	--	37.73	18.11	--	19.62	--	--	--	--	--	--	--	--	--	
10/24/2000	--	37.73	18.93	--	18.80	--	--	--	--	--	--	--	--	--	
10/25/2000	--	37.73	19.04	--	18.69	360,000	18,000	78,000	34,000	180,000	2,100	--	PACE	--	k
1/19/2001	--	37.73	18.19	--	19.54	110,000	9,450	19,600	3,510	21,100	1,270	--	PACE	--	
7/24/2001	--	37.73	17.93	--	19.80	--	--	--	--	--	--	--	--	--	l
1/18/2002	--	37.73	14.87	--	22.86	63,000	2,060	4,370	1,770	13,900	491	--	PACE	--	
8/1/2002	--	37.73	16.84	--	20.89	60,000	1,210	2,200	1,520	10,600	390	--	PACE	--	
1/16/2003	--	37.73	14.42	--	23.31	34,000	2,500	2,700	780	5,300	680	--	SEQ	--	p
7/7/2003	--	37.73	16.11	--	21.62	50,000	640	280	1,600	10,000	<250	--	SEQ	--	q, u
07/01/2004	P	37.73	16.75	--	20.98	47,000	320	87	1,900	7,500	72	--	SEQM	6.7	
03/16/2005	P	37.73	12.48	--	25.25	17,000	28	23	350	590	53	1.0	SEQM	6.8	
07/22/2005	P	37.73	14.40	--	23.33	5,900	50	35	120	220	51	--	SEQM	6.7	u
01/25/2006	P	37.73	12.00	--	25.73	7,000	22	5.9	190	--	34	--	SEQM	7.1	
7/6/2006	P	37.73	13.01	--	24.72	16,000	37	14	470	230	64	--	TAMC	6.8	
1/8/2007	P	37.73	14.75	--	22.98	2400	16	10	56	54	22	3.61	TAMC	6.86	
7/10/2007	P	37.73	16.21	--	21.52	3,800	4.4	2.8	72	22	21	2.65	TAMC	6.98	
1/15/2008	P	37.73	14.63	--	23.10	1,700	21	1.6	45	10	14	1.31	TAMC	6.82	
7/15/2008	P	37.73	17.04	--	20.69	1,600	<0.50	0.66	4.4	3.0	12	1.32	CEL	6.95	
10/21/2008	P	37.73	18.44	--	19.29	3,600	<0.50	1.3	19	10	12	0.79	CEL	7.17	
1/6/2009	P	37.73	17.50	--	20.23	1,300	<0.50	<0.50	1.6	2.7	7.0	1.02	CEL	6.43	
4/21/2009	P	37.73	15.37	--	22.36	2,000	27	1.9	30	16	6.0	0.86	CEL	7.38	x
7/21/2009	P	37.73	17.20	--	20.53	870	<0.50	<0.50	<0.50	0.57	7.0	13.31	CEL	7.35	y
3/18/2010	P	37.73	12.87	SHEEN	24.86	2,500	<2.5	<2.5	2.7	<5.0	<2.5	0.74	TAMC	6.73	

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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
RW-1															
VEW-4															
07/22/2005	P	--	14.04	--	--	680	41	24	20	67	<0.50	--	SEQM	6.8	
1/15/2008	P	--	15.05	--	--	350	19	1.1	5.0	3.3	<0.50	0.54	TAMC	6.99	
7/15/2008	P	--	17.24	--	--	53	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	CEL	6.95	
10/21/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
1/6/2009	--	--	18.00	--	--	--	--	--	--	--	--	--	--	--	
4/21/2009	P	--	15.81	--	--	610	5.9	0.64	4.0	1.9	<0.50	1.99	CEL	7.41	
7/21/2009	P	--	17.60	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	8.99	CEL	7.24	y
3/18/2010	--	--	12.91	--	--	--	--	--	--	--	--	--	--	--	
VEW-5															
07/22/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
1/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
7/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
10/21/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
1/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
4/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
7/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
3/18/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
VEW-6															
1/15/2008	--	--	11.83	--	--	--	--	--	--	--	--	--	--	--	
7/15/2008	--	--	14.81	--	--	--	--	--	--	--	--	--	--	--	
10/21/2008	--	--	16.02	--	--	--	--	--	--	--	--	--	--	--	
1/6/2009	--	--	14.70	--	--	--	--	--	--	--	--	--	--	--	
4/21/2009	--	--	13.34	--	--	--	--	--	--	--	--	--	--	--	
7/21/2009	--	--	14.90	--	--	--	--	--	--	--	--	--	--	--	
3/18/2010	--	--	10.39	--	--	--	--	--	--	--	--	--	--	--	
VEW-7															
1/15/2008	--	--	13.24	--	--	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
VEW-7 Cont.															
7/15/2008	--	--	15.91	--	--	--	--	--	--	--	--	--	--	--	
10/21/2008	--	--	16.89	--	--	--	--	--	--	--	--	--	--	--	
1/6/2009	--	--	16.00	--	--	--	--	--	--	--	--	--	--	--	
4/21/2009	--	--	14.30	--	--	--	--	--	--	--	--	--	--	--	
7/21/2009	--	--	15.98	--	--	--	--	--	--	--	--	--	--	--	
3/18/2010	--	--	11.16	--	--	--	--	--	--	--	--	--	--	--	
VEW-8															
07/22/2005	P	--	14.24	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	6.8	
1/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
7/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
10/21/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
1/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
4/21/2009	--	--	16.53	--	--	--	--	--	--	--	--	--	--	--	
7/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
3/18/2010	--	--	14.05	--	--	--	--	--	--	--	--	--	--	--	
VEW-9															
1/15/2008	--	--	5.31	--	--	--	--	--	--	--	--	--	--	--	
7/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
10/21/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
1/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	f
4/21/2009	--	--	6.18	--	--	--	--	--	--	--	--	--	--	--	
7/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
3/18/2010	--	--	5.32	--	--	--	--	--	--	--	--	--	--	--	
VW-1															
1/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
7/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
10/21/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
1/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
4/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
VW-1 Cont.															
7/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	v
3/18/2010	--	--	9.80	--	--	--	--	--	--	--	--	--	--	--	
VW-2															
1/15/2008	--	--	0.25	--	--	--	--	--	--	--	--	--	--	--	
7/15/2008	--	--	0.65	--	--	--	--	--	--	--	--	--	--	--	
10/21/2008	--	--	0.68	--	--	--	--	--	--	--	--	--	--	--	
1/6/2009	--	--	0.45	--	--	--	--	--	--	--	--	--	--	--	
4/21/2009	--	--	0.45	--	--	--	--	--	--	--	--	--	--	--	
7/21/2009	--	--	0.52	--	--	--	--	--	--	--	--	--	--	--	
3/18/2010	--	--	0.50	--	--	--	--	--	--	--	--	--	--	--	
VW-3															
1/15/2008	--	--	2.08	--	--	--	--	--	--	--	--	--	--	--	
7/15/2008	--	--	4.10	--	--	--	--	--	--	--	--	--	--	--	
10/21/2008	--	--	4.95	--	--	--	--	--	--	--	--	--	--	--	
1/6/2009	--	--	5.40	--	--	--	--	--	--	--	--	--	--	--	
4/21/2009	--	--	4.57	--	--	--	--	--	--	--	--	--	--	--	
7/21/2009	--	--	5.22	--	--	--	--	--	--	--	--	--	--	--	
3/18/2010	--	--	5.42	--	--	--	--	--	--	--	--	--	--	--	

ABBREVIATIONS & SYMBOLS:

-- = Not analyzed/applicable/measured/available
< = Not detected at or above specified laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in ft bgs
ft bgs = Feet below ground surface
ft MSL = Feet above mean sea level
GRO = Gasoline range organics
GWE = Groundwater elevation in ft MSL
mg/L = Milligrams per liter
MTBE = Methyl tert-butyl ether
NP = Well not purged prior to sampling
P = Well purged prior to sampling
TOC = Top of casing in ft MSL
TPH-g = Total petroleum hydrocarbons as gasoline
µg/L = Micrograms per liter
ANA = Anametrix, Inc.
PACE = Pace, Inc.
ATI = Analytical Technologies, Inc.
CEI = Ceimic Corporation
SPL = Southern Petroleum Laboratories
SEQ/SEQM= Sequoia Analytical/Sequoia Analytical Morgan Hill Laboratories
CEL = CalScience Environmental Laboratories, Inc.

FOOTNOTES:

c = A copy of the documentation for this data is included in Appendix C of Alistoreport 10-025-13-003.
d = MTBE peak. See documentation in Appendix C of Alisto report 10-025-13-003.
e = Blind duplicate.
f = Well inaccessible.
g = EPA Methods 8020/8260 used.
h = Well not monitored and/or sampled due to vapor extraction system.
i = Travel blank.
j = This gasoline does not include MTBE.
k = Well was sampled on a different date from the other wells due to lack of proper equipment.
l = Unable to sample due to nature of product.
m = A copy of the documentation for this data is included in Blaine Tech Services, Inc., Report 010724-B-2. The data for sampling events January 14, 1993 and April 22, 1993 has been destroyed. No chromatograms could be located for samples AW-2 on January 27, 1994, and for samples AW-1, AW-2, AW-3, AW-4, AW-5, AW-6, AW-7, AW-8, MW-2 and MW-3 on September 9, 1994.
n = On June 1, 2001, after reviewing chromatograms, Sequoia reported the value as <5.0.
o = Unable to locate well.
p = TPH-g data analyzed by EPA Method 8015B modified; BTEX and MTBE by EPA Method 8021B
q = TPH-g, BTEX, and MTBE analyzed by EPA method 8260B beginning on the third quarter 2003 sampling event 07/07/03.
r = Discrete peak at C5.
t = Well was not gauged during the quarter due to an oversight by the technician.
u = Sheen in well.
v = Well was dry.
w = Hydrocarbon result partly due to individ. peak(s) in quant. range.
x = Sample taken from VOA vial with air bubble > 6mm diameter.
y = DO value suspect.

NOTES:

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.

Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.

Values for DO and pH were obtained through field measurements.

GWEs adjusted assuming a specific gravity of 0.75 for free product

GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008. The analysis for GRO was changed to EPA method 8015B (C6-C12) for samples collected from the time period February 5, 2008 through the present.

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

Table 2. Summary of Fuel Additives Analytical Data
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
AW-1									
7/7/2003	<5,000	<1,000	1,100	<25	<25	190	--	--	
02/05/2004	<10,000	<2,000	930	<50	<50	160	<50	<50	
07/01/2004	<5,000	<1,000	1,100	<25	<25	170	<25	<25	
03/16/2005	<5,000	<1,000	720	<25	<25	130	<25	<25	
07/22/2005	<1,000	<200	510	<5.0	<5.0	93	31	<5.0	
01/25/2006	<6,000	<400	490	<10	<10	94	21	<10	
7/6/2006	<6,000	<400	270	<10	<10	49	<10	<10	
1/8/2007	<3000	240	380	<5.0	<5.0	64	<5.0	--	
7/10/2007	<6,000	<400	220	<10	<10	36	<10	<10	
1/15/2008	<6,000	<400	230	<10	<10	45	<10	<10	
7/15/2008	<300	<10	<0.50	<0.50	<0.50	15	<0.50	<0.50	
10/21/2008	<3,000	390	120	<5.0	<5.0	22	<5.0	<5.0	
1/6/2009	<3,000	190	170	<5.0	<5.0	28	<5.0	<5.0	
4/21/2009	<6,000	<200	160	<10	<10	27	<10	<10	
7/21/2009	<6,000	<200	170	<10	<10	30	<10	<10	
3/18/2010	<2,000	<80	<10	<10	<10	19	<10	<10	
AW-2									
02/05/2004	<100	<20	5.1	<0.50	<0.50	<0.50	<0.50	<0.50	
07/01/2004	--	--	--	--	--	--	--	--	
03/16/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
07/22/2005	--	--	--	--	--	--	--	--	
01/25/2006	<600	<40	12	<1.0	<1.0	1.0	<1.0	<1.0	
1/8/2007	<3000	<200	40	<5.0	<5.0	<5.0	<5.0	--	
1/15/2008	<6,000	<400	48	<10	<10	<10	<10	<10	
7/15/2008	<30,000	<1,000	<50	<50	<50	<50	<50	<50	
10/21/2008	<7,500	<250	16	<12	<12	<12	<12	<12	
1/6/2009	<6,000	<200	11	<10	<10	<10	<10	<10	
4/21/2009	<6,000	<200	10	<10	<10	<10	<10	<10	
7/21/2009	<6,000	<200	13	<10	<10	<10	<10	<10	

Table 2. Summary of Fuel Additives Analytical Data
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
AW-3									
02/05/2004	--	--	--	--	--	--	--	--	
07/01/2004	--	--	--	--	--	--	--	--	
03/16/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
07/22/2005	--	--	--	--	--	--	--	--	
01/25/2006	--	--	--	--	--	--	--	--	
AW-4									
7/7/2003	<1,000	<200	56	<5.0	<5.0	<5.0	--	--	
02/05/2004	<200	<40	40	<1.0	<1.0	3.7	<1.0	<1.0	
07/01/2004	<1,000	<200	64	<5.0	<5.0	9.6	<5.0	<5.0	
03/16/2005	<500	<100	23	<2.5	<2.5	<2.5	<2.5	<2.5	
07/22/2005	<2,000	<400	59	<10	<10	<10	<10	<10	
01/25/2006	<3,000	<200	12	<5.0	<5.0	<5.0	<5.0	<5.0	
7/6/2006	<3,000	<5.0	39	<5.0	<5.0	<5.0	<5.0	<5.0	
1/8/2007	<300	<20	38	<0.50	<0.50	6.2	<0.50	--	
7/10/2007	<300	<20	27	<0.50	<0.50	4.2	<0.50	<0.50	
1/15/2008	<300	<20	17	<0.50	<0.50	2.3	<0.50	<0.50	
7/15/2008	<300	<10	25	<0.50	<0.50	3.4	<0.50	<0.50	
10/21/2008	<600	<20	18	<1.0	<1.0	1.9	<1.0	<1.0	
1/6/2009	<300	<10	8.3	<0.50	<0.50	0.81	<0.50	<0.50	
4/21/2009	<300	<10	4.1	<0.50	<0.50	<0.50	<0.50	<0.50	
7/21/2009	<300	<10	8.6	<0.50	<0.50	0.89	<0.50	<0.50	
3/18/2010	<100	<4.0	2.5	<0.50	<0.50	<0.50	<0.50	<0.50	
AW-5									
7/7/2003	<2,000	1,200	980	<10	<10	210	--	--	
02/05/2004	<2,000	1,200	810	<10	<10	160	<10	<10	
07/01/2004	<1,000	1,600	550	<5.0	<5.0	94	<5.0	<5.0	
03/16/2005	<10,000	2,100	890	<50	<50	190	<50	<50	
07/22/2005	<1,000	370	390	<5.0	<5.0	78	<5.0	<5.0	
01/25/2006	<3,000	580	26	<5.0	<5.0	5.2	<5.0	<5.0	

Table 2. Summary of Fuel Additives Analytical Data
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
AW-5 Cont.									
7/6/2006	<3,000	240	170	<5.0	<5.0	37	<5.0	<5.0	
1/8/2007	<1500	240	220	<2.5	<2.5	51	<2.5	--	
7/10/2007	<1,500	110	360	<2.5	<2.5	92	<2.5	<2.5	
1/15/2008	<300	200	85	<0.50	<0.50	21	<0.50	<0.50	
7/15/2008	<300	100	11	<0.50	<0.50	2.4	<0.50	<0.50	
10/21/2008	<300	130	63	<0.50	<0.50	16	<0.50	<0.50	
1/6/2009	<600	150	26	<1.0	<1.0	5.0	<1.0	<1.0	
4/21/2009	<300	130	5.1	<0.50	<0.50	1.3	<0.50	<0.50	
7/21/2009	<300	110	25	<0.50	<0.50	5.2	<0.50	<0.50	
3/18/2010	<100	52	72	<0.50	<0.50	16	<0.50	<0.50	
AW-6									
02/05/2004	<10,000	<2,000	5,400	<50	<50	1,800	<50	<50	
07/01/2004	<10,000	<2,000	4,600	<50	<50	1,600	<50	<50	
03/16/2005	<5,000	<1,000	4,400	<25	<25	1,400	<25	<25	
07/22/2005	<10,000	<2,000	5,500	<50	<50	1,400	<50	<50	
01/25/2006	<30,000	<2,000	3,000	<50	<50	940	<50	<50	
7/6/2006	<30,000	<2,000	2,800	<50	<50	780	<50	<50	
1/8/2007	<30000	<2000	7400	<50	<50	1900	<50	--	
7/10/2007	<60,000	<4,000	3,900	<100	<100	890	<100	<100	
1/15/2008	<600	<40	150	<1.0	<1.0	42	<1.0	<1.0	
7/15/2008	<300	20	270	<0.50	<0.50	66	<0.50	<0.50	
10/21/2008	<3,000	<100	160	<5.0	<5.0	37	<5.0	<5.0	
1/6/2009	<3,000	<100	97	<5.0	<5.0	23	<5.0	<5.0	
4/21/2009	<300	26	22	<0.50	<0.50	3.0	<0.50	<0.50	
7/21/2009	<300	<10	93	<0.50	<0.50	28	<0.50	<0.50	
3/18/2010	<100	83	93	<0.50	<0.50	22	<0.50	<0.50	
AW-7									
02/05/2004	--	--	--	--	--	--	--	--	
07/01/2004	--	--	--	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
AW-7 Cont.									
03/16/2005	--	--	--	--	--	--	--	--	--
07/22/2005	--	--	--	--	--	--	--	--	--
01/25/2006	--	--	--	--	--	--	--	--	--
AW-8									
02/05/2004	--	--	--	--	--	--	--	--	--
07/01/2004	--	--	--	--	--	--	--	--	--
03/16/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
07/22/2005	--	--	--	--	--	--	--	--	--
01/25/2006	--	--	--	--	--	--	--	--	--
MW-1									
7/7/2003	<1,000	<200	24	<5.0	<5.0	<5.0	--	--	--
02/05/2004	<1,000	<200	9.2	<5.0	<5.0	<5.0	<5.0	<5.0	--
07/01/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	--
03/16/2005	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
07/22/2005	<2,000	<400	<10	<10	<10	<10	<10	<10	--
01/25/2006	<1,500	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	--
7/6/2006	<1,500	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	--
1/8/2007	<300	<20	2.1	<0.50	<0.50	<0.50	<0.50	--	--
7/10/2007	<300	<20	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	--
1/15/2008	<300	<20	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	--
7/15/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
10/21/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
1/6/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
4/21/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
7/21/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
3/18/2010	<100	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
MW-2									
02/05/2004	--	--	--	--	--	--	--	--	--
07/01/2004	--	--	--	--	--	--	--	--	--

Table 2. Summary of Fuel Additives Analytical Data
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-2 Cont.									
03/16/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
07/22/2005	--	--	--	--	--	--	--	--	
01/25/2006	--	--	--	--	--	--	--	--	
MW-3									
7/7/2003	<100	<20	8.8	<0.50	<0.50	0.65	--	--	
02/05/2004	<100	<20	4.6	<0.50	<0.50	<0.50	<0.50	<0.50	
07/01/2004	<100	<20	3.3	<0.50	<0.50	<0.50	<0.50	<0.50	
03/16/2005	<100	<20	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	
07/22/2005	<100	<20	4.1	<0.50	<0.50	<0.50	<0.50	<0.50	
01/25/2006	<300	<20	3.0	<0.50	<0.50	<0.50	<0.50	<0.50	
7/6/2006	<300	<50	3.0	<0.50	<0.50	<0.50	<0.50	<0.50	
1/8/2007	<300	<20	3.2	<0.50	<0.50	<0.50	<0.50	--	
7/10/2007	<300	<20	2.8	<0.50	<0.50	<0.50	<0.50	<0.50	
1/15/2008	<300	<20	0.88	<0.50	<0.50	<0.50	<0.50	<0.50	
7/15/2008	<300	<10	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
10/21/2008	<300	<10	0.94	<0.50	<0.50	<0.50	<0.50	<0.50	
1/6/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/21/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/21/2009	<300	<10	0.60	<0.50	<0.50	<0.50	<0.50	<0.50	
3/18/2010	<100	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
RW-1									
7/7/2003	<50,000	<10,000	<250	<250	<250	<250	--	--	
07/01/2004	<10,000	<2,000	72	<50	<50	<50	<50	<50	
03/16/2005	<2,000	<400	53	<10	<10	<10	<10	<10	
07/22/2005	<500	<100	51	<2.5	<2.5	5.6	<2.5	<2.5	
01/25/2006	<3,000	<200	34	<5.0	<5.0	<5.0	<5.0	<5.0	
7/6/2006	<6,000	<400	64	<10	<10	<10	<10	<10	
1/8/2007	<6000	<400	22	<10	<10	<10	<10	--	
7/10/2007	<600	<40	21	<1.0	<1.0	<1.0	<1.0	<1.0	

Table 2. Summary of Fuel Additives Analytical Data
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
RW-1 Cont.									
1/15/2008	<600	<40	14	<1.0	<1.0	1.3	<1.0	<1.0	
7/15/2008	<300	<10	12	<0.50	<0.50	1.0	<0.50	<0.50	
10/21/2008	<300	17	12	<0.50	<0.50	<0.50	<0.50	<0.50	
1/6/2009	<300	14	7.0	<0.50	<0.50	0.63	<0.50	<0.50	
4/21/2009	<300	47	6.0	<0.50	<0.50	0.58	<0.50	<0.50	b
7/21/2009	<300	15	7.0	<0.50	<0.50	0.67	<0.50	<0.50	
3/18/2010	<500	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
VEW-4									
07/22/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
1/15/2008	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/15/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/21/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/21/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
VEW-8									
07/22/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

ABBREVIATIONS & SYMBOLS:

-- = Not analyzed/applicable/measured/available

< = Not detected at or above specified laboratory reporting limit

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

µg/L = Micrograms per Liter

FOOTNOTES:

a = Calibration verification for ethanol is within method limits but outside contractual limits.

b = Sample taken from VOA vial with air bubble > 6mm diameter.

NOTES:

All volatile organic compounds analyzed using EPA Method 8260B.

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

**Table 3. Historical Ground-Water Flow Direction and Gradient
Station #11133, 2220 98th Ave., Oakland, CA**

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
1/25/2006	Variable: East to Southwest	0.03 to 0.09
7/6/2006	Variable: East to W towards Center	0.04 to 0.05
1/8/2007	Variable: East to W towards Center	0.03 to 0.05
7/10/2007	West	0.01
1/15/2008	West-Southwest	0.006
7/15/2008	West-Southwest	0.01
10/21/2008	West-Southwest	0.01
1/6/2009	West	0.009
4/21/2009	West	0.01
7/21/2009	West	0.01
3/18/2010	West	0.008

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

Table 4. Bio-Degradation Parameters
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	pH	ORP (mV)	Total Alkalinity (µg/L)	DO (mg/L)	Nitrate NO3 (µg/L)	Sulfate SO4 (µg/L)	Soluble Sulfide (µg/L)	CO2 (µg/L)	Methane (µg/L)	Manganese (µg/L)	Ferrous Iron (mg/L)	Comments
AW-1												
3/16/2005	6.7	-10	420,000	0.8	<500	580	<1,000	81,400	3,290	6,500	3.4	
1/15/2008	6.91	-58	410,000	0.92	<500	1,900	<1,000	190,000	3,200	6,400	3.2	a, b
7/15/2008	6.79	-96.5	488,000	6.0	<100	<1,000	<1,000	400,000	2,090	7,200	6.0	
10/21/2008	7.01	-130.1	498,000	2.40	<100	2,500	<50	178,000	381	8,080	2.0	b, c
1/6/2009	6.09	-128	446,000	1.39	<100	1,400	<50	190,000	593	7,810	3.0	
4/21/2009	7.28	-126.7	456,000	2.29	<100	1,800	<50	189,000	1,650	7,070	3.6	
7/21/2009	7.23	-137.6	480,000	17.46	<100	1,800	<50	278,000	1,920	7,640	2.9	a, e
3/18/2010	6.57	-38	--	0.68	--	--	--	--	--	--	--	
AW-2												
1/15/2008	6.79	-88	190,000	0.83	4,400	21,000	<1,000	52,000	210	1,100	<0.5	a
7/15/2008	7.05	-190.1	168,000	2.14	440	38,000	<50	100,000	7.42	1,570	0.5	
10/21/2008	7.33	-47.2	176,000	1.65	890	36,000	<50	24,200	111	1,130	0.5	c, d
1/6/2009	6.94	129	168,000	0.84	390	22,000	<50	28,100	50.4	996	0.6	
4/21/2009	7.42	53.3	162,000	1.89	860	22,000	<50	37,600	209	1,240	0.39	
7/21/2009	7.32	97.3	144,000	9.29	160	29,000	<50	38,200	174	630	0.1	a, e
AW-4												
3/16/2005	6.5	10	310,000	0.6	<500	71,000	<1,000	54,200	585	5,600	1.4	
1/15/2008	6.75	-91	390,000	1.30	<500	82,000	<1,000	120,000	610	5,000	1.5	a, b
7/15/2008	6.91	-90.0	598,000	2.64	<100	47,000	<50	354,000	777	7,110	6.0	
10/21/2008	7.25	-123.3	510,000	1.54	<100	61,000	<50	101,000	75.3	8,440	3.0	c, d
1/6/2009	6.31	-29	400,000	0.70	<100	78,000	<50	76,400	148	6,330	0.5	
4/21/2009	7.48	-102.9	328,000	3.51	<100	83,000	<50	77,500	330	4,880	3.4	
7/21/2009	7.04	-159.9	414,000	6.14	<100	68,000	<50	75,300	638	7,340	2.5	a, e
3/18/2010	6.71	-57	--	0.79	--	--	--	--	--	--	--	
AW-5												
1/15/2008	6.82	-101	230,000	0.90	<500	12,000	<1,000	79,000	120	2,300	1.4	a
7/15/2008	6.85	-97.9	238,000	2.13	<100	12,000	<50	161,000	9.29	2,560	0.5	
10/21/2008	7.10	-84.9	216,000	1.01	<100	14,000	<50	57,800	59.8	1,680	0.5	c, d
1/6/2009	6.22	-79	224,000	0.70	<100	13,000	<50	52,400	106	2,920	0.5	

Table 4. Bio-Degradation Parameters
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	pH	ORP (mV)	Total Alkalinity (µg/L)	DO (mg/L)	Nitrate NO3 (µg/L)	Sulfate SO4 (µg/L)	Soluble Sulfide (µg/L)	CO2 (µg/L)	Methane (µg/L)	Manganese (µg/L)	Ferrous Iron (mg/L)	Comments
AW-5 Cont.												
4/21/2009	7.35	-43.8	216,000	2.09	<100	10,000	<50	57,700	142	2,710	1.5	
7/21/2009	7.14	-139.1	226,000	6.50	<100	9,300	<50	63,700	91.3	2,430	1.1	a, e
3/18/2010	6.64	--	--	0.74	--	--	--	--	--	--	--	
AW-6												
1/15/2008	6.80	-94	150,000	0.58	<500	21,000	<1,000	41,000	50	1,200	<0.1	a
7/15/2008	6.87	-40.8	160,000	2.12	<100	23,000	<50	163,000	1.27	1,370	0.0	
10/21/2008	7.19	-33.9	152,000	1.01	<100	20,000	<50	39,400	104	1,290	0.5	c, d
1/6/2009	6.23	-25	156,000	0.94	<100	21,000	<50	37,500	69.1	1,360	0.5	
4/21/2009	7.38	35.0	166,000	4.29	<100	17,000	<50	46,600	1.12	167	<0.1	
7/21/2009	7.09	-39.9	168,000	10.79	<100	16,000	<50	39,100	127	2,050	<0.1	a, e
3/18/2010	6.75	-32	--	0.68	--	--	--	--	--	--	--	
MW-1												
3/16/2005	6.9	-175	310,000	0.9	<500	13,000	<1,000	49,900	4,550	7,700	2.7	
1/15/2008	7.13	-150	320,000	0.94	<500	51,000	<1,000	67,000	2,900	8,100	1.3	a
7/15/2008	7.06	-174.7	326,000	1.20	<100	50,000	<50	29,200	1,090	8,390	0.5	
10/21/2008	7.30	-200.0	360,000	1.99	<100	27,000	<50	18,700	303	8,050	4.0	c
1/6/2009	6.90	225	368,000	0.69	<100	59,000	<50	21,300	277	10,100	1.6	
4/21/2009	7.54	-196.9	326,000	1.99	<100	90,000	<50	59,300	839	8,540	1.7	
7/21/2009	7.43	-208.3	320,000	6.20	<100	120,000	<50	67,200	1,120	9,250	0.46	a, e
3/18/2010	6.89	-70	--	0.90	--	--	--	--	--	--	--	
MW-2												
3/16/2005	7.1	30	85,000	1.3	5,300	38,000	<1,000	7,370	<1.0	2,200	0.7	
MW-3												
1/15/2008	7.10	-128	130,000	1.04	2,500	44,000	<1,000	29,000	<1.0	120	<0.1	a
7/15/2008	7.06	-47.6	112,000	1.60	820	78,000	<50	29,000	<1.0	61.8	0.5	
10/21/2008	7.28	-120.6	92,000	2.21	640	52,000	<50	15,400	<1.0	19.3	0.5	c
1/6/2009	6.43	-22	94,000	1.02	420	38,000	<50	14,000	<1.0	25.5	0.0	
4/21/2009	7.59	-119.9	108,000	2.26	360	44,000	<50	22,400	<1.0	46.9	<0.1	

Table 4. Bio-Degradation Parameters
Station #11133, 2220 98th Ave., Oakland, CA

Well and Sample Date	pH	ORP (mV)	Total Alkalinity (µg/L)	DO (mg/L)	Nitrate NO3 (µg/L)	Sulfate SO4 (µg/L)	Soluble Sulfide (µg/L)	CO2 (µg/L)	Methane (µg/L)	Manganese (µg/L)	Ferrous Iron (mg/L)	Comments
MW-3 Cont.												
7/21/2009	7.43	-35.5	116,000	15.16	970	48,000	<50	20,900	<1.0	153	<0.1	a, e
3/18/2010	7.05	-50	--	0.73	--	--	--	--	--	--	--	
RW-1												
1/15/2008	6.82	-143	350,000	1.31	<500	5,000	<1,000	110,000	1,100	6,100	1.8	a
7/15/2008	6.95	-239.9	358,000	1.32	<100	21,000	<50	212,000	212	7,030	0.5	
10/21/2008	7.17	-188.4	352,000	0.79	<100	10,000	<50	73,500	1,350	6,840	1.0	b, c
1/6/2009	6.43	-279	322,000	0.30	<100	13,000	<50	64,700	279	6,410	1.0	
4/21/2009	7.38	-159.1	370,000	0.86	<100	5,200	100	77,400	1,270	6,790	0.67	
7/21/2009	7.35	-252.5	356,000	13.21	<100	30,000	<50	62,800	479	7,380	0.13	a, e
3/18/2010	6.73	-102	--	0.74	--	--	--	--	--	--	--	
VEW-4												
1/15/2008	6.99	-36	210,000	0.54	3,000	31,000	<1,000	50,000	840	880	<0.5	a
7/15/2008	6.95	-29	254,000	0.59	<100	22,000	<50	90,900	174	2,150	2.0	
4/21/2009	7.41	-110.1	254,000	1.99	<100	13,000	<50	44,700	365	2,800	0.2	
7/21/2009	7.24	-40.3	254,000	8.99	<100	24,000	<50	41,100	2.07	891	<0.1	a, e

ABBREVIATIONS AND SYMBOLS:

< = Not detected at or above specified laboratory reporting limit

ORP = Oxygen reduction potential

DO = Dissolved oxygen

CO₂ = Carbon dioxide

mV = Millivolts

µg/L = Micrograms per liter

mg/L = Milligrams per liter

FOOTNOTES:

a = Sample received after holding time expired for soluble sulfide and ferrous iron analyses

b = Sample analyzed after holding time expired for nitrate analysis

c = Sample received after holding time expired for dissolved sulfide analysis

d = Sample received after holding time expired for nitrate analysis

e = DO value suspect

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

APPENDIX A

**BAI GROUND-WATER SAMPLING DATA
(INCLUDES FIELD DATA SHEETS, LABORATORY REPORT, CHAIN-OF-CUSTODY
DOCUMENTATION, NON-HAZARDOUS WASTE DATA FORM, AND FIELD
PROCEDURES)**

DATE: 3/19/10
PERSONNEL: T. Oddy
WEATHER: Clear 50

PROJECT NO.: 09-98-656
COMMENTS:

Well ID	Time	MEASURING POINT	DTW (FT)	PRODUCT THICKNESS	COMMENTS:							WELL HEAD CONDITION: VAULT, BOLTS, CAP, LOCK, ETC	
					Equip:	Geosquirt	Tubing	Bailers	DO	wli	Ec/pH		
MW-1	1016		9.29										
MW-2	0842		7.93										
MW-3	1025		11.65										
AW-1	1100		13.84										
AW-2	0927		13.92										
AW-3	0720		14.25										
AW-4	0757		14.92										
AW-5	1215		16.18										
AW-6	1135		14.13										
AW-7													Not gauged. Could not find well
AW-8	0734		15.52										
AW-9	0933		16.45										
RW-1	1250		12.87										
VW-1	0857		9.80										
VW-2	0855		0.50										
VW-3	0901		5.42										
VIEW4	0909		12.91										
VIEW5	0912		Dry @ 10.44										Dry at 10.44 ft broken well cap
VIEW6	0846		10.39										
VIEW7	0858		11.16										
VIEW8	0908		14.05										
VIEW9	0752		5.32										



BROADBENT & ASSOCIATES, INC.

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.: MW-1

Project Name/Location: BP 11133 Project #: 09-88-626

Sampler's Name: T. Gaddes Date: 3/18/10

Purging Equipment: Perko

Sampling Equipment: Beuler

Casing Type: PVC

Casing Diameter: _____ Inch

Total Well Depth: 28.35 feet

Depth to Water: 9.21 feet

Water Column Thickness: = 19.14 feet

Unit Casing Volume*: x .16 gallon / foot

Casing Water Volume: = 3.0 gallons

Casing Volume: x 3 each

Estimated Purge Volume: = 9.14 gallons

*UNIT CASING VOLUMES

2" = 0.16 gal/lin ft.
 3" = 0.37 gal/lin ft.
 4" = 0.65 gal/lin ft.
 6" = 1.47 gal/lin ft.

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	0952	.90	-70		614.7	63.8	6.06	
3	0955	X	X	X	570.7	64.5	6.96	
5	0958	1.18	X	X	556.9	64.8	6.89	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 5 gallons

Depth to Water at Sample Collection: 10.87 feet

Sample Collection Time: 1010

Purged Dry? (Y/N) (Y)

Comments: Sheen



BROADBENT & ASSOCIATES, INC.

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.: MW-3
 Project Name/Location: BP 11133 Project #: 09-88-056
 Sampler's Name: T. Graddes Date: 3/18/10
 Purging Equipment: Perlator
 Sampling Equipment: Perlator

Casing Type: PVC
 Casing Diameter: _____ inch
 Total Well Depth: 34.15 feet
 Depth to Water: 11.65 feet
 Water Column Thickness: = 22.35 feet
 Unit Casing Volume*: x .16 gallon / foot
 Casing Water Volume: = 3.5 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 10.7 gallons

*UNIT CASING VOLUMES

2" = 0.16 gal/lin ft.
 3" = 0.37 gal/lin ft.
 4" = 0.65 gal/lin ft.
 6" = 1.47 gal/lin ft.

Free product measurement (if present): _____

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1016	.73	58		357.8	66.6	7.33	
3	1019	X	X	X	327.8	62.0	7.0	
5	1022	1.26	X	X	328.0	65.9	7.05	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 5 gallons
 Depth to Water at Sample Collection: 14.9 feet
 Sample Collection Time: 1025

Purged Dry? (Y (N))

Comments: _____



BROADBENT & ASSOCIATES, INC.

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.: AW-1

Project Name/Location: BP 11133 Project #: 09-88-656

Sampler's Name: T. Geddes Date: 3/18/10

Purging Equipment: Becker

Sampling Equipment: Becker

Casing Type: PVC

Casing Diameter: 2 inch

Total Well Depth: 38.5 feet

Depth to Water: 13.84 feet

Water Column Thickness: 24.66 feet

Unit Casing Volume*: x .16 gallon / foot

Casing Water Volume: = 3.9 gallons

Casing Volume: x 3 each

Estimated Purge Volume: = 11.7 gallons

***UNIT CASING VOLUMES**

2" = 0.16 gal/lin ft.
 3" = 0.37 gal/lin ft.
 4" = 0.65 gal/lin ft.
 6" = 1.47 gal/lin ft.

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1044	.68	-38		594.9	69.5	6.61	
3.5	1048	X	X	X	822.4	69.7	6.57	
5.5	1052	.62	X	X	838.6	69.3	6.57	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 5.5 gallons

Depth to Water at Sample Collection: 22.30 feet

Sample Collection Time: 1600

Purged Dry? (Y/N) (N)

Comments:



BROADBENT & ASSOCIATES, INC.

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.: AW-4
 Project Name/Location: BP 11133 Project #: 09-88-C56
 Sampler's Name: T. Geddes Date: 3/19/10
 Purging Equipment: Baker
 Sampling Equipment: Baker

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 32.79 feet
 Depth to Water: 14.92 feet
 Water Column Thickness: 17.84 feet
 Unit Casing Volume*: x 1.6 gallon / foot
 Casing Water Volume: = 2.8 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 8.5 gallons

*UNIT CASING VOLUMES

2" = 0.16 gal/lin ft.
 3" = 0.37 gal/lin ft.
 4" = 0.65 gal/lin ft.
 6" = 1.47 gal/lin ft.

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	0804	.79	-57		791.8	64.1	6.93	
2	0806	X	X	X	859.8	64.3	6.75	
4	0809	X	X	X	879.7	64.9	6.71	
5	0811	.85	X	X	841.8	65.2	6.71	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 5 gallons
 Depth to Water at Sample Collection: _____ feet
 Sample Collection Time: 0819 Purged Dry? (Y/N) (N)

Comments:



BROADBENT & ASSOCIATES, INC.

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.: AW-5
 Project Name/Location: BP 11133 Project #: 09-88-656
 Sampler's Name: T. Geddes Date: 3/18/10
 Purging Equipment: Pump
 Sampling Equipment: Oaives

Casing Type: PVC
 Casing Diameter: 4" inch
 Total Well Depth: 42.90 feet
 Depth to Water: 16.18 feet
 Water Column Thickness: 26.72 feet
 Unit Casing Volume*: x .65 gallon / foot
 Casing Water Volume: = 17.3 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 52.1 gallons

***UNIT CASING VOLUMES**
 2" = 0.16 gal/lin ft.
 3" = 0.37 gal/lin ft.
 4" = 0.65 gal/lin ft.
 6" = 1.47 gal/lin ft.

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1151	.74			432.8	67.5	6.71	
10	1154	X	X	X	435.6	67.9	6.70	
15	1156	X	X	X	437.3	68.1	6.69	
20	1158	X	X	X	440.9	68.1	6.71	
27.5	1200	X	X	X	467.0	68.4	6.72	
30	1202	X	X	X	470.7	68.3	6.64	
35	1203	X	X	X	489.4	68.3	6.64	
		X	X	X				

Total Water Volume Purged: 36 gallons
 Depth to Water at Sample Collection: 25.08 feet
 Sample Collection Time: 12:15

Purged Dry? (Y/N) (N)

Comments:



BROADBENT & ASSOCIATES, INC.

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.: AW-6
 Project Name/Location: BP 6635 Project #: 09-88-656
 Sampler's Name: T. Gaddis Date: 3/18/10
 Purging Equipment: Pump
 Sampling Equipment: Beiler

Casing Type: PVC
 Casing Diameter: 4 inch
 Total Well Depth: 34.10 feet
 Depth to Water: 14.13 feet
 Water Column Thickness: = 19.97 feet
 Unit Casing Volume*: x .65 gallon / foot
 Casing Water Volume: = 12.9 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 38.7 gallons

*UNIT CASING VOLUMES

2" = 0.16 gal/lin ft.
 3" = 0.37 gal/lin ft.
 4" = 0.65 gal/lin ft.
 6" = 1.47 gal/lin ft.

Free product measurement (if present): _____

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
8	1118	.68	-32		369.5	67.6	7.15	
10	1121	X	X	X	365.2	68.1	6.93	
15	1123	X	X	X	365.7	68.4	6.77	
20	1125	X	X	X	383.6	68.4	6.79	
21	1127	X	X	X	770.7	68.1	6.75	
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 21 gallons
 Depth to Water at Sample Collection: 31.73 feet
 Sample Collection Time: 1135

Purged Dry? (Y/N) (N)

Comments:

Groundwater Sampling Data Sheet

Well I.D.: RW-1
 Project Name/Location: ~~BP 11133~~ BP 11133 Project #: 09-88-656
 Sampler's Name: T. G. Guder Date: 3/18/10
 Purging Equipment: Pump
 Sampling Equipment: bauler

Casing Type: PVC
 Casing Diameter: 6 inch
 Total Well Depth: 37.70 feet
 Depth to Water: - 12.87 feet
 Water Column Thickness: = 24.83 feet
 Unit Casing Volume*: x 1.47 gallon / foot
 Casing Water Volume: = 36.5 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 109.5 gallons

***UNIT CASING VOLUMES**

2" = 0.16 gal/lin ft.
 3" = 0.37 gal/lin ft.
 4" = 0.65 gal/lin ft.
 6" = 1.47 gal/lin ft.

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1225	.74	-162		616.1	70.00	6.78	
10	1228	X	X	X	595.7	70.5	6.88	
20	1232	X	X	X	552.6	71.0	6.79	
30	1236	X	X	X	555.9	72.5	6.79	
40	1239	X	X	X	615.5	70.00	6.75	
45	1241	X	X	X	647.8	69.5	6.73	
50		X	X	X	663.8	69.8	6.73	
		X	X	X				

Total Water Volume Purged: 50 gallons
 Depth to Water at Sample Collection: 31.12 feet
 Sample Collection Time: 1250

Purged Dry? (Y/N) (N)

Comments: Shoen

NO.683419

NON-HAZARDOUS WASTE DATA FORM

BESI #

GENERATOR

Generator's Name and Mailing Address
BP WEST COAST PRODUCTS, LLC
P.O. BOX 80249
RANCHO SANTA MARGARITA, CA 92688

Generator's Site Address (if different than mailing address)
FORMER ARCO 11133
2220 98TH AVE.
OAKLAND, CA 94603

Generator's Phone: 949-460-5200

24-HOUR EMERGENCY PHONE: 800-424-9300

Container type removed from site:
 Drums Vacuum Truck Roll-off Truck Dump Truck
 Other _____

Container type transported to receiving facility:
 Drums Vacuum Truck Roll-off Truck Dump Truck
 Other _____

Quantity 120.5 G

Quantity _____ Volume _____

WASTE DESCRIPTION NON-HAZARDOUS WATER

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

GENERATING PROCESS WELL PURGING / DECON WATER

COMPONENTS OF WASTE	PPM	%
3. _____		
4. _____		

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

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

Generator Printed/Typed Name Emily LEAMON
On Behalf of BP West Coast Products, LLC

Signature

Month Day Year 3 | 1 | 10

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

TRANSPORTER

Transporter 1 Company Name BAI

Phone# 707-455-7295

Transporter 1 Printed/Typed Name Eric Furr

Signature

Month Day Year 3 | 1 | 10

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
INSTRAT, INC.
1105 AIRPORT RD.
RIO VISTA, CA 94571

Phone# 530-753-1829

Printed/Typed Name

Signature

Month Day Year

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

ANALYTICAL REPORT

Job Number: 720-26775-1

Job Description: BP #11133, Oakland

For:

ARCADIS U.S., Inc.
155 Montgomery Street
Suite 1500
San Francisco, CA 94104
Attention: Hollis Phillips



Approved for release.
Dimple Sharma
Project Manager I
3/31/2010 7:10 PM

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
03/31/2010

cc: Mr. Jason Duda
Mr. Ben McKenna

CA ELAP Certification # 2496

The Chain(s) of Custody are included and are an integral part of this report.

The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.

A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

TestAmerica Laboratories, Inc.

TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566

Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Comments

No additional comments.

Receipt

Did not receive any trip blank vials.

All other samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-26775-1	MW-1(03/18/10)				
Benzene		1.2	0.50	ug/L	8260B/CA_LUFTMS
Ethylbenzene		5.2	0.50	ug/L	8260B/CA_LUFTMS
Xylenes, Total		2.7	1.0	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C6-C12		1900	1000	ug/L	8260B/CA_LUFTMS
720-26775-3	AW-1(03/18/10)				
Benzene		260	10	ug/L	8260B/CA_LUFTMS
Ethylbenzene		540	10	ug/L	8260B/CA_LUFTMS
Xylenes, Total		180	20	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C6-C12		4900	1000	ug/L	8260B/CA_LUFTMS
TAME		19	10	ug/L	8260B/CA_LUFTMS
720-26775-4	AW-4(03/18/10)				
MTBE		2.5	0.50	ug/L	8260B/CA_LUFTMS
Ethylbenzene		15	0.50	ug/L	8260B/CA_LUFTMS
Xylenes, Total		21	1.0	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C6-C12		240	50	ug/L	8260B/CA_LUFTMS
720-26775-5	AW-5(03/18/10)				
MTBE		72	0.50	ug/L	8260B/CA_LUFTMS
TBA		52	4.0	ug/L	8260B/CA_LUFTMS
TAME		16	0.50	ug/L	8260B/CA_LUFTMS
720-26775-6	AW-6(03/18/10)				
MTBE		93	0.50	ug/L	8260B/CA_LUFTMS
TBA		83	4.0	ug/L	8260B/CA_LUFTMS
TAME		22	0.50	ug/L	8260B/CA_LUFTMS
720-26775-7	RW-1(03/18/10)				
Ethylbenzene		2.7	2.5	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C6-C12		2500	250	ug/L	8260B/CA_LUFTMS

METHOD SUMMARY

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
8260B / CA LUFT MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

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

SAMPLE SUMMARY

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-26775-1	MW-1(03/18/10)	Water	03/18/2010 1010	03/22/2010 1800
720-26775-2	MW-3(03/18/10)	Water	03/18/2010 1025	03/22/2010 1800
720-26775-3	AW-1(03/18/10)	Water	03/18/2010 1100	03/22/2010 1800
720-26775-4	AW-4(03/18/10)	Water	03/18/2010 0819	03/22/2010 1800
720-26775-5	AW-5(03/18/10)	Water	03/18/2010 1215	03/22/2010 1800
720-26775-6	AW-6(03/18/10)	Water	03/18/2010 1135	03/22/2010 1800
720-26775-7	RW-1(03/18/10)	Water	03/18/2010 1250	03/22/2010 1800

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

Client Sample ID: MW-1(03/18/10)

Lab Sample ID: 720-26775-1

Date Sampled: 03/18/2010 1010

Client Matrix: Water

Date Received: 03/22/2010 1800

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-68209 Instrument ID: CHMSV2
Preparation: 5030B Lab File ID: 03241009.D
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 03/24/2010 1254 Final Weight/Volume: 10 mL
Date Prepared: 03/24/2010 1254

Analyte	Result (ug/L)	Qualifier	RL
MTBE	ND		0.50
Benzene	1.2		0.50
EDB	ND		0.50
1,2-DCA	ND		0.50
Ethylbenzene	5.2		0.50
Toluene	ND		0.50
Xylenes, Total	2.7		1.0
TBA	ND		4.0
Ethanol	ND		100
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	107		67 - 130
1,2-Dichloroethane-d4 (Surr)	89		67 - 130
Toluene-d8 (Surr)	102		70 - 130

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

Client Sample ID: MW-1(03/18/10)

Lab Sample ID: 720-26775-1

Date Sampled: 03/18/2010 1010

Client Matrix: Water

Date Received: 03/22/2010 1800

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA_LUFTMS
Preparation: 5030B
Dilution: 20
Date Analyzed: 03/23/2010 0255
Date Prepared: 03/23/2010 0255

Analysis Batch: 720-68092

Instrument ID: HP12
Lab File ID: 03221034.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C12	1900		1000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		67 - 130
Toluene-d8 (Surr)	98		70 - 130

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

Client Sample ID: MW-3(03/18/10)

Lab Sample ID: 720-26775-2

Date Sampled: 03/18/2010 1025

Client Matrix: Water

Date Received: 03/22/2010 1800

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-68092 Instrument ID: HP12
Preparation: 5030B Lab File ID: 03221035.D
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 03/23/2010 0326 Final Weight/Volume: 10 mL
Date Prepared: 03/23/2010 0326

Analyte	Result (ug/L)	Qualifier	RL
MTBE	ND		0.50
Benzene	ND		0.50
EDB	ND		0.50
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	77		67 - 130
Toluene-d8 (Surr)	96		70 - 130

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

Client Sample ID: MW-3(03/18/10)

Lab Sample ID: 720-26775-2

Date Sampled: 03/18/2010 1025

Client Matrix: Water

Date Received: 03/22/2010 1800

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-68209	Instrument ID:	CHMSV2
Preparation:	5030B		Lab File ID:	03241013.D
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	03/24/2010 1504		Final Weight/Volume:	10 mL
Date Prepared:	03/24/2010 1504			

Analyte	Result (ug/L)	Qualifier	RL
TBA	ND		4.0
Ethanol	ND		100

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	92		67 - 130
Toluene-d8 (Surr)	101		70 - 130

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

Client Sample ID: AW-1(03/18/10)

Lab Sample ID: 720-26775-3

Date Sampled: 03/18/2010 1100

Client Matrix: Water

Date Received: 03/22/2010 1800

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-68209	Instrument ID:	CHMSV2
Preparation:	5030B		Lab File ID:	03241014.D
Dilution:	20		Initial Weight/Volume:	10 mL
Date Analyzed:	03/24/2010 1536		Final Weight/Volume:	10 mL
Date Prepared:	03/24/2010 1536			

Analyte	Result (ug/L)	Qualifier	RL
MTBE	ND		10
Benzene	260		10
EDB	ND		10
1,2-DCA	ND		10
Ethylbenzene	540		10
Toluene	ND		10
Xylenes, Total	180		20
Gasoline Range Organics (GRO)-C6-C12	4900		1000
TBA	ND		80
Ethanol	ND		2000
DIPE	ND		10
TAME	19		10
Ethyl t-butyl ether	ND		10

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	93		67 - 130
Toluene-d8 (Surr)	101		70 - 130

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

Client Sample ID: AW-4(03/18/10)

Lab Sample ID: 720-26775-4

Date Sampled: 03/18/2010 0819

Client Matrix: Water

Date Received: 03/22/2010 1800

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-68092	Instrument ID:	HP12
Preparation:	5030B		Lab File ID:	03221037.D
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	03/23/2010 0428		Final Weight/Volume:	10 mL
Date Prepared:	03/23/2010 0428			

Analyte	Result (ug/L)	Qualifier	RL
MTBE	2.5		0.50
Benzene	ND		0.50
EDB	ND		0.50
1,2-DCA	ND		0.50
Toluene	ND		0.50
TBA	ND		4.0
Ethanol	ND		100
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	94		67 - 130
Toluene-d8 (Surr)	98		70 - 130

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

Client Sample ID: AW-4(03/18/10)

Lab Sample ID: 720-26775-4

Date Sampled: 03/18/2010 0819

Client Matrix: Water

Date Received: 03/22/2010 1800

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-68209	Instrument ID:	CHMSV2
Preparation:	5030B		Lab File ID:	03241018.D
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	03/24/2010 1746		Final Weight/Volume:	10 mL
Date Prepared:	03/24/2010 1746			

Analyte	Result (ug/L)	Qualifier	RL
Ethylbenzene	15		0.50
Xylenes, Total	21		1.0
Gasoline Range Organics (GRO)-C6-C12	240		50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		67 - 130
1,2-Dichloroethane-d4 (Surr)	96		67 - 130
Toluene-d8 (Surr)	100		70 - 130

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

Client Sample ID: AW-5(03/18/10)

Lab Sample ID: 720-26775-5

Date Sampled: 03/18/2010 1215

Client Matrix: Water

Date Received: 03/22/2010 1800

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-68092 Instrument ID: HP12
Preparation: 5030B Lab File ID: 03221038.D
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 03/23/2010 0459 Final Weight/Volume: 10 mL
Date Prepared: 03/23/2010 0459

Analyte	Result (ug/L)	Qualifier	RL
MTBE	72		0.50
Benzene	ND		0.50
EDB	ND		0.50
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
TBA	52		4.0
Ethanol	ND		100
DIPE	ND		0.50
TAME	16		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		67 - 130
Toluene-d8 (Surr)	97		70 - 130

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

Client Sample ID: AW-6(03/18/10)

Lab Sample ID: 720-26775-6

Date Sampled: 03/18/2010 1135

Client Matrix: Water

Date Received: 03/22/2010 1800

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-68092	Instrument ID:	HP12
Preparation:	5030B		Lab File ID:	03221039.D
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	03/23/2010 0530		Final Weight/Volume:	10 mL
Date Prepared:	03/23/2010 0530			

Analyte	Result (ug/L)	Qualifier	RL
MTBE	93		0.50
Benzene	ND		0.50
EDB	ND		0.50
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
TBA	83		4.0
Ethanol	ND		100
DIPE	ND		0.50
TAME	22		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	97		67 - 130
Toluene-d8 (Surr)	95		70 - 130

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

Client Sample ID: RW-1(03/18/10)

Lab Sample ID: 720-26775-7

Date Sampled: 03/18/2010 1250

Client Matrix: Water

Date Received: 03/22/2010 1800

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-68092	Instrument ID:	HP12
Preparation:	5030B		Lab File ID:	03221040.D
Dilution:	5.0		Initial Weight/Volume:	10 mL
Date Analyzed:	03/23/2010 0601		Final Weight/Volume:	10 mL
Date Prepared:	03/23/2010 0601			

Analyte	Result (ug/L)	Qualifier	RL
MTBE	ND		2.5
Benzene	ND		2.5
EDB	ND		2.5
1,2-DCA	ND		2.5
Ethylbenzene	2.7		2.5
Toluene	ND		2.5
Xylenes, Total	ND		5.0
Gasoline Range Organics (GRO)-C6-C12	2500		250
TBA	ND		20
Ethanol	ND		500
DIPE	ND		2.5
TAME	ND		2.5
Ethyl t-butyl ether	ND		2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	95		67 - 130
Toluene-d8 (Surr)	97		70 - 130

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
-------------	-----------	-------------

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS VOA					
Analysis Batch:720-68092					
LCS 720-68092/5	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCS 720-68092/7	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCSD 720-68092/6	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
LCSD 720-68092/8	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
MB 720-68092/9	Method Blank	T	Water	8260B/CA_LUFT	
720-26775-1	MW-1(03/18/10)	T	Water	8260B/CA_LUFT	
720-26775-2	MW-3(03/18/10)	T	Water	8260B/CA_LUFT	
720-26775-4	AW-4(03/18/10)	T	Water	8260B/CA_LUFT	
720-26775-5	AW-5(03/18/10)	T	Water	8260B/CA_LUFT	
720-26775-6	AW-6(03/18/10)	T	Water	8260B/CA_LUFT	
720-26775-7	RW-1(03/18/10)	T	Water	8260B/CA_LUFT	
Analysis Batch:720-68209					
LCS 720-68209/5	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCS 720-68209/7	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCSD 720-68209/6	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
LCSD 720-68209/8	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
MB 720-68209/4	Method Blank	T	Water	8260B/CA_LUFT	
720-26775-1	MW-1(03/18/10)	T	Water	8260B/CA_LUFT	
720-26775-1MS	Matrix Spike	T	Water	8260B/CA_LUFT	
720-26775-1MSD	Matrix Spike Duplicate	T	Water	8260B/CA_LUFT	
720-26775-2	MW-3(03/18/10)	T	Water	8260B/CA_LUFT	
720-26775-3	AW-1(03/18/10)	T	Water	8260B/CA_LUFT	
720-26775-4	AW-4(03/18/10)	T	Water	8260B/CA_LUFT	

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

Method Blank - Batch: 720-68092

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

Lab Sample ID: MB 720-68092/9
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/22/2010 2217
 Date Prepared: 03/22/2010 2217

Analysis Batch: 720-68092
 Prep Batch: N/A
 Units: ug/L

Instrument ID: HP12
 Lab File ID: 03221025.D
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
MTBE	ND		0.50
Benzene	ND		0.50
EDB	ND		0.50
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
TBA	ND		4.0
Ethanol	ND		100
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	98	67 - 130
1,2-Dichloroethane-d4 (Surr)	97	67 - 130
Toluene-d8 (Surr)	97	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68092**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-68092/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2010 2013
Date Prepared: 03/22/2010 2013

Analysis Batch: 720-68092
Prep Batch: N/A
Units: ug/L

Instrument ID: HP12
Lab File ID: 03221021.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-68092/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2010 2044
Date Prepared: 03/22/2010 2044

Analysis Batch: 720-68092
Prep Batch: N/A
Units: ug/L

Instrument ID: HP12
Lab File ID: 03221022.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
MTBE	96	92	81 - 125	4	20		
Benzene	95	96	82 - 127	1	20		
EDB	100	98	70 - 130	2	20		
1,2-DCA	90	86	75 - 145	4	20		
Ethylbenzene	96	97	86 - 135	1	20		
Toluene	92	93	83 - 129	2	20		
TBA	94	93	85 - 110	1	20		
Ethanol	108	106	31 - 216	2	20		
DIPE	93	92	74 - 155	1	20		
TAME	98	95	79 - 129	3	20		
Ethyl t-butyl ether	93	91	70 - 130	2	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	100		101		67 - 130		
1,2-Dichloroethane-d4 (Surr)	92		88		67 - 130		
Toluene-d8 (Surr)	100		98		70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68092**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-68092/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2010 2115
Date Prepared: 03/22/2010 2115

Analysis Batch: 720-68092
Prep Batch: N/A
Units: ug/L

Instrument ID: HP12
Lab File ID: 03221023.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-68092/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2010 2146
Date Prepared: 03/22/2010 2146

Analysis Batch: 720-68092
Prep Batch: N/A
Units: ug/L

Instrument ID: HP12
Lab File ID: 03221024.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C6-C12	77	79	70 - 130	2	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	103		103			67 - 130	
1,2-Dichloroethane-d4 (Surr)	98		97			67 - 130	
Toluene-d8 (Surr)	99		98			70 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

Method Blank - Batch: 720-68209

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

Lab Sample ID: MB 720-68209/4
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/24/2010 1003
 Date Prepared: 03/24/2010 1003

Analysis Batch: 720-68209
 Prep Batch: N/A
 Units: ug/L

Instrument ID: CHMSV2
 Lab File ID: 03241004.D
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
MTBE	ND		0.50
Benzene	ND		0.50
EDB	ND		0.50
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
TBA	ND		4.0
Ethanol	ND		100
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	67 - 130
1,2-Dichloroethane-d4 (Surr)	94	67 - 130
Toluene-d8 (Surr)	99	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68209**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-68209/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2010 1035
Date Prepared: 03/24/2010 1035

Analysis Batch: 720-68209
Prep Batch: N/A
Units: ug/L

Instrument ID: CHMSV2
Lab File ID: 03241005.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-68209/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2010 1107
Date Prepared: 03/24/2010 1107

Analysis Batch: 720-68209
Prep Batch: N/A
Units: ug/L

Instrument ID: CHMSV2
Lab File ID: 03241006.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
MTBE	106	103	81 - 125	3	20		
Benzene	99	98	82 - 127	1	20		
EDB	109	106	70 - 130	3	20		
1,2-DCA	93	91	75 - 145	3	20		
Ethylbenzene	100	100	86 - 135	0	20		
Toluene	93	94	83 - 129	1	20		
TBA	87	87	85 - 110	1	20		
Ethanol	92	93	31 - 216	1	20		
DIPE	100	99	74 - 155	2	20		
TAME	115	108	79 - 129	7	20		
Ethyl t-butyl ether	103	100	70 - 130	2	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	102		102		67 - 130		
1,2-Dichloroethane-d4 (Surr)	92		90		67 - 130		
Toluene-d8 (Surr)	100		101		70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68209**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-68209/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2010 1140
Date Prepared: 03/24/2010 1140

Analysis Batch: 720-68209
Prep Batch: N/A
Units: ug/L

Instrument ID: CHMSV2
Lab File ID: 03241007.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-68209/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2010 1213
Date Prepared: 03/24/2010 1213

Analysis Batch: 720-68209
Prep Batch: N/A
Units: ug/L

Instrument ID: CHMSV2
Lab File ID: 03241008.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C6-C12	82	81	70 - 130	2	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	103		102		67 - 130		
1,2-Dichloroethane-d4 (Surr)	92		94		67 - 130		
Toluene-d8 (Surr)	101		101		70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-68209**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

MS Lab Sample ID: 720-26775-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2010 1326
Date Prepared: 03/24/2010 1326

Analysis Batch: 720-68209
Prep Batch: N/A

Instrument ID: CHMSV2
Lab File ID: 03241010.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-26775-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2010 1431
Date Prepared: 03/24/2010 1431

Analysis Batch: 720-68209
Prep Batch: N/A

Instrument ID: CHMSV2
Lab File ID: 03241012.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
MTBE	109	107	60 - 138	3	20		
Benzene	97	96	60 - 140	1	20		
EDB	110	108	60 - 140	2	20		
1,2-DCA	92	89	60 - 140	3	20		
Ethylbenzene	97	97	60 - 140	0	20		
Toluene	93	92	60 - 140	0	20		
TBA	87	86	60 - 140	1	20		
Ethanol	88	82	60 - 140	7	20		
DIPE	101	98	60 - 140	3	20		
TAME	117	116	60 - 140	2	20		
Ethyl t-butyl ether	104	101	60 - 140	3	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	103		103	67 - 130			
1,2-Dichloroethane-d4 (Surr)	91		91	67 - 130			
Toluene-d8 (Surr)	103		103	70 - 130			

Calculations are performed before rounding to avoid round-off errors in calculated results.

San Francisco
1220 Quarry Lane

Pleasanton, CA 94566
phone 925.484.1919 fax 925.600.3002

720-26775

Chain of Custody Record

12318
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Broadbent and Associates, Inc. Address: 1324 Mangrove Ave. Suite 212 City/State/Zip: Chico, CA 95928 (530) 566-1400 Phone (530) 566-1401 FAX Project Name: BP 11133 Site: 2220 98th Avenue, Oakland, CA P O # GP09BPNA.C107			Project Manager: Jason Duda Tel/Fax: 530-566-1400/530-566-1401			Site Contact: Lab Contact: Dimple Sharma			Date: Carrier:			COC No: of COCs														
Analysis Turnaround Time Calendar (C) or Work Days (W) <u>Std</u> TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Filtered Sample GRO by 8260B BTEX and 5 Oxys by 8260B EDB, 1,2-DCA, and Ethanol by 8260B	Job No.																			
Sample Identification										SDG No.																
Sample Date		Sample Time	Sample Type	Matrix	# of Cont.		Sample Specific Notes:																			
MW-1 (03/19/10)		03/18/10	1016	AQ	3		X	X	X																	
MW-3 (03/18/10)			1025		3		X	X	X																	
AW-1 (03/18/10)			0819		3		X	X	X																	
AW-4 (03/18/10)			1215		3		X	X	X																	
AW-5 (03/18/10)			1135		3		X	X	X																	
AW-6 (03/18/10)			1250		3		X	X	X																	
RW-1 (03/18/10)																										
8 Trip Blank (3/18/10)		3/18/10																							Hold trip blank	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other												Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months														
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown												Special Instructions/QC Requirements & Comments: 3.5°C														
Relinquished by: <i>[Signature]</i>			Company: BAE			Date/Time: 3/19/10 1230			Received by: <i>[Signature]</i>			Company: TASF			Date/Time: 3-19-10 1230 (Ew)											
Relinquished by: <i>[Signature]</i>			Company: TASF			Date/Time: 3/22/10 1525			Received by: <i>[Signature]</i>			Company: TASF			Date/Time: 3/22/10 1525											
Relinquished by: <i>[Signature]</i>			Company: TASF			Date/Time: 3/22/10 1800			Received by: <i>[Signature]</i>			Company: TASF			Date/Time: 3/22/10-1800											

Page 25 of 26

Login Sample Receipt Check List

Client: ARCADIS U.S., Inc.

Job Number: 720-26775-1

Login Number: 26775

List Source: TestAmerica San Francisco

Creator: Hoang, Julie

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	SEE NCM
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

BROADBENT & ASSOCIATES INC. FIELD PROCEDURES

A.1 QUALITY ASSURANCE/QUALITY CONTROL FIELD PROTOCOLS

Field protocols have been implemented to enhance the accuracy and reliability of data collection, ground-water sample collection, transportation and laboratory analysis. Discussion of these protocols is provided below.

A.1.1 Water Level & Free-Product Measurement

Prior to ground-water sample collection from each monitoring well, the presence of separate-phase hydrocarbons (SPH or free product, FP) and depth to ground water shall be measured. Depth to ground water will be measured with a standard water level indicator that has been decontaminated prior to its use in accordance with procedures discussed below. Depth to groundwater will be gauged from a saw cut notch at the top of the well casing on each well head. Where FP is suspected, the initial gauging will be done with an oil-water interface probe. Once depth to water has been measured, the first retrieval of a new disposable bailer will be scrutinized for the presence of SPH/FP.

A.1.2 Monitoring Well Purging

Subsequent to measuring depth to ground water and prior to the collection of ground-water samples, purging of standing water within the monitoring well will be performed if called for. Consistent with the American Society for Testing and Materials (ASTM) Standard D6452-99, Section 7.1, the well will be purged of approximately three wetted-casing volumes of water, or until the well is dewatered, or until monitored field parameters indicate stabilization. The well will be purged using a pre-cleaned disposable bailer or submersible pump and disposable plastic tubing dedicated to each individual well. The well will be purged at a low flow rate to minimize the possibility of purging the well dry. So that the sample collected is representative of formation water, several field parameters will be monitored during the purging process. The sample will not be collected until these parameters (i.e. temperature, pH, and conductivity) have stabilized to within 10% of the previously measured value. If a well is purged dry, the sample should not be collected until the well has recovered to a minimum 50% of its initial volume.

A.1.3 Ground-Water Sample Collection

Once the wells are satisfactorily purged, water samples will be collected from each well. Water samples for organic analyses will be collected using a pre-cleaned, new, disposable bailer and transferred into the appropriate, new, laboratory-prepared containers such that no head space or air bubbles are present in the sample container (if appropriate to the analysis). The samples will be properly labeled (i.e. sample identification, sampler initials, date/time of collection, site location, requested analyses), placed in an ice chest with bagged ice or ice substitute, and delivered to the contracted analytical laboratory.

A.1.4 Surface Water Sample Collection

Unless specified otherwise, surface water samples will be collected from mid-depth in the central area of the associated surface water body. Water samples will be collected into appropriate, new, laboratory-prepared containers by dipping the container into the surface water unless the container has a preservative present. If a sample preservative is present, a new, cleaned non-preserved surrogate container will be used to obtain the sample which will then be directly transferred into a new, laboratory-provided, preserved container. Samples will be properly labeled and transported as described above.

A.1.5 Decontamination Protocol

Prior to use in each well, re-usable ground-water sampling equipment (e.g., water level indicator, oil-interface probe, purge pump, etc.) will be decontaminated. Decontamination protocol will include thoroughly cleaning with a solution of Liquinox, rinsing with clean water, and final rinsing with control water (potable water of known quality, distilled, or de-ionized water). Pre-cleaned new disposable bailers and disposable plastic tubing will be dedicated to each individual well.

A.1.6 Chain of Custody Procedures

Sample identification documents will be carefully prepared so identification and chain of custody can be maintained and sample disposition can be controlled. The sample identification documents include Chain-of-Custody (COC) records and Daily Field Report forms. Chain of custody procedures are outlined below.

Field Custody Procedures

The field sampler is individually responsible for the care and custody of the samples collected until they are properly transferred.

Samples will have unique labels. The information on these labels will correspond to the COC which shows the identification of individual samples and the contents of the shipping container. The original COC will accompany the shipment and a copy will be retained by the field sampler.

Transfer of Custody and Shipment

A COC will accompany samples during transfer and shipment. When transferring samples, the individual relinquishing and the individual receiving the samples will each sign, date, and note the time on the COC. This documents the sample custody transfer.

Samples will be packaged properly for shipment and dispatched to the appropriate laboratory for analysis, with a separate COC accompanying each shipment. Shipments will be accompanied by the original COC. Samples will be delivered by BAI personnel to the laboratory, or shipped by responsible courier. When a shipping courier is utilized, the sample shipment number will be identified on the COC.

A.1.7 Field Records

In addition to sample identification numbers and COC records, Daily Field Report records will be maintained by field staff to provide daily records of significant events, observations, and measurements during field investigations. These documents will contain observed information such as: the personnel present, site conditions, sampling procedures, measurement procedures, calibration records, equipment used, supplies used, etc. Field measurements will be recorded on the appropriate forms. Entries on the data forms will be signed and dated. The data forms will be kept as permanent file records.

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATIONS

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

<u>Submittal Type:</u>	GEO_WELL
<u>Submittal Title:</u>	1Q10 GEO_WELL 11133
<u>Facility Global ID:</u>	T0600100210
<u>Facility Name:</u>	BP #11133
<u>File Name:</u>	GEO_WELL.zip
<u>Organization Name:</u>	Broadbent & Associates, Inc.
<u>Username:</u>	BROADBENT-C
<u>IP Address:</u>	67.118.40.90
<u>Submittal Date/Time:</u>	4/20/2010 9:05:16 AM
<u>Confirmation Number:</u>	5643930017

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

<u>Submittal Type:</u>	EDF - Monitoring Report - Quarterly
<u>Submittal Title:</u>	1Q10 GW Monitoring
<u>Facility Global ID:</u>	T0600100210
<u>Facility Name:</u>	BP #11133
<u>File Name:</u>	11133-720-26775-1.zip
<u>Organization Name:</u>	Broadbent & Associates, Inc.
<u>Username:</u>	BROADBENT-C
<u>IP Address:</u>	67.118.40.90
<u>Submittal Date/Time:</u>	4/12/2010 12:49:35 PM
<u>Confirmation Number:</u>	7714692473

[VIEW QC REPORT](#)

[VIEW DETECTIONS REPORT](#)