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

Second Quarter 2011 Groundwater Monitoring Report
Former BP Station #11126
1700 Powell Street
Emeryville, California
ACEH Case #RO0000066

REMEDIATION

"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:
July 29, 2011

Submitted by:

ARCADIS U.S., Inc

Hollis E. Phillips, P.G.
Project Manager

Contact:
Hollis E. Phillips

Phone:
415.374.2744 ext 13

Email:
Hollis.phillips@arcadis-us.com

Our ref:
GP09BPNA.C044

Second Quarter 2011 Semi-Annual Groundwater Monitoring Report
Former BP Station #11126
1700 Powell Street, Emeryville, California
ACEH Case #RO0000066

Prepared for

Ms. Hollis Phillips, PG
Senior Geologist
ARCADIS-US, Inc.
100 Montgomery Street, Ste. 300
San Francisco, California 94104

On behalf of

Atlantic Richfield Company
PO Box 1257
San Ramon, California 94583

Prepared by

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

1324 Mangrove Avenue, Suite 212
Chico, California 95926
(530) 566-1400
www.broadbentinc.com

July 29, 2011

Project No. 09-88-662

Broadbent & Associates, Inc.
1324 Mangrove Ave.. Suite 212
Chico, CA 95926
Voice (530) 566-1400
Fax (530) 566-1401

July 20, 2011

Project No. 09-88-662

ARCADIS-US, Inc.
100 Montgomery Street, Ste. 300
San Francisco, CA 94104

Attn.: Ms. Hollis Phillips, PG – Senior Geologist

Re: Second Quarter 2011 Semi-Annual Groundwater Monitoring Report, Former BP Station #11126, 1700 Powell Street, Emeryville, Alameda County, California; ACEH Case #RO0000066.

Dear Ms. Phillips:

Provided herein is the *Second Quarter 2011 Semi-Annual Groundwater Monitoring Report* for Former BP Station #11126 located at 1700 Powell Street, Emeryville, California (Site). This report presents a summary of results from groundwater monitoring and sampling conducted at the Site during the Second Quarter of 2011.

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

Thomas Sparrowe, P.G. #5065 (exp. 12/31/12)
Senior Geologist

Enclosures

cc: Mr. Paresh Khatri, Alameda County Environmental Health (submitted via ACEH ftp site)
Ms. Cherie McCaulou, San Francisco Regional Water Quality Control Board
Electronic copy uploaded to GeoTracker

STATION #11126 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Facility: #11126 Address:	1700 Powell Street, Emeryville, California 94608
ARCADIS Project Manager:	Ms. Hollis Phillips, PG
Consulting Co./Contact Persons:	Broadbent & Associates, Inc. (BAI) / Jason Duda & Thomas Sparrowe (530) 566-1400
Primary Agency/Regulatory ID No.:	Alameda County Environmental Health (ACEH) / ACEH Case # RO0000066
Consultant Project No.:	09-88-662

WORK PERFORMED THIS QUARTER (Second Quarter 2011):

1. Conducted groundwater monitoring/sampling for Second Quarter 2011 on June 29, 2011. Work performed by BAI.

WORK PROPOSED FOR NEXT QUARTER (Third Quarter 2011):

1. Prepare and submit this *Second Quarter 2011 Semi-Annual Groundwater Monitoring Report* (contained herein).
2. No environmental field work is currently scheduled to occur at the Site during Third Quarter 2011.

QUARTERLY RESULTS SUMMARY:

Current phase of project:	**Groundwater monitoring/sampling**
Frequency of groundwater monitoring:	**Semi-Annually (2Q & 4Q): Wells MW-1 through MW-11**
Frequency of groundwater sampling:	**Semi-Annually (2Q & 4Q): Wells MW-1 through MW-9** **Annually (2Q): Wells MW-10 and MW-11**
Is free product (FP) present on-site:	**No**
Current remediation techniques:	**NA**
Depth to groundwater (below TOC):	**3.58 ft (MW-1) to 9.40 ft (MW-11)**
General groundwater gradient direction:	**South-Southwest**
Approximate hydraulic gradient magnitude:	**0.01 ft/ft**

DISCUSSION:

Second Quarter 2011 water levels were gauged in the eleven wells associated with Station #11126 on June 29, 2011. No irregularities were noted during water level gauging at Station #11126. Depth to water measurements at the Site ranged from 3.58 ft in well MW-1 to 9.40 ft in well MW-11. Resulting groundwater surface elevations at the Site ranged from 4.15 ft above datum at well MW-4 to 6.88 ft at well MW-2. Water level elevations yielded a horizontal groundwater gradient to the south-southwest at approximately 0.01 ft/ft. Groundwater monitoring field data sheets are provided within Appendix A. Measured depths to groundwater and respective groundwater elevations are summarized in Table 1. Current and historic groundwater gradient data are provided within Table 3. A Site Location Map is provided as Drawing 1. Potentiometric groundwater elevation contours are presented in Drawing 2.

Second Quarter 2011 water samples were collected from wells MW-1 through MW-11, consistent with the current monitoring schedule. No irregularities were encountered during sampling at the Site. Select 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), and Methyl Tert-Butyl Ether (MTBE), Ethyl Tert-Butyl Ether (ETBE), Di-Isopropyl Ether (DIPE), Tert-Amyl Methyl Ether (TAME), Tert-Butyl Alcohol (TBA), 1,2-Dibromomethane (EDB), and 1,2-Dichloroethane (1,2-DCA) by EPA Method 8260B. Groundwater samples collected from wells MW-3, MW-4, MW-6, and MW-8 were analyzed for Diesel Range Organics (DRO, C10-C28) by EPA Method 8015B. Each sample was also submitted for the analysis of the following bio-degradation parameters: Nitrate, Manganese, Ferrous Iron, Sulfate, Dissolved Carbon Dioxide, Methane, Total Alkalinity, and Magnesium. No significant irregularities were reported during analysis of the samples. Groundwater sampling field data sheets and the laboratory analytical report, including chain-of-custody documentation, are provided in Appendix A.

DRO were detected above the laboratory reporting limit in each of the four samples submitted for DRO analysis at a concentrations ranging from 250 micrograms per liter (µg/L) in well MW-3 to 2,100 µg/L in well MW-6. GRO were detected above the laboratory reporting limit in five of the nine samples submitted for GRO analysis at concentrations ranging from 60 µg/L in well MW-1 to 12,000 µg/L in well MW-2. Benzene was detected above the laboratory reporting limit in three of the five samples submitted for Benzene analysis at concentrations ranging from 1.7 µg/L in well MW-5 to 3,200 µg/L in well MW-2. Toluene was detected above the laboratory reporting limit in three of the five samples submitted for Toluene analysis at concentrations ranging from 0.6 µg/L in well MW-5 to 41 µg/L in well MW-2. Ethylbenzene was detected above the laboratory reporting limit in two of the five samples submitted for Ethlybenzene analysis at concentrations of 370 µg/L in well MW-9 and 920 µg/L in well MW-2. Total Xylenes were detected above the laboratory reporting limit in three of the five samples submitted for Total Xylenes analysis at concentrations ranging from 2.4 µg/L in well MW-5 to 150 µg/L in well MW-2. MTBE was detected above the laboratory reporting limit in eight of the eleven wells sampled at concentrations ranging from 0.73 µg/L in well MW-3 to 2,100 µg/L in well MW-2. TAME was detected in two of the nine samples submitted for TAME analysis at concentrations of 29 µg/L in well MW-9 and 77 µg/L in well MW-2. TBA was detected above the laboratory reporting limit in eight of the nine samples submitted for TBA analysis at concentrations ranging from 37 µg/L in well MW-6 to 30,000 µg/L in well MW-4. The remaining fuel constituents were not detected above their respective laboratory reporting limits in the eleven wells sampled this quarter. Historic laboratory analytical results for the Site are summarized in Table 1, Table 2, and Table 4. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 2. Groundwater monitoring data (GEO_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation receipts are provided in Appendix B.

CONCLUSIONS AND RECOMMENDATIONS:

Groundwater elevations were within the historic minimum and maximum values for each well gauged this quarter at Station #11126. The potentiometric groundwater gradient of 0.01 ft/ft to the south-southwest was generally consistent with historical data, as presented in Table 3. Detected analyte concentrations were within the historic minimum and maximum ranges recorded for each well with the following exceptions: GRO, Benzene and Total Xylenes reached historic minimum concentrations in well MW-1 and Toluene reached a historic minimum concentration in well MW-5. Bio-degradation parameter analysis was conducted this quarter in order to assist with the selection of an appropriate remedial path for the Site. The next semi-annual groundwater monitoring and sampling event is scheduled to be conducted during the Fourth Quarter of 2011.

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 Laboratories, Inc. (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. 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, Station #11126, 1700 Powell Street, Emeryville, California

Drawing 2. Groundwater Elevation Contour and Analytical Summary Map, June 29, 2011, Station #11126, 1700 Powell Street, Emeryville, California

Table 1. Historical Groundwater Monitoring and Analytical Data, Former BP Service Station No. 11126, 1700 Powell Street, Emeryville, California

Table 2. Summary of Fuel Additives, Former BP Service Station No. 11126, 1700 Powell Street, Emeryville, California

Table 3. Historical Groundwater Gradient – Direction and Magnitude, Former BP Service Station No. 11126, 1700 Powell Street, Emeryville, California

Table 4. Bio-Degradation Parameters, Former BP Service Station No. 11126, 1700 Powell Street, Emeryville, California

Appendix A. BAI Groundwater Sampling Data (Includes Field Data Sheets, Non-Hazardous Waste Data Form, Laboratory Analytical Report, Chain-of-Custody Documentation, and Field Procedures)

Appendix B. GeoTracker Upload Confirmation Receipts

N

0 1 2

APPROXIMATE SCALE (mi)

IMAGE SOURCE: DELORME

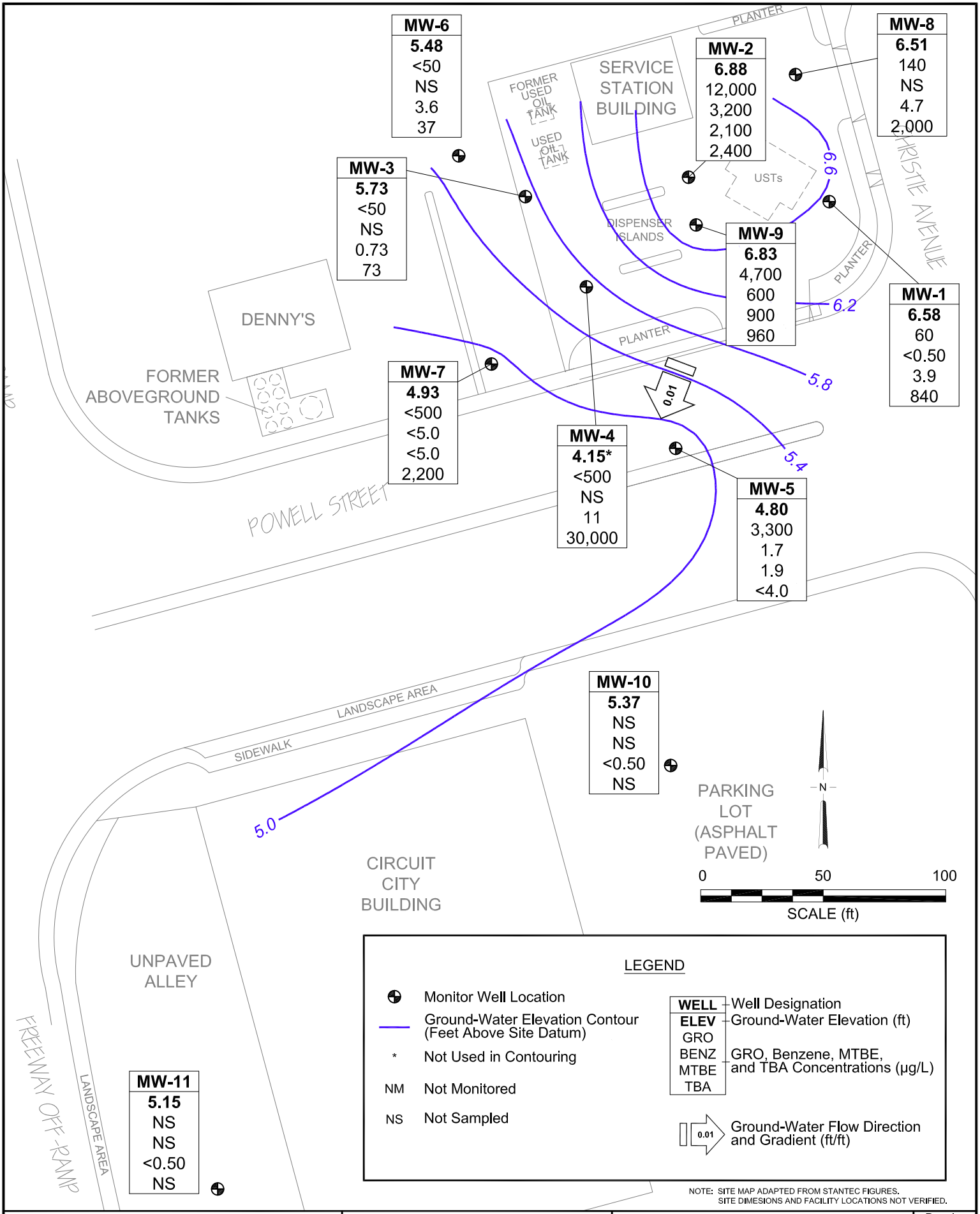
BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, California 95926

Project No.: 09-88-662 Date: 1/21/2010

76 (Former BP)
Service Station #11126
1700 Powell Street
Emeryville, California

Site Location Map

Drawing
1



NOTE: SITE MAP ADAPTED FROM STANTEC FIGURES.
SITE DIMESIONS AND FACILITY LOCATIONS NOT VERIFIED.

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, California 95926
Project No.: 09-88-662 Date: 7/20/2011

76 (Former BP)
Service Station #11126
1700 Powell Street
Emeryville, California

Ground-Water Elevation Contour and Analytical Summary Map
June 29, 2011

Drawing
2

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-1																	
11/4/1992	--	7.76	4.96	0.00	2.80	5,300	--	1,100	480	<0.50	1,500	--	--	--	--	--	
10/12/1993	--		5.26	0.00	2.50	3,600	--	970	71	100	550	6,111	--	--	--	--	
2/15/1994	--		4.98	0.00	2.78	17,000	--	4,200	510	360	1,600	5,495	--	--	3.9	--	
5/11/1994	--		4.55	0.00	3.21	5,500	--	2,900	37	56	64	705	--	--	8.0	--	
8/1/1994	--		5.51	0.00	2.25	15,000	--	3,600	740	510	2,800	9,718	--	--	2.9	--	
8/1/1994	--		5.51	0.00	2.25	16,000	--	3,600	750	510	2,800	9,800	--	--	--	--	DUP
10/18/1994	--		5.11	0.00	2.65	16,000	--	1,800	61	160	890	15,668	--	--	2.9	--	
10/18/1994	--		5.11	0.00	2.65	16,000	--	1,900	64	170	950	--	--	--	--	--	DUP
1/13/1995	--		3.05	0.00	4.71	590	--	88	0.70	<0.50	55	--	--	--	--	--	DUP
1/13/1995	--		3.05	0.00	4.71	220	--	7.0	<0.50	1.0	23	--	--	--	6.6	--	
4/13/1995	--		3.84	0.00	3.92	9,300	--	4,000	300	200	950	--	--	--	7.7	--	
7/11/1995	--		3.60	0.00	4.16	15,000	--	2,200	84	<25	2,500	--	--	--	8.8	--	
11/2/1995	--		4.58	0.00	3.18	19,000	--	920	<100	<100	430	52,000	--	--	7.3	--	
2/5/1996	--		4.43	0.00	3.33	4,600	--	1,400	330	54	247	8,700	--	--	3.2	--	
4/24/1996	--		4.00	0.00	3.76	2,000	--	510	33	61	228	4,500	--	--	7.5	--	
7/15/1996	--		4.30	0.00	3.46	--	--	--	--	--	--	--	--	--	--	--	
7/16/1996	--		--	--	--	12,000	--	2,800	170	390	1,630	64,000	--	--	7.9	--	
7/16/1996	--		--	--	--	12,000	--	2,800	160	390	1,610	63,000	--	--	--	--	DUP
7/30/1996	--		4.64	0.00	3.12	--	--	--	--	--	--	--	--	--	--	--	
8/12/1996	--		--	--	--	11,000	--	2,500	160	<10	1,740	440,000	--	--	7.0	--	
11/4/1996	--		5.98	0.00	1.78	--	--	--	--	--	--	--	--	--	--	--	
11/5/1996	--		--	--	--	53,000	--	1,300	43	100	349	42,000	--	--	6.6	--	
5/17/1997	--		4.65	0.00	3.11	52,000	--	1,958	55	305	1,216	140,198	--	--	5.7	--	
8/11/1997	--		4.90	0.00	2.86	25,000	--	540	6.7	<5.0	57	360,000	--	--	7.9	--	
11/17/1997	--		6.12	0.00	1.64	93,000	--	1,200	31	180	40	400,000	--	--	7.6	--	
1/29/1998	--		4.90	0.00	2.86	4,800	--	320	24	52	20	<50	--	--	6.6	--	
6/22/1998	--		4.62	0.00	3.14	63,000	--	180	<5.0	15	69	57,000	--	--	6.0	--	
12/30/1998	--		5.41	0.00	2.35	22,000	--	2,500	24	120	400	15,000	--	--	--	--	
3/9/1999	--		3.40	0.00	4.36	16,000	--	2,000	84	290	510	13,000	--	--	--	--	
6/23/1999	--		4.60	0.00	3.16	9,600	--	4,500	21	160	260	24,000	--	--	--	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-1 Cont.																	
9/23/1999	--	7.76	4.21	0.00	3.55	3,800	--	1,600	32	150	240	7,100	--	--	--	--	
12/28/1999	--		4.10	0.00	3.66	3,400	--	<2,200	17	53	130	5,500	--	--	--	--	
3/22/2000	--		5.51	0.00	2.25	6,400	--	1,100	45	190	330	4,900	--	--	--	--	
5/26/2000	--		4.79	0.00	2.97	110,000	--	700	44	140	250	320,000	--	--	--	--	
9/6/2000	--		5.19	0.00	2.57	5,600	--	1,000	13	57	90	19,000	--	--	--	--	
9/15/2000	--		5.73	0.00	2.03	--	--	--	--	--	--	--	--	--	--	--	
12/11/2000	--		5.82	0.00	1.94	5,500	--	1,160	47	155	292	3,900	--	--	--	--	
3/29/2001	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
6/27/2001	--		5.49	0.00	2.27	6,100	--	1,200	13	17	78	1,780	--	--	--	--	
9/19/2001	--		6.19	0.00	1.57	1,800	--	102	<12.5	<12.5	<37.5	1,090	--	--	--	--	
12/28/2001	--		5.27	0.00	2.49	4,000	--	540	12	20	65	1,120	--	--	--	--	
3/12/2002	--		5.68	0.00	2.08	3,700	--	491	8.4	12	27	1,020	--	--	--	--	
6/13/2002	--		5.54	0.00	2.22	1,900	--	255	<12.5	<12.5	<25	6,490	--	--	--	--	
9/6/2002	--		5.56	0.00	2.20	1,100	--	170	5.1	2.2	20	550	--	--	--	--	
12/13/2002	--		5.45	0.00	2.31	2,700	--	610	10	18	67	470	--	--	--	--	EPA 8015B/8021B used
2/19/2003	--		3.00	0.00	4.76	1,500	--	180	<5.0	<5.0	15	610	--	--	--	--	
6/6/2003	--		5.52	0.00	2.24	4,600	--	620	<25	<25	55	1,400	--	--	--	--	
8/7/2003	--		5.55	0.00	2.21	2,000	--	290	<5.0	<5.0	15	920	--	--	--	--	
11/20/2003	--		5.41	0.00	2.35	2,800	--	420	11	11	53	250	--	--	--	--	Past holding time
4/28/2004	--		5.33	0.00	2.43	1,600	--	100	5.3	<5.0	8.8	200	--	--	--	--	
8/26/2004	--		4.03	0.00	3.73	1,700	--	220	7.2	15	35	180	--	--	--	--	
8/26/2004	--		4.03	0.00	3.73	1,700	--	220	7.2	15	35	180	--	--	--	--	
12/1/2004	--		3.93	0.00	3.83	2,100	--	380	8.0	34	76	170	--	--	--	--	
2/2/2005	--		3.61	0.00	4.15	1,100	--	150	3.0	12	14	160	--	--	--	--	
4/25/2005	--	10.16	3.75	0.00	6.41	930	--	140	3.6	5.3	11	200	--	--	--	--	
9/30/2005	--		3.54	0.00	6.62	4,600	--	1,000	15	78	150	250	--	--	--	--	
12/28/2005	--		3.26	0.00	6.90	1,500	--	200	5.7	32	58	140	--	--	--	--	
3/23/2006	--		3.40	0.00	6.76	580	--	42	<5.0	10	20	40	--	--	--	--	
6/5/2006	--		2.97	0.00	7.19	900	--	230	2.5	28	71	160	--	--	--	--	
9/19/2006	--		3.67	0.00	6.49	1,600	--	240	3.4	11	23	180	--	--	--	--	Well purged dry

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-1 Cont.																	
12/1/2006	--	10.16	3.64	0.00	6.52	1,400	--	86	4.3	7.0	19	150	--	--	--	--	
3/1/2007	--		3.55	0.00	6.61	4,200	--	340	7.0	34	46	160	--	--	--	--	
6/1/2007	--		3.53	0.00	6.63	2,100	--	200	3.4	34	59	140	--	--	--	--	
9/13/2007	--		4.88	0.00	5.28	540	--	74	2.4	5.4	10	59	--	--	--	--	
11/21/2007	--		3.70	0.00	6.46	1,800	--	67	6.2	3.5	12	200	--	--	--	--	
2/29/2008	--		3.49	0.00	6.67	970	--	100	1.9	37	32	25	--	--	--	--	
5/23/2008	--		4.26	0.00	5.90	1,300	--	170	3.5	15	26	120	--	--	--	--	
9/26/2008	--		4.29	0.00	5.87	1,800	--	26	6.1	<1.0	10	120	--	--	--	--	
12/23/2008	--		3.79	0.00	6.37	1,600	--	14	6.1	1.2	9.7	75	--	--	--	--	
3/9/2009	--		3.29	0.00	6.87	2,100	--	200	5.6	16	29	88	--	--	--	--	
5/28/2009	--		4.02	0.00	6.14	880	--	64	1.5	3.4	9.4	48	--	--	0.46	--	
12/10/2009	--		3.92	0.00	6.24	1300	--	46	6.9	2.6	10	65	--	--	0.47	--	
6/29/2010	P		3.60	0.00	6.56	530	--	18	1.3	<0.50	4.3	<0.50	--	--	0.53	7.09	
12/30/2010	P		3.55	0.00	6.61	1,000	--	19	3.2	1.4	8.2	46	--	--	0.57	7.30	
6/29/2011	**P**		**3.58**	**0.00**	**6.58**	**60**	**--**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**3.9**	**--**	**--**	**0.40**	**7.6**	
MW-2																	
11/4/1992	--	8.56	5.88	0.00	2.68	12,000	--	3,200	980	<0.50	1,900	--	--	--	--	--	DUP
11/4/1992	--		5.88	0.00	2.68	12,000	--	3,900	1,300	<0.50	2,300	--	--	--	--	--	
10/12/1993	--		6.29	0.00	2.27	4,500	--	3,400	180	230	940	442	--	--	--	--	
2/15/1994	--		5.56	0.00	3.00	1,800	--	290	160	14	250	--	--	--	--	--	
2/15/1994	--		5.56	0.00	3.00	2,000	--	430	270	28	390	127	--	--	4.0	--	DUP
5/11/1994	--		5.17	0.00	3.39	14,000	--	3,900	1,200	440	1,900	953	--	--	8.9	--	
5/11/1994	--		5.17	0.00	3.39	15,000	--	5,600	1,500	470	2,000	740	--	--	--	--	DUP
8/1/1994	--		5.43	0.00	3.13	8,200	--	3,000	420	230	680	1,676	--	--	2.6	--	
10/18/1994	--		5.71	0.00	2.85	9,000	--	2,000	140	150	420	2,417	--	--	7.2	--	
1/13/1995	--		4.67	0.00	3.89	7,900	--	2,200	42	<5.0	770	--	--	--	6.8	--	
4/13/1995	--		4.37	0.00	4.19	33,000	--	8,000	2,500	1,100	6,600	--	--	--	7.5	--	
4/13/1995	--		4.37	0.00	4.19	25,000	--	6,500	1,500	110	5,300	--	--	--	--	--	DUP
7/11/1995	--		4.51	0.00	4.05	28,000	--	6,800	1,000	900	4,900	--	--	--	--	--	DUP
7/11/1995	--		4.51	0.00	4.05	19,000	--	3,300	99	7.5	4,600	--	--	--	7.8	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-2 Cont.																	
11/2/1995	--	8.56	5.55	0.00	3.01	20,000	--	3,800	1,200	570	2,700	15,000	--	--	7.3	--	
11/2/1995	--		5.55	0.00	3.01	22,000	--	4,000	1,200	600	2,700	19,000	--	--	--	--	DUP
2/5/1996	--		5.10	0.00	3.46	1,200	--	320	220	26	187	99	--	--	2.2	--	
2/5/1996	--		5.10	0.00	3.46	910	--	290	180	19	137	93	--	--	--	--	DUP
4/24/1996	--		4.95	0.00	3.61	<500	--	100	30	<10	71	<100	--	--	--	--	
4/24/1996	--		4.95	0.00	3.61	<500	--	70	22	<10	61	<50	--	--	7.0	--	DUP
7/15/1996	--		5.40	0.00	3.16	--	--	--	--	--	--	--	--	--	--	--	
7/16/1996	--		--	--	--	12,000	--	3,300	1,400	250	2,610	1,400	--	--	7.8	--	
7/30/1996	--		5.44	0.00	3.12	--	--	--	--	--	--	--	--	--	--	--	
11/4/1996	--		7.06	0.00	1.50	--	--	--	--	--	--	--	--	--	--	--	
11/5/1996	--		--	--	--	7,200	--	1,400	230	38	2,110	1,100	--	--	7.4	--	
11/5/1996	--		--	--	--	9,200	--	1,300	170	<25	2,240	1,100	--	--	--	--	DUP
5/17/1997	--		5.77	0.00	2.79	570	--	42	<5.0	5.0	60	210	--	--	6.9	--	
8/11/1997	--		5.71	0.00	2.85	6,300	--	1,800	130	86	397	2,400	--	--	8.5	--	
11/17/1997	--		6.91	0.00	1.65	2,400	--	220	30	33	259	130	--	--	7.9	--	
1/29/1998	--		4.61	0.00	3.95	<50	--	<0.50	<1.0	<1.0	<1.0	<10	--	--	6.2	--	
6/22/1998	--		4.80	0.00	3.76	4,200	--	640	150	120	650	560	--	--	5.4	--	
12/30/1998	--		5.21	0.00	3.35	--	--	--	--	--	--	--	--	--	--	--	
6/23/1999	--		5.30	0.00	3.26	--	--	--	--	--	--	--	--	--	--	--	
9/23/1999	--		4.75	0.00	3.81	3,800	--	760	19	210	960	910	--	--	--	--	
12/28/1999	--		4.51	0.00	4.05	--	--	--	--	--	--	--	--	--	--	--	
3/22/2000	--		4.21	0.00	4.35	2,500	--	780	17	44	270	2,800	--	--	--	--	
5/26/2000	--		4.66	0.00	3.90	--	--	--	--	--	--	--	--	--	--	--	
9/6/2000	--		4.71	0.00	3.85	3,700	--	1,200	5.5	12	170	12,000	--	--	--	--	
9/15/2000	--		4.74	0.00	3.82	--	--	--	--	--	--	--	--	--	--	--	
12/11/2000	--		4.79	0.00	3.77	--	--	--	--	--	--	--	--	--	--	--	
3/29/2001	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
6/27/2001	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
9/19/2001	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
12/28/2001	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-2 Cont.																	
3/12/2002	--	8.56	4.25	0.00	4.31	26,000	--	1,160	4.4	61	171	37,300	--	--	--	--	
6/13/2002	--		4.94	0.00	3.62	18,000	--	578	<50	<50	<100	84,600	--	--	--	--	
9/6/2002	--		5.23	0.00	3.33	26,000	--	440	<50	<50	<50	45,000	--	--	--	--	
12/13/2002	--		4.94	0.00	3.62	69,000	--	1,200	<500	<500	<500	98,000	--	--	--	--	EPA 8015B/8021B used
2/19/2003	--		4.14	0.00	4.42	78,000	--	1,100	<500	<500	<500	81,000	--	--	--	--	
6/6/2003	--		4.66	0.00	3.90	120,000	--	1,100	<1,000	<1,000	<1,000	72,000	--	--	--	--	
8/7/2003	--		4.90	Sheen	3.66	71,000	--	590	<500	<500	<500	83,000	--	--	--	--	
11/20/2003	--		4.59	0.00	3.97	22,000	--	720	<100	<100	<100	18,000	--	--	--	--	
4/28/2004	--		4.37	0.00	4.19	<25,000	--	690	<250	<250	<250	31,000	--	--	--	--	
8/26/2004	--		4.59	0.00	3.97	140,000	--	8,200	18,000	4,200	19,000	11,000	--	--	--	--	
8/26/2004	--		4.59	0.00	3.97	140,000	--	8,200	18,000	4,200	19,000	11,000	--	--	--	--	
12/1/2004	--		4.79	0.00	3.77	98,000	--	8,400	13,000	4,600	21,000	10,000	--	--	--	--	
2/2/2005	--		4.27	Sheen	4.29	92,000	--	6,600	9,900	4,400	18,000	10,000	--	--	--	--	
4/25/2005	--	11.39	4.00	0.00	7.39	80,000	--	6,700	4,900	4,400	17,000	8,200	--	--	--	--	
9/30/2005	--		4.86	0.00	6.53	98,000	--	7,700	7,400	4,700	20,000	16,000	--	--	--	--	
12/28/2005	--		4.28	0.00	7.11	210,000	--	15,000	21,000	7,300	31,000	22,000	--	--	--	--	
3/23/2006	--		3.60	0.00	7.79	79,000	--	9,100	12,000	4,300	17,000	13,000	--	--	--	--	
6/5/2006	--		4.28	Sheen	7.11	79,000	--	9,700	8,700	4,900	20,000	8,000	--	--	--	--	
9/19/2006	--		4.61	0.00	6.78	68,000	--	12,000	9,300	4,100	14,000	16,000	--	--	--	--	
12/1/2006	--		4.55	0.00	6.84	61,000	--	15,000	6,900	4,400	17,000	10,000	--	--	--	--	
3/1/2007	--		4.14	0.00	7.25	80,000	--	9,300	5,500	4,100	15,000	8,300	--	--	--	--	
6/1/2007	--		4.34	0.00	7.05	120,000	--	12,000	6,400	4,200	11,000	17,000	--	--	--	--	
9/13/2007	--		5.35	0.00	6.04	<5,000	--	770	<50	140	<100	2,300	--	--	--	--	
11/21/2007	--		5.19	0.00	6.20	27,000	--	4,500	220	1,600	2,800	5,200	--	--	--	--	
2/29/2008	--		4.41	0.00	6.98	44,000	--	6,100	320	3,800	6,600	4,900	--	--	--	--	
5/23/2008	--		5.25	0.00	6.14	13,000	--	1,700	<50	300	210	2,500	--	--	--	--	
9/26/2008	--		5.81	0.00	5.58	4,800	--	220	12	20	42	960	--	--	--	--	
12/23/2008	--		5.50	0.00	5.89	5,700	--	950	19	170	70	1,800	--	--	--	--	
3/9/2009	--		4.35	0.00	7.04	25,000	--	3,200	73	2,800	2,200	2,200	--	--	--	--	
5/28/2009	--		4.90	0.00	6.49	55,000	--	4,700	740	3,800	8,100	2,800	--	--	0.27	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-2 Cont.																	
12/10/2009	--	11.39	5.29	0.00	6.10	2200	--	250	7.3	13	14	360	--	--	0.65	--	
6/29/2010	P		5.03	0.00	6.36	5,300	--	800	<25	250	300	770	--	--	0.60	6.91	Odor
12/30/2010	P		4.22	0.00	7.17	19,000	--	3,500	58	2,000	1,000	1,700	--	--	--	7.25	
6/29/2011	**P**		**4.51**	**0.00**	**6.88**	**12,000**	**--**	**3,200**	**41**	**920**	**150**	**2,100**	**--**	**--**	**0.41**	**7.1**	
MW-3																	
11/4/1992	--	8.25	6.38	0.00	1.87	200	690	1.6	<0.50	<0.50	1.1	--	<5,000	ND	--	--	
10/12/1993	--		5.84	0.00	2.41	270	2,100	5.0	0.70	<0.50	2.6	96	<5,000	ND	--	--	DUP
10/12/1993	--		5.84	0.00	2.41	150	--	5.6	0.60	<0.50	1.6	--	--	--	--	--	
2/15/1994	--		6.60	0.00	1.65	140	2.3	5.7	<0.50	<0.50	<0.50	30	90	ND	3.9	--	
5/11/1994	--		5.86	0.00	2.39	190	2,500	2.7	1.9	<0.50	1.9	51	<5,000	ND	9.2	--	
8/1/1994	--		6.13	0.00	2.12	120	1,300	1.3	<0.50	0.50	1.1	18	<5,000	ND	2.9	--	
10/18/1994	--		6.39	0.00	1.86	100	2,200	2.3	<0.50	<0.50	<0.50	21	<5,000	ND	3.6	--	
1/13/1995	--		5.47	0.00	2.78	<50	970	0.80	<0.50	<0.50	<1.0	--	--	ND	7.7	--	
4/13/1995	--		5.17	0.00	3.08	530	<500	8.7	1.9	<0.50	3.9	--	2,100	ND	8.4	--	
7/11/1995	--		5.37	0.00	2.88	78	2,100	0.57	<0.50	<0.50	<1.0	--	1,900	ND	8.3	--	
11/2/1995	--		6.29	0.00	1.96	250	2,000	0.73	<0.50	<0.50	1.8	270	1,400	ND	8.3	--	
2/5/1996	--		5.80	0.00	2.45	<50	1,600	<0.50	<1.0	<1.0	2.7	11	9,000	ND	3.5	--	
4/24/1996	--		5.69	0.00	2.56	<50	2,800	<5.0	<10	<10	<10	150	6,000	ND	8.6	--	
7/15/1996	--		6.18	0.00	2.07	<250	3,700	<2.5	<5.0	<5.0	<5.0	<50	1,000	ND	7.7	--	
7/30/1996	--		6.04	0.00	2.21	--	--	--	--	--	--	--	--	--	--	--	
11/4/1996	--		7.84	0.00	0.41	--	--	--	--	--	--	--	--	--	--	--	
11/5/1996	--		--	--	--	90	890	<0.50	<1.0	<1.0	<1.0	30	2,000	ND	6.8	--	
5/17/1997	--		6.49	0.00	1.76	<50	2,100	<0.50	<1.0	<1.0	<1.0	52	700	ND	6.3	--	
8/11/1997	--		6.15	0.00	2.10	490	1,900	<2.5	<5.0	<5.0	<5.0	170	<5,000	ND	7.4	--	
11/17/1997	--		7.15	0.00	1.10	120	2,500	<0.50	<1.0	<1.0	<1.0	46	<5,000	ND	7.0	--	
1/29/1998	--		5.10	0.00	3.15	270	1,700	0.53	<1.0	<1.0	<1.0	330	2,000	ND	6.4	--	
6/22/1998	--		5.50	0.00	2.75	200	2,200	<0.50	<1.0	<1.0	<1.0	130	<5.0	ND	5.5	--	
12/30/1998	--		6.68	0.00	1.57	--	--	--	--	--	--	--	--	--	--	--	
3/9/1999	--		5.53	0.00	2.72	60	840	<1.0	<1.0	<1.0	<1.0	19	7,600	--	--	--	
6/23/1999	--		6.60	0.00	1.65	--	--	--	--	--	--	--	--	--	--	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-3 Cont.																	
9/23/1999	--	8.25	6.17	0.00	2.08	--	--	--	--	--	--	--	--	--	--	--	
12/28/1999	--		6.00	0.00	2.25	--	--	--	--	--	--	--	--	--	--	--	
3/22/2000	--		4.77	0.00	3.48	690	<58	4.2	3.1	0.81	2.7	2,900	13,000	--	--	--	
5/26/2000	--		5.28	0.00	2.97	--	--	--	--	--	--	--	--	--	--	--	
9/15/2000	--		5.58	0.00	2.67	--	--	--	--	--	--	--	--	--	--	--	
12/11/2000	--		11.74	0.00	-3.49	--	--	--	--	--	--	--	--	--	--	--	DTW anomalous
3/29/2001	--		5.04	0.00	3.21	650	<50	<2.5	<2.5	<2.5	<7.5	680	6,540	--	--	--	
6/27/2001	--		5.62	0.00	2.63	460	690	<2.5	<2.5	<2.5	<7.5	560	<5,000	--	--	--	
9/19/2001	--		5.80	0.00	2.45	<500	520	<5.0	<5.0	<5.0	<15	464	<5,000	--	--	--	
12/28/2001	--		4.85	0.00	3.40	180	550	<0.50	<0.50	<0.50	<1.0	180	<5,000	--	--	--	
3/12/2002	--		4.39	0.00	3.86	410	1,300	<2.5	<2.5	<2.5	<5.0	443	<5,000	--	--	--	
6/13/2002	--		5.38	0.00	2.87	<250	2,600	<2.5	<2.5	<2.5	<5.0	395	<5,000	--	--	--	
9/6/2002	--		5.68	0.00	2.57	<200	--	<2.0	<2.0	<2.0	<2.0	650	--	--	--	--	
12/13/2002	--		5.37	0.00	2.88	<50	980	<0.50	<0.50	<0.50	<0.50	60	7,000	--	--	--	EPA 8015B/8021B used
2/19/2003	--		4.80	0.00	3.45	<1,000	380	<10	<10	<10	<10	120	6,700	--	--	--	
6/6/2003	--		5.13	0.00	3.12	<500	620	<5.0	<5.0	<5.0	<5.0	180	7.9	--	--	--	
8/7/2003	--		5.43	0.00	2.82	<500	820	5.7	<5.0	<5.0	<5.0	290	5.4	--	--	--	b (DRO)
11/20/2003	--		4.72	0.00	3.53	<50	1,200	<0.50	<0.50	<0.50	<0.50	17	--	--	--	--	b (DRO)
4/28/2004	--		4.87	0.00	3.38	<100	240	<1.0	<1.0	<1.0	<1.0	87	--	--	--	--	b (DRO)
8/26/2004	--		5.42	0.00	2.83	56	250	<0.50	<0.50	<0.50	<0.50	34	--	--	--	--	b (DRO)
8/26/2004	--		5.42	0.00	2.83	56	250	<0.50	<0.50	<0.50	<0.50	34	--	--	--	--	b (DRO)
12/1/2004	--		5.69	0.00	2.56	<100	690	<1.0	<1.0	<1.0	<1.0	7.4	--	--	--	--	
2/2/2005	--		4.72	0.00	3.53	<100	730	<1.0	<1.0	<1.0	<1.0	20	--	--	--	--	
4/25/2005	--	10.73	4.75	0.00	5.98	<250	520	<2.5	<2.5	<2.5	<2.5	220	--	--	--	--	
9/30/2005	--		5.30	0.00	5.43	<50	300	<0.50	<0.50	<0.50	<1.0	8.2	--	--	--	--	b (DRO)
12/28/2005	--		4.41	0.00	6.32	<50	100	<0.50	<0.50	<0.50	<1.0	0.66	<2.0	--	--	--	
3/23/2006	--		4.43	0.00	6.30	<50	260	<0.50	<0.50	<0.50	<1.0	13	<2.0	--	--	--	
6/5/2006	--		4.95	0.00	5.78	61	340	0.69	1.4	0.85	3.6	29	<2.0	--	--	--	
9/19/2006	--		5.19	0.00	5.54	<50	330	<0.50	<0.50	<0.50	<1.0	4.1	<2.0	--	--	--	
12/1/2006	--		5.37	0.00	5.36	<50	130	<0.50	<0.50	<0.50	<1.0	2.0	<2.0	--	--	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-3 Cont.																	
3/1/2007	--	10.73	4.62	0.00	6.11	<50	120	<0.50	<0.50	<0.50	<1.0	3.8	<2.0	--	--	--	
6/1/2007	--		5.53	0.00	5.20	<50	350	<0.50	<0.50	<0.50	<1.0	3.7	<2.0	--	--	--	
9/13/2007	--		6.17	0.00	4.56	<250	1,200	<2.5	<2.5	<2.5	<5.0	2.6	<2.0	--	--	--	
11/21/2007	--		6.16	0.00	4.57	<250	1,600	<2.5	<2.5	<2.5	<5.0	3.4	<2.0	--	--	--	
2/29/2008	--		5.38	0.00	5.35	<50	350	<0.50	<0.50	<0.50	<1.0	0.90	<2.0	--	--	--	
5/23/2008	--		6.07	0.00	4.66	<500	1,100	<5.0	<5.0	<5.0	<10	<5.0	<2.0	--	--	--	
9/26/2008	--		6.46	0.00	4.27	120	3,000	<1.0	<1.0	<1.0	<1.0	4.8	<5,000	--	--	--	
12/23/2008	--		6.36	0.00	4.37	87	2,800	<1.0	<1.0	<1.0	<1.0	4.9	<5,000	--	--	--	
3/9/2009	--		5.31	0.00	5.42	<50	900	<1.0	<1.0	<1.0	<1.0	<1.0	<5,000	--	--	--	
5/28/2009	--		5.77	0.00	4.96	<50	1,600	<1.0	<1.0	<1.0	<1.0	2.1	<5,000	--	0.19	--	
12/10/2009	--		5.67	0.00	5.06	<50	450	<0.50	<0.50	<0.50	<1.0	0.86	790	--	0.72	--	a
6/29/2010	P		5.85	0.00	4.88	<50	2,700	<0.50	<0.50	<0.50	<1.0	1.9	--	--	0.52	7.36	
12/30/2010	P		4.33	0.00	6.40	<50	520	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	7.31	
6/29/2011	**P**		**5.00**	**0.00**	**5.73**	**<50**	**250**	--	--	--	--	**0.73**	--	--	**0.45**	**7.4**	
MW-4																	
11/4/1992	--	8.12	6.66	0.00	1.46	340	--	4.5	<0.50	4.3	<0.50	--	--	--	--	--	
10/12/1993	--		6.87	0.00	1.25	160	--	5.8	1.4	0.80	2.7	261	--	--	--	--	
2/15/1994	--		6.61	0.00	1.51	110	--	4.4	0.70	<0.50	2.5	118	--	--	4.3	--	
5/11/1994	--		5.89	0.00	2.23	120	--	0.50	0.80	<0.50	<0.50	137	--	--	9.3	--	
8/1/1994	--		6.87	0.00	1.25	140	--	0.70	2.0	5.2	15	138	--	--	3.3	--	
10/18/1994	--		6.62	0.00	1.50	140	--	3.5	<0.50	0.50	<0.50	197	--	--	3.0	--	
1/13/1995	--		7.27	0.00	0.85	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	7.9	--	
4/13/1995	--		6.51	0.00	1.61	73	--	1.2	<0.50	<0.50	<1.0	--	--	--	9.9	--	
7/11/1995	--		6.21	0.00	1.91	82	--	0.57	<0.50	<0.50	<1.0	--	--	--	7.2	--	
11/2/1995	--		6.78	0.00	1.34	71	--	1.4	0.96	0.99	2.8	140	--	--	8.6	--	
2/5/1996	--		6.41	0.00	1.71	<50	--	<5.0	<10	<10	<10	200	--	--	4.4	--	
4/24/1996	--		6.18	0.00	1.94	<250	--	<2.5	<5.0	<5.0	<5.0	510	--	--	8.3	--	
7/15/1996	--		6.63	0.00	1.49	<50	--	5.7	<1.0	<1.0	<1.0	550	--	--	7.4	--	
7/30/1996	--		6.34	0.00	1.78	--	--	--	--	--	--	--	--	--	--	--	
11/4/1996	--		8.27	0.00	-0.15	--	--	--	--	--	--	--	--	--	--	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-4 Cont.																	
11/5/1996	--	8.12	--	--	--	460	--	<2.5	11	<5.0	<5.0	620	--	--	7.3	--	
5/17/1997	--		7.00	0.00	1.12	--	--	--	--	--	--	--	--	--	--	--	
8/11/1997	--		6.81	0.00	1.31	--	--	--	--	--	--	--	--	--	--	--	
11/17/1997	--		9.19	0.00	-1.07	840	--	<0.50	<1.0	<1.0	<1.0	880	--	--	7.3	--	
1/29/1998	--		7.94	0.00	0.18	--	--	--	--	--	--	--	--	--	--	--	
6/22/1998	--		7.49	0.00	0.63	--	--	--	--	--	--	--	--	--	--	--	
12/30/1998	--		8.21	0.00	-0.09	--	--	--	--	--	--	--	--	--	--	--	
3/9/1999	--		7.70	0.00	0.42	1,200	--	<1.0	<1.0	<1.0	<1.0	2,000	--	--	--	--	
6/23/1999	--		8.81	0.00	-0.69	--	--	--	--	--	--	--	--	--	--	--	
9/23/1999	--		8.32	0.00	-0.20	--	--	--	--	--	--	--	--	--	--	--	
12/28/1999	--		8.21	0.00	-0.09	--	--	--	--	--	--	--	--	--	--	--	
3/22/2000	--		6.74	0.00	1.38	910	--	<0.50	<0.50	0.54	1.7	3,800	--	--	--	--	
5/26/2000	--		5.13	0.00	2.99	--	--	--	--	--	--	--	--	--	--	--	
9/15/2000	--		8.20	0.00	-0.08	--	--	--	--	--	--	--	--	--	--	--	
12/11/2000	--		8.31	0.00	-0.19	--	--	--	--	--	--	--	--	--	--	--	
3/29/2001	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
6/27/2001	--		7.57	0.00	0.55	2,800	--	19	<2.5	<2.5	<7.5	4,220	--	--	--	--	
9/19/2001	--		7.87	0.00	0.25	2,500	--	<5.0	<5.0	<5.0	<15	3,340	--	--	--	--	
12/28/2001	--		7.80	0.00	0.32	4,400	--	<5.0	<5.0	<5.0	<10	5,330	--	--	--	--	
3/12/2002	--		4.53	0.00	3.59	6,400	--	72	<5.0	<5.0	<10	8,440	--	--	--	--	
6/13/2002	--		6.21	0.00	1.91	1,800	--	7.5	<5.0	5.0	13	6,870	--	--	--	--	
9/6/2002	--		7.78	0.00	0.34	<2,000	--	<20	<20	<20	<20	9,600	--	--	--	--	
12/13/2002	--		7.87	0.00	0.25	5,600	--	<50	<50	<50	<50	8,600	--	--	--	--	EPA 8015B/8021B used
2/19/2003	--		4.84	0.00	3.28	<10,000	--	<100	<100	<100	<100	8,000	--	--	--	--	
6/6/2003	--		7.98	0.00	0.14	13,000	--	<50	<50	<50	<50	6,800	--	--	--	--	
8/7/2003	--		7.24	0.00	0.88	6,200	--	<50	<50	<50	<50	6,600	--	--	--	--	
11/20/2003	--		7.02	0.00	1.10	10,000	--	<100	<100	<100	<100	11,000	--	--	--	--	
4/28/2004	--		4.81	0.00	3.31	<25,000	--	<250	<250	<250	<250	3,600	--	--	--	--	
8/26/2004	--		5.65	0.00	2.47	<2,500	--	<25	<25	<25	<25	1,800	--	--	--	--	
12/1/2004	--		7.34	0.00	0.78	1,100	--	<10	<10	<10	<10	450	--	--	--	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-4 Cont.																	
2/2/2005	--	8.12	7.61	0.00	0.51	1,000	--	<5.0	<5.0	<5.0	<5.0	410	--	--	--	--	
4/25/2005	--	10.58	7.25	0.00	3.33	720	--	8.0	5.3	<5.0	16	170	--	--	--	--	
9/30/2005	--		7.72	0.00	2.86	<2,500	--	63	58	46	140	110	--	--	--	--	
12/28/2005	--		7.48	0.00	3.10	<2,500	--	<25	<25	<25	<50	34	--	--	--	--	
3/23/2006	--		4.42	0.00	6.16	<2,500	--	<25	<25	<25	<50	120	--	--	--	--	
6/5/2006	--		4.97	0.00	5.61	<5,000	--	<50	<50	<50	<100	<50	--	--	--	--	Well purged dry
9/19/2006	--		5.45	0.00	5.13	<5,000	--	<50	<50	<50	<100	110	--	--	--	--	Well purged dry
12/1/2006	--		5.14	0.00	5.44	<5,000	--	<50	<50	<50	<100	68	--	--	--	--	Well purged dry
3/1/2007	--		7.60	0.00	2.98	<5,000	--	<50	<50	<50	<100	<50	--	--	--	--	
6/1/2007	--		5.21	0.00	5.37	2,700	--	<25	<25	<25	<50	31	--	--	--	--	
9/13/2007	--		6.45	0.00	4.13	<2,500	--	<25	<25	<25	<50	<25	--	--	--	--	
11/21/2007	--		5.68	0.00	4.90	<2,500	--	<25	<25	<25	<50	<25	--	--	--	--	
2/29/2008	--		6.44	0.00	4.14	<5,000	--	<50	<50	<50	<100	<50	--	--	--	--	
5/23/2008	--		6.01	0.00	4.57	<5,000	--	<50	<50	<50	<100	<50	--	--	--	--	
9/26/2008	--		7.37	0.00	3.21	370	--	<1.0	<1.0	<1.0	<1.0	14	--	--	--	--	
12/23/2008	--		6.04	0.00	4.54	270	--	<1.0	<1.0	<1.0	<1.0	15	--	--	--	--	
3/9/2009	--		5.30	0.00	5.28	140	--	<1.0	<1.0	<1.0	<1.0	18	--	--	--	--	
5/28/2009	--		7.06	0.00	3.52	330	--	<1.0	<1.0	<1.0	<1.0	21	--	--	0.41	--	
12/10/2009	--		6.24	0.00	4.34	660	--	<0.50	<0.50	<0.50	<1.0	10	--	--	0.49	--	Well purged dry
6/29/2010	P		6.57	0.00	4.01	<500	--	<5.0	<5.0	<5.0	<10	7.3	--	--	--	7.43	Well purged dry
12/30/2010	P		7.32	0.00	3.26	<500	--	<5.0	<5.0	<5.0	<10	11	--	--	--	7.01	Well purged dry
6/29/2011	**P**		**6.43**	**0.00**	**4.15**	**<500**	**610**	**--**	**--**	**--**	**--**	**11**	**--**	**--**	**0.45**	**7.6**	
MW-5																	
10/12/1993	--	7.69	6.01	0.00	1.68	--	--	--	--	--	--	--	--	--	--	--	
10/13/1993	--		--	--	--	2,300	--	160	10	<0.50	26	--	--	--	--	--	
2/15/1994	--		5.74	0.00	1.95	5,100	--	710	16	33	35	153	--	--	4.0	--	
5/11/1994	--		5.28	0.00	2.41	11,000	--	1,100	39	110	57	165	--	--	8.0	--	
8/1/1994	--		5.84	0.00	1.85	9,000	--	730	35	61	41	196	--	--	2.6	--	
10/18/1994	--		6.01	0.00	1.68	7,800	--	330	30	27	27	559	--	--	5.6	--	
1/13/1995	--		4.74	0.00	2.95	<500	--	290	6.0	<5.0	18	--	--	--	6.8	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-5 Cont.																	
4/13/1995	--	7.69	5.50	0.00	2.19	9,100	--	400	15	52	27	--	--	--	7.4	--	
7/11/1995	--		5.75	0.00	1.94	7,300	--	390	13	28	23	--	--	--	7.2	--	
11/3/1995	--		6.65	0.00	1.04	7,200	--	270	15	38	23	200	--	--	8.4	--	
2/5/1996	--		4.83	0.00	2.86	4,600	--	370	15	53	28	<50	--	--	1.9	--	
4/24/1996	--		6.09	0.00	1.60	3,000	--	180	<10	32	14	<100	--	--	8.1	--	
7/15/1996	--		6.57	0.00	1.12	--	--	--	--	--	--	--	--	--	--	--	
7/16/1996	--		--	--	--	<50	--	190	<10	31	16	<100	--	--	8.3	--	
7/30/1996	--		5.61	0.00	2.08	--	--	--	--	--	--	--	--	--	--	--	
8/12/1996	--		--	--	--	2,000	--	150	12	25	18	<50	--	--	7.6	--	
11/4/1996	--		8.25	0.00	-0.56	--	--	--	--	--	--	--	--	--	--	--	
11/5/1996	--		--	--	--	5,200	--	42	5.5	13	<5.0	1,700	--	--	7.4	--	
5/17/1997	--		6.95	0.00	0.74	80	--	0.56	<1.0	<1.0	<1.0	46	--	--	6.7	--	
8/11/1997	--		6.72	0.00	0.97	2,700	--	20	12	6.7	9.7	1,900	--	--	8.5	--	
11/17/1997	--		9.49	0.00	-1.80	8,400	--	25	12	8.7	5.4	13,000	--	--	7.9	--	
1/29/1998	--		7.88	0.00	-0.19	110,000	--	2,500	110	180	589	180,000	--	--	6.8	--	
6/22/1998	--		7.40	0.00	0.29	4,400	--	47	10	29	21	47	--	--	6.6	--	
12/30/1998	--		6.13	0.00	1.56	6,000	--	18	9.1	22	16	63	--	--	--	--	
3/9/1999	--		4.79	0.00	2.90	4,600	--	8.8	5.5	12	11	24	--	--	--	--	
6/23/1999	--		5.95	0.00	1.74	3,400	--	1,500	8.9	54	87	7,500	--	--	--	--	
9/23/1999	--		5.43	0.00	2.26	2,600	--	510	14	140	650	580	--	--	--	--	
12/28/1999	--		5.30	0.00	2.39	3,500	--	900	18	57	140	4,800	--	--	--	--	
3/22/2000	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
5/26/2000	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
9/6/2000	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
9/15/2000	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
12/11/2000	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
3/29/2001	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
6/27/2001	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
9/19/2001	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
12/28/2001	--		4.65	0.00	3.04	4,600	--	20	25	16	57	72	--	--	--	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-5 Cont.																	
3/12/2002	--	7.69	5.35	0.00	2.34	5,100	--	45	14	22	39	32	--	--	--	--	
6/13/2002	--		5.34	0.00	2.35	2,900	--	32	<12.5	<12.5	<25	616	--	--	--	--	
9/6/2002	--		5.46	0.00	2.23	3,400	--	23	5.5	<5.0	11	230	--	--	--	--	
12/13/2002	--		5.47	0.00	2.22	2,500	--	12	9.3	4.6	8.8	110	--	--	--	--	EPA 8015B/8021B used
2/19/2003	--		5.29	0.00	2.40	2,800	--	11	5.4	9.7	12	6.4	--	--	--	--	
6/6/2003	--		5.30	0.00	2.39	3,200	--	9.1	<5.0	7.6	9.3	<5.0	--	--	--	--	
8/7/2003	--		5.33	0.00	2.36	2,200	--	7.3	<5.0	<5.0	9.1	18	--	--	--	--	
11/20/2003	--		5.39	0.00	2.30	3,500	--	12	5.4	6.4	12	12	--	--	--	--	
4/28/2004	--		5.53	0.00	2.16	5,700	--	7.8	4.2	5.2	11	11	--	--	--	--	
8/26/2004	--		5.42	0.00	2.27	2,400	--	23	4.0	3.6	11	74	--	--	--	--	
12/1/2004	--		5.38	0.00	2.31	4,300	--	11	<5.0	5.5	15	<5.0	--	--	--	--	
2/2/2005	--		5.48	0.00	2.21	4,000	--	8.4	4.8	4.0	10	11	--	--	--	--	
4/25/2005	--	10.18	5.52	0.00	4.66	5,200	--	7.6	4.0	4.3	9.9	12	--	--	--	--	
9/30/2005	--		5.04	0.00	5.14	4,100	--	5.3	2.7	2.1	8.0	16	--	--	--	--	
12/28/2005	--		4.85	0.00	5.33	7,700	--	7.7	3.3	2.9	7.1	3.8	--	--	--	--	
3/23/2006	--		5.07	0.00	5.11	5,700	--	11	3.3	2.4	8.1	8.6	--	--	--	--	
6/5/2006	--		5.39	Sheen	4.79	5,900	--	36	5.0	3.7	15	11	--	--	--	--	
9/19/2006	--		4.75	0.00	5.43	4,600	--	6.7	<2.5	<2.5	<5.0	12	--	--	--	--	
12/1/2006	--		5.29	0.00	4.89	4,400	--	5.0	<2.5	<2.5	5.8	14	--	--	--	--	
3/1/2007	--		5.01	0.00	5.17	6,400	--	6.2	3.0	<2.5	8.7	<2.5	--	--	--	--	
6/1/2007	--		5.34	0.00	4.84	7,000	--	3.4	<2.5	<2.5	6.6	11	--	--	--	--	
9/13/2007	--		5.11	0.00	5.07	7,000	--	3.8	<2.5	<2.5	<5.0	8.5	--	--	--	--	
11/21/2007	--		5.34	0.00	4.84	4,700	--	<2.5	<2.5	<2.5	<5.0	11	--	--	--	--	
2/29/2008	--		5.33	0.00	4.85	5,100	--	1.9	1.8	0.93	4.2	<0.50	--	--	--	--	
5/23/2008	--		5.38	0.00	4.80	4,600	--	<2.5	<2.5	<2.5	<5.0	3.9	--	--	--	--	
9/26/2008	--		5.26	0.00	4.92	3,400	--	1.5	<1.0	<1.0	2.2	2.8	--	--	--	--	
12/23/2008	--		5.04	0.00	5.14	3,300	--	2.7	1.1	<1.0	3.4	1.0	--	--	--	--	
3/9/2009	--		4.79	0.00	5.39	4,300	--	1.9	1.8	<1.0	4.0	<1.0	--	--	--	--	
5/28/2009	--		5.21	0.00	4.97	4,400	--	<1.0	<1.0	<1.0	1.8	<1.0	--	--	2.15	--	
12/10/2009	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA, Need traffic control

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-5 Cont.																	
6/29/2010	--	10.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA, Need traffic control
12/30/2010	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA, Need traffic control
6/29/2011	**P**		**5.38**	**0.00**	**4.80**	**3,300**	**--**	**1.7**	**0.60**	**<0.50**	**2.4**	**1.9**	**--**	**--**	**0.46**	**7.3**	
MW-6																	
10/12/1993	--	8.52	6.59	0.00	1.93	63	--	<0.50	<0.50	<0.50	<0.50	44	--	--	--	--	
2/15/1994	--		6.31	0.00	2.21	68	--	<0.50	<0.50	<0.50	<0.50	38	--	--	3.1	--	
5/11/1994	--		6.15	0.00	2.37	68	--	<0.50	<0.50	<0.50	<0.50	49	--	--	8.7	--	
8/1/1994	--		6.46	0.00	2.06	91	--	<0.50	<0.50	<0.50	0.60	60	--	--	2.4	--	
10/18/1994	--		6.72	0.00	1.80	<50	--	<0.50	<0.50	<0.50	<0.50	85	--	--	6.0	--	
1/13/1995	--		5.95	0.00	2.57	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	7.0	--	
4/13/1995	--		5.44	0.00	3.08	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	8.5	--	
7/11/1995	--		5.68	0.00	2.84	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	8.4	--	
11/2/1995	--		6.57	0.00	1.95	<50	--	<0.50	<0.50	<0.50	<1.0	35	--	--	8.3	--	
2/5/1996	--		6.27	0.00	2.25	<50	--	<5.0	<10	<10	<10	<100	--	--	2.2	--	
4/24/1996	--		5.95	0.00	2.57	<250	--	<2.5	<5.0	<5.0	<5.0	62	--	--	8.0	--	
7/15/1996	--		6.39	0.00	2.13	<250	--	<2.5	<5.0	<5.0	<5.0	<50	--	--	8.0	--	
7/30/1996	--		6.44	0.00	2.08	--	--	--	--	--	--	--	--	--	--	--	
11/4/1996	--		8.05	0.00	0.47	--	--	--	--	--	--	--	--	--	--	--	
11/5/1996	--		--	--	--	<50	--	<0.50	<1.0	<1.0	<1.0	<10	--	--	7.3	--	
5/17/1997	--		6.75	0.00	1.77	--	--	--	--	--	--	--	--	--	--	--	
8/11/1997	--		6.48	0.00	2.04	--	--	--	--	--	--	--	--	--	--	--	
11/17/1997	--		9.27	0.00	-0.75	<50	--	<0.50	<1.0	<1.0	<1.0	<10	--	--	7.7	--	
1/29/1998	--		7.98	0.00	0.54	--	--	--	--	--	--	--	--	--	--	--	
6/22/1998	--		7.68	0.00	0.84	--	--	--	--	--	--	--	--	--	--	--	
12/30/1998	--		6.98	0.00	1.54	--	--	--	--	--	--	--	--	--	--	--	
3/9/1999	--		5.90	0.00	2.62	--	--	--	--	--	--	--	--	--	--	--	
6/23/1999	--		6.93	0.00	1.59	--	--	--	--	--	--	--	--	--	--	--	
9/23/1999	--		6.45	0.00	2.07	--	--	--	--	--	--	--	--	--	--	--	
12/28/1999	--		6.33	0.00	2.19	--	--	--	--	--	--	--	--	--	--	--	
3/22/2000	--		5.15	0.00	3.37	--	--	--	--	--	--	--	--	--	--	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-6 Cont.																	
5/26/2000	--	8.52	5.72	0.00	2.80	--	--	--	--	--	--	--	--	--	--	--	
9/15/2000	--		6.02	0.00	2.50	--	--	--	--	--	--	--	--	--	--	--	
12/11/2000	--		6.20	0.00	2.32	--	--	--	--	--	--	--	--	--	--	--	
3/29/2001	--		5.34	0.00	3.18	750	--	<2.5	2.9	<2.5	12	820	--	--	--	--	
6/27/2001	--		6.00	0.00	2.52	760	--	33	<2.5	<2.5	<7.5	968	--	--	--	--	
9/19/2001	--		6.22	0.00	2.30	<500	--	<5.0	<5.0	<5.0	<15	879	--	--	--	--	
12/28/2001	--		4.71	0.00	3.81	--	--	--	--	--	--	--	--	--	--	--	NS
3/12/2002	--		4.96	0.00	3.56	<500	--	<5.0	<5.0	<5.0	<10	244	--	--	--	--	
6/13/2002	--		5.78	0.00	2.74	<250	--	<2.5	<2.5	<2.5	<5.0	413	--	--	--	--	
9/6/2002	--		6.14	0.00	2.38	130	--	<0.50	<0.50	<0.50	<0.50	240	--	--	--	--	
12/13/2002	--		6.05	0.00	2.47	140	--	<1.0	<1.0	<1.0	<1.0	200	--	--	--	--	EPA 8015B/8021B used
2/19/2003	--		5.40	0.00	3.12	<500	--	<5.0	<5.0	<5.0	<5.0	150	--	--	--	--	
6/6/2003	--		5.54	0.00	2.98	1,100	--	<5.0	<5.0	<5.0	<5.0	140	--	--	--	--	
8/7/2003	--		5.94	0.00	2.58	<500	--	<5.0	<5.0	<5.0	<5.0	160	--	--	--	--	
11/20/2003	--		5.85	0.00	2.67	95	--	<0.50	<0.50	<0.50	<0.50	74	--	--	--	--	
4/28/2004	--		5.45	0.00	3.07	<250	--	<2.5	<2.5	<2.5	<2.5	120	--	--	--	--	
8/26/2004	--		6.06	0.00	2.46	<250	--	<2.5	<2.5	<2.5	<2.5	110	--	--	--	--	
8/26/2004	--		6.06	0.00	2.46	<250	--	<2.5	<2.5	<2.5	<2.5	110	--	--	--	--	
12/1/2004	--		6.19	0.00	2.33	<250	--	<2.5	<2.5	<2.5	<2.5	86	--	--	--	--	
2/2/2005	--		5.20	0.00	3.32	55	--	<0.50	<0.50	<0.50	<0.50	41	--	--	--	--	
4/25/2005	--	11.01	5.22	0.00	5.79	64	--	<0.50	<0.50	<0.50	<0.50	50	--	--	--	--	
9/30/2005	--		5.93	0.00	5.08	200	--	<2.0	<2.0	<2.0	<4	51	--	--	--	--	b (GRO)
12/28/2005	--		5.49	0.00	5.52	<50	--	<0.50	<0.50	<0.50	<1.0	16	--	--	--	--	
3/23/2006	--		4.59	0.00	6.42	<50	--	<0.50	<0.50	<0.50	<1.0	5.6	--	--	--	--	
6/5/2006	--		5.38	0.00	5.63	<50	--	<0.50	0.54	<0.50	<1.0	14	--	--	--	--	
9/19/2006	--		5.93	0.00	5.08	<50	--	<0.50	<0.50	<0.50	<1.0	8.8	--	--	--	--	
12/1/2006	--		6.28	0.00	4.73	<50	--	<0.50	<0.50	<0.50	<1.0	5.9	--	--	--	--	
3/1/2007	--		5.72	0.00	5.29	<50	--	<0.50	<0.50	<0.50	<1.0	6.0	--	--	--	--	
6/1/2007	--		6.22	0.00	4.79	<50	--	<0.50	<0.50	<0.50	<1.0	7.4	--	--	--	--	
9/13/2007	--		6.57	0.00	4.44	63	--	<0.50	<0.50	<0.50	<1.0	6.7	--	--	--	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-6 Cont.																	
11/21/2007	--	11.01	6.67	0.00	4.34	<50	--	<0.50	<0.50	<0.50	<1.0	8.4	--	--	--	--	
2/29/2008	--		5.80	0.00	5.21	<50	--	<0.50	<0.50	<0.50	<1.0	7.1	--	--	--	--	
5/23/2008	--		6.53	0.00	4.48	<50	--	<0.50	<0.50	<0.50	<1.0	8.4	--	--	--	--	
9/26/2008	--		6.86	0.00	4.15	<50	--	<1.0	<1.0	<1.0	<1.0	5.1	--	--	--	--	
12/23/2008	--		6.90	0.00	4.11	<50	--	<1.0	<1.0	<1.0	<1.0	5.3	--	--	--	--	
3/9/2009	--		6.00	0.00	5.01	<50	--	<1.0	<1.0	<1.0	<1.0	3.5	--	--	--	--	
5/28/2009	--		6.19	0.00	4.82	<50	--	<1.0	<1.0	<1.0	<1.0	6.6	--	--	2.77	--	
12/10/2009	--		6.15	0.00	4.86	<50	--	<0.50	<0.50	<0.50	<1.0	2.0	--	--	0.60	--	
6/29/2010	P		6.18	0.00	4.83	<50	--	<0.50	<0.50	<0.50	<1.0	2.7	--	--	0.57	7.20	
12/30/2010	P		5.34	0.00	5.67	<50	--	<0.50	<0.50	<0.50	<1.0	2.2	--	--	0.41	7.05	
6/29/2011	**P**		**5.53**	**0.00**	**5.48**	**<50**	**2,100**	**--**	**--**	**--**	**--**	**3.6**	**--**	**--**	**0.03**	**7.4**	
MW-7																	
10/12/1993	--	7.61	6.14	0.00	1.47	<50	--	<0.50	<0.50	<0.50	0.70	<5.0	--	--	--	--	
2/15/1994	--		5.88	0.00	1.73	78	--	<0.50	<0.50	<0.50	0.60	<5.0	--	--	4.0	--	
5/11/1994	--		5.76	0.00	1.85	70	--	<0.50	<0.50	<0.50	0.90	12	--	--	9.1	--	
8/1/1994	--		5.97	0.00	1.64	77	--	<0.50	<0.50	<0.50	0.50	182	--	--	2.5	--	
10/18/1994	--		6.24	0.00	1.37	<50	--	<0.50	<0.50	<0.50	<0.50	52	--	--	6.3	--	
1/13/1995	--		5.39	0.00	2.22	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	8.2	--	
4/13/1995	--		5.17	0.00	2.44	63	--	<0.50	<0.50	<0.50	1.4	--	--	--	8.4	--	
7/11/1995	--		5.25	0.00	2.36	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	7.9	--	
11/2/1995	--		6.19	0.00	1.42	<50	--	<0.50	<0.50	<0.50	<1.0	55	--	--	8.0	--	
2/5/1996	--		5.69	0.00	1.92	<50	--	<0.50	<1.0	<1.0	<1.0	40	--	--	1.9	--	
4/24/1996	--		5.59	0.00	2.02	<250	--	<2.5	<5.0	<5.0	<5.0	53	--	--	8.2	--	
7/15/1996	--		6.07	0.00	1.54	<250	--	<2.5	<5.0	<5.0	<5.0	<50	--	--	7.8	--	
7/30/1996	--		6.04	0.00	1.57	--	--	--	--	--	--	--	--	--	--	--	
11/4/1996	--		7.76	0.00	-0.15	--	--	--	--	--	--	--	--	--	--	--	
11/5/1996	--		--	--	--	<50	--	<0.50	<1.0	<1.0	<1.0	<10	--	--	7.8	--	
5/17/1997	--		6.42	0.00	1.19	--	--	--	--	--	--	--	--	--	--	--	
8/11/1997	--		6.06	0.00	1.55	--	--	--	--	--	--	--	--	--	--	--	
11/17/1997	--		9.07	0.00	-1.46	<50	--	<0.50	<1.0	<1.0	<1.0	<10	--	--	7.1	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-7 Cont.																	
1/29/1998	--	7.61	7.44	0.00	0.17	--	--	--	--	--	--	--	--	--	--	--	
6/22/1998	--		7.39	0.00	0.22	--	--	--	--	--	--	--	--	--	--	--	
12/30/1998	--		5.51	0.00	2.10	--	--	--	--	--	--	--	--	--	--	--	
3/9/1999	--		5.57	0.00	2.04	--	--	--	--	--	--	--	--	--	--	--	
6/23/1999	--		6.69	0.00	0.92	--	--	--	--	--	--	--	--	--	--	--	
9/23/1999	--		6.23	0.00	1.38	--	--	--	--	--	--	--	--	--	--	--	
12/28/1999	--		6.08	0.00	1.53	--	--	--	--	--	--	--	--	--	--	--	
3/22/2000	--		4.88	0.00	2.73	--	--	--	--	--	--	--	--	--	--	--	
5/26/2000	--		5.42	0.00	2.19	--	--	--	--	--	--	--	--	--	--	--	
9/15/2000	--		5.79	0.00	1.82	--	--	--	--	--	--	--	--	--	--	--	
12/11/2000	--		5.93	0.00	1.68	--	--	--	--	--	--	--	--	--	--	--	
3/29/2001	--		5.24	0.00	2.37	600	--	<2.5	<2.5	<2.5	<7.5	636	--	--	--	--	
6/27/2001	--		5.69	0.00	1.92	590	--	<2.5	<2.5	<2.5	<7.5	739	--	--	--	--	
9/19/2001	--		5.89	0.00	1.72	560	--	<5.0	<5.0	<5.0	<15	1,190	--	--	--	--	
12/28/2001	--		4.53	0.00	3.08	910	--	23	<2.5	<2.5	<5.0	856	--	--	--	--	
3/12/2002	--		4.71	0.00	2.90	620	--	<2.5	<2.5	<2.5	<5.0	675	--	--	--	--	
6/13/2002	--		5.21	0.00	2.40	860	--	<2.5	<2.5	<2.5	<5.0	1,470	--	--	--	--	
9/6/2002	--		5.77	0.00	1.84	350	--	<2.5	<2.5	<2.5	<2.5	690	--	--	--	--	
12/13/2002	--		5.65	0.00	1.96	1,300	--	<10	<10	<10	<10	1,800	--	--	--	--	EPA 8015B/8021B used
2/19/2003	--		5.07	0.00	2.54	1,700	--	<10	<10	<10	<10	1,600	--	--	--	--	
6/6/2003	--		5.27	0.00	2.34	1,000	--	<5.0	<5.0	<5.0	<5.0	510	--	--	--	--	
8/7/2003	--		5.52	0.00	2.09	510	--	<5.0	<5.0	<5.0	<5.0	520	--	--	--	--	
11/20/2003	--		5.79	0.00	1.82	330	--	<2.5	<2.5	<2.5	<2.5	270	--	--	--	--	
4/28/2004	--		5.20	0.00	2.41	<250	--	<2.5	<2.5	<2.5	<2.5	71	--	--	--	--	
8/26/2004	--		5.65	0.00	1.96	450	--	<2.5	<2.5	<2.5	2.8	150	--	--	--	--	
8/26/2004	--		5.65	0.00	1.96	450	--	<2.5	<2.5	<2.5	2.8	150	--	--	--	--	
12/1/2004	--		5.79	0.00	1.82	100	--	<1.0	<1.0	<1.0	<1.0	25	--	--	--	--	
2/2/2005	--		4.92	0.00	2.69	81	--	<0.50	<0.50	<0.50	<0.50	31	--	--	--	--	
4/25/2005	--	10.11	4.88	0.00	5.23	67	--	<0.50	<0.50	<0.50	0.64	41	--	--	--	--	
9/30/2005	--		5.62	0.00	4.49	58	--	<0.50	<0.50	<0.50	<1.0	18	--	--	--	--	b (GRO)

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-7 Cont.																	
12/28/2005	--	10.11	4.93	0.00	5.18	<500	--	<5.0	<5.0	<5.0	<10	7.4	--	--	--	--	
3/23/2006	--		4.63	0.00	5.48	71	--	<0.50	<0.50	<0.50	<1.0	25	--	--	--	--	
6/5/2006	--		5.08	0.00	5.03	57	--	<0.50	<0.50	<0.50	<1.0	14	--	--	--	--	
9/19/2006	--		5.60	0.00	4.51	<50	--	<0.50	<0.50	<0.50	<1.0	14	--	--	--	--	
12/1/2006	--		6.00	0.00	4.11	<250	--	<2.5	<2.5	<2.5	<5.0	6.7	--	--	--	--	
3/1/2007	--		5.69	0.00	4.42	<250	--	<2.5	<2.5	<2.5	<5.0	4.0	--	--	--	--	
6/1/2007	--		5.97	0.00	4.14	120	--	<0.50	<0.50	<0.50	<1.0	7.5	--	--	--	--	
9/13/2007	--		6.31	0.00	3.80	<50	--	<0.50	<0.50	<0.50	<1.0	10	--	--	--	--	
11/21/2007	--		6.39	0.00	3.72	55	--	<0.50	<0.50	<0.50	<1.0	8.4	--	--	--	--	
2/29/2008	--		5.78	0.00	4.33	<50	--	<0.50	<0.50	<0.50	<1.0	6.2	--	--	--	--	
5/23/2008	--		6.27	0.00	3.84	53	--	<0.50	<0.50	<0.50	<1.0	9.6	--	--	--	--	
9/26/2008	--		6.52	0.00	3.59	<50	--	<1.0	<1.0	<1.0	<1.0	7.5	--	--	--	--	
12/23/2008	--		6.40	0.00	3.71	59	--	<1.0	<1.0	<1.0	<1.0	5.7	--	--	--	--	
3/9/2009	--		5.65	0.00	4.46	<50	--	<1.0	<1.0	<1.0	<1.0	4.4	--	--	--	--	
5/28/2009	--		5.91	0.00	4.20	<50	--	<1.0	<1.0	<1.0	<1.0	5.7	--	--	1.77	--	
12/10/2009	--		5.88	0.00	4.23	62	--	<0.50	<0.50	<0.50	<1.0	6.5	--	--	0.56	--	
6/29/2010	P		5.48	0.00	4.63	<50	--	<0.50	<0.50	<0.50	<1.0	3.0	--	--	0.63	7.32	
12/30/2010	P		4.80	0.00	5.31	<50	--	<0.50	<0.50	<0.50	<1.0	5.6	--	--	0.65	7.28	
6/29/2011	**P**		**5.18**	**0.00**	**4.93**	**<500**	--	**<5.0**	**<5.0**	**<5.0**	**<10**	**<5.0**	--	--	**0.47**	**7.5**	
MW-8																	
10/12/1993	--	8.60	5.86	0.00	2.74	<50	--	<0.50	<0.50	<0.50	<0.50	11	--	--	--	--	
2/15/1994	--		5.50	0.00	3.10	380	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	3.3	--	
5/11/1994	--		5.09	0.00	3.51	330	--	<0.50	1.2	<0.50	1.9	<5.0	--	--	8.5	--	
8/1/1994	--		5.20	0.00	3.40	260	--	<0.50	1.2	2.9	5.8	<5.0	--	--	2.3	--	
10/18/1994	--		5.70	0.00	2.90	82	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	6.4	--	
1/13/1995	--		4.96	0.00	3.64	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	6.9	--	
4/13/1995	--		5.40	0.00	3.20	270	--	<0.50	<0.50	<0.50	4.4	--	--	--	8.4	--	
7/11/1995	--		6.01	0.00	2.59	320	--	<0.50	<0.50	<0.50	3.5	--	--	--	8.0	--	
11/2/1995	--		6.81	0.00	1.79	100	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	8.7	--	
2/5/1996	--		6.12	0.00	2.48	<50	--	<5.0	<10	<10	<10	<100	--	--	1.5	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-8 Cont.																	
4/24/1996	--	8.60	6.23	0.00	2.37	<50	--	<5.0	<10	<10	<10	<100	--	--	8.7	--	
7/15/1996	--		6.70	0.00	1.90	<250	--	<2.5	<5.0	<5.0	<5.0	<50	--	--	8.4	--	
7/30/1996	--		6.64	0.00	1.96	--	--	--	--	--	--	--	--	--	--	--	
11/4/1996	--		8.36	0.00	0.24	--	--	--	--	--	--	--	--	--	--	--	
11/5/1996	--		--	--	--	<50	--	<0.50	<1.0	<1.0	<1.0	<10	--	--	7.2	--	
5/17/1997	--		7.03	0.00	1.57	--	--	--	--	--	--	--	--	--	--	--	
8/11/1997	--		6.05	0.00	2.55	--	--	--	--	--	--	--	--	--	--	--	
11/17/1997	--		9.14	0.00	-0.54	<50	--	<0.50	<1.0	<1.0	<1.0	<10	--	--	7.7	--	
1/29/1998	--		7.90	0.00	0.70	--	--	--	--	--	--	--	--	--	--	--	
6/22/1998	--		7.72	0.00	0.88	--	--	--	--	--	--	--	--	--	--	--	
12/30/1998	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
3/9/1999	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
6/23/1999	--		4.70	0.00	3.90	--	--	--	--	--	--	--	--	--	--	--	
9/23/1999	--		4.22	0.00	4.38	--	--	--	--	--	--	--	--	--	--	--	
12/28/1999	--		4.12	0.00	4.48	--	--	--	--	--	--	--	--	--	--	--	
3/22/2000	--		4.71	0.00	3.89	--	--	--	--	--	--	--	--	--	--	--	
5/26/2000	--		4.98	0.00	3.62	--	--	--	--	--	--	--	--	--	--	--	
9/15/2000	--		4.62	0.00	3.98	--	--	--	--	--	--	--	--	--	--	--	
12/11/2000	--		4.77	0.00	3.83	--	--	--	--	--	--	--	--	--	--	--	
3/29/2001	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
6/27/2001	--		5.11	0.00	3.49	570	--	<2.5	<2.5	2.6	<7.5	3.4	--	--	--	--	
9/19/2001	--		5.00	0.00	3.60	<500	--	<5.0	<5.0	<5.0	<15	<5.0	--	--	--	--	
12/28/2001	--		4.15	0.00	4.45	440	--	<0.50	<0.50	0.98	<1.0	6.3	--	--	--	--	
3/12/2002	--		4.35	0.00	4.25	330	--	<2.5	<2.5	<2.5	<5.0	8.7	--	--	--	--	
6/13/2002	--		5.09	0.00	3.51	<500	--	<5.0	<5.0	<5.0	<10	16	--	--	--	--	
9/6/2002	--		5.18	0.00	3.42	98	--	<0.50	<0.50	<0.50	<0.50	76	--	--	--	--	
12/13/2002	--		4.84	0.00	3.76	120	--	<0.50	<0.50	0.94	0.52	140	--	--	--	--	EPA 8015B/8021B used
2/19/2003	--		4.45	0.00	4.15	<2,500	--	<25	<25	<25	<25	800	--	--	--	--	
6/6/2003	--		5.00	0.00	3.60	<50,000	--	<500	<500	<500	<500	17,000	--	--	--	--	
8/7/2003	--		4.84	0.00	3.76	<2,500	--	<25	<25	<25	<25	2,400	--	--	--	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-8 Cont.																	
11/20/2003	--	8.60	4.48	0.00	4.12	<2,500	--	<25	<25	<25	<25	1,400	--	--	--	--	
4/28/2004	--		9.66	0.00	-1.06	730	--	<2.5	<2.5	<2.5	<2.5	170	--	--	--	--	
8/26/2004	--		4.73	0.00	3.87	<2,500	--	<25	<25	<25	<25	170	--	--	--	--	
12/1/2004	--		4.80	0.00	3.80	<250	--	<2.5	<2.5	<2.5	<2.5	36	--	--	--	--	
2/2/2005	--		4.50	0.00	4.10	810	--	<0.50	<0.50	<0.50	<0.50	41	--	--	--	--	
4/25/2005	--	11.08	4.99	0.00	6.09	1,400	--	<12	<12	<12	<12	32	--	--	--	--	
9/30/2005	--		4.89	0.00	6.19	840	--	<5.0	<5.0	<5.0	<10	17	--	--	--	--	
12/28/2005	--		4.81	0.00	6.27	<250	--	<2.5	<2.5	<2.5	<5.0	17	--	--	--	--	
3/23/2006	--		4.22	0.00	6.86	660	--	<2.5	<2.5	<2.5	<5.0	21	--	--	--	--	
6/5/2006	--		4.63	0.00	6.45	<2,500	--	<25	<25	<25	<50	30	--	--	--	--	
9/19/2006	--		4.82	0.00	6.26	<500	--	<5.0	<5.0	<5.0	<10	17	--	--	--	--	Well purged dry
12/1/2006	--		4.83	0.00	6.25	350	--	<2.5	<2.5	<2.5	<5.0	16	--	--	--	--	
3/1/2007	--		4.43	0.00	6.65	<500	--	<5.0	<5.0	<5.0	<10	20	--	--	--	--	
6/1/2007	--		4.74	0.00	6.34	<500	--	<5.0	<5.0	<5.0	<10	8.7	--	--	--	--	
9/13/2007	--		5.25	0.00	5.83	230	--	<0.50	<0.50	<0.50	<1.0	9.4	--	--	--	--	
11/21/2007	--		5.13	0.00	5.95	350	--	<0.50	<0.50	<0.50	<1.0	8.7	--	--	--	--	
2/29/2008	--		4.75	0.00	6.33	<1,000	--	<10	<10	<10	<20	16	--	--	--	--	
5/23/2008	--		5.01	0.00	6.07	<1,000	--	<10	<10	<10	<20	15	--	--	--	--	
9/26/2008	--		5.43	0.00	5.65	190	--	<1.0	<1.0	<1.0	<1.0	14	--	--	--	--	
12/23/2008	--		5.25	0.00	5.83	270	--	<1.0	<1.0	<1.0	<1.0	10	--	--	--	--	
3/9/2009	--		4.36	0.00	6.72	210	--	<1.0	<1.0	<1.0	<1.0	15	--	--	--	--	
5/28/2009	--		4.98	0.00	6.10	270	--	<1.0	<1.0	<1.0	<1.0	6.5	--	--	2.14	--	
12/10/2009	--		5.06	0.00	6.02	90	--	<0.50	<0.50	<0.50	<1.0	9.0	--	--	0.47	--	
6/29/2010	P		4.71	0.00	6.37	170	--	<0.50	<0.50	<0.50	<1.0	10	--	--	0.38	6.94	
12/30/2010	P		4.37	0.00	6.71	190	--	<0.50	<0.50	<0.50	<1.0	6.6	--	--	0.52	7.02	
6/29/2011	**P**		**4.57**	**0.00**	**6.51**	**140**	**1,000**	**--**	**--**	**--**	**--**	**4.7**	**--**	**--**	**0.62**	**7.2**	
MW-9																	
10/12/1993	--	8.08	5.66	0.08	2.48	--	--	--	--	--	--	--	--	--	--	--	
2/15/1994	--		5.32	0.05	2.80	--	--	--	--	--	--	--	--	--	--	--	
5/11/1994	--		5.57	0.00	2.51	--	--	--	--	--	--	--	--	--	--	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-9 Cont.																	
8/1/1994	--	8.08	6.25	0.00	1.83	--	--	--	--	--	--	--	--	--	--	--	
10/18/1994	--		5.59	0.13	2.59	--	--	--	--	--	--	--	--	--	--	--	
1/13/1995	--		4.42	0.14	3.77	--	--	--	--	--	--	--	--	--	--	--	
4/13/1995	--		4.06	0.11	4.10	--	--	--	--	--	--	--	--	--	--	--	
7/11/1995	--		4.21	0.08	3.93	--	--	--	--	--	--	--	--	--	--	--	
11/2/1995	--		5.22	0.05	2.90	--	--	--	--	--	--	--	--	--	--	--	
2/5/1996	--		4.76	0.01	3.33	--	--	--	--	--	--	--	--	--	--	--	
4/24/1996	--		4.62	0.09	3.53	--	--	--	--	--	--	--	--	--	--	--	
7/15/1996	--		5.11	0.04	3.00	--	--	--	--	--	--	--	--	--	--	--	
7/30/1996	--		5.15	0.00	2.93	--	--	--	--	--	--	--	--	--	--	--	
11/4/1996	--		6.75	0.01	1.34	--	--	--	--	--	--	--	--	--	--	--	
5/17/1997	--		5.42	0.00	2.66	97,000	--	16,000	7,700	2,300	18,400	40,000	--	--	7.0	--	
5/17/1997	--		5.42	0.00	2.66	97,000	--	16,000	8,200	2,300	17,300	39,000	--	--	--	--	DUP
8/11/1997	--		5.37	0.00	2.71	71,000	--	12,000	340	2,100	4,300	26,000	--	--	9.1	--	
8/11/1997	--		5.37	0.00	2.71	100,000	--	14,000	360	3,200	5,790	27,000	--	--	--	--	DUP
11/17/1997	--		5.62	Sheen	2.46	100,000	--	24,000	5,300	3,500	19,300	35,000	--	--	--	--	DUP
11/17/1997	--		5.62	Sheen	2.46	100,000	--	22,000	4,800	3,100	17,900	32,000	--	--	8.3	--	
1/29/1998	--		4.07	Sheen	4.01	250,000	--	20,000	21,000	3,100	18,500	110,000	--	--	6.6	--	
1/29/1998	--		4.07	Sheen	4.01	250,000	--	20,000	20,000	3,100	18,400	110,000	--	--	--	--	DUP
6/22/1998	--		4.28	0.00	3.80	280,000	--	21,000	18,000	3,800	21,200	110,000	--	--	5.8	--	
6/22/1998	--		4.28	0.00	3.80	290,000	--	20,000	17,000	3,800	21,200	110,000	--	--	--	--	DUP
12/30/1998	--		4.95	0.00	3.13	150,000	--	10,000	3,800	2,000	9,600	86,000	--	--	--	--	
3/9/1999	--		3.95	0.00	4.13	82,000	--	6,800	570	1,400	4,700	100,000	--	--	--	--	
6/23/1999	--		5.12	0.00	2.96	41,000	--	11,000	820	2,300	5,200	92,000	--	--	--	--	
9/23/1999	--		4.74	0.00	3.34	57,000	--	12,000	5,400	1,900	9,500	89,000	--	--	--	--	
12/28/1999	--		4.58	0.00	3.50	46,000	--	15,000	490	2,500	3,500	100,000	--	--	--	--	
3/22/2000	--		3.90	0.00	4.18	86,000	--	18,000	1,800	2,300	6,800	120,000	--	--	--	--	
5/26/2000	--		4.15	0.00	3.93	82,000	--	17,000	680	1,800	3,800	100,000	--	--	--	--	
9/6/2000	--		4.47	0.00	3.61	100,000	--	19,000	280	2,400	6,400	84,000	--	--	--	--	
9/15/2000	--		4.34	0.00	3.74	--	--	--	--	--	--	--	--	--	--	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-9 Cont.																	
12/11/2000	--	8.08	4.41	0.00	3.67	110,000	--	14,400	768	2,610	6,670	123,000	--	--	--	--	
3/29/2001	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	INA
6/26/2001	--		5.03	0.13	3.15	--	--	--	--	--	--	--	--	--	--	--	GW Elev. Estimated
9/19/2001	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/28/2001	--		3.73	0.00	4.35	110,000	--	15,000	1,500	2,280	5,530	60,900	--	--	--	--	
3/12/2002	--		4.93	0.00	3.15	88,000	--	12,500	2,600	2,800	8,950	44,000	--	--	--	--	
6/13/2002	--		4.13	0.00	3.95	59,000	--	9,870	161	2,560	5,560	35,600	--	--	--	--	
9/6/2002	--		4.39	0.00	3.69	47,000	--	10,000	<100	2,100	4,600	31,000	--	--	--	--	
12/13/2002	--		3.97	0.00	4.11	57,000	--	11,000	1,000	2,300	5,800	28,000	--	--	--	--	EPA 8015B/8021B used
2/19/2003	--		3.25	0.00	4.83	76,000	--	10,000	2,100	3,000	8,900	11,000	--	--	--	--	
6/6/2003	--		3.94	0.00	4.14	66,000	--	9,000	<500	2,500	4,400	17,000	--	--	--	--	
8/7/2003	--		3.92	Sheen	4.16	53,000	--	7,600	<250	2,600	4,700	17,000	--	--	--	--	
11/20/2003	--		4.89	0.00	3.19	40,000	--	6,800	<250	860	1,100	16,000	--	--	--	--	
4/28/2004	--		3.19	Sheen	4.89	47,000	--	5,600	690	2,300	6,800	8,500	--	--	--	--	
8/26/2004	--		3.61	0.00	4.47	35,000	--	3,700	500	1,300	5,300	6,500	--	--	--	--	Past holding time (TBA)
8/26/2004	--		3.61	0.00	4.47	35,000	--	3,700	500	1,300	5,300	6,500	--	--	--	--	Past holding time (TBA)
12/1/2004	--		3.99	0.00	4.09	36,000	--	3,500	<250	1,200	4,300	8,300	--	--	--	--	
2/2/2005	--		3.71	Sheen	4.37	21,000	--	1,800	130	670	2,000	3,600	--	--	--	--	
4/25/2005	--	10.55	3.31	Sheen	7.24	5,900	--	190	<5.0	120	77	540	--	--	--	--	
9/30/2005	--		4.02	0.00	6.53	26,000	--	2,400	360	1,600	4,200	2,400	--	--	--	--	
12/28/2005	--		2.99	0.00	7.56	14,000	--	1,400	22	350	450	2,200	--	--	--	--	
3/23/2006	--		2.50	0.00	8.05	4,100	--	250	<10	130	110	330	--	--	--	--	
6/5/2006	--		3.34	0.00	7.21	8,200	--	2,200	79	500	1,200	1,800	--	--	--	--	Well purged dry
9/19/2006	--		4.06	0.00	6.49	9,000	--	2,600	15	440	370	3,100	--	--	--	--	Well purged dry
12/1/2006	--		3.88	0.00	6.67	5,400	--	1,600	15	310	140	1,400	--	--	--	--	Well purged dry
3/1/2007	--		2.79	0.00	7.76	6,300	--	250	<13	270	75	240	--	--	--	--	
6/1/2007	--		3.53	0.00	7.02	6,500	--	980	16	250	95	1,800	--	--	--	--	
9/13/2007	--		4.78	0.00	5.77	4,500	--	170	14	79	27	640	--	--	--	--	
11/21/2007	--		4.41	0.00	6.14	4,600	--	790	<13	97	34	2,000	--	--	--	--	
2/29/2008	--		3.41	0.00	7.14	6,800	--	700	19	250	98	1,100	--	--	--	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-9 Cont.																	
5/23/2008	--	10.55	4.53	0.00	6.02	5,300	--	390	22	130	68	1,200	--	--	--	--	
9/26/2008	--		5.07	0.00	5.48	10,000	--	94	11	26	35	280	--	--	--	--	
12/23/2008	--		4.04	0.00	6.51	2,600	--	420	7.9	110	84	870	--	--	--	--	
3/9/2009	--		3.45	0.00	7.10	3,400	--	45	2.2	51	18	180	--	--	--	--	
5/28/2009	--		4.17	0.00	6.38	4,400	--	420	14	270	170	720	--	--	0.94	--	
12/10/2009	--		4.11	Sheen	6.44	4400	--	240	7.9	17	19	780	--	--	--	--	
6/29/2010	P		4.30	0.00	6.25	4,200	--	680	15	110	130	1,200	--	--	0.37	6.98	
12/30/2010	P		2.79	0.00	7.76	420	--	6.7	<0.50	2.1	2.0	13	--	--	0.79	7.23	
6/29/2011	**P**		**3.72**	**0.00**	**6.83**	**4,700**	**--**	**600**	**13**	**370**	**120**	**900**	**--**	**--**	**0.48**	**7.2**	
MW-10																	
4/25/2005	--	12.53	8.37	0.00	4.16	<50	--	<0.50	<0.50	<0.50	<0.50	1.5	--	--	--	--	
9/30/2005	--		8.41	0.00	4.12	<50	--	<0.50	<0.50	<0.50	<1.0	1.5	--	--	--	--	
12/28/2005	--		7.78	0.00	4.75	<50	--	<0.50	<0.50	<0.50	<1.0	0.78	--	--	--	--	
3/23/2006	--		7.77	0.00	4.76	<50	--	<0.50	<0.50	<0.50	<1.0	0.67	--	--	--	--	
6/5/2006	--		8.38	0.00	4.15	<50	--	<0.50	<0.50	<0.50	<1.0	1.8	--	--	--	--	
9/19/2006	--		7.99	0.00	4.54	<50	--	<0.50	<0.50	<0.50	<1.0	0.59	--	--	--	--	
12/1/2006	--		5.47	0.00	7.06	<50	--	<0.50	<0.50	<0.50	<1.0	0.89	--	--	--	--	Well purged dry
3/1/2007	--		7.92	0.00	4.61	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
6/1/2007	--		8.55	0.00	3.98	<50	--	<0.50	<0.50	<0.50	<1.0	1.2	--	--	--	--	
9/13/2007	--		8.71	0.00	3.82	<50	--	<0.50	<0.50	<0.50	<1.0	0.94	--	--	--	--	
11/21/2007	--		8.84	0.00	3.69	<50	--	<0.50	<0.50	<0.50	<1.0	2.2	--	--	--	--	
2/29/2008	--		8.20	0.00	4.33	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
5/23/2008	--		8.49	0.00	4.04	<50	--	<0.50	<0.50	<0.50	<1.0	2.2	--	--	--	--	
9/26/2008	--		9.91	0.00	2.62	<50	--	<1.0	<1.0	<1.0	<1.0	3.0	--	--	--	--	
12/23/2008	--		8.60	0.00	3.93	<50	--	<1.0	<1.0	<1.0	<1.0	2.7	--	--	--	--	
3/9/2009	--		7.68	0.00	4.85	<50	--	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	
5/28/2009	--		8.71	0.00	3.82	<50	--	<1.0	<1.0	<1.0	<1.0	1.3	--	--	2.76	--	
12/10/2009	--		8.35	0.00	4.18	<50	--	<0.50	<0.50	<0.50	<1.0	1.5	--	--	1.81	--	
6/29/2010	P		8.43	0.00	4.10	<50	--	<0.50	<0.50	<0.50	<1.0	1.6	--	--	1.00	7.05	
12/30/2010	P		6.62	0.00	5.91	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	1.26	6.95	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-10 Cont.																	
6/29/2011	**P**	**12.53**	**7.16**	**0.00**	**5.37**	--	--	--	--	--	--	**<0.50**	--	--	**0.49**	**7.4**	
MW-11																	
4/25/2005	--	14.55	9.29	0.00	5.26	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
9/30/2005	--		10.23	0.00	4.32	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
12/28/2005	--		9.09	0.00	5.46	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
3/23/2006	--		8.75	0.00	5.80	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
6/5/2006	--		9.47	0.00	5.08	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
9/19/2006	--		10.16	0.00	4.39	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
12/1/2006	--		10.46	0.00	4.09	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
3/1/2007	--		9.62	0.00	4.93	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
6/1/2007	--		9.97	0.00	4.58	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
9/13/2007	--		10.42	0.00	4.13	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
11/21/2007	--		10.64	0.00	3.91	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
2/29/2008	--		9.76	0.00	4.79	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
5/23/2008	--		10.51	0.00	4.04	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
9/26/2008	--		10.51	0.00	4.04	<50	--	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	
12/23/2008	--		10.74	0.00	3.81	<50	--	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	
3/9/2009	--		9.50	0.00	5.05	<50	--	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	
5/28/2009	--		10.40	0.00	4.15	<50	--	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	3.06	--	
12/10/2009	--		10.41	0.00	4.14	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	1.03	--	Obstruction
6/29/2010	P		10.19	0.00	4.36	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	0.47	7.43	
12/30/2010	P		9.22	0.00	5.33	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	0.63	6.97	
6/29/2011	**P**		**9.40**	**0.00**	**5.15**	--	--	--	--	--	--	**<0.50**	--	--	**0.75**	**7.4**	
QC-2																	
11/5/1992	--	NS	--	--	--	<50	--	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	
10/12/1993	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	
2/15/1994	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	
5/11/1994	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	
8/1/1994	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	

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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)									DO (mg/L)	pH	Footnote
						GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
QC-2 Cont.																	
10/18/1994	--	NS	--	--	--	<50	--	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	
1/13/1995	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	
4/13/1995	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	
7/11/1995	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	
11/2/1995	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	--	
2/5/1996	--		--	--	--	<50	--	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--	
4/24/1996	--		--	--	--	<50	--	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--	
7/16/1996	--		--	--	--	<50	--	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--	
QCTB																	
9/30/2005	--	NS	--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
12/28/2005	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
3/23/2006	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
6/5/2006	--		--	--	--	50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
9/19/2006	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
12/1/2006	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
3/1/2007	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
6/1/2007	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
9/13/2007	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
11/21/2007	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
2/29/2008	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
5/23/2008	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	--	
9/26/2008	--		--	--	--	<50	--	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	
12/23/2008	--		--	--	--	<50	--	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	
3/9/2009	--		--	--	--	<50	--	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	
5/28/2009	--		--	--	--	<50	--	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	

Symbols & Abbreviations:
TPHg = Total petroleum hydrocarbons as gasoline
TPHd = Total petroleum hydrocarbons as diesel
GRO = Gasoline range organics
DRO = Diesel range organics
TOG = Total petroleum hydrocarbons as oil and grease
ORO = Motor oil range organics
MTBE = Methyl tert-butyl ether
HVOC = Halogenated volatile organic compounds
DO = Dissolved Oxygen; rounded to the nearest tenth
TOC = Top of casing
P/NP = Well purged/not purged prior to sampling
GWE adjusted assuming a specific gravity of 0.75 for free product.
mg/L = Milligrams per liter
µg/L = Micrograms per liter
< = Analyte was not detected above the specified method detection limit
-- = Not measured or analyzed
ND = Not detected (historical data; reporting limit not reported)
DUP = Duplicate sample
INA = Well inaccessible; not sampled
NS = Well not sampled

Footnotes:
a = DRO and ORO samples collected from MW-3 on 12/10/2009.
b = Identity of contaminant uncertain (hydrocarbon pattern atypical of indicated analyte); see lab report

Notes:
Beginning in the first quarter 2003, TPHg and VOCs analyzed by EPA Method 8260B

Beginning in the fourth quarter 2009, TOG replaced by ORO by EPA Method 8015B

The data within this table collected prior to December 2009 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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
10/12/1993	--	--	6,111	--	--	--	--	--	
2/15/1994	--	--	5,495	--	--	--	--	--	
5/11/1994	--	--	705	--	--	--	--	--	
8/1/1994	--	--	9,718	--	--	--	--	--	
8/1/1994	--	--	9,800	--	--	--	--	--	DUP
10/18/1994	--	--	15,668	--	--	--	--	--	DUP
10/18/1994	--	--	--	--	--	--	--	--	DUP
1/13/1995	--	--	--	--	--	--	--	--	DUP
1/13/1995	--	--	--	--	--	--	--	--	DUP
11/2/1995	--	--	52,000	--	--	--	--	--	
2/5/1996	--	--	8,700	--	--	--	--	--	
4/24/1996	--	--	4,500	--	--	--	--	--	
7/16/1996	--	--	64,000	--	--	--	--	--	
7/16/1996	--	--	63,000	--	--	--	--	--	DUP
8/12/1996	--	--	440,000	--	--	--	--	--	
11/5/1996	--	--	42,000	--	--	--	--	--	
5/17/1997	--	--	140,198	--	--	--	--	--	
8/11/1997	--	--	360,000	--	--	--	--	--	
11/17/1997	--	--	400,000	--	--	--	--	--	
1/29/1998	--	--	<50	--	--	--	--	--	
6/22/1998	--	--	57,000	--	--	--	--	--	
12/30/1998	--	--	15,000	--	--	--	--	--	
3/9/1999	--	--	13,000	--	--	--	--	--	
6/23/1999	--	--	24,000	--	--	--	--	--	
9/23/1999	--	--	7,100	--	--	--	--	--	
12/28/1999	--	--	5,500	--	--	--	--	--	
3/22/2000	--	--	4,900	--	--	--	--	--	
5/26/2000	--	--	320,000	--	--	--	--	--	
9/6/2000	--	--	19,000	--	--	--	--	--	
12/11/2000	--	--	3,900	--	--	--	--	--	
3/29/2001	--	--	--	--	--	--	--	--	INA
6/27/2001	--	--	1,780	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1 Cont.									
9/19/2001	--	--	1,090	--	--	--	--	--	
12/28/2001	--	--	1,120	--	--	--	--	--	
3/12/2002	--	--	1,020	--	--	--	--	--	
6/13/2002	--	--	6,490	--	--	--	--	--	
9/6/2002	--	--	550	--	--	--	--	--	
12/13/2002	--	--	470	--	--	--	--	--	EPA 8015B/8021B used
2/19/2003	--	--	610	--	--	--	--	--	
6/6/2003	<5,000	<1,000	1,400	<25	<25	<25	--	--	
8/7/2003	<1,000	560	920	<5.0	<5.0	12	<5.0	<5.0	
11/20/2003	1,800	<200	250	<5.0	<5.0	<5.0	--	--	a (ethanol)
4/28/2004	<1,000	950	200	<5.0	<5.0	<5.0	<5.0	<5.0	
8/26/2004	<5.0	320	180	<2.5	<2.5	<2.5	<2.5	<2.5	e (ethanol)
8/26/2004	<500	320	180	<2.5	<2.5	<2.5	<2.5	<2.5	b (ethanol)
12/1/2004	<1,000	300	170	<5.0	<5.0	<5.0	<5.0	<5.0	
2/2/2005	<500	6,700	160	<2.5	<2.5	<2.5	<2.5	<2.5	b (ethanol)
4/25/2005	<500	5,000	200	<2.5	<2.5	<2.5	<2.5	<2.5	
9/30/2005	<500	1,200	250	13	<5.0	<5.0	<5.0	<5.0	
12/28/2005	<1,000	1,800	140	<10	<5.0	<5.0	<5.0	--	
3/23/2006	<1,000	2,800	40	<10	<5.0	<5.0	<5.0	<5.0	
6/5/2006	<500	1,900	160	<5.0	<2.5	<2.5	<2.5	<2.5	
9/19/2006	<1,300	1,000	180	<5.0	<2.5	<2.5	<2.5	<2.5	Well purged dry
12/1/2006	<1,300	930	150	<5.0	<2.5	<2.5	<2.5	<2.5	
3/1/2007	<1,000	510	160	<4.0	<2.0	2.0	<2.0	<2.0	
6/1/2007	<1,000	1,500	140	<4.0	<2.0	2.2	<2.0	<2.0	
9/13/2007	1,100	1,300	59	<4.0	<2.0	<2.0	<2.0	<2.0	
11/21/2007	<1,000	1,300	200	<4.0	<2.0	2.7	<2.0	<2.0	
2/29/2008	<250	1,200	25	<1.0	<0.50	<0.50	<0.50	<0.50	
5/23/2008	<250	1,800	120	<1.0	<0.50	1.4	<0.50	<0.50	
9/26/2008	<250	1,400	120	<1.0	<1.0	1.9	<1.0	<1.0	
12/23/2008	<250	940	75	<1.0	<1.0	<1.0	<1.0	<1.0	
3/9/2009	<250	1,300	88	<1.0	<1.0	1.7	<1.0	<1.0	
5/28/2009	<250	1,800	48	<1.0	<1.0	1.3	<1.0	<1.0	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1 Cont.									
12/10/2009	<100	560	65	<0.50	<0.50	1.1	<0.50	<0.50	
6/29/2010	<100	2,000	<0.50	<0.50	<0.50	1.2	<0.50	<0.50	
12/30/2010	<250	1,900	46	<0.50	<0.50	1.0	<0.50	<0.50	
6/29/2011	**--**	**840**	**3.9**	**--**	**--**	**<0.50**	**--**	**--**	
MW-2									
11/4/1992	--	--	--	--	--	--	--	--	DUP
11/4/1992	--	--	--	--	--	--	--	--	DUP
10/12/1993	--	--	442	--	--	--	--	--	
2/15/1994	--	--	127	--	--	--	--	--	DUP
5/11/1994	--	--	953	--	--	--	--	--	
5/11/1994	--	--	740	--	--	--	--	--	DUP
8/1/1994	--	--	1,676	--	--	--	--	--	
10/18/1994	--	--	2,417	--	--	--	--	--	
1/13/1995	--	--	--	--	--	--	--	--	
4/13/1995	--	--	--	--	--	--	--	--	
4/13/1995	--	--	--	--	--	--	--	--	DUP
7/11/1995	--	--	--	--	--	--	--	--	DUP
7/11/1995	--	--	--	--	--	--	--	--	
11/2/1995	--	--	15,000	--	--	--	--	--	
11/2/1995	--	--	19,000	--	--	--	--	--	DUP
2/5/1996	--	--	99	--	--	--	--	--	
2/5/1996	--	--	93	--	--	--	--	--	DUP
4/24/1996	--	--	<100	--	--	--	--	--	
4/24/1996	--	--	<50	--	--	--	--	--	DUP
7/16/1996	--	--	1,400	--	--	--	--	--	
11/5/1996	--	--	1,100	--	--	--	--	--	DUP
11/5/1996	--	--	1,100	--	--	--	--	--	DUP
5/17/1997	--	--	210	--	--	--	--	--	
8/11/1997	--	--	2,400	--	--	--	--	--	
11/17/1997	--	--	130	--	--	--	--	--	
1/29/1998	--	--	<10	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-2 Cont.									
6/22/1998	--	--	560	--	--	--	--	--	
9/23/1999	--	--	910	--	--	--	--	--	
3/22/2000	--	--	2,800	--	--	--	--	--	
9/6/2000	--	--	12,000	--	--	--	--	--	
3/29/2001	--	--	--	--	--	--	--	--	INA
6/27/2001	--	--	--	--	--	--	--	--	INA
9/19/2001	--	--	--	--	--	--	--	--	INA
12/28/2001	--	--	--	--	--	--	--	--	INA
3/12/2002	--	--	37,300	--	--	--	--	--	
6/13/2002	--	--	84,600	--	--	--	--	--	
9/6/2002	--	--	45,000	--	--	--	--	--	
12/13/2002	--	--	98,000	--	--	--	--	--	EPA 8015B/8021B used
2/19/2003	--	--	81,000	--	--	--	--	--	
6/6/2003	<200,000	<40,000	72,000	<1,000	<1,000	1,300	--	--	
8/7/2003	<100,000	45,000	83,000	<500	<500	1,300	<500	<500	
11/20/2003	<20,000	48,000	18,000	<100	<100	200	--	--	
4/28/2004	<50,000	59,000	31,000	<250	<250	<250	<250	<250	
8/26/2004	23	<10,000	11,000	<250	<250	320	<250	<250	e (ethanol)
8/26/2004	<50,000	<10,000	11,000	<250	<250	320	<250	<250	b (ethanol)
12/1/2004	<20,000	<4,000	10,000	<100	<100	230	<100	<100	
2/2/2005	<20,000	4,000	10,000	<100	<100	260	<100	<100	b (ethanol)
4/25/2005	<10,000	3,700	8,200	<50	<50	220	<50	<50	
9/30/2005	<5,000	4,700	16,000	<50	<50	270	<50	<50	
12/28/2005	<20,000	6,300	22,000	<200	<100	410	<100	--	
3/23/2006	<20,000	5,800	13,000	<200	<100	290	<100	<100	
6/5/2006	<10,000	3,300	8,000	<100	<50	280	<50	<50	
9/19/2006	<25,000	4,800	16,000	<100	<50	370	<50	<50	
12/1/2006	<25,000	3,900	10,000	<100	<50	270	<50	<50	
3/1/2007	<25,000	2,700	8,300	<100	<50	210	<50	<50	
6/1/2007	<50,000	4,900	17,000	260	<100	310	<100	<100	
9/13/2007	<25,000	42,000	2,300	<100	<50	50	<50	<50	
11/21/2007	<25,000	5,000	5,200	<100	<50	160	<50	<50	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-2 Cont.									
2/29/2008	<25,000	2,500	4,900	<100	<50	120	<50	<50	
5/23/2008	<25,000	29,000	2,500	140	<50	60	<50	<50	
9/26/2008	<250	77,000	960	<1.0	2.8	42	<1.0	<1.0	
12/23/2008	<500	57,000	1,800	<2.0	2.4	51	<2.0	<2.0	
3/9/2009	<5,000	21,000	2,200	<20	<20	82	<20	<20	
5/28/2009	<2,500	2,000	2,800	<10	<10	110	<10	<10	
12/10/2009	<100	44,000	360	0.52	1.4	8.7	<0.50	<0.50	
6/29/2010	<5,000	31,000	770	<25	<25	<25	<25	<25	
12/30/2010	<12,000	4,700	1,700	<25	<25	56	<25	<25	
6/29/2011	**--**	**2,400**	**2,100**	**<25**	**<25**	**77**	**<25**	**<25**	
MW-3									
10/12/1993	--	--	96	--	--	--	--	--	DUP
2/15/1994	--	--	30	--	--	--	--	--	
5/11/1994	--	--	51	--	--	--	--	--	
8/1/1994	--	--	18	--	--	--	--	--	
10/18/1994	--	--	21	--	--	--	--	--	
11/2/1995	--	--	270	--	--	--	--	--	
2/5/1996	--	--	11	--	--	--	--	--	
4/24/1996	--	--	150	--	--	--	--	--	
7/15/1996	--	--	<50	--	--	--	--	--	
11/5/1996	--	--	30	--	--	--	--	--	
5/17/1997	--	--	52	--	--	--	--	--	
8/11/1997	--	--	170	--	--	--	--	--	
11/17/1997	--	--	46	--	--	--	--	--	
1/29/1998	--	--	330	--	--	--	--	--	
6/22/1998	--	--	130	--	--	--	--	--	
3/9/1999	--	--	19	--	--	--	--	--	
3/22/2000	--	--	2,900	--	--	--	--	--	
12/11/2000	--	--	--	--	--	--	--	--	DTW anomalous
3/29/2001	--	--	680	--	--	--	--	--	
6/27/2001	--	--	560	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-3 Cont.									
9/19/2001	--	--	464	--	--	--	--	--	
12/28/2001	--	--	180	--	--	--	--	--	
3/12/2002	--	--	443	--	--	--	--	--	
6/13/2002	--	--	395	--	--	--	--	--	
9/6/2002	--	--	650	--	--	--	--	--	
12/13/2002	--	--	60	--	--	--	--	--	EPA 8015B/8021B used
2/19/2003	--	--	120	--	--	--	--	--	
6/6/2003	<1,000	<200	180	<5.0	<5.0	16	--	--	
8/7/2003	<1,000	<200	290	<5.0	<5.0	20	<5.0	<5.0	
11/20/2003	<100	<20	17	<0.50	<0.50	1.4	--	--	
4/28/2004	<200	<40	87	<1.0	<1.0	3.9	<1.0	<1.0	
8/26/2004	<100	260	34	<0.50	<0.50	2.0	<0.50	<0.50	b (ethanol)
8/26/2004	<5.0	260	34	<0.50	<0.50	2.0	<0.50	<0.50	e (ethanol)
12/1/2004	<200	610	7.4	<1.0	<1.0	<1.0	<1.0	<1.0	
2/2/2005	<200	<40	20	<1.0	<1.0	1.1	<1.0	<1.0	b (ethanol)
4/25/2005	<500	160	220	<2.5	<2.5	10	<2.5	<2.5	b (ethanol)
9/30/2005	<50	270	8.2	<0.50	<0.50	0.68	<0.50	<0.50	
12/28/2005	<100	<5.0	0.66	<1.0	<0.50	<0.50	<0.50	--	
3/23/2006	<100	130	13	<1.0	<0.50	0.63	<0.50	<0.50	
6/5/2006	<100	510	29	<1.0	<0.50	1.6	<0.50	<0.50	
9/19/2006	<250	420	4.1	<1.0	<0.50	<0.50	<0.50	<0.50	
12/1/2006	<250	250	2.0	<1.0	<0.50	<0.50	<0.50	<0.50	
3/1/2007	<250	77	3.8	<1.0	<0.50	<0.50	<0.50	<0.50	
6/1/2007	<250	320	3.7	<1.0	<0.50	<0.50	<0.50	<0.50	
9/13/2007	<1,300	2,000	2.6	<5.0	<2.5	<2.5	<2.5	<2.5	
11/21/2007	<1,300	2,600	3.4	<5.0	<2.5	<2.5	<2.5	<2.5	
2/29/2008	<250	540	0.90	<1.0	<0.50	<0.50	<0.50	<0.50	
5/23/2008	<2,500	3,200	<5.0	<10	<5.0	<5.0	<5.0	<5.0	
9/26/2008	<250	6,900	4.8	<1.0	<1.0	<1.0	<1.0	<1.0	
12/23/2008	<250	8,200	4.9	<1.0	<1.0	<1.0	<1.0	<1.0	
3/9/2009	<250	55	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
5/28/2009	<250	580	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-3 Cont.									
12/10/2009	<100	270	0.86	<0.50	<0.50	<0.50	<0.50	<0.50	
6/29/2010	<100	2,900	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	
12/30/2010	<250	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/29/2011	**--**	**73**	**0.73**	**--**	**--**	**<0.50**	**--**	**--**	
MW-4									
10/12/1993	--	--	261	--	--	--	--	--	
2/15/1994	--	--	118	--	--	--	--	--	
5/11/1994	--	--	137	--	--	--	--	--	
8/1/1994	--	--	138	--	--	--	--	--	
10/18/1994	--	--	197	--	--	--	--	--	
11/2/1995	--	--	140	--	--	--	--	--	
2/5/1996	--	--	200	--	--	--	--	--	
4/24/1996	--	--	510	--	--	--	--	--	
7/15/1996	--	--	550	--	--	--	--	--	
11/5/1996	--	--	620	--	--	--	--	--	
11/17/1997	--	--	880	--	--	--	--	--	
3/9/1999	--	--	2,000	--	--	--	--	--	
3/22/2000	--	--	3,800	--	--	--	--	--	
3/29/2001	--	--	--	--	--	--	--	--	INA
6/27/2001	--	--	4,220	--	--	--	--	--	
9/19/2001	--	--	3,340	--	--	--	--	--	
12/28/2001	--	--	5,330	--	--	--	--	--	
3/12/2002	--	--	8,440	--	--	--	--	--	
6/13/2002	--	--	6,870	--	--	--	--	--	
9/6/2002	--	--	9,600	--	--	--	--	--	
12/13/2002	--	--	8,600	--	--	--	--	--	EPA 8015B/8021B used
2/19/2003	--	--	8,000	--	--	--	--	--	
6/6/2003	<10,000	2,500	6,800	<50	<50	190	--	--	
8/7/2003	<10,000	2,400	6,600	<50	<50	160	<50	<50	
11/20/2003	<20,000	<4,000	11,000	<100	<100	310	--	--	
4/28/2004	<50,000	15,000	3,600	<250	<250	<250	<250	<250	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-4 Cont.									
8/26/2004	<5.0	16,000	1,800	<25	<25	60	<25	<25	
12/1/2004	<2,000	19,000	450	<10	<10	10	<10	<10	
2/2/2005	<1,000	19,000	410	<5.0	<5.0	10	<5.0	<5.0	b (ethanol)
4/25/2005	<1,000	18,000	170	<5.0	<5.0	<5.0	<5.0	<5.0	
9/30/2005	<2,500	30,000	110	<25	<25	<25	<25	<25	
12/28/2005	<5,000	27,000	34	<50	<25	<25	<25	--	
3/23/2006	<5,000	34,000	120	<50	<25	<25	<25	<25	
6/5/2006	<10,000	34,000	<50	<100	<50	<50	<50	<50	Well purged dry
9/19/2006	<25,000	27,000	110	<100	<50	<50	<50	<50	Well purged dry
12/1/2006	<25,000	31,000	68	<100	<50	<50	<50	<50	Well purged dry
3/1/2007	<25,000	31,000	<50	<100	<50	<50	<50	<50	
6/1/2007	<13,000	32,000	31	<50	<25	<25	<25	<25	
9/13/2007	<13,000	10,000	<25	<50	<25	<25	<25	<25	
11/21/2007	<13,000	38,000	<25	<50	<25	<25	<25	<25	
2/29/2008	<25,000	32,000	<50	<100	<50	<50	<50	<50	
5/23/2008	<25,000	42,000	<50	<100	<50	<50	<50	<50	
9/26/2008	<250	39,000	14	<1.0	2.8	<1.0	<1.0	<1.0	
12/23/2008	<250	37,000	15	<1.0	3.2	<1.0	<1.0	<1.0	
3/9/2009	<250	27,000	18	<1.0	3.5	<1.0	<1.0	<1.0	
5/28/2009	<250	36,000	21	<1.0	2.9	1.1	<1.0	<1.0	
12/10/2009	<100	39,000	10	<0.50	2.7	<0.50	<0.50	<0.50	Well purged dry
6/29/2010	<1,000	38,000	7.3	<5.0	<5.0	<5.0	<5.0	<5.0	
12/30/2010	<2,500	31,000	11	<5.0	<5.0	<5.0	<5.0	<5.0	
6/29/2011	**--**	**30,000**	**11**	**--**	**--**	**<5.0**	**--**	**--**	
MW-5									
2/15/1994	--	--	153	--	--	--	--	--	
5/11/1994	--	--	165	--	--	--	--	--	
8/1/1994	--	--	196	--	--	--	--	--	
10/18/1994	--	--	559	--	--	--	--	--	
11/3/1995	--	--	200	--	--	--	--	--	
2/5/1996	--	--	<50	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-5 Cont.									
4/24/1996	--	--	<100	--	--	--	--	--	
7/16/1996	--	--	<100	--	--	--	--	--	
8/12/1996	--	--	<50	--	--	--	--	--	
11/5/1996	--	--	1,700	--	--	--	--	--	
5/17/1997	--	--	46	--	--	--	--	--	
8/11/1997	--	--	1,900	--	--	--	--	--	
11/17/1997	--	--	13,000	--	--	--	--	--	
1/29/1998	--	--	180,000	--	--	--	--	--	
6/22/1998	--	--	47	--	--	--	--	--	
12/30/1998	--	--	63	--	--	--	--	--	
3/9/1999	--	--	24	--	--	--	--	--	
6/23/1999	--	--	7,500	--	--	--	--	--	
9/23/1999	--	--	580	--	--	--	--	--	
12/28/1999	--	--	4,800	--	--	--	--	--	
3/22/2000	--	--	--	--	--	--	--	--	INA
5/26/2000	--	--	--	--	--	--	--	--	INA
9/6/2000	--	--	--	--	--	--	--	--	INA
9/15/2000	--	--	--	--	--	--	--	--	INA
12/11/2000	--	--	--	--	--	--	--	--	INA
3/29/2001	--	--	--	--	--	--	--	--	INA
6/27/2001	--	--	--	--	--	--	--	--	INA
9/19/2001	--	--	--	--	--	--	--	--	INA
12/28/2001	--	--	72	--	--	--	--	--	
3/12/2002	--	--	32	--	--	--	--	--	
6/13/2002	--	--	616	--	--	--	--	--	
9/6/2002	--	--	230	--	--	--	--	--	
12/13/2002	--	--	110	--	--	--	--	--	EPA 8015B/8021B used
2/19/2003	--	--	6.4	--	--	--	--	--	
6/6/2003	<1,000	<200	<5.0	<5.0	<5.0	<5.0	--	--	
8/7/2003	<1,000	<200	18	<5.0	<5.0	<5.0	<5.0	<5.0	
11/20/2003	<500	<100	12	<2.5	<2.5	<2.5	--	--	
4/28/2004	<500	<100	11	<2.5	<2.5	<2.5	<2.5	<2.5	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-5 Cont.									
8/26/2004	8.3	<100	74	<2.5	<2.5	<2.5	<2.5	<2.5	
12/1/2004	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
2/2/2005	<500	<100	11	<2.5	<2.5	<2.5	<2.5	<2.5	b (ethanol)
4/25/2005	<500	<100	12	<2.5	<2.5	<2.5	<2.5	<2.5	
9/30/2005	<100	27	16	<1.0	<1.0	<1.0	<1.0	<1.0	
12/28/2005	<400	<20	3.8	14	<2.0	<2.0	<2.0	--	
3/23/2006	<400	37	8.6	<4.0	<2.0	<2.0	<2.0	<2.0	
6/5/2006	<500	90	11	<5.0	<2.5	<2.5	<2.5	<2.5	
9/19/2006	<1,300	53	12	<5.0	<2.5	<2.5	<2.5	<2.5	
12/1/2006	<1,300	<25	14	<5.0	<2.5	2.7	<2.5	<2.5	
3/1/2007	<1,300	<25	<2.5	<5.0	<2.5	<2.5	<2.5	<2.5	
6/1/2007	<1,300	40	11	32	<2.5	<2.5	<2.5	5.8	
9/13/2007	<1,300	<25	8.5	<5.0	<2.5	<2.5	<2.5	<2.5	
11/21/2007	<1,300	310	11	<5.0	<2.5	<2.5	<2.5	<2.5	
2/29/2008	<250	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	
5/23/2008	<1,200	<25	3.9	<5.0	<2.5	<2.5	<2.5	<2.5	
9/26/2008	<250	<5.0	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	
12/23/2008	<250	<5.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
3/9/2009	<250	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
5/28/2009	<250	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
12/10/2009	--	--	--	--	--	--	--	--	INA, Need traffic control
6/29/2010	--	--	--	--	--	--	--	--	INA, Need traffic control
12/30/2010	--	--	--	--	--	--	--	--	INA, Need traffic control
6/29/2011	**--**	**<4.0**	**1.9**	**--**	**--**	**<0.50**	**--**	**--**	
MW-6									
10/12/1993	--	--	44	--	--	--	--	--	
2/15/1994	--	--	38	--	--	--	--	--	
5/11/1994	--	--	49	--	--	--	--	--	
8/1/1994	--	--	60	--	--	--	--	--	
10/18/1994	--	--	85	--	--	--	--	--	
11/2/1995	--	--	35	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-6 Cont.									
2/5/1996	--	--	<100	--	--	--	--	--	
4/24/1996	--	--	62	--	--	--	--	--	
7/15/1996	--	--	<50	--	--	--	--	--	
11/5/1996	--	--	<10	--	--	--	--	--	
11/17/1997	--	--	<10	--	--	--	--	--	
3/29/2001	--	--	820	--	--	--	--	--	
6/27/2001	--	--	968	--	--	--	--	--	
9/19/2001	--	--	879	--	--	--	--	--	
12/28/2001	--	--	--	--	--	--	--	--	NS
3/12/2002	--	--	244	--	--	--	--	--	
6/13/2002	--	--	413	--	--	--	--	--	
9/6/2002	--	--	240	--	--	--	--	--	
12/13/2002	--	--	200	--	--	--	--	--	EPA 8015B/8021B used
2/19/2003	--	--	150	--	--	--	--	--	
6/6/2003	<1,000	<200	140	<5.0	<5.0	21	--	--	
8/7/2003	<1,000	<200	160	<5.0	<5.0	20	<5.0	<5.0	
11/20/2003	<100	<20	74	<0.50	<0.50	12	--	--	
4/28/2004	<500	<100	120	<2.5	<2.5	12	<2.5	<2.5	
8/26/2004	<500	<100	110	<2.5	<2.5	12	<2.5	<2.5	b (ethanol)
8/26/2004	11	<100	110	<2.5	<2.5	12	<2.5	<2.5	e (ethanol)
12/1/2004	<500	<100	86	<2.5	<2.5	11	<2.5	<2.5	
2/2/2005	<100	32	41	<0.50	<0.50	6.2	<0.50	<0.50	b (ethanol)
4/25/2005	<100	45	50	<0.50	<0.50	6.0	<0.50	<0.50	b (ethanol)
9/30/2005	<200	280	51	<2.0	<2.0	4.4	<2.0	<2.0	
12/28/2005	<100	160	16	<1.0	<0.50	2.0	<0.50	--	
3/23/2006	<100	35	5.6	<1.0	<0.50	0.91	<0.50	<0.50	
6/5/2006	<100	110	14	<1.0	<0.50	1.5	<0.50	<0.50	
9/19/2006	<250	190	8.8	<1.0	<0.50	1.4	<0.50	<0.50	
12/1/2006	<250	98	5.9	<1.0	<0.50	0.94	<0.50	<0.50	
3/1/2007	<250	96	6.0	<1.0	<0.50	0.68	<0.50	<0.50	
6/1/2007	<250	160	7.4	<1.0	<0.50	0.77	<0.50	<0.50	
9/13/2007	<250	120	6.7	<1.0	<0.50	0.87	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-6 Cont.									
11/21/2007	<250	210	8.4	<1.0	<0.50	1.0	<0.50	<0.50	
2/29/2008	<250	46	7.1	<1.0	<0.50	0.92	<0.50	<0.50	
5/23/2008	<250	53	8.4	<1.0	<0.50	0.95	<0.50	<0.50	
9/26/2008	<250	56	5.1	<1.0	<1.0	<1.0	<1.0	<1.0	
12/23/2008	<250	54	5.3	<1.0	<1.0	<1.0	<1.0	<1.0	
3/9/2009	<250	62	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	
5/28/2009	<250	55	6.6	<1.0	<1.0	<1.0	<1.0	<1.0	
12/10/2009	<100	40	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	
6/29/2010	<100	49	2.7	<0.50	<0.50	<0.50	<0.50	<0.50	
12/30/2010	<250	44	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	
6/29/2011	--	**37**	**3.6**	--	--	**<0.50**	--	--	
MW-7									
10/12/1993	--	--	<5.0	--	--	--	--	--	
2/15/1994	--	--	<5.0	--	--	--	--	--	
5/11/1994	--	--	12	--	--	--	--	--	
8/1/1994	--	--	182	--	--	--	--	--	
10/18/1994	--	--	52	--	--	--	--	--	
11/2/1995	--	--	55	--	--	--	--	--	
2/5/1996	--	--	40	--	--	--	--	--	
4/24/1996	--	--	53	--	--	--	--	--	
7/15/1996	--	--	<50	--	--	--	--	--	
11/5/1996	--	--	<10	--	--	--	--	--	
11/17/1997	--	--	<10	--	--	--	--	--	
3/29/2001	--	--	636	--	--	--	--	--	
6/27/2001	--	--	739	--	--	--	--	--	
9/19/2001	--	--	1,190	--	--	--	--	--	
12/28/2001	--	--	856	--	--	--	--	--	
3/12/2002	--	--	675	--	--	--	--	--	
6/13/2002	--	--	1,470	--	--	--	--	--	
9/6/2002	--	--	690	--	--	--	--	--	
12/13/2002	--	--	1,800	--	--	--	--	--	EPA 8015B/8021B used

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-7 Cont.									
2/19/2003	--	--	1,600	--	--	--	--	--	
6/6/2003	<1,000	<200	510	<5.0	<5.0	41	--	--	
8/7/2003	<1,000	<200	520	<5.0	<5.0	43	<5.0	<5.0	
11/20/2003	<500	1,300	270	<2.5	<2.5	8.9	--	--	
4/28/2004	<500	880	71	<2.5	<2.5	3.5	<2.5	<2.5	
8/26/2004	<500	4,800	150	<2.5	<2.5	7.8	<0.50	<0.50	
8/26/2004	6.0	4,800	150	<2.5	<2.5	7.8	<0.50	<0.50	e (ethanol)
12/1/2004	<200	1,400	25	<1.0	<1.0	1.1	<1.0	<1.0	
2/2/2005	<100	830	31	<0.50	<0.50	1.8	<0.50	<0.50	b (ethanol)
4/25/2005	<100	520	41	<0.50	<0.50	2.1	<0.50	<0.50	b (ethanol)
9/30/2005	<50	450	18	<0.50	<0.50	1.5	<0.50	<0.50	
12/28/2005	<1,000	1,600	7.4	<10	<5.0	<5.0	<5.0	--	
3/23/2006	<100	340	25	<1.0	<0.50	1.7	<0.50	<0.50	
6/5/2006	<100	200	14	<1.0	<0.50	1.2	<0.50	<0.50	
9/19/2006	<250	280	14	<1.0	<0.50	1.6	<0.50	<0.50	
12/1/2006	<1,300	1,400	6.7	<5.0	<2.5	<2.5	<2.5	<2.5	
3/1/2007	<1,300	1,000	4.0	<5.0	<2.5	<2.5	<2.5	<2.5	
6/1/2007	<250	600	7.5	<1.0	<0.50	0.59	<0.50	<0.50	
9/13/2007	<250	260	10	<1.0	<0.50	0.80	<0.50	<0.50	
11/21/2007	<250	1,500	8.4	<1.0	<0.50	0.87	<0.50	<0.50	
2/29/2008	<250	960	6.2	<1.0	<0.50	0.73	<0.50	<0.50	
5/23/2008	<250	300	9.6	<1.0	<0.50	0.96	<0.50	<0.50	
9/26/2008	<250	800	7.5	<1.0	<1.0	<1.0	<1.0	<1.0	
12/23/2008	<250	3,500	5.7	<1.0	<1.0	<1.0	<1.0	<1.0	
3/9/2009	<250	1,300	4.4	<1.0	<1.0	<1.0	<1.0	<1.0	
5/28/2009	<250	110	5.7	<1.0	<1.0	<1.0	<1.0	<1.0	
12/10/2009	<100	1,200	6.5	<0.50	<0.50	0.56	<0.50	<0.50	
6/29/2010	<100	2,000	3.0	<0.50	<0.50	<0.50	<0.50	<0.50	
12/30/2010	<250	3,900	5.6	<0.50	<0.50	0.58	<0.50	<0.50	
6/29/2011	**--**	**2,200**	**<5.0**	**--**	**--**	**<5.0**	**--**	**--**	
MW-8									

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-8 Cont.									
10/12/1993	--	--	11	--	--	--	--	--	
2/15/1994	--	--	<5.0	--	--	--	--	--	
5/11/1994	--	--	<5.0	--	--	--	--	--	
8/1/1994	--	--	<5.0	--	--	--	--	--	
10/18/1994	--	--	<5.0	--	--	--	--	--	
11/2/1995	--	--	<5.0	--	--	--	--	--	
2/5/1996	--	--	<100	--	--	--	--	--	
4/24/1996	--	--	<100	--	--	--	--	--	
7/15/1996	--	--	<50	--	--	--	--	--	
11/5/1996	--	--	<10	--	--	--	--	--	
11/17/1997	--	--	<10	--	--	--	--	--	
12/30/1998	--	--	--	--	--	--	--	--	INA
3/9/1999	--	--	--	--	--	--	--	--	INA
3/29/2001	--	--	--	--	--	--	--	--	INA
6/27/2001	--	--	3.4	--	--	--	--	--	
9/19/2001	--	--	<5.0	--	--	--	--	--	
12/28/2001	--	--	6.3	--	--	--	--	--	
3/12/2002	--	--	8.7	--	--	--	--	--	
6/13/2002	--	--	16	--	--	--	--	--	
9/6/2002	--	--	76	--	--	--	--	--	
12/13/2002	--	--	140	--	--	--	--	--	EPA 8015B/8021B used
2/19/2003	--	--	800	--	--	--	--	--	
6/6/2003	<100,000	<20,000	17,000	<500	<500	<500	--	--	
8/7/2003	<5,000	<1,000	2,400	<25	<25	44	<25	<25	
11/20/2003	<5,000	4,100	1,400	<25	<25	<25	--	--	b
4/28/2004	<500	42,000	170	<2.5	<2.5	<2.5	<2.5	<2.5	c
8/26/2004	<5.0	47,000	170	<25	<25	<25	<25	<25	
12/1/2004	<500	9,700	36	<2.5	<2.5	<2.5	<2.5	<2.5	
2/2/2005	<100	<20	41	<0.50	0.72	0.64	<0.50	<0.50	b (ethanol)
4/25/2005	<2,500	45,000	32	<12	<12	<12	<12	<12	
9/30/2005	<500	8,500	17	<5.0	<5.0	<5.0	<5.0	<5.0	
12/28/2005	<500	7,400	17	<5.0	<2.5	<2.5	<2.5	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-8 Cont.									
3/23/2006	<500	11,000	21	<5.0	<2.5	<2.5	<2.5	<2.5	
6/5/2006	<5,000	34,000	30	<50	<25	<25	<25	<25	
9/19/2006	<2,500	7,500	17	<10	<5.0	<5.0	<5.0	<5.0	Well purged dry
12/1/2006	<1,300	1,900	16	<5.0	<2.5	<2.5	<2.5	<2.5	
3/1/2007	<2,500	6,200	20	<10	<5.0	<5.0	<5.0	<5.0	
6/1/2007	<2,500	3,700	8.7	<10	<5.0	<5.0	<5.0	<5.0	
9/13/2007	<250	630	9.4	<1.0	<0.50	<0.50	<0.50	<0.50	
11/21/2007	<250	360	8.7	<1.0	<0.50	<0.50	<0.50	<0.50	
2/29/2008	<5,000	7,500	16	<20	<10	<10	<10	<10	
5/23/2008	<5,000	4,800	15	<20	<10	<10	<10	<10	
9/26/2008	<250	1,800	14	<1.0	<1.0	<1.0	<1.0	<1.0	
12/23/2008	<250	770	10	<1.0	<1.0	<1.0	<1.0	<1.0	
3/9/2009	<250	3,300	15	<1.0	<1.0	<1.0	<1.0	<1.0	
5/28/2009	<250	710	6.5	<1.0	<1.0	<1.0	<1.0	<1.0	
12/10/2009	<100	960	9.0	<0.50	<0.50	<0.50	<0.50	<0.50	
6/29/2010	<100	1,700	10	<0.50	<0.50	<0.50	<0.50	<0.50	
12/30/2010	<250	1,500	6.6	<0.50	<0.50	<0.50	<0.50	<0.50	
6/29/2011	**--**	**2,000**	**4.7**	**--**	**--**	**<0.50**	**--**	**--**	
MW-9									
5/17/1997	--	--	40,000	--	--	--	--	--	
5/17/1997	--	--	39,000	--	--	--	--	--	DUP
8/11/1997	--	--	26,000	--	--	--	--	--	
8/11/1997	--	--	27,000	--	--	--	--	--	DUP
11/17/1997	--	--	35,000	--	--	--	--	--	DUP
11/17/1997	--	--	32,000	--	--	--	--	--	DUP
1/29/1998	--	--	110,000	--	--	--	--	--	DUP
1/29/1998	--	--	110,000	--	--	--	--	--	DUP
6/22/1998	--	--	110,000	--	--	--	--	--	DUP
6/22/1998	--	--	110,000	--	--	--	--	--	DUP
12/30/1998	--	--	86,000	--	--	--	--	--	
3/9/1999	--	--	100,000	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-9 Cont.									
6/23/1999	--	--	92,000	--	--	--	--	--	
9/23/1999	--	--	89,000	--	--	--	--	--	
12/28/1999	--	--	100,000	--	--	--	--	--	
3/22/2000	--	--	120,000	--	--	--	--	--	
5/26/2000	--	--	100,000	--	--	--	--	--	
9/6/2000	--	--	84,000	--	--	--	--	--	
12/11/2000	--	--	123,000	--	--	--	--	--	
3/29/2001	--	--	--	--	--	--	--	--	INA
6/26/2001	--	--	--	--	--	--	--	--	GW Elev. Estimated
12/28/2001	--	--	60,900	--	--	--	--	--	
3/12/2002	--	--	44,000	--	--	--	--	--	
6/13/2002	--	--	35,600	--	--	--	--	--	
9/6/2002	--	--	31,000	--	--	--	--	--	
12/13/2002	--	--	28,000	--	--	--	--	--	EPA 8015B/8021B used
2/19/2003	--	--	11,000	--	--	--	--	--	
6/6/2003	<100,000	<20,000	17,000	<500	<500	<500	--	--	
8/7/2003	<50,000	<10,000	17,000	<250	<250	350	<250	<250	
11/20/2003	<50,000	12,000	16,000	<250	<250	<250	--	--	
4/28/2004	<25,000	<5,000	8,500	<120	<120	170	<120	<120	
8/26/2004	13	2,600	6,500	<50	<50	140	<50	<50	e (ethanol)
8/26/2004	--	2,600	6,500	<50	<50	140	<50	<50	d (TBA)
12/1/2004	<50,000	<10,000	8,300	<250	<250	<250	<250	<250	
2/2/2005	<10,000	5,600	3,600	<50	<50	88	<50	<50	b (ethanol)
4/25/2005	<1,000	1,400	540	<5.0	<5.0	14	<5.0	<5.0	b (ethanol)
9/30/2005	<2,000	520	2,400	<20	<20	61	<20	<20	
12/28/2005	<2,000	1,800	2,200	<20	<10	49	<10	--	
3/23/2006	<2,000	2,400	330	<20	<10	<10	<10	<10	
6/5/2006	<2,500	1,100	1,800	<25	<13	75	<13	<13	Well purged dry
9/19/2006	<6,300	3,900	3,100	<25	<13	100	<13	<13	Well purged dry
12/1/2006	<6,300	2,400	1,400	<25	<13	46	<13	<13	Well purged dry
3/1/2007	<6,300	580	240	<25	<13	<13	<13	<13	
6/1/2007	<6,300	2,300	1,800	<25	<13	50	<13	<13	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-9 Cont.									
9/13/2007	<6,300	7,300	640	<25	<13	28	<13	<13	
11/21/2007	<6,300	3,500	2,000	<25	<13	42	<13	<13	
2/29/2008	<6,300	2,400	1,100	<25	<13	35	<13	<13	
5/23/2008	<6,200	6,800	1,200	<25	<12	33	<12	<12	
9/26/2008	<250	12,000	280	<1.0	<1.0	6.2	<1.0	<1.0	
12/23/2008	<250	1,000	870	<1.0	<1.0	23	<1.0	<1.0	
3/9/2009	<250	610	180	<1.0	<1.0	4.0	<1.0	<1.0	
5/28/2009	<250	840	720	<1.0	<1.0	21	<1.0	<1.0	
12/10/2009	<500	4,200	780	<2.5	<2.5	15	<2.5	<2.5	
6/29/2010	<2,000	4,200	1,200	<10	<10	30	<10	<10	
12/30/2010	<250	22	13	<0.50	<0.50	<0.50	<0.50	<0.50	
6/29/2011	**--**	**960**	**900**	**--**	**--**	**29**	**--**	**--**	
MW-10									
4/25/2005	<100	<20	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	b (ethanol)
9/30/2005	<50	<5.0	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	
12/28/2005	<100	<5.0	0.78	<1.0	<0.50	<0.50	<0.50	--	
3/23/2006	<100	<5.0	0.67	<1.0	<0.50	<0.50	<0.50	<0.50	
6/5/2006	<100	<5.0	1.8	<1.0	<0.50	<0.50	<0.50	<0.50	
9/19/2006	<250	<5.0	0.59	<1.0	<0.50	<0.50	<0.50	<0.50	
12/1/2006	<250	<5.0	0.89	<1.0	<0.50	<0.50	<0.50	<0.50	Well purged dry
3/1/2007	<250	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	
6/1/2007	<250	<5.0	1.2	<1.0	<0.50	<0.50	<0.50	<0.50	
9/13/2007	<250	<5.0	0.94	<1.0	<0.50	<0.50	<0.50	<0.50	
11/21/2007	<250	<5.0	2.2	<1.0	<0.50	<0.50	<0.50	<0.50	
2/29/2008	<250	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	
5/23/2008	<250	<5.0	2.2	<1.0	<0.50	<0.50	<0.50	<0.50	
9/26/2008	<250	<5.0	3.0	<1.0	<1.0	<1.0	<1.0	<1.0	
12/23/2008	<250	<5.0	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	
3/9/2009	<250	6.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
5/28/2009	<250	<5.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	
12/10/2009	<100	<4.0	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-10 Cont.									
6/29/2010	<100	<4.0	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	
12/30/2010	<250	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/29/2011	--	--	**<0.50**	--	--	--	--	--	
MW-11									
4/25/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/30/2005	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
12/28/2005	<100	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	--	
3/23/2006	<100	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	
6/5/2006	<100	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	
9/19/2006	<250	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	
12/1/2006	<250	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	
3/1/2007	<250	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	
6/1/2007	<250	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	
9/13/2007	<250	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	
11/21/2007	<250	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	
2/29/2008	<250	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	
5/23/2008	<250	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	
9/26/2008	<250	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
12/23/2008	<250	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
3/9/2009	<250	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
5/28/2009	<250	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
12/10/2009	<100	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Obstruction
6/29/2010	<100	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
12/30/2010	<250	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/29/2011	--	--	**<0.50**	--	--	--	--	--	
QC-2									
11/2/1995	--	--	<5.0	--	--	--	--	--	
2/5/1996	--	--	<10	--	--	--	--	--	
4/24/1996	--	--	<10	--	--	--	--	--	
7/16/1996	--	--	<10	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
QCTB									
9/30/2005	--	--	<0.50	--	--	--	--	--	
12/28/2005	--	--	<0.50	--	--	--	--	--	
3/23/2006	--	--	<0.50	--	--	--	--	--	
6/5/2006	--	--	<0.50	--	--	--	--	--	
9/19/2006	--	--	<0.50	--	--	--	--	--	
12/1/2006	--	--	<0.50	--	--	--	--	--	
3/1/2007	--	--	<0.50	--	--	--	--	--	
6/1/2007	--	--	<0.50	--	--	--	--	--	
9/13/2007	--	--	<0.50	--	--	--	--	--	
11/21/2007	--	--	<0.50	--	--	--	--	--	
2/29/2008	--	--	<0.50	--	--	--	--	--	
5/23/2008	--	--	<0.50	--	--	--	--	--	
9/26/2008	--	--	<1.0	--	--	--	--	--	
12/23/2008	--	--	<1.0	--	--	--	--	--	
3/9/2009	--	--	<1.0	--	--	--	--	--	
5/28/2009	--	--	<1.0	--	--	--	--	--	

Symbols & Abbreviations:
MTBE = Methyl tert-butyl ether
TBA = Tert-butyl alcohol
DIPE = Di-isopropyl ether
ETBE = Ethyl tert-butyl ether
TAME = Tert-amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
mg/L = Milligrams per liter
µg/L = Micrograms per liter
< = Analyte was not detected above the specified method detection limit; except after 2008 Quarter 3 where reporting limits are used.
-- = Not measured or analyzed
N = Identity of contaminant uncertain (hydrocarbon pattern atypical of indicated analyte); see lab report
ND = Not detected (historical data; reporting limit not reported)
DUP = Duplicate sample
INA = Well inaccessible; not sampled
NS = Well not sampled

Footnotes:
a = Confirmatory analysis was past holding time
b = The continuing calibration verification was outside of client contractual acceptance limits. However, it was within method acceptance limits. The data should still be useful for its intended purpose
c = The concentration indicated for this analyte is an estimated value above the calibration range of the instrument
d = Initial analysis within holding time but required dilution
e = Split samples analyzed by EPA Method 8260B SIM

Notes:
Beginning in the first quarter 2003, VOCs analyzed by EPA Method 8260B

The data within this table collected prior to December 2009 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 Groundwater Gradient - Direction and Magnitude

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Date Measured	Approximate Gradient Direction	Approximate Gradient Magnitude (ft/ft)
3/29/2001	South	0.020
6/27/2001	South	0.020
9/19/2001	South	0.020
12/28/2001	South	0.035
3/12/2002	South-Southeast	0.018
6/13/2002	Northwest to Southeast	0.007
9/6/2002	South	0.010
12/13/2002	Southeast	0.020
2/19/2003	West-Southwest	0.025
6/6/2003	East-Southwest	-
8/7/2003	East-Southwest	-
11/20/2003	Northwest to Southeast	-
2/5/2004	Northwest to Southeast	0.020
4/28/2004	West-Southwest	-
8/26/2004	South-Southwest	0.036
12/1/2004	Northwest to Southeast	0.020
2/2/2005	South	0.020
4/25/2005	Southwest	0.020
9/30/2005	Southwest	0.081
12/28/2005	Southwest	0.081
3/23/2006	Southwest	0.040
6/5/2006	Southwest	0.020
9/19/2006	Southwest	0.013
12/1/2006	Southwest	0.030
3/1/2007	Southwest	0.010
6/1/2007	Southwest	0.025
9/13/2007	Southwest	0.025
11/21/2007	Southwest	0.025
2/29/2008	Southwest	0.060
5/23/2008	Southwest	0.067
9/26/2008	South	0.020
12/23/2008	Southwest	0.020
3/9/2009	Southwest	0.025
5/28/2009	Southwest	0.017
12/10/2009	Southwest	0.020
6/29/2010	Southwest	0.010
12/30/2010	Southwest	0.008
6/29/2011	**South-Southwest**	**0.01**

Table 3. Historical Groundwater Gradient - Direction and Magnitude

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Date Measured	Approximate Gradient Direction	Approximate Gradient Magnitude (ft/ft)

Notes:
The groundwater was flowing in two directions (Northwest and Southeast) during the second quarter of 2002, the fourth quarter of 2003, and the first and fourth quarters of 2004

The data within this table collected prior to December 2009 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

Former BP Station #11126, 1700 Powell Street, Emeryville, CA

Well and Sample Date	Concentrations in (mg/L)									ORP (mV)	pH	Temp (F)	Conductivity (µS/cm)	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved CO2	Methane	Total Alkalinity	Magnesium					
MW-1														
6/29/2011	0.40	<1.0	1.4	3.7	4.5	29	0.76	340	22	--	7.6	68.72	668	
MW-2														
6/29/2011	0.41	<1.0	4.5	25	<1.0	180	6.3	660	49	--	7.1	68.9	1,104	
MW-3														
6/29/2011	0.45	<1.0	0.63	0.79	24	62	0.26	400	20	--	7.4	66.02	852	
MW-4														
6/29/2011	0.45	<1.0	0.67	5.8	<1.0	73	7.3	1,200	52	--	7.6	63.86	2,310	
MW-5														
6/29/2011	0.46	<1.0	2.1	16	<1.0	73	6.2	370	30	--	7.3	67.64	764	
MW-6														
6/29/2011	0.03	<1.0	0.63	14	12	81	5.8	590	48	--	7.4	69.26	6,060	
MW-7														
6/29/2011	0.47	<1.0	0.64	3.0	<1.0	74	7.4	790	41	--	7.5	70.52	7,650	
MW-8														
6/29/2011	0.62	<1.0	3.2	17	<1.0	110	5.9	780	64	--	7.2	69.8	1,627	
MW-9														
6/29/2011	0.48	<1.0	0.95	8.6	<1.0	75	8.2	350	18	--	7.2	68	644	
MW-10														
6/29/2011	0.49	<1.0	0.99	5.5	17	43	2.1	470	30	--	7.4	65.3	1,018	
MW-11														
6/29/2011	0.75	<1.0	0.045	<0.10	73	48	0.0037	470	27	--	7.4	64.22	1,143	

Symbols & Abbreviations:
< = Not detected at or above specified laboratory reporting limit
ORP = Oxygen reduction potential
DO = Dissolved oxygen
CO2 = Carbon dioxide
S2- = Soluble Sulfide
mV = Millivolts
µg/L = Micrograms per liter
mg/L = Milligrams per liter
BV = Sample received after holding time expired

APPENDIX A

BAI GROUNDWATER SAMPLING DATA
(Includes Field Data Sheets, Non-Hazardous Waste Data Form, Laboratory Analytical Report, Chain-Of-Custody Documentation, and Field Procedures)

FIELD DATA REPORT

[illegible]ENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

DATE: 10/29/11
PERSONNEL: SB
WEATHER: Cloudy

PROJECT NO.: 09-88-662
COMMENTS: BP/ARCADIS 1112e

Equip:	Geosquirt	Tubing	Bailers	DO	wli	Ec/pH

Well ID	Time	MEASURING POINT	DTW (FT)	PRODUCT THICKNESS	pH	Cond. (X100)	Temp. (C/F)	DO (mg/l)	Redox (mV)	Iron (mg/l)	Alk. (mg/l)	WELL HEAD CONDITION: VAULT, BOLTS, CAP, LOCK, ETC
MW-1	1412	TOC	3.58									
MW-2	1454		4.51									
MW-3	1214		5.00									
MW-4	1313		~~5.43~~	6.43								
MW-5	0934		5.58									
MW-6	1112		5.53									
MW-7	1011		5.18									
MW-8	0824		4.57									
MW-9	1535		3.72									
MW-10	0839		7.16									
MW-11	0731		9.40									

G:\ADMINISTRATION\BAI FORMS\WATER LVL MEAS FORM

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Micropurging Groundwater Sampling Data Sheet

Well I.D.: MW-1
Project Name/Location: Arcadis 111260 Project #: 09-88-662
Sampler's Name: SB Date: 6/29/11
Purging Equipment: Geotech
Sampling Equipment: Geotech
Casing Type: PVC

Casing Diameter:		2	inch
Total Well Depth:		12.00	feet
Depth to Water:	-	3.58	feet
Water Column Thickness:	=	8.42	feet
Unit Casing Volume*:	x	0.61	Liter / foot
Casing Water Volume:	=	5.13	Liters
Top of Screen			feet
Intake Depth**:		8.0	feet

***UNIT CASING VOLUMES**
2" = 0.61 L/lin ft.
3" = 1.39 L/lin ft.
4" = 2.47 L/lin ft.
6" = 5.56 L/lin ft.

**One foot below water level or top of screen, whichever is lower

Free product measurement (if present):

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance (µS)	Temperature (~~Fahrenheit~~)	pH	Water Level (feet)
0	1419	X	0.69	X	758	20.4	7.7	3.58
0.5	1421	025	0.50	X	719	20.3	7.6	4.00
1.0	1425	0.125	0.40	X	668	20.4	7.6	4.05

Total Water Volume Purged: 1.0 Liters
Depth to Water at Sample Collection: 3.62 feet
Sample Collection Time: 1440 Purged Dry? (Y / (N))

Comments:

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Micropurging Groundwater Sampling Data Sheet

Well I.D.: MW-2
Project Name/Location: Arcadis 111126 Project #: 09-88-662
Sampler's Name: SA Date: 6/29/11
Purging Equipment: Geotech
Sampling Equipment: Geotech
Casing Type: PVC

Casing Diameter: 2 inch
Total Well Depth: 12.00 feet
Depth to Water: - 4.51 feet
Water Column Thickness: = 7.49 feet
Unit Casing Volume*: x 0.61 Liter / foot
Casing Water Volume: = 4.57 Liters
Top of Screen feet
Intake Depth**: 8.0 feet

***UNIT CASING VOLUMES**
2" = 0.61 L/lin ft.
3" = 1.39 L/lin ft.
4" = 2.47 L/lin ft.
6" = 5.56 L/lin ft.

**One foot below water level or top of screen, whichever is lower

Free product measurement (if present):

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance (µS)	Temperature (~~Fahrenheit~~ C)	pH	Water Level (feet)
0	1501	X	0.54	X	1101	20.6	7.1	4.51
0.5	1504	0.17	0.52	X	1103	20.4	7.1	4.60
1.0	1507	0.17	0.41	X	1104	20.5	7.1	4.60

Total Water Volume Purged: 1.0 Liters
Depth to Water at Sample Collection: 4.55 feet
Sample Collection Time: 1525
Purged Dry? (Y / (N))

Comments:

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Micropurging Groundwater Sampling Data Sheet

Well I.D.: MW-3
Project Name/Location: Arcadis 11126 Project #: 09-88-662
Sampler's Name: SB Date: 6/29/11
Purging Equipment: Geotech
Sampling Equipment: Geotech
Casing Type: PVC

Casing Diameter:		2	inch
Total Well Depth:		12.00	feet
Depth to Water:	-	5.00	feet
Water Column Thickness:	=	7.00	feet
Unit Casing Volume*:	x	0.61	Liter / foot
Casing Water Volume:	=	4.27	Liters
Top of Screen			feet
Intake Depth**:		8.0	feet

***UNIT CASING VOLUMES**
2" = 0.61 L/lin ft.
3" = 1.39 L/lin ft.
4" = 2.47 L/lin ft.
6" = 5.56 L/lin ft.

**One foot below water level or top of screen, whichever is lower

Free product measurement (if present):

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance (µS)	Temperature (~~Fahrenheit~~ C)	pH	Water Level (feet)
0	1220	X	0.90	X	952	18.3	7.5	5.00
0.5	1223	0.17	0.72	X	926	18.5	7.5	5.04
1.0	1226	0.17	0.55	X	883	18.7	7.4	5.04
1.5	1229	0.17	0.45	X	852	18.9	7.4	5.04

Total Water Volume Purged: 1.5 Liters
Depth to Water at Sample Collection: 5.00 feet
Sample Collection Time: 1255 Purged Dry? (Y / (N))

Comments:

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Micropurging Groundwater Sampling Data Sheet

Well I.D.: MW-4

Project Name/Location: Arcadis 11126 Project #: 09-88-662

Sampler's Name: SB Date: 6/29/11

Purging Equipment: Geotech

Sampling Equipment: Geotech

Casing Type: PVC

Casing Diameter:		2	inch
Total Well Depth:		12.00	feet
Depth to Water:	-	6.43	feet
Water Column Thickness:	=	5.57	feet
Unit Casing Volume*:	x	0.61	Liter / foot
Casing Water Volume:	=	3.39	Liters
Top of Screen			feet
Intake Depth**:		8.0	feet

***UNIT CASING VOLUMES**

2" = 0.61 L/lin ft.
3" = 1.39 L/lin ft.
4" = 2.47 L/lin ft.
6" = 5.56 L/lin ft.

**One foot below water level or top of screen, whichever is lower

Free product measurement (if present):

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance ~~(mS)~~ MS	Temperature ~~(Fahrenheit)~~ C	pH	Water Level (feet)
0	1319	X	0.78	X	2.28	17.1	7.6	6[illegible].43
0.5	1323	0.125	0.70	X	2.28	17.3	7.6	6[illegible].58
1.0	1327	0.125	0.59	X	2.33	17.6	7.6	6[illegible].58
1.5	1331	0.125	0.45	X	2.31	17.7	7.6	6[illegible].58

Total Water Volume Purged: 1.5 Liters

Depth to Water at Sample Collection: 6.90 feet

Sample Collection Time: 1350 Purged Dry? (Y / N)

Comments:

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Micropurging Groundwater Sampling Data Sheet

Well I.D.: MW-5
Project Name/Location: Arcadis 111126 Project #: 09-88-662
Sampler's Name: SB Date: 6/29/11
Purging Equipment: Geotech
Sampling Equipment: Geotech
Casing Type: PVC

Casing Diameter:		2	inch
Total Well Depth:		13.50	feet
Depth to Water:	-	5.38	feet
Water Column Thickness:	=	8.12	feet
Unit Casing Volume*:	x	0.61	Liter / foot
Casing Water Volume:	=	4.95	Liters
Top of Screen			feet
Intake Depth**:		11.0	feet

***UNIT CASING VOLUMES**
2" = 0.61 L/lin ft.
3" = 1.39 L/lin ft.
4" = 2.47 L/lin ft.
6" = 5.56 L/lin ft.

**One foot below water level or top of screen, whichever is lower

Free product measurement (if present):

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance (µS)	Temperature (~~Fahrenheit~~ C)	pH	Water Level (feet)
0	0937	X	0.70	X	815	19.3	7.2	5.38
0.5	0941	0.125	0.54	X	784	19.7	7.2	5.55
1.0	0945	0.125	0.46	X	764	19.8	7.3	5.63

Total Water Volume Purged: 1.0 Liters
Depth to Water at Sample Collection: 5.63 feet
Sample Collection Time: 1000 Purged Dry? (Y / (N))

Comments:

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Micropurging Groundwater Sampling Data Sheet

Well I.D.: MW-6
Project Name/Location: Arcadis 11126 Project #: 09-88-662
Sampler's Name: SB Date: 10/29/11
Purging Equipment: Geotech
Sampling Equipment: Geotech
Casing Type: PVC

Casing Diameter:		2	inch
Total Well Depth:		12.22	feet
Depth to Water:	-	5.53	feet
Water Column Thickness:	=	6.69	feet
Unit Casing Volume*:	x	0.61	Liter / foot
Casing Water Volume:	=	4.08	Liters
Top of Screen			feet
Intake Depth**:		11.0	feet

***UNIT CASING VOLUMES**
2" = 0.61 L/lin ft.
3" = 1.39 L/lin ft.
4" = 2.47 L/lin ft.
6" = 5.56 L/lin ft.

**One foot below water level or top of screen, whichever is lower

Free product measurement (if present):

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance ~~(µS)~~ MS	Temperature ~~(Fahrenheit)~~ (C)	pH	Water Level (feet)
0	1119	X	0.77	X	6.46	20.2	7.4	5.53
0.5	1122	0.17	0.63	X	6.64	20.4	7.4	5.56
1.0	1125	0.17	0.03	X	6.21	20.5	7.4	5.64
1.5	1128	0.17	0.03	X	6.06	20.7	7.4	5.68

Total Water Volume Purged: 1.5 Liters
Depth to Water at Sample Collection: 5.62 feet
Sample Collection Time: 1200 Purged Dry? (Y / (N))

Comments: New Cap

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Micropurging Groundwater Sampling Data Sheet

Well I.D.: MW-7
Project Name/Location: Arcadis 11126 Project #: 09-88-662
Sampler's Name: SB Date: 6/29/11
Purging Equipment: Geotech
Sampling Equipment: Geotech
Casing Type: PVC

Casing Diameter:		2	inch
Total Well Depth:		14.00	feet
Depth to Water:	-	5.18	feet
Water Column Thickness:	=	8.82	feet
Unit Casing Volume*:	x	0.61	Liter / foot
Casing Water Volume:	=	5.38	Liters
Top of Screen			feet
Intake Depth**:		11.0	feet

***UNIT CASING VOLUMES**
2" = 0.61 L/lin ft.
3" = 1.39 L/lin ft.
4" = 2.47 L/lin ft.
6" = 5.56 L/lin ft.

**One foot below water level or top of screen, whichever is lower

Free product measurement (if present):

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance ~~(µS)~~ mS	Temperature ~~(Fahrenheit)~~ C	pH	Water Level (feet)
0	1018	X	0.75	X	7.71	20.3	7.5	5.18
0.5	1021	0.17	0.67	X	7.70	20.8	7.5	5.29
1.0	1024	0.17	0.51	X	7.74	21.2	7.5	5.31
1.5	1027	0.17	0.47	X	7.65	21.4	7.5	5.34

Total Water Volume Purged: 1.5 Liters
Depth to Water at Sample Collection: 5.21 feet
Sample Collection Time: 1045 Purged Dry? (Y / (N))

Comments:

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Micropurging Groundwater Sampling Data Sheet

Well I.D.: MW-8
Project Name/Location: Arcadis 111276 Project #: 09-88-662
Sampler's Name: SB Date: 6/29/11
Purging Equipment: Geotech
Sampling Equipment: Geotech
Casing Type: PVC

Casing Diameter:		2	inch
Total Well Depth:		14.00	feet
Depth to Water:	-	4.57	feet
Water Column Thickness:	=	9.43	feet
Unit Casing Volume*:	x	0.61	Liter / foot
Casing Water Volume:	=	5.75	Liters
Top of Screen			feet
Intake Depth**:		12.0	feet

***UNIT CASING VOLUMES**
2" = 0.61 L/lin ft.
3" = 1.39 L/lin ft.
4" = 2.47 L/lin ft.
6" = 5.56 L/lin ft.

**One foot below water level or top of screen, whichever is lower

Free product measurement (if present): _____

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance ~~(µS)~~ mS	Temperature ~~(Fahrenheit)~~ C	pH	Water Level (feet)
0	0824	X	1.09	X	2.18 mS	19.7	7.4	5.00
0.5	0832	0.06	1.13	X	2.31 mS	19.9	7.4	5.00
1.0	0840	0.06	0.87	X	1783 µS	20.7	7.3	5.14
1.5	0848	0.06	0.62	X	1627 µS	21.0	7.2	5.33

Total Water Volume Purged: 1.5 Liters
Depth to Water at Sample Collection: 5.33 feet
Sample Collection Time: 0905 Purged Dry? (Y / (N))

Comments:

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Micropurging Groundwater Sampling Data Sheet

Well I.D.: MW-9
Project Name/Location: Arcadis 11126 Project #: 09-88-662
Sampler's Name: SB Date: 6/29/11
Purging Equipment: Geotech
Sampling Equipment: Geotech
Casing Type: PVC

Casing Diameter:		4	inch
Total Well Depth:		14.00	feet
Depth to Water:	-	3.72	feet
Water Column Thickness:	=	10.28	feet
Unit Casing Volume*:	x	2.47	Liter / foot
Casing Water Volume:	=	25.4	Liters
Top of Screen			feet
Intake Depth**:		8.0	feet

***UNIT CASING VOLUMES**
2" = 0.61 L/lin ft.
3" = 1.39 L/lin ft.
4" = 2.47 L/lin ft.
6" = 5.56 L/lin ft.

**One foot below water level or top of screen, whichever is lower

Free product measurement (if present):

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance (µS)	Temperature (~~Fahrenheit~~ C)	pH	Water Level (feet)
0	1549	X	0.69	X	645	20.3	7.3	3.72
0.5	1544	0.17	0.58	X	643	20.1	7.2	3.90
1.0	1547	0.17	0.48	X	644	20.0	7.2	4.02

Total Water Volume Purged: 1.0 Liters
Depth to Water at Sample Collection: 4.00 feet
Sample Collection Time: 1600 Purged Dry? (Y / (N))

Comments:

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Micropurging Groundwater Sampling Data Sheet

Well I.D.: MW-10
Project Name/Location: Arcadis 11126 Project #: 09-88-662
Sampler's Name: SR Date: 6/29/11
Purging Equipment: Geotech
Sampling Equipment: Geotech
Casing Type: PVC

Casing Diameter:		2	inch
Total Well Depth:		20.00	feet
Depth to Water:	-	7.16	feet
Water Column Thickness:	=	12.84	feet
Unit Casing Volume*:	x	0.61	Liter / foot
Casing Water Volume:	=	7.83	Liters
Top of Screen			feet
Intake Depth**:		13.0	feet

***UNIT CASING VOLUMES**
2" = 0.61 L/lin ft.
3" = 1.39 L/lin ft.
4" = 2.47 L/lin ft.
6" = 5.56 L/lin ft.

**One foot below water level or top of screen, whichever is lower

Free product measurement (if present):

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance (µS)	Temperature (Fahrenheit) pH °C	pH	Water Level (feet)
0	0645	X	1.33	X	1052	7.3	17.2	7.38
0.5	0650	0.1	0.95	X	1043	7.3	17.8	7.38
1.0	0655	0.1	0.64	X	1024	7.4	18.2	7.38
1.5	0700	0.1	0.49	X	1018	7.4	18.5	7.38

Total Water Volume Purged: 1.5 Liters
Depth to Water at Sample Collection: 7.38 feet
Sample Collection Time: 0715 Purged Dry? (Y / (N))

Comments:

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Micropurging Groundwater Sampling Data Sheet

Well I.D.: MW-11
Project Name/Location: Arcadis 11126 Project #: 09-88-662
Sampler's Name: SB Date: 6/29/11
Purging Equipment: Geotech
Sampling Equipment: Geotech
Casing Type: PVC

Casing Diameter: 2 inch
Total Well Depth: 24.00 feet
Depth to Water: - 9.40 feet
Water Column Thickness: = 14.6 feet
Unit Casing Volume*: x 0.61 Liter / foot
Casing Water Volume: = 8.91 Liters
Top of Screen feet
Intake Depth**: 16.0 feet

***UNIT CASING VOLUMES**
2" = 0.61 L/lin ft.
3" = 1.39 L/lin ft.
4" = 2.47 L/lin ft.
6" = 5.56 L/lin ft.

**One foot below water level or top of screen, whichever is lower

Free product measurement (if present):

Purged (L)	Time (24:00)	Flow (L/min)	DO (mg/L)	ORP (mV)	Conductance (µS)	Temperature (~~Fahrenheit~~ C)	pH	Water Level (feet)
0	0736	X	1.25	X	1139	17.0	7.4	9.40
0.5	0739	0.17	1.16	X	1139	17.4	7.4	9.40
1.0	0742	0.17	0.90	X	1139	17.8	7.4	9.40
1.5	0745	0.17	0.75	X	1143	17.9	7.4	9.40

Total Water Volume Purged: 1.5 Liters
Depth to Water at Sample Collection: 9.40 feet
Sample Collection Time: 0800

Purged Dry? (Y / (N))

Comments:

NO. 684602

NON-HAZARDOUS WASTE DATA FORM

BES! #

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 11126
1700 POWELL STREET
EMERYVILLE, CA 94608

Generator's Phone: 949-460-5200

Container type removed from site:

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

☐ Other _____

Quantity 4 C

Container type transported to receiving facility:

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

☐ Other _____

Quantity _____ Volume _____

WASTE DESCRIPTION NON-HAZARDOUS WATER

GENERATING PROCESS WELL PURGING / DECON WATER

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

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

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT

Generator Printed/Typed Name: Emily Lemmer
On behalf of BP West Coast Products, LLC

Signature

Month Day Year

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

TRANSPORTER

Transporter 1 Company Name: BAF

Phone# 707-455-7290

Transporter 1 Printed/Typed Name: Sam Bartley

Signature

Month Day Year: 7 18 11

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.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

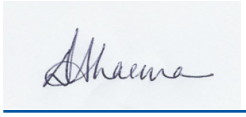
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-35987-1
Client Project/Site: BP #11126, Emeryville

For:
ARCADIS U.S., Inc.
155 Montgomery Street
Suite 1500
San Francisco, California 94104

Attn: Hollis Phillips



Authorized for release by:
07/13/2011 05:46:23 PM

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Table of Contents

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: ARCADIS U.S., Inc.
Project/Site: BP #11126, Emeryville

TestAmerica Job ID: 720-35987-1

Job ID: 720-35987-1

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-35987-1

Comments
No additional comments.

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

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

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Client Sample ID: MW-1 (6/29/11) — Lab Sample ID: 720-35987-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	3.9		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	60		50		ug/L	1		8260B/CA_LUFTM	Total/NA
TBA	840		4.0		ug/L	1		8260B/CA_LUFTM	Total/NA
Carbon dioxide	29		0.17	0.070	mg/L	1.0		RSK SOP-175	Total
Methane	0.76		0.00099	0.00050	mg/L	1.0		RSK SOP-175	Total
Manganese	1.4		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	22		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Sulfate	4.5		1.0		mg/L	1		300.0	Total/NA
Alkalinity	340		5.0		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	340		5.0		mg/L	1		SM 2320B	Total/NA
Ferrous Iron	3.7		0.10		mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-2 (6/29/11) — Lab Sample ID: 720-35987-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	2100		25		ug/L	50		8260B/CA_LUFTM	Total/NA
Benzene	3200		25		ug/L	50		8260B/CA_LUFTM	Total/NA
Ethylbenzene	920		25		ug/L	50		8260B/CA_LUFTM	Total/NA
Toluene	41		25		ug/L	50		8260B/CA_LUFTM	Total/NA
Xylenes, Total	150		50		ug/L	50		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	12000		2500		ug/L	50		8260B/CA_LUFTM	Total/NA
TBA	2400		200		ug/L	50		8260B/CA_LUFTM	Total/NA
TAME	77		25		ug/L	50		8260B/CA_LUFTM	Total/NA
Carbon dioxide	180		0.17	0.070	mg/L	1.0		RSK SOP-175	Total
Methane	6.3		0.00099	0.00050	mg/L	1.0		RSK SOP-175	Total
Manganese	4.5		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	49		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Alkalinity	660		5.0		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	660		5.0		mg/L	1		SM 2320B	Total/NA
Ferrous Iron	25		1.0		mg/L	10		SM 3500 FE D	Total/NA

Client Sample ID: MW-3 (6/29/11) — Lab Sample ID: 720-35987-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.73		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
TBA	73		4.0		ug/L	1		8260B/CA_LUFTM	Total/NA
Carbon dioxide	62		0.17	0.070	mg/L	1.0		RSK SOP-175	Total
Methane	0.26		0.00099	0.00050	mg/L	1.0		RSK SOP-175	Total
Diesel Range Organics [C10-C28]	250		50		ug/L	1		8015B	Total/NA
Manganese	0.63		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	20		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Sulfate	24		10		mg/L	10		300.0	Total/NA
Alkalinity	400		5.0		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	400		5.0		mg/L	1		SM 2320B	Total/NA
Ferrous Iron	0.79		0.10		mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-4 (6/29/11) — Lab Sample ID: 720-35987-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	11		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
TBA	30000		40		ug/L	10		8260B/CA_LUFTM	Total/NA
Carbon dioxide	73		0.17	0.070	mg/L	1.0		RSK SOP-175	Total

Client Sample ID: MW-4 (6/29/11) (Continued)

Lab Sample ID: 720-35987-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	7.3		0.00099	0.00050	mg/L	1.0		RSK SOP-175	Total
Diesel Range Organics [C10-C28]	610		50		ug/L	1		8015B	Total/NA
Manganese	0.67		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	52		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Alkalinity	1200		5.0		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	1200		5.0		mg/L	1		SM 2320B	Total/NA
Ferrous Iron	5.8		1.0		mg/L	10		SM 3500 FE D	Total/NA

Client Sample ID: MW-5 (6/29/11)

Lab Sample ID: 720-35987-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	1.9		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Benzene	1.7		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Toluene	0.60		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Xylenes, Total	2.4		1.0		ug/L	1		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	3300		50		ug/L	1		8260B/CA_LUFTM	Total/NA
Carbon dioxide	73		0.17	0.070	mg/L	1.0		RSK SOP-175	Total
Methane	6.2		0.00099	0.00050	mg/L	1.0		RSK SOP-175	Total
Manganese	2.1		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	30		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Alkalinity	370		5.0		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	370		5.0		mg/L	1		SM 2320B	Total/NA
Ferrous Iron	16		1.0		mg/L	10		SM 3500 FE D	Total/NA

Client Sample ID: MW-6 (6/29/11)

Lab Sample ID: 720-35987-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	3.6		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
TBA	37		4.0		ug/L	1		8260B/CA_LUFTM	Total/NA
Carbon dioxide	81		0.17	0.070	mg/L	1.0		RSK SOP-175	Total
Methane	5.8		0.00099	0.00050	mg/L	1.0		RSK SOP-175	Total
Diesel Range Organics [C10-C28]	2100		50		ug/L	1		8015B	Total/NA
Manganese	0.63		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	48		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Sulfate	12		1.0		mg/L	1		300.0	Total/NA
Alkalinity	590		5.0		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	590		5.0		mg/L	1		SM 2320B	Total/NA
Ferrous Iron	14		1.0		mg/L	10		SM 3500 FE D	Total/NA

Client Sample ID: MW-7 (6/29/11)

Lab Sample ID: 720-35987-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
TBA	2200		40		ug/L	10		8260B/CA_LUFTM	Total/NA
Carbon dioxide	74		0.17	0.070	mg/L	1.0		RSK SOP-175	Total
Methane	7.4		0.00099	0.00050	mg/L	1.0		RSK SOP-175	Total
Manganese	0.64		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	41		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Alkalinity	790		5.0		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	790		5.0		mg/L	1		SM 2320B	Total/NA
Ferrous Iron	3.0		0.10		mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-8 (6/29/11)

Lab Sample ID: 720-35987-8

Client Sample ID: MW-8 (6/29/11) (Continued)

Lab Sample ID: 720-35987-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.7		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	140		50		ug/L	1		8260B/CA_LUFTM	Total/NA
TBA	2000		4.0		ug/L	1		8260B/CA_LUFTM	Total/NA
Carbon dioxide	110		0.17	0.070	mg/L	1.0		RSK SOP-175	Total
Methane	5.9		0.00099	0.00050	mg/L	1.0		RSK SOP-175	Total
Diesel Range Organics [C10-C28]	1000		51		ug/L	1		8015B	Total/NA
Manganese	3.2		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	64		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Alkalinity	780		5.0		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	780		5.0		mg/L	1		SM 2320B	Total/NA
Ferrous Iron	17		1.0		mg/L	10		SM 3500 FE D	Total/NA

Client Sample ID: MW-9 (6/29/11)

Lab Sample ID: 720-35987-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	900		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Benzene	600		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Ethylbenzene	370		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Toluene	13		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Xylenes, Total	120		1.0		ug/L	1		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	4700		500		ug/L	10		8260B/CA_LUFTM	Total/NA
TBA	960		4.0		ug/L	1		8260B/CA_LUFTM	Total/NA
TAME	29		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Carbon dioxide	75		0.17	0.070	mg/L	1.0		RSK SOP-175	Total
Methane	8.2		0.00099	0.00050	mg/L	1.0		RSK SOP-175	Total
Manganese	0.95		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	18		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Alkalinity	350		5.0		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	350		5.0		mg/L	1		SM 2320B	Total/NA
Ferrous Iron	8.6		1.0		mg/L	10		SM 3500 FE D	Total/NA

Client Sample ID: MW-10 (6/29/11)

Lab Sample ID: 720-35987-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	43		0.17	0.070	mg/L	1.0		RSK SOP-175	Total
Methane	2.1		0.00099	0.00050	mg/L	1.0		RSK SOP-175	Total
Manganese	0.99		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	30		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Sulfate	17		1.0		mg/L	1		300.0	Total/NA
Alkalinity	470		5.0		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	470		5.0		mg/L	1		SM 2320B	Total/NA
Ferrous Iron	5.5		1.0		mg/L	10		SM 3500 FE D	Total/NA

Client Sample ID: MW-11 (6/29/11)

Lab Sample ID: 720-35987-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	48		0.17	0.070	mg/L	1.0		RSK SOP-175	Total
Methane	0.0037		0.00099	0.00050	mg/L	1.0		RSK SOP-175	Total
Manganese	0.045		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	27		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Sulfate	73		10		mg/L	10		300.0	Total/NA
Alkalinity	470		5.0		mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-11 (6/29/11) (Continued) **Lab Sample ID: 720-35987-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO3	470		5.0		mg/L	1		SM 2320B	Total/NA

Client: ARCADIS U.S., Inc.
Project/Site: BP #11126, Emeryville

TestAmerica Job ID: 720-35987-1

Client Sample ID: MW-1 (6/29/11)
Date Collected: 06/29/11 14:40
Date Received: 06/29/11 17:14

Lab Sample ID: 720-35987-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	**3.9**		0.50		ug/L			07/02/11 05:58	1
Benzene	ND		0.50		ug/L			07/02/11 05:58	1
Ethylbenzene	ND		0.50		ug/L			07/02/11 05:58	1
Toluene	ND		0.50		ug/L			07/02/11 05:58	1
Xylenes, Total	ND		1.0		ug/L			07/02/11 05:58	1
Gasoline Range Organics (GRO) -C6-C12	**60**		50		ug/L			07/02/11 05:58	1
TBA	**840**		4.0		ug/L			07/02/11 05:58	1
TAME	ND		0.50		ug/L			07/02/11 05:58	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*07/02/11 05:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*67 - 130*		*07/02/11 05:58*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*07/02/11 05:58*	*1*

Method: RSK SOP-175 - Dissolved Gases in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**29**		0.17	0.070	mg/L		07/06/11 06:00	07/06/11 06:38	1.0
Methane	**0.76**		0.00099	0.00050	mg/L		07/06/11 06:00	07/06/11 08:56	1.0

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.4**		0.020		mg/L		06/30/11 08:33	06/30/11 20:45	1
Magnesium	**22**		0.20		mg/L		06/30/11 08:33	07/02/11 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**4.5**		1.0		mg/L			06/29/11 20:17	1
Nitrate as NO3	ND		1.0		mg/L			06/29/11 20:17	1
Alkalinity	**340**		5.0		mg/L			06/30/11 10:54	1
Bicarbonate Alkalinity as CaCO3	**340**		5.0		mg/L			06/30/11 10:54	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			06/30/11 10:54	1
Hydroxide Alkalinity	ND		5.0		mg/L			06/30/11 10:54	1
Ferrous Iron	**3.7**		0.10		mg/L			06/29/11 21:28	1

Client: ARCADIS U.S., Inc.
Project/Site: BP #11126, Emeryville

TestAmerica Job ID: 720-35987-1

Client Sample ID: MW-2 (6/29/11)
Date Collected: 06/29/11 15:25
Date Received: 06/29/11 17:14

Lab Sample ID: 720-35987-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	2100		25		ug/L			07/02/11 06:28	50
Benzene	3200		25		ug/L			07/02/11 06:28	50
EDB	ND		25		ug/L			07/02/11 06:28	50
1,2-DCA	ND		25		ug/L			07/02/11 06:28	50
Ethylbenzene	920		25		ug/L			07/02/11 06:28	50
Toluene	41		25		ug/L			07/02/11 06:28	50
Xylenes, Total	150		50		ug/L			07/02/11 06:28	50
Gasoline Range Organics (GRO) -C6-C12	12000		2500		ug/L			07/02/11 06:28	50
TBA	2400		200		ug/L			07/02/11 06:28	50
DIPE	ND		25		ug/L			07/02/11 06:28	50
TAME	77		25		ug/L			07/02/11 06:28	50
Ethyl t-butyl ether	ND		25		ug/L			07/02/11 06:28	50

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*07/02/11 06:28*	*50*
1,2-Dichloroethane-d4 (Surr)	*99*		*67 - 130*		*07/02/11 06:28*	*50*
Toluene-d8 (Surr)	*103*		*70 - 130*		*07/02/11 06:28*	*50*

Method: RSK SOP-175 - Dissolved Gases in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	180		0.17	0.070	mg/L		07/06/11 06:00	07/06/11 06:50	1.0
Methane	6.3		0.00099	0.00050	mg/L		07/06/11 06:00	07/06/11 09:09	1.0

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	4.5		0.020		mg/L		06/30/11 08:33	06/30/11 20:58	1
Magnesium	49		0.20		mg/L		06/30/11 08:33	07/02/11 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0		mg/L			06/29/11 20:51	1
Nitrate as NO3	ND		1.0		mg/L			06/29/11 20:51	1
Alkalinity	660		5.0		mg/L			06/30/11 11:03	1
Bicarbonate Alkalinity as CaCO3	660		5.0		mg/L			06/30/11 11:03	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			06/30/11 11:03	1
Hydroxide Alkalinity	ND		5.0		mg/L			06/30/11 11:03	1
Ferrous Iron	25		1.0		mg/L			06/29/11 21:28	10

Client: ARCADIS U.S., Inc.
Project/Site: BP #11126, Emeryville

TestAmerica Job ID: 720-35987-1

Client Sample ID: MW-3 (6/29/11)
Date Collected: 06/29/11 12:55
Date Received: 06/29/11 17:14

Lab Sample ID: 720-35987-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**0.73**		0.50		ug/L			07/02/11 06:59	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			07/02/11 06:59	1
TBA	**73**		4.0		ug/L			07/02/11 06:59	1
TAME	ND		0.50		ug/L			07/02/11 06:59	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*		*07/02/11 06:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*67 - 130*		*07/02/11 06:59*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*07/02/11 06:59*	*1*

Method: RSK SOP-175 - Dissolved Gases in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**62**		0.17	0.070	mg/L		07/06/11 06:00	07/06/11 07:02	1.0
Methane	**0.26**		0.00099	0.00050	mg/L		07/06/11 06:00	07/06/11 09:21	1.0

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**250**		50		ug/L		06/30/11 13:59	07/01/11 20:05	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*75*		*23 - 156*	*06/30/11 13:59*	*07/01/11 20:05*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.63**		0.020		mg/L		06/30/11 08:33	06/30/11 21:02	1
Magnesium	**20**		0.20		mg/L		06/30/11 08:33	07/02/11 12:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**24**		10		mg/L			06/29/11 21:43	10
Nitrate as NO3	ND		1.0		mg/L			06/29/11 21:26	1
Alkalinity	**400**		5.0		mg/L			06/30/11 11:09	1
Bicarbonate Alkalinity as CaCO3	**400**		5.0		mg/L			06/30/11 11:09	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			06/30/11 11:09	1
Hydroxide Alkalinity	ND		5.0		mg/L			06/30/11 11:09	1
Ferrous Iron	**0.79**		0.10		mg/L			06/29/11 21:28	1

Client: ARCADIS U.S., Inc.
Project/Site: BP #11126, Emeryville

TestAmerica Job ID: 720-35987-1

Client Sample ID: MW-4 (6/29/11)
Date Collected: 06/29/11 13:50
Date Received: 06/29/11 17:14

Lab Sample ID: 720-35987-4
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**11**		5.0		ug/L			07/02/11 07:29	10
Gasoline Range Organics (GRO) -C6-C12	ND		500		ug/L			07/02/11 07:29	10
TBA	**30000**		40		ug/L			07/02/11 07:29	10
TAME	ND		5.0		ug/L			07/02/11 07:29	10

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*07/02/11 07:29*	*10*
1,2-Dichloroethane-d4 (Surr)	*105*		*67 - 130*		*07/02/11 07:29*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/02/11 07:29*	*10*

Method: RSK SOP-175 - Dissolved Gases in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**73**		0.17	0.070	mg/L		07/06/11 06:00	07/06/11 07:15	1.0
Methane	**7.3**		0.00099	0.00050	mg/L		07/06/11 06:00	07/06/11 09:34	1.0

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**610**		50		ug/L		06/30/11 13:59	07/01/11 21:18	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*82*		*23 - 156*	*06/30/11 13:59*	*07/01/11 21:18*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.67**		0.020		mg/L		06/30/11 08:33	06/30/11 21:06	1
Magnesium	**52**		0.20		mg/L		06/30/11 08:33	07/02/11 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0		mg/L			06/29/11 22:00	1
Nitrate as NO3	ND		1.0		mg/L			06/29/11 22:00	1
Alkalinity	**1200**		5.0		mg/L			06/30/11 11:21	1
Bicarbonate Alkalinity as CaCO3	**1200**		5.0		mg/L			06/30/11 11:21	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			06/30/11 11:21	1
Hydroxide Alkalinity	ND		5.0		mg/L			06/30/11 11:21	1
Ferrous Iron	**5.8**		1.0		mg/L			06/29/11 21:28	10

Client: ARCADIS U.S., Inc.
Project/Site: BP #11126, Emeryville

TestAmerica Job ID: 720-35987-1

Client Sample ID: MW-5 (6/29/11)
Date Collected: 06/29/11 10:00
Date Received: 06/29/11 17:14

Lab Sample ID: 720-35987-5
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	**1.9**		0.50		ug/L			07/02/11 14:10	1
Benzene	**1.7**		0.50		ug/L			07/02/11 14:10	1
Ethylbenzene	ND		0.50		ug/L			07/02/11 14:10	1
Toluene	**0.60**		0.50		ug/L			07/02/11 14:10	1
Xylenes, Total	**2.4**		1.0		ug/L			07/02/11 14:10	1
Gasoline Range Organics (GRO) -C6-C12	**3300**		50		ug/L			07/02/11 14:10	1
TBA	ND		4.0		ug/L			07/02/11 14:10	1
TAME	ND		0.50		ug/L			07/02/11 14:10	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*07/02/11 14:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*67 - 130*		*07/02/11 14:10*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*07/02/11 14:10*	*1*

Method: RSK SOP-175 - Dissolved Gases in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**73**		0.17	0.070	mg/L		07/06/11 06:00	07/06/11 07:27	1.0
Methane	**6.2**		0.00099	0.00050	mg/L		07/06/11 06:00	07/06/11 09:56	1.0

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**2.1**		0.020		mg/L		06/30/11 08:33	06/30/11 21:11	1
Magnesium	**30**		0.20		mg/L		06/30/11 08:33	07/02/11 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0		mg/L			06/29/11 22:34	1
Nitrate as NO3	ND		1.0		mg/L			06/29/11 22:34	1
Alkalinity	**370**		5.0		mg/L			06/30/11 11:28	1
Bicarbonate Alkalinity as CaCO3	**370**		5.0		mg/L			06/30/11 11:28	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			06/30/11 11:28	1
Hydroxide Alkalinity	ND		5.0		mg/L			06/30/11 11:28	1
Ferrous Iron	**16**		1.0		mg/L			06/29/11 21:28	10

Client Sample ID: MW-6 (6/29/11)

Date Collected: 06/29/11 12:00
Date Received: 06/29/11 17:14

Lab Sample ID: 720-35987-6
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**3.6**		0.50		ug/L			07/02/11 15:38	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			07/02/11 15:38	1
TBA	**37**		4.0		ug/L			07/02/11 15:38	1
TAME	ND		0.50		ug/L			07/02/11 15:38	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*67 - 130*		*07/02/11 15:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*67 - 130*		*07/02/11 15:38*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*07/02/11 15:38*	*1*

Method: RSK SOP-175 - Dissolved Gases in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**81**		0.17	0.070	mg/L		07/06/11 06:00	07/06/11 08:05	1.0
Methane	**5.8**		0.00099	0.00050	mg/L		07/06/11 06:00	07/06/11 10:47	1.0

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2100**		50		ug/L		06/30/11 13:59	07/05/11 17:23	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*105*		*23 - 156*	*06/30/11 13:59*	*07/05/11 17:23*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.63**		0.020		mg/L		06/30/11 08:33	06/30/11 21:15	1
Magnesium	**48**		0.20		mg/L		06/30/11 08:33	07/02/11 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**12**		1.0		mg/L			06/29/11 23:43	1
Nitrate as NO3	ND		1.0		mg/L			06/29/11 23:43	1
Alkalinity	**590**		5.0		mg/L			06/30/11 11:36	1
Bicarbonate Alkalinity as CaCO3	**590**		5.0		mg/L			06/30/11 11:36	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			06/30/11 11:36	1
Hydroxide Alkalinity	ND		5.0		mg/L			06/30/11 11:36	1
Ferrous Iron	**14**		1.0		mg/L			06/29/11 21:28	10

Client: ARCADIS U.S., Inc.
Project/Site: BP #11126, Emeryville

TestAmerica Job ID: 720-35987-1

Client Sample ID: MW-7 (6/29/11)
Date Collected: 06/29/11 10:45
Date Received: 06/29/11 17:14

Lab Sample ID: 720-35987-7
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		5.0		ug/L			07/02/11 16:08	10
Benzene	ND		5.0		ug/L			07/02/11 16:08	10
Ethylbenzene	ND		5.0		ug/L			07/02/11 16:08	10
Toluene	ND		5.0		ug/L			07/02/11 16:08	10
Xylenes, Total	ND		10		ug/L			07/02/11 16:08	10
Gasoline Range Organics (GRO) -C6-C12	ND		500		ug/L			07/02/11 16:08	10
TBA	**2200**		40		ug/L			07/02/11 16:08	10
TAME	ND		5.0		ug/L			07/02/11 16:08	10

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*07/02/11 16:08*	*10*
1,2-Dichloroethane-d4 (Surr)	*90*		*67 - 130*		*07/02/11 16:08*	*10*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/02/11 16:08*	*10*

Method: RSK SOP-175 - Dissolved Gases in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**74**		0.17	0.070	mg/L		07/06/11 06:00	07/06/11 08:18	1.0
Methane	**7.4**		0.00099	0.00050	mg/L		07/06/11 06:00	07/06/11 10:59	1.0

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.64**		0.020		mg/L		06/30/11 08:33	06/30/11 21:19	1
Magnesium	**41**		0.20		mg/L		06/30/11 08:33	07/02/11 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0		mg/L			06/30/11 00:17	1
Nitrate as NO3	ND		1.0		mg/L			06/30/11 00:17	1
Alkalinity	**790**		5.0		mg/L			06/30/11 11:44	1
Bicarbonate Alkalinity as CaCO3	**790**		5.0		mg/L			06/30/11 11:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			06/30/11 11:44	1
Hydroxide Alkalinity	ND		5.0		mg/L			06/30/11 11:44	1
Ferrous Iron	**3.0**		0.10		mg/L			06/29/11 21:28	1

Client Sample ID: MW-8 (6/29/11)

Date Collected: 06/29/11 09:05
Date Received: 06/29/11 17:14

Lab Sample ID: 720-35987-8

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**4.7**		0.50		ug/L			07/02/11 16:38	1
Gasoline Range Organics (GRO) -C6-C12	**140**		50		ug/L			07/02/11 16:38	1
TBA	**2000**		4.0		ug/L			07/02/11 16:38	1
TAME	ND		0.50		ug/L			07/02/11 16:38	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*07/02/11 16:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*67 - 130*		*07/02/11 16:38*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*07/02/11 16:38*	*1*

Method: RSK SOP-175 - Dissolved Gases in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**110**		0.17	0.070	mg/L		07/06/11 06:00	07/06/11 08:31	1.0
Methane	**5.9**		0.00099	0.00050	mg/L		07/06/11 06:00	07/06/11 11:12	1.0

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1000**		51		ug/L		06/30/11 13:59	07/01/11 22:07	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*76*		*23 - 156*	*06/30/11 13:59*	*07/01/11 22:07*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**3.2**		0.020		mg/L		06/30/11 08:33	06/30/11 21:32	1
Magnesium	**64**		0.20		mg/L		06/30/11 08:33	07/02/11 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0		mg/L			06/30/11 00:52	1
Nitrate as NO3	ND		1.0		mg/L			06/30/11 00:52	1
Alkalinity	**780**		5.0		mg/L			06/30/11 11:54	1
Bicarbonate Alkalinity as CaCO3	**780**		5.0		mg/L			06/30/11 11:54	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			06/30/11 11:54	1
Hydroxide Alkalinity	ND		5.0		mg/L			06/30/11 11:54	1
Ferrous Iron	**17**		1.0		mg/L			06/29/11 21:33	10

Client: ARCADIS U.S., Inc.
Project/Site: BP #11126, Emeryville

TestAmerica Job ID: 720-35987-1

Client Sample ID: MW-9 (6/29/11)
Date Collected: 06/29/11 16:00
Date Received: 06/29/11 17:14

Lab Sample ID: 720-35987-9
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	900		5.0		ug/L			07/06/11 16:28	10
Benzene	600		5.0		ug/L			07/06/11 16:28	10
Ethylbenzene	370		5.0		ug/L			07/06/11 16:28	10
Toluene	13		0.50		ug/L			07/05/11 13:04	1
Xylenes, Total	120		1.0		ug/L			07/05/11 13:04	1
Gasoline Range Organics (GRO) -C6-C12	4700		500		ug/L			07/06/11 16:28	10
TBA	960		4.0		ug/L			07/05/11 13:04	1
TAME	29		0.50		ug/L			07/05/11 13:04	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*07/05/11 13:04*	*1*
4-Bromofluorobenzene	*101*		*67 - 130*		*07/06/11 16:28*	*10*
1,2-Dichloroethane-d4 (Surr)	*93*		*67 - 130*		*07/05/11 13:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*67 - 130*		*07/06/11 16:28*	*10*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/05/11 13:04*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/06/11 16:28*	*10*

Method: RSK SOP-175 - Dissolved Gases in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	75		0.17	0.070	mg/L		07/06/11 06:00	07/06/11 08:44	1.0
Methane	8.2		0.00099	0.00050	mg/L		07/06/11 06:00	07/06/11 11:24	1.0

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.95		0.020		mg/L		06/30/11 08:33	06/30/11 21:37	1
Magnesium	18		0.20		mg/L		06/30/11 08:33	07/02/11 13:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0		mg/L			06/30/11 02:52	1
Nitrate as NO3	ND		1.0		mg/L			06/30/11 02:52	1
Alkalinity	350		5.0		mg/L			06/30/11 12:15	1
Bicarbonate Alkalinity as CaCO3	350		5.0		mg/L			06/30/11 12:15	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			06/30/11 12:15	1
Hydroxide Alkalinity	ND		5.0		mg/L			06/30/11 12:15	1
Ferrous Iron	8.6		1.0		mg/L			06/29/11 21:33	10

Client: ARCADIS U.S., Inc.
Project/Site: BP #11126, Emeryville

TestAmerica Job ID: 720-35987-1

Client Sample ID: MW-10 (6/29/11)
Date Collected: 06/29/11 07:15
Date Received: 06/29/11 17:14

Lab Sample ID: 720-35987-10
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			07/06/11 16:58	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*07/06/11 16:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*67 - 130*		*07/06/11 16:58*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/06/11 16:58*	*1*

Method: RSK SOP-175 - Dissolved Gases in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**43**		0.17	0.070	mg/L		07/05/11 06:30	07/05/11 08:36	1.0
Methane	**2.1**		0.00099	0.00050	mg/L		07/05/11 06:30	07/05/11 09:44	1.0

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.99**		0.020		mg/L		06/30/11 08:33	06/30/11 21:49	1
Magnesium	**30**		0.20		mg/L		06/30/11 08:33	07/02/11 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**17**		1.0		mg/L			06/30/11 03:26	1
Nitrate as NO3	ND		1.0		mg/L			06/30/11 03:26	1
Alkalinity	**470**		5.0		mg/L			06/30/11 12:23	1
Bicarbonate Alkalinity as CaCO3	**470**		5.0		mg/L			06/30/11 12:23	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			06/30/11 12:23	1
Hydroxide Alkalinity	ND		5.0		mg/L			06/30/11 12:23	1
Ferrous Iron	**5.5**		1.0		mg/L			06/29/11 21:33	10

Client: ARCADIS U.S., Inc.
Project/Site: BP #11126, Emeryville

TestAmerica Job ID: 720-35987-1

Client Sample ID: MW-11 (6/29/11)
Date Collected: 06/29/11 08:00
Date Received: 06/29/11 17:14

Lab Sample ID: 720-35987-11
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			07/05/11 14:03	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*67 - 130*		*07/05/11 14:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*67 - 130*		*07/05/11 14:03*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/05/11 14:03*	*1*

Method: RSK SOP-175 - Dissolved Gases in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	**48**		0.17	0.070	mg/L		07/05/11 06:30	07/05/11 08:48	1.0
Methane	**0.0037**		0.00099	0.00050	mg/L		07/05/11 06:30	07/05/11 09:59	1.0

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.045**		0.020		mg/L		06/30/11 08:35	06/30/11 21:53	1
Magnesium	**27**		0.20		mg/L		06/30/11 08:35	07/02/11 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**73**		10		mg/L			06/30/11 04:18	10
Nitrate as NO3	ND		1.0		mg/L			06/30/11 04:01	1
Alkalinity	**470**		5.0		mg/L			06/30/11 12:30	1
Bicarbonate Alkalinity as CaCO3	**470**		5.0		mg/L			06/30/11 12:30	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			06/30/11 12:30	1
Hydroxide Alkalinity	ND		5.0		mg/L			06/30/11 12:30	1
Ferrous Iron	ND		0.10		mg/L			06/29/11 21:28	1

Client: ARCADIS U.S., Inc.
Project/Site: BP #11126, Emeryville

TestAmerica Job ID: 720-35987-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-94512/4
Matrix: Water
Analysis Batch: 94512

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			07/01/11 20:49	1
MTBE	ND		0.50		ug/L			07/01/11 20:49	1
Benzene	ND		0.50		ug/L			07/01/11 20:49	1
EDB	ND		0.50		ug/L			07/01/11 20:49	1
1,2-DCA	ND		0.50		ug/L			07/01/11 20:49	1
Ethylbenzene	ND		0.50		ug/L			07/01/11 20:49	1
Toluene	ND		0.50		ug/L			07/01/11 20:49	1
m-Xylene & p-Xylene	ND		1.0		ug/L			07/01/11 20:49	1
o-Xylene	ND		0.50		ug/L			07/01/11 20:49	1
Xylenes, Total	ND		1.0		ug/L			07/01/11 20:49	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			07/01/11 20:49	1
DIPE	ND		0.50		ug/L			07/01/11 20:49	1
Ethyl t-butyl ether	ND		0.50		ug/L			07/01/11 20:49	1
TBA	ND		4.0		ug/L			07/01/11 20:49	1
TAME	ND		0.50		ug/L			07/01/11 20:49	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*07/01/11 20:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*67 - 130*		*07/01/11 20:49*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/01/11 20:49*	*1*

Lab Sample ID: LCS 720-94512/5
Matrix: Water
Analysis Batch: 94512

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Methyl tert-butyl ether	25.0	28.9		ug/L		116	62 - 130
MTBE	25.0	28.9		ug/L		116	62 - 130
Benzene	25.0	29.0		ug/L		116	82 - 127
EDB	25.0	30.8		ug/L		123	70 - 130
1,2-DCA	25.0	27.7		ug/L		111	70 - 126
Ethylbenzene	25.0	27.7		ug/L		111	86 - 135
Toluene	25.0	27.2		ug/L		109	83 - 129
m-Xylene & p-Xylene	50.0	55.8		ug/L		112	70 - 142
o-Xylene	25.0	28.7		ug/L		115	89 - 136
DIPE	25.0	29.0		ug/L		116	74 - 155
Ethyl t-butyl ether	25.0	28.5		ug/L		114	70 - 130
TBA	500	504		ug/L		101	82 - 116
TAME	25.0	27.4		ug/L		110	79 - 129

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*67 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-94512/7
Matrix: Water
Analysis Batch: 94512

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Gasoline Range Organics (GRO) -C6-C12			500	453		ug/L		91	58 - 106		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*67 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 720-94512/6
Matrix: Water
Analysis Batch: 94512

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether			25.0	31.4		ug/L		126	62 - 130	8	20
MTBE			25.0	31.4		ug/L		126	62 - 130	8	20
Benzene			25.0	29.5		ug/L		118	82 - 127	2	20
EDB			25.0	32.6		ug/L		130	70 - 130	6	20
1,2-DCA			25.0	28.9		ug/L		116	70 - 126	4	20
Ethylbenzene			25.0	27.6		ug/L		110	86 - 135	0	20
Toluene			25.0	27.1		ug/L		108	83 - 129	0	20
m-Xylene & p-Xylene			50.0	55.6		ug/L		111	70 - 142	0	20
o-Xylene			25.0	28.9		ug/L		116	89 - 136	1	20
DIPE			25.0	30.2		ug/L		121	74 - 155	4	20
Ethyl t-butyl ether			25.0	30.5		ug/L		122	70 - 130	7	20
TBA			500	496		ug/L		99	82 - 116	2	20
TAME			25.0	29.8		ug/L		119	79 - 129	8	20

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*67 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 720-94512/8
Matrix: Water
Analysis Batch: 94512

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C12			500	448		ug/L		90	58 - 106	1	20

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*67 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-94525/4
Matrix: Water
Analysis Batch: 94525

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			07/02/11 10:57	1
MTBE	ND		0.50		ug/L			07/02/11 10:57	1
Benzene	ND		0.50		ug/L			07/02/11 10:57	1
Ethylbenzene	ND		0.50		ug/L			07/02/11 10:57	1
Toluene	ND		0.50		ug/L			07/02/11 10:57	1
m-Xylene & p-Xylene	ND		1.0		ug/L			07/02/11 10:57	1
o-Xylene	ND		0.50		ug/L			07/02/11 10:57	1
Xylenes, Total	ND		1.0		ug/L			07/02/11 10:57	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			07/02/11 10:57	1
TBA	ND		4.0		ug/L			07/02/11 10:57	1
TAME	ND		0.50		ug/L			07/02/11 10:57	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*		*07/02/11 10:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*67 - 130*		*07/02/11 10:57*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/02/11 10:57*	*1*

Lab Sample ID: LCS 720-94525/5
Matrix: Water
Analysis Batch: 94525

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Methyl tert-butyl ether	25.0	26.8		ug/L		107	62 - 130
MTBE	25.0	26.8		ug/L		107	62 - 130
Benzene	25.0	24.7		ug/L		99	82 - 127
Ethylbenzene	25.0	26.0		ug/L		104	86 - 135
Toluene	25.0	25.0		ug/L		100	83 - 129
m-Xylene & p-Xylene	50.0	51.5		ug/L		103	70 - 142
o-Xylene	25.0	26.8		ug/L		107	89 - 136
TBA	500	505		ug/L		101	82 - 116
TAME	25.0	27.2		ug/L		109	79 - 129

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*108*		*67 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCS 720-94525/7
Matrix: Water
Analysis Batch: 94525

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Gasoline Range Organics (GRO) -C6-C12	500	464		ug/L		93	58 - 106

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*67 - 130*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-94525/7
Matrix: Water
Analysis Batch: 94525

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

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 720-94525/6
Matrix: Water
Analysis Batch: 94525

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	26.6		ug/L		106	62 - 130	1	20
MTBE	25.0	26.6		ug/L		106	62 - 130	1	20
Benzene	25.0	24.7		ug/L		99	82 - 127	0	20
Ethylbenzene	25.0	25.7		ug/L		103	86 - 135	1	20
Toluene	25.0	25.3		ug/L		101	83 - 129	1	20
m-Xylene & p-Xylene	50.0	51.1		ug/L		102	70 - 142	1	20
o-Xylene	25.0	26.7		ug/L		107	89 - 136	0	20
TBA	500	477		ug/L		95	82 - 116	6	20
TAME	25.0	27.4		ug/L		110	79 - 129	1	20

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*67 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 720-94525/8
Matrix: Water
Analysis Batch: 94525

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C12	500	453		ug/L		91	58 - 106	2	20

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*67 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 720-35987-5 MS
Matrix: Water
Analysis Batch: 94525

Client Sample ID: MW-5 (6/29/11)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Methyl tert-butyl ether	1.9		25.0	27.6		ug/L		103	60 - 138
MTBE	1.9		25.0	27.6		ug/L		103	60 - 138
Benzene	1.7		25.0	25.3		ug/L		94	60 - 140
Ethylbenzene	ND		25.0	25.3		ug/L		100	60 - 140
Toluene	0.60		25.0	25.8		ug/L		101	60 - 140
m-Xylene & p-Xylene	1.4		50.0	50.6		ug/L		98	60 - 140
o-Xylene	0.98		25.0	26.3		ug/L		101	60 - 140
TBA	ND		500	486		ug/L		97	60 - 140
TAME	ND		25.0	26.3		ug/L		105	60 - 140

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-35987-5 MS
Matrix: Water
Analysis Batch: 94525

Client Sample ID: MW-5 (6/29/11)
Prep Type: Total/NA

Surrogate	MS % Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*67 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: 720-35987-5 MSD
Matrix: Water
Analysis Batch: 94525

Client Sample ID: MW-5 (6/29/11)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	1.9		25.0	28.0		ug/L		105	60 - 138	1	20
MTBE	1.9		25.0	28.0		ug/L		105	60 - 138	1	20
Benzene	1.7		25.0	25.7		ug/L		96	60 - 140	2	20
Ethylbenzene	ND		25.0	24.9		ug/L		98	60 - 140	2	20
Toluene	0.60		25.0	25.6		ug/L		100	60 - 140	1	20
m-Xylene & p-Xylene	1.4		50.0	49.6		ug/L		96	60 - 140	2	20
o-Xylene	0.98		25.0	25.9		ug/L		100	60 - 140	2	20
TBA	ND		500	471		ug/L		94	60 - 140	3	20
TAME	ND		25.0	26.7		ug/L		107	60 - 140	2	20

Surrogate	MSD % Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*67 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 720-94550/4
Matrix: Water
Analysis Batch: 94550

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			07/05/11 10:19	1
MTBE	ND		0.50		ug/L			07/05/11 10:19	1
Benzene	ND		0.50		ug/L			07/05/11 10:19	1
Ethylbenzene	ND		0.50		ug/L			07/05/11 10:19	1
Toluene	ND		0.50		ug/L			07/05/11 10:19	1
m-Xylene & p-Xylene	ND		1.0		ug/L			07/05/11 10:19	1
o-Xylene	ND		0.50		ug/L			07/05/11 10:19	1
Xylenes, Total	ND		1.0		ug/L			07/05/11 10:19	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			07/05/11 10:19	1
TBA	ND		4.0		ug/L			07/05/11 10:19	1
TAME	ND		0.50		ug/L			07/05/11 10:19	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*97*		*67 - 130*		*07/05/11 10:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*67 - 130*		*07/05/11 10:19*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*07/05/11 10:19*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-94550/5
Matrix: Water
Analysis Batch: 94550

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Methyl tert-butyl ether	25.0	24.1		ug/L		96	62 - 130
MTBE	25.0	24.1		ug/L		96	62 - 130
Benzene	25.0	24.2		ug/L		97	82 - 127
Ethylbenzene	25.0	26.0		ug/L		104	86 - 135
Toluene	25.0	25.8		ug/L		103	83 - 129
m-Xylene & p-Xylene	50.0	51.5		ug/L		103	70 - 142
o-Xylene	25.0	25.9		ug/L		104	89 - 136
TBA	500	506		ug/L		101	82 - 116
TAME	25.0	24.2		ug/L		97	79 - 129

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*67 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 720-94550/6
Matrix: Water
Analysis Batch: 94550

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	24.9		ug/L		100	62 - 130	3	20
MTBE	25.0	24.9		ug/L		100	62 - 130	3	20
Benzene	25.0	24.2		ug/L		97	82 - 127	0	20
Ethylbenzene	25.0	25.3		ug/L		101	86 - 135	3	20
Toluene	25.0	25.4		ug/L		102	83 - 129	2	20
m-Xylene & p-Xylene	50.0	50.0		ug/L		100	70 - 142	3	20
o-Xylene	25.0	25.5		ug/L		102	89 - 136	2	20
TBA	500	489		ug/L		98	82 - 116	3	20
TAME	25.0	25.0		ug/L		100	79 - 129	3	20

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*67 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 720-94616/4
Matrix: Water
Analysis Batch: 94616

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			07/06/11 09:23	1
MTBE	ND		0.50		ug/L			07/06/11 09:23	1
Benzene	ND		0.50		ug/L			07/06/11 09:23	1
Ethylbenzene	ND		0.50		ug/L			07/06/11 09:23	1
Toluene	ND		0.50		ug/L			07/06/11 09:23	1
m-Xylene & p-Xylene	ND		1.0		ug/L			07/06/11 09:23	1
o-Xylene	ND		0.50		ug/L			07/06/11 09:23	1
Xylenes, Total	ND		1.0		ug/L			07/06/11 09:23	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-94616/4
Matrix: Water
Analysis Batch: 94616

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			07/06/11 09:23	1
TBA	ND		4.0		ug/L			07/06/11 09:23	1
TAME	ND		0.50		ug/L			07/06/11 09:23	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*07/06/11 09:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*67 - 130*		*07/06/11 09:23*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/06/11 09:23*	*1*

Lab Sample ID: LCS 720-94616/5
Matrix: Water
Analysis Batch: 94616

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Methyl tert-butyl ether	25.0	26.1		ug/L		104	62 - 130
MTBE	25.0	26.1		ug/L		104	62 - 130
Benzene	25.0	24.8		ug/L		99	82 - 127
Ethylbenzene	25.0	26.9		ug/L		108	86 - 135
Toluene	25.0	25.6		ug/L		102	83 - 129
m-Xylene & p-Xylene	50.0	54.4		ug/L		109	70 - 142
o-Xylene	25.0	28.1		ug/L		112	89 - 136
TBA	500	542		ug/L		108	82 - 116
TAME	25.0	25.7		ug/L		103	79 - 129

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*67 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCS 720-94616/7
Matrix: Water
Analysis Batch: 94616

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Gasoline Range Organics (GRO) -C6-C12	500	404		ug/L		81	58 - 106

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*67 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 720-94616/6
Matrix: Water
Analysis Batch: 94616

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	27.5		ug/L		110	62 - 130	5	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-94616/6
Matrix: Water
Analysis Batch: 94616

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
MTBE			25.0	27.5		ug/L		110	62 - 130	5	20
Benzene			25.0	25.0		ug/L		100	82 - 127	1	20
Ethylbenzene			25.0	27.3		ug/L		109	86 - 135	1	20
Toluene			25.0	26.2		ug/L		105	83 - 129	2	20
m-Xylene & p-Xylene			50.0	55.2		ug/L		110	70 - 142	1	20
o-Xylene			25.0	28.6		ug/L		114	89 - 136	2	20
TBA			500	534		ug/L		107	82 - 116	1	20
TAME			25.0	27.1		ug/L		108	79 - 129	5	20

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*67 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 720-94616/8
Matrix: Water
Analysis Batch: 94616

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C12			500	391		ug/L		78	58 - 106	3	20

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*67 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Method: RSK SOP-175 - Dissolved Gases in Water

Lab Sample ID: 11G0013-BLK1
Matrix: Water
Analysis Batch: 11G0013

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11G0013_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.17	0.070	mg/L		07/05/11 06:00	07/05/11 07:33	1.00

Lab Sample ID: 11G0013-BS1
Matrix: Water
Analysis Batch: 11G0013

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11G0013_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Carbon dioxide			16.88	16.5		mg/L		98	70 - 130		

Lab Sample ID: 11G0013-BSD1
Matrix: Water
Analysis Batch: 11G0013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11G0013_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Carbon dioxide			16.88	16.1		mg/L		95	70 - 130	3	20

Method: RSK SOP-175 - Dissolved Gases in Water (Continued)

Lab Sample ID: 11G0014-BLK1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 11G0014 — **Prep Batch: 11G0014_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		0.00099	0.00050	mg/L		07/05/11 06:00	07/05/11 07:46	1.00

Lab Sample ID: 11G0014-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 11G0014 — **Prep Batch: 11G0014_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Methane	0.04767	0.0506		mg/L		106	70 - 125

Lab Sample ID: 11G0014-BSD1 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 11G0014 — **Prep Batch: 11G0014_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Methane	0.04767	0.0493		mg/L		103	70 - 125	3	20

Lab Sample ID: 11G0023-BLK1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 11G0023 — **Prep Batch: 11G0023_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.17	0.070	mg/L		07/06/11 05:30	07/06/11 06:11	1.00

Lab Sample ID: 11G0023-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 11G0023 — **Prep Batch: 11G0023_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Carbon dioxide	16.88	16.0		mg/L		95	70 - 130

Lab Sample ID: 11G0023-BSD1 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 11G0023 — **Prep Batch: 11G0023_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Carbon dioxide	16.88	16.0		mg/L		95	70 - 130	0.3	20

Lab Sample ID: 11G0024-BLK1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 11G0024 — **Prep Batch: 11G0024_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		0.00099	0.00050	mg/L		07/06/11 05:30	07/06/11 06:24	1.00

Lab Sample ID: 11G0024-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 11G0024 — **Prep Batch: 11G0024_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Methane	0.04767	0.0492		mg/L		103	70 - 125

Method: RSK SOP-175 - Dissolved Gases in Water (Continued)

Lab Sample ID: 11G0024-BSD1
Matrix: Water
Analysis Batch: 11G0024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11G0024_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Methane			0.04767	0.0493		mg/L		103	70 - 125	0.2	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-94411/1-A
Matrix: Water
Analysis Batch: 94487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94411

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		06/30/11 13:59	07/01/11 21:18	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*120*		*23 - 156*	*06/30/11 13:59*	*07/01/11 21:18*	*1*

Lab Sample ID: LCS 720-94411/2-A
Matrix: Water
Analysis Batch: 94487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94411

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Diesel Range Organics [C10-C28]			2500	2340		ug/L		94	40 - 150

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*109*		*23 - 156*

Lab Sample ID: LCSD 720-94411/3-A
Matrix: Water
Analysis Batch: 94487

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94411

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			2500	2160		ug/L		86	40 - 150	8	35

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*106*		*23 - 156*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 720-94377/1-A
Matrix: Water
Analysis Batch: 94454

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.020		mg/L		06/30/11 08:33	06/30/11 20:07	1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 720-94377/1-A
Matrix: Water
Analysis Batch: 94543

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		0.20		mg/L		06/30/11 08:33	07/02/11 11:45	1

Lab Sample ID: LCS 720-94377/2-A
Matrix: Water
Analysis Batch: 94454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94377

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Manganese	1.00	1.01		mg/L		101	85 - 115

Lab Sample ID: LCS 720-94377/2-A
Matrix: Water
Analysis Batch: 94543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94377

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Magnesium	10.0	10.8		mg/L		108	85 - 115

Lab Sample ID: LCSD 720-94377/3-A
Matrix: Water
Analysis Batch: 94454

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94377

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Manganese	1.00	0.997		mg/L		100	85 - 115	1	20

Lab Sample ID: LCSD 720-94377/3-A
Matrix: Water
Analysis Batch: 94543

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94377

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Magnesium	10.0	10.5		mg/L		105	85 - 115	3	20

Lab Sample ID: 720-35987-8 MS
Matrix: Water
Analysis Batch: 94454

Client Sample ID: MW-8 (6/29/11)
Prep Type: Total/NA
Prep Batch: 94377

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Manganese	3.2		1.00	3.93	F	mg/L		77	85 - 115

Lab Sample ID: 720-35987-8 MS
Matrix: Water
Analysis Batch: 94543

Client Sample ID: MW-8 (6/29/11)
Prep Type: Total/NA
Prep Batch: 94377

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Magnesium	64		10.0	71.3	4	mg/L		75	85 - 115

Lab Sample ID: 720-35987-8 MSD
Matrix: Water
Analysis Batch: 94454

Client Sample ID: MW-8 (6/29/11)
Prep Type: Total/NA
Prep Batch: 94377

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Manganese	3.2		1.00	3.96	F	mg/L		80	85 - 115	1	20

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 720-35987-8 MSD — **Client Sample ID: MW-8 (6/29/11)**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94543 — **Prep Batch: 94377**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Magnesium	64		10.0	71.5	4	mg/L		77	85 - 115	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-94294/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94294

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0		mg/L			06/29/11 08:07	1
Nitrate as NO3	ND		1.0		mg/L			06/29/11 08:07	1

Lab Sample ID: LCS 720-94294/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94294

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Sulfate	10.0	9.83		mg/L		98	90 - 110
Nitrate as NO3	10.0	9.85		mg/L		99	90 - 110

Lab Sample ID: LCSD 720-94294/6 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94294

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Sulfate	10.0	9.94		mg/L		99	90 - 110	1	20
Nitrate as NO3	10.0	9.83		mg/L		98	90 - 110	0	20

Lab Sample ID: MB 720-94376/40 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0		mg/L			06/30/11 01:26	1
Nitrate as NO3	ND		1.0		mg/L			06/30/11 01:26	1

Lab Sample ID: LCS 720-94376/41 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Sulfate	10.0	10.1		mg/L		101	90 - 110
Nitrate as NO3	10.0	9.95		mg/L		100	90 - 110

Lab Sample ID: LCSD 720-94376/42 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Sulfate	10.0	10.0		mg/L		100	90 - 110	1	20
Nitrate as NO3	10.0	9.94		mg/L		99	90 - 110	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 720-94407/2
Matrix: Water
Analysis Batch: 94407

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	ND		5.0		mg/L			06/30/11 10:34	1
Bicarbonate Alkalinity as CaCO3	ND		5.0		mg/L			06/30/11 10:34	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			06/30/11 10:34	1
Hydroxide Alkalinity	ND		5.0		mg/L			06/30/11 10:34	1

Lab Sample ID: LCS 720-94407/3
Matrix: Water
Analysis Batch: 94407

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Alkalinity	250	248		mg/L		99	80 - 120

Lab Sample ID: LCSD 720-94407/4
Matrix: Water
Analysis Batch: 94407

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Alkalinity	250	250		mg/L		100	80 - 120	0	20

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 720-94358/1
Matrix: Water
Analysis Batch: 94358

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10		mg/L			06/29/11 21:28	1

Lab Sample ID: LCS 720-94358/2
Matrix: Water
Analysis Batch: 94358

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ferrous Iron	1.00	1.06		mg/L		106	80 - 120

Lab Sample ID: LCSD 720-94358/3
Matrix: Water
Analysis Batch: 94358

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ferrous Iron	1.00	1.02		mg/L		102	80 - 120	4	20

GC/MS VOA

Analysis Batch: 94512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-94512/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-94512/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-94512/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-94512/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-94512/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-35987-1	MW-1 (6/29/11)	Total/NA	Water	8260B/CA_LUFT MS	
720-35987-2	MW-2 (6/29/11)	Total/NA	Water	8260B/CA_LUFT MS	
720-35987-3	MW-3 (6/29/11)	Total/NA	Water	8260B/CA_LUFT MS	
720-35987-4	MW-4 (6/29/11)	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 94525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-94525/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-94525/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-94525/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-94525/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-94525/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-35987-5	MW-5 (6/29/11)	Total/NA	Water	8260B/CA_LUFT MS	
720-35987-5 MS	MW-5 (6/29/11)	Total/NA	Water	8260B/CA_LUFT MS	
720-35987-5 MSD	MW-5 (6/29/11)	Total/NA	Water	8260B/CA_LUFT MS	
720-35987-6	MW-6 (6/29/11)	Total/NA	Water	8260B/CA_LUFT MS	
720-35987-7	MW-7 (6/29/11)	Total/NA	Water	8260B/CA_LUFT MS	
720-35987-8	MW-8 (6/29/11)	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 94550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-94550/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-94550/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-94550/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-35987-9	MW-9 (6/29/11)	Total/NA	Water	8260B/CA_LUFT MS	
720-35987-11	MW-11 (6/29/11)	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 94616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-94616/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-94616/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-94616/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-94616/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-94616/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-35987-9	MW-9 (6/29/11)	Total/NA	Water	8260B/CA_LUFT MS	
720-35987-10	MW-10 (6/29/11)	Total/NA	Water	8260B/CA_LUFT MS	

GC Volatiles

Analysis Batch: 11G0013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0013-BS1	Lab Control Sample	Total	Water	RSK SOP-175	11G0013_P
11G0013-BSD1	Lab Control Sample Dup	Total	Water	RSK SOP-175	11G0013_P
11G0013-BLK1	Method Blank	Total	Water	RSK SOP-175	11G0013_P
720-35987-10	MW-10 (6/29/11)	Total	Water	RSK SOP-175	11G0013_P
720-35987-11	MW-11 (6/29/11)	Total	Water	RSK SOP-175	11G0013_P

Analysis Batch: 11G0014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0014-BS1	Lab Control Sample	Total	Water	RSK SOP-175	11G0014_P
11G0014-BSD1	Lab Control Sample Dup	Total	Water	RSK SOP-175	11G0014_P
11G0014-BLK1	Method Blank	Total	Water	RSK SOP-175	11G0014_P
720-35987-10	MW-10 (6/29/11)	Total	Water	RSK SOP-175	11G0014_P
720-35987-11	MW-11 (6/29/11)	Total	Water	RSK SOP-175	11G0014_P

Analysis Batch: 11G0023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0023-BS1	Lab Control Sample	Total	Water	RSK SOP-175	11G0023_P
11G0023-BSD1	Lab Control Sample Dup	Total	Water	RSK SOP-175	11G0023_P
11G0023-BLK1	Method Blank	Total	Water	RSK SOP-175	11G0023_P
720-35987-1	MW-1 (6/29/11)	Total	Water	RSK SOP-175	11G0023_P
720-35987-2	MW-2 (6/29/11)	Total	Water	RSK SOP-175	11G0023_P
720-35987-3	MW-3 (6/29/11)	Total	Water	RSK SOP-175	11G0023_P
720-35987-4	MW-4 (6/29/11)	Total	Water	RSK SOP-175	11G0023_P
720-35987-5	MW-5 (6/29/11)	Total	Water	RSK SOP-175	11G0023_P
720-35987-6	MW-6 (6/29/11)	Total	Water	RSK SOP-175	11G0023_P
720-35987-7	MW-7 (6/29/11)	Total	Water	RSK SOP-175	11G0023_P
720-35987-8	MW-8 (6/29/11)	Total	Water	RSK SOP-175	11G0023_P
720-35987-9	MW-9 (6/29/11)	Total	Water	RSK SOP-175	11G0023_P

Analysis Batch: 11G0024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0024-BS1	Lab Control Sample	Total	Water	RSK SOP-175	11G0024_P
11G0024-BSD1	Lab Control Sample Dup	Total	Water	RSK SOP-175	11G0024_P
11G0024-BLK1	Method Blank	Total	Water	RSK SOP-175	11G0024_P
720-35987-1	MW-1 (6/29/11)	Total	Water	RSK SOP-175	11G0024_P

GC Volatiles (Continued)

Analysis Batch: 11G0024 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-35987-2	MW-2 (6/29/11)	Total	Water	RSK SOP-175	11G0024_P
720-35987-3	MW-3 (6/29/11)	Total	Water	RSK SOP-175	11G0024_P
720-35987-4	MW-4 (6/29/11)	Total	Water	RSK SOP-175	11G0024_P
720-35987-5	MW-5 (6/29/11)	Total	Water	RSK SOP-175	11G0024_P
720-35987-6	MW-6 (6/29/11)	Total	Water	RSK SOP-175	11G0024_P
720-35987-7	MW-7 (6/29/11)	Total	Water	RSK SOP-175	11G0024_P
720-35987-8	MW-8 (6/29/11)	Total	Water	RSK SOP-175	11G0024_P
720-35987-9	MW-9 (6/29/11)	Total	Water	RSK SOP-175	11G0024_P

Prep Batch: 11G0013_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0013-BS1	Lab Control Sample	Total	Water	GC-RSK	
11G0013-BSD1	Lab Control Sample Dup	Total	Water	GC-RSK	
11G0013-BLK1	Method Blank	Total	Water	GC-RSK	
720-35987-10	MW-10 (6/29/11)	Total	Water	GC-RSK	
720-35987-11	MW-11 (6/29/11)	Total	Water	GC-RSK	

Prep Batch: 11G0014_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0014-BS1	Lab Control Sample	Total	Water	GC-RSK	
11G0014-BSD1	Lab Control Sample Dup	Total	Water	GC-RSK	
11G0014-BLK1	Method Blank	Total	Water	GC-RSK	
720-35987-10	MW-10 (6/29/11)	Total	Water	GC-RSK	
720-35987-11	MW-11 (6/29/11)	Total	Water	GC-RSK	

Prep Batch: 11G0023_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0023-BS1	Lab Control Sample	Total	Water	GC-RSK	
11G0023-BSD1	Lab Control Sample Dup	Total	Water	GC-RSK	
11G0023-BLK1	Method Blank	Total	Water	GC-RSK	
720-35987-1	MW-1 (6/29/11)	Total	Water	GC-RSK	
720-35987-2	MW-2 (6/29/11)	Total	Water	GC-RSK	
720-35987-3	MW-3 (6/29/11)	Total	Water	GC-RSK	
720-35987-4	MW-4 (6/29/11)	Total	Water	GC-RSK	
720-35987-5	MW-5 (6/29/11)	Total	Water	GC-RSK	
720-35987-6	MW-6 (6/29/11)	Total	Water	GC-RSK	
720-35987-7	MW-7 (6/29/11)	Total	Water	GC-RSK	
720-35987-8	MW-8 (6/29/11)	Total	Water	GC-RSK	
720-35987-9	MW-9 (6/29/11)	Total	Water	GC-RSK	

Prep Batch: 11G0024_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0024-BS1	Lab Control Sample	Total	Water	GC-RSK	
11G0024-BSD1	Lab Control Sample Dup	Total	Water	GC-RSK	
11G0024-BLK1	Method Blank	Total	Water	GC-RSK	
720-35987-1	MW-1 (6/29/11)	Total	Water	GC-RSK	
720-35987-2	MW-2 (6/29/11)	Total	Water	GC-RSK	
720-35987-3	MW-3 (6/29/11)	Total	Water	GC-RSK	
720-35987-4	MW-4 (6/29/11)	Total	Water	GC-RSK	
720-35987-5	MW-5 (6/29/11)	Total	Water	GC-RSK	
720-35987-6	MW-6 (6/29/11)	Total	Water	GC-RSK	
720-35987-7	MW-7 (6/29/11)	Total	Water	GC-RSK	

GC Volatiles (Continued)

Prep Batch: 11G0024_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-35987-8	MW-8 (6/29/11)	Total	Water	GC-RSK	
720-35987-9	MW-9 (6/29/11)	Total	Water	GC-RSK	

GC Semi VOA

Prep Batch: 94411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-94411/1-A	Method Blank	Total/NA	Water	3510C	
LCS 720-94411/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-94411/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
720-35987-3	MW-3 (6/29/11)	Total/NA	Water	3510C	
720-35987-4	MW-4 (6/29/11)	Total/NA	Water	3510C	
720-35987-6	MW-6 (6/29/11)	Total/NA	Water	3510C	
720-35987-8	MW-8 (6/29/11)	Total/NA	Water	3510C	

Analysis Batch: 94487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-94411/2-A	Lab Control Sample	Total/NA	Water	8015B	94411
LCSD 720-94411/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	94411
MB 720-94411/1-A	Method Blank	Total/NA	Water	8015B	94411

Analysis Batch: 94488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-35987-3	MW-3 (6/29/11)	Total/NA	Water	8015B	94411
720-35987-4	MW-4 (6/29/11)	Total/NA	Water	8015B	94411
720-35987-8	MW-8 (6/29/11)	Total/NA	Water	8015B	94411

Analysis Batch: 94546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-35987-6	MW-6 (6/29/11)	Total/NA	Water	8015B	94411

Metals

Prep Batch: 94377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-94377/1-A	Method Blank	Total/NA	Water	200.7	
MB 720-94377/1-A	Method Blank	Total/NA	Water	200.7	
LCS 720-94377/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCS 720-94377/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 720-94377/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
LCSD 720-94377/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
720-35987-1	MW-1 (6/29/11)	Total/NA	Water	200.7	
720-35987-1	MW-1 (6/29/11)	Total/NA	Water	200.7	
720-35987-2	MW-2 (6/29/11)	Total/NA	Water	200.7	
720-35987-2	MW-2 (6/29/11)	Total/NA	Water	200.7	
720-35987-3	MW-3 (6/29/11)	Total/NA	Water	200.7	
720-35987-3	MW-3 (6/29/11)	Total/NA	Water	200.7	
720-35987-4	MW-4 (6/29/11)	Total/NA	Water	200.7	
720-35987-4	MW-4 (6/29/11)	Total/NA	Water	200.7	
720-35987-5	MW-5 (6/29/11)	Total/NA	Water	200.7	
720-35987-5	MW-5 (6/29/11)	Total/NA	Water	200.7	
720-35987-6	MW-6 (6/29/11)	Total/NA	Water	200.7	

Metals (Continued)

Prep Batch: 94377 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-35987-6	MW-6 (6/29/11)	Total/NA	Water	200.7	
720-35987-7	MW-7 (6/29/11)	Total/NA	Water	200.7	
720-35987-7	MW-7 (6/29/11)	Total/NA	Water	200.7	
720-35987-8 MS	MW-8 (6/29/11)	Total/NA	Water	200.7	
720-35987-8 MS	MW-8 (6/29/11)	Total/NA	Water	200.7	
720-35987-8 MSD	MW-8 (6/29/11)	Total/NA	Water	200.7	
720-35987-8 MSD	MW-8 (6/29/11)	Total/NA	Water	200.7	
720-35987-8	MW-8 (6/29/11)	Total/NA	Water	200.7	
720-35987-8	MW-8 (6/29/11)	Total/NA	Water	200.7	
720-35987-9	MW-9 (6/29/11)	Total/NA	Water	200.7	
720-35987-9	MW-9 (6/29/11)	Total/NA	Water	200.7	
720-35987-10	MW-10 (6/29/11)	Total/NA	Water	200.7	
720-35987-10	MW-10 (6/29/11)	Total/NA	Water	200.7	
720-35987-11	MW-11 (6/29/11)	Total/NA	Water	200.7	
720-35987-11	MW-11 (6/29/11)	Total/NA	Water	200.7	

Analysis Batch: 94454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-94377/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	94377
LCS 720-94377/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	94377
LCSD 720-94377/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-1	MW-1 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-2	MW-2 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-3	MW-3 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-4	MW-4 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-5	MW-5 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-6	MW-6 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-7	MW-7 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-8 MS	MW-8 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-8 MSD	MW-8 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-8	MW-8 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-9	MW-9 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-10	MW-10 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-11	MW-11 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377

Analysis Batch: 94543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-94377/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	94377
LCS 720-94377/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	94377
LCSD 720-94377/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-1	MW-1 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-2	MW-2 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-3	MW-3 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-4	MW-4 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-5	MW-5 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-6	MW-6 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-7	MW-7 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-8 MS	MW-8 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-8 MSD	MW-8 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-8	MW-8 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-9	MW-9 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377
720-35987-10	MW-10 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377

Metals (Continued)

Analysis Batch: 94543 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-35987-11	MW-11 (6/29/11)	Total/NA	Water	200.7 Rev 4.4	94377

General Chemistry

Analysis Batch: 94294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-94294/4	Method Blank	Total/NA	Water	300.0	
LCS 720-94294/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 720-94294/6	Lab Control Sample Dup	Total/NA	Water	300.0	
720-35987-1	MW-1 (6/29/11)	Total/NA	Water	300.0	
720-35987-2	MW-2 (6/29/11)	Total/NA	Water	300.0	
720-35987-3	MW-3 (6/29/11)	Total/NA	Water	300.0	
720-35987-3	MW-3 (6/29/11)	Total/NA	Water	300.0	
720-35987-4	MW-4 (6/29/11)	Total/NA	Water	300.0	
720-35987-5	MW-5 (6/29/11)	Total/NA	Water	300.0	
720-35987-6	MW-6 (6/29/11)	Total/NA	Water	300.0	
720-35987-7	MW-7 (6/29/11)	Total/NA	Water	300.0	
720-35987-8	MW-8 (6/29/11)	Total/NA	Water	300.0	

Analysis Batch: 94358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-94358/1	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 720-94358/2	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCSD 720-94358/3	Lab Control Sample Dup	Total/NA	Water	SM 3500 FE D	
720-35987-1	MW-1 (6/29/11)	Total/NA	Water	SM 3500 FE D	
720-35987-3	MW-3 (6/29/11)	Total/NA	Water	SM 3500 FE D	
720-35987-7	MW-7 (6/29/11)	Total/NA	Water	SM 3500 FE D	
720-35987-11	MW-11 (6/29/11)	Total/NA	Water	SM 3500 FE D	
720-35987-2	MW-2 (6/29/11)	Total/NA	Water	SM 3500 FE D	
720-35987-4	MW-4 (6/29/11)	Total/NA	Water	SM 3500 FE D	
720-35987-5	MW-5 (6/29/11)	Total/NA	Water	SM 3500 FE D	
720-35987-6	MW-6 (6/29/11)	Total/NA	Water	SM 3500 FE D	
720-35987-8	MW-8 (6/29/11)	Total/NA	Water	SM 3500 FE D	
720-35987-9	MW-9 (6/29/11)	Total/NA	Water	SM 3500 FE D	
720-35987-10	MW-10 (6/29/11)	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 94376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-94376/40	Method Blank	Total/NA	Water	300.0	
LCS 720-94376/41	Lab Control Sample	Total/NA	Water	300.0	
LCSD 720-94376/42	Lab Control Sample Dup	Total/NA	Water	300.0	
720-35987-9	MW-9 (6/29/11)	Total/NA	Water	300.0	
720-35987-10	MW-10 (6/29/11)	Total/NA	Water	300.0	
720-35987-11	MW-11 (6/29/11)	Total/NA	Water	300.0	
720-35987-11	MW-11 (6/29/11)	Total/NA	Water	300.0	

Analysis Batch: 94407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-94407/2	Method Blank	Total/NA	Water	SM 2320B	
LCS 720-94407/3	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 720-94407/4	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
720-35987-1	MW-1 (6/29/11)	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 94407 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-35987-2	MW-2 (6/29/11)	Total/NA	Water	SM 2320B	
720-35987-3	MW-3 (6/29/11)	Total/NA	Water	SM 2320B	
720-35987-4	MW-4 (6/29/11)	Total/NA	Water	SM 2320B	
720-35987-5	MW-5 (6/29/11)	Total/NA	Water	SM 2320B	
720-35987-6	MW-6 (6/29/11)	Total/NA	Water	SM 2320B	
720-35987-7	MW-7 (6/29/11)	Total/NA	Water	SM 2320B	
720-35987-8	MW-8 (6/29/11)	Total/NA	Water	SM 2320B	
720-35987-9	MW-9 (6/29/11)	Total/NA	Water	SM 2320B	
720-35987-10	MW-10 (6/29/11)	Total/NA	Water	SM 2320B	
720-35987-11	MW-11 (6/29/11)	Total/NA	Water	SM 2320B	

Client Sample ID: MW-1 (6/29/11)

Lab Sample ID: 720-35987-1

Date Collected: 06/29/11 14:40

Matrix: Water

Date Received: 06/29/11 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	94512	07/02/11 05:58	JZ	TAL SF
Total	Prep	GC-RSK		1.0	11G0023_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0023	07/06/11 06:38	YZ	TAL LA
Total	Prep	GC-RSK		1.0	11G0024_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0024	07/06/11 08:56	YZ	TAL LA
Total/NA	Prep	200.7			94377	06/30/11 08:33	ET	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94454	06/30/11 20:45	BA	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94543	07/02/11 12:06	BA	TAL SF
Total/NA	Analysis	300.0		1	94294	06/29/11 20:17	DAF	TAL SF
Total/NA	Analysis	SM 3500 FE D		1	94358	06/29/11 21:28	EYT	TAL SF
Total/NA	Analysis	SM 2320B		1	94407	06/30/11 10:54	DAF	TAL SF

Client Sample ID: MW-2 (6/29/11)

Lab Sample ID: 720-35987-2

Date Collected: 06/29/11 15:25

Matrix: Water

Date Received: 06/29/11 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		50	94512	07/02/11 06:28	JZ	TAL SF
Total	Prep	GC-RSK		1.0	11G0023_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0023	07/06/11 06:50	YZ	TAL LA
Total	Prep	GC-RSK		1.0	11G0024_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0024	07/06/11 09:09	YZ	TAL LA
Total/NA	Prep	200.7			94377	06/30/11 08:33	ET	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94454	06/30/11 20:58	BA	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94543	07/02/11 12:10	BA	TAL SF
Total/NA	Analysis	300.0		1	94294	06/29/11 20:51	DAF	TAL SF
Total/NA	Analysis	SM 3500 FE D		10	94358	06/29/11 21:28	EYT	TAL SF
Total/NA	Analysis	SM 2320B		1	94407	06/30/11 11:03	DAF	TAL SF

Client Sample ID: MW-3 (6/29/11)

Lab Sample ID: 720-35987-3

Date Collected: 06/29/11 12:55

Matrix: Water

Date Received: 06/29/11 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	94512	07/02/11 06:59	JZ	TAL SF
Total	Prep	GC-RSK		1.0	11G0023_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0023	07/06/11 07:02	YZ	TAL LA
Total	Prep	GC-RSK		1.0	11G0024_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0024	07/06/11 09:21	YZ	TAL LA
Total/NA	Prep	3510C			94411	06/30/11 13:59	RU	TAL SF
Total/NA	Analysis	8015B		1	94488	07/01/11 20:05	WR	TAL SF
Total/NA	Prep	200.7			94377	06/30/11 08:33	ET	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94454	06/30/11 21:02	BA	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94543	07/02/11 12:15	BA	TAL SF

Client Sample ID: MW-3 (6/29/11)

Lab Sample ID: 720-35987-3

Date Collected: 06/29/11 12:55

Matrix: Water

Date Received: 06/29/11 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	94294	06/29/11 21:26	DAF	TAL SF
Total/NA	Analysis	300.0		10	94294	06/29/11 21:43	DAF	TAL SF
Total/NA	Analysis	SM 3500 FE D		1	94358	06/29/11 21:28	EYT	TAL SF
Total/NA	Analysis	SM 2320B		1	94407	06/30/11 11:09	DAF	TAL SF

Client Sample ID: MW-4 (6/29/11)

Lab Sample ID: 720-35987-4

Date Collected: 06/29/11 13:50

Matrix: Water

Date Received: 06/29/11 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	94512	07/02/11 07:29	JZ	TAL SF
Total	Prep	GC-RSK		1.0	11G0023_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0023	07/06/11 07:15	YZ	TAL LA
Total	Prep	GC-RSK		1.0	11G0024_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0024	07/06/11 09:34	YZ	TAL LA
Total/NA	Prep	3510C			94411	06/30/11 13:59	RU	TAL SF
Total/NA	Analysis	8015B		1	94488	07/01/11 21:18	WR	TAL SF
Total/NA	Prep	200.7			94377	06/30/11 08:33	ET	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94454	06/30/11 21:06	BA	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94543	07/02/11 12:19	BA	TAL SF
Total/NA	Analysis	300.0		1	94294	06/29/11 22:00	DAF	TAL SF
Total/NA	Analysis	SM 3500 FE D		10	94358	06/29/11 21:28	EYT	TAL SF
Total/NA	Analysis	SM 2320B		1	94407	06/30/11 11:21	DAF	TAL SF

Client Sample ID: MW-5 (6/29/11)

Lab Sample ID: 720-35987-5

Date Collected: 06/29/11 10:00

Matrix: Water

Date Received: 06/29/11 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	94525	07/02/11 14:10	AC	TAL SF
Total	Prep	GC-RSK		1.0	11G0023_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0023	07/06/11 07:27	YZ	TAL LA
Total	Prep	GC-RSK		1.0	11G0024_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0024	07/06/11 09:56	YZ	TAL LA
Total/NA	Prep	200.7			94377	06/30/11 08:33	ET	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94454	06/30/11 21:11	BA	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94543	07/02/11 12:24	BA	TAL SF
Total/NA	Analysis	300.0		1	94294	06/29/11 22:34	DAF	TAL SF
Total/NA	Analysis	SM 3500 FE D		10	94358	06/29/11 21:28	EYT	TAL SF
Total/NA	Analysis	SM 2320B		1	94407	06/30/11 11:28	DAF	TAL SF

Client Sample ID: MW-6 (6/29/11)

Lab Sample ID: 720-35987-6

Date Collected: 06/29/11 12:00

Matrix: Water

Date Received: 06/29/11 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	94525	07/02/11 15:38	AC	TAL SF
Total	Prep	GC-RSK		1.0	11G0023_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0023	07/06/11 08:05	YZ	TAL LA
Total	Prep	GC-RSK		1.0	11G0024_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0024	07/06/11 10:47	YZ	TAL LA
Total/NA	Prep	3510C			94411	06/30/11 13:59	RU	TAL SF
Total/NA	Analysis	8015B		1	94546	07/05/11 17:23	DH	TAL SF
Total/NA	Prep	200.7			94377	06/30/11 08:33	ET	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94454	06/30/11 21:15	BA	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94543	07/02/11 12:36	BA	TAL SF
Total/NA	Analysis	300.0		1	94294	06/29/11 23:43	DAF	TAL SF
Total/NA	Analysis	SM 3500 FE D		10	94358	06/29/11 21:28	EYT	TAL SF
Total/NA	Analysis	SM 2320B		1	94407	06/30/11 11:36	DAF	TAL SF

Client Sample ID: MW-7 (6/29/11)

Lab Sample ID: 720-35987-7

Date Collected: 06/29/11 10:45

Matrix: Water

Date Received: 06/29/11 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	94525	07/02/11 16:08	AC	TAL SF
Total	Prep	GC-RSK		1.0	11G0023_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0023	07/06/11 08:18	YZ	TAL LA
Total	Prep	GC-RSK		1.0	11G0024_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0024	07/06/11 10:59	YZ	TAL LA
Total/NA	Prep	200.7			94377	06/30/11 08:33	ET	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94454	06/30/11 21:19	BA	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94543	07/02/11 12:41	BA	TAL SF
Total/NA	Analysis	300.0		1	94294	06/30/11 00:17	DAF	TAL SF
Total/NA	Analysis	SM 3500 FE D		1	94358	06/29/11 21:28	EYT	TAL SF
Total/NA	Analysis	SM 2320B		1	94407	06/30/11 11:44	DAF	TAL SF

Client Sample ID: MW-8 (6/29/11)

Lab Sample ID: 720-35987-8

Date Collected: 06/29/11 09:05

Matrix: Water

Date Received: 06/29/11 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	94525	07/02/11 16:38	AC	TAL SF
Total	Prep	GC-RSK		1.0	11G0023_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0023	07/06/11 08:31	YZ	TAL LA
Total	Prep	GC-RSK		1.0	11G0024_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0024	07/06/11 11:12	YZ	TAL LA
Total/NA	Prep	3510C			94411	06/30/11 13:59	RU	TAL SF
Total/NA	Analysis	8015B		1	94488	07/01/11 22:07	WR	TAL SF
Total/NA	Prep	200.7			94377	06/30/11 08:33	ET	TAL SF

Client Sample ID: MW-8 (6/29/11)

Lab Sample ID: 720-35987-8

Date Collected: 06/29/11 09:05

Matrix: Water

Date Received: 06/29/11 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	200.7 Rev 4.4		1	94454	06/30/11 21:32	BA	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94543	07/02/11 12:54	BA	TAL SF
Total/NA	Analysis	300.0		1	94294	06/30/11 00:52	DAF	TAL SF
Total/NA	Analysis	SM 3500 FE D		10	94358	06/29/11 21:33	EYT	TAL SF
Total/NA	Analysis	SM 2320B		1	94407	06/30/11 11:54	DAF	TAL SF

Client Sample ID: MW-9 (6/29/11)

Lab Sample ID: 720-35987-9

Date Collected: 06/29/11 16:00

Matrix: Water

Date Received: 06/29/11 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	94550	07/05/11 13:04	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		10	94616	07/06/11 16:28	AC	TAL SF
Total	Prep	GC-RSK		1.0	11G0023_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0023	07/06/11 08:44	YZ	TAL LA
Total	Prep	GC-RSK		1.0	11G0024_P	07/06/11 06:00	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0024	07/06/11 11:24	YZ	TAL LA
Total/NA	Prep	200.7			94377	06/30/11 08:33	ET	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94454	06/30/11 21:37	BA	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94543	07/02/11 13:03	BA	TAL SF
Total/NA	Analysis	SM 3500 FE D		10	94358	06/29/11 21:33	EYT	TAL SF
Total/NA	Analysis	300.0		1	94376	06/30/11 02:52	EYT	TAL SF
Total/NA	Analysis	SM 2320B		1	94407	06/30/11 12:15	DAF	TAL SF

Client Sample ID: MW-10 (6/29/11)

Lab Sample ID: 720-35987-10

Date Collected: 06/29/11 07:15

Matrix: Water

Date Received: 06/29/11 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	94616	07/06/11 16:58	AC	TAL SF
Total	Prep	GC-RSK		1.0	11G0013_P	07/05/11 06:30	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0013	07/05/11 08:36	YZ	TAL LA
Total	Prep	GC-RSK		1.0	11G0014_P	07/05/11 06:30	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0014	07/05/11 09:44	YZ	TAL LA
Total/NA	Prep	200.7			94377	06/30/11 08:33	ET	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94454	06/30/11 21:49	BA	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94543	07/02/11 13:08	BA	TAL SF
Total/NA	Analysis	SM 3500 FE D		10	94358	06/29/11 21:33	EYT	TAL SF
Total/NA	Analysis	300.0		1	94376	06/30/11 03:26	EYT	TAL SF
Total/NA	Analysis	SM 2320B		1	94407	06/30/11 12:23	DAF	TAL SF

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: BP #11126, Emeryville

TestAmerica Job ID: 720-35987-1

Client Sample ID: MW-11 (6/29/11)
Date Collected: 06/29/11 08:00
Date Received: 06/29/11 17:14

Lab Sample ID: 720-35987-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	94550	07/05/11 14:03	AC	TAL SF
Total	Prep	GC-RSK		1.0	11G0013_P	07/05/11 06:30	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0013	07/05/11 08:48	YZ	TAL LA
Total	Prep	GC-RSK		1.0	11G0014_P	07/05/11 06:30	YZ	TAL LA
Total	Analysis	RSK SOP-175		1.0	11G0014	07/05/11 09:59	YZ	TAL LA
Total/NA	Prep	200.7			94377	06/30/11 08:35	ET	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94454	06/30/11 21:53	BA	TAL SF
Total/NA	Analysis	200.7 Rev 4.4		1	94543	07/02/11 13:12	BA	TAL SF
Total/NA	Analysis	SM 3500 FE D		1	94358	06/29/11 21:28	EYT	TAL SF
Total/NA	Analysis	300.0		1	94376	06/30/11 04:01	EYT	TAL SF
Total/NA	Analysis	300.0		10	94376	06/30/11 04:18	EYT	TAL SF
Total/NA	Analysis	SM 2320B		1	94407	06/30/11 12:30	DAF	TAL SF

Laboratory References:
TAL LA = TestAmerica Los Angeles, 3585 Cadillac Avenue, Suite A, Costa Mesa, CA 92626, TEL 714-258-8610
TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: BP #11126, Emeryville

TestAmerica Job ID: 720-35987-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496
TestAmerica Los Angeles	Arizona	State Program	9	AZ0727
TestAmerica Los Angeles	Florida	NELAC	4	E87652
TestAmerica Los Angeles	L-A-B	DoD ELAP		L2273
TestAmerica Los Angeles	New York	NELAC	2	11851
TestAmerica Los Angeles	Oregon	NELAC	10	CA200013
TestAmerica Los Angeles	Washington	State Program	10	C579

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: BP #11126, Emeryville

TestAmerica Job ID: 720-35987-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL SF
RSK SOP-175	Dissolved Gases in Water		TAL LA
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL SF
300.0	Anions, Ion Chromatography	MCAWW	TAL SF
SM 2320B	Alkalinity	SM	TAL SF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL SF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL LA = TestAmerica Los Angeles, 3585 Cadillac Avenue, Suite A, Costa Mesa, CA 92626, TEL 714-258-8610

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: BP #11126, Emeryville

TestAmerica Job ID: 720-35987-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-35987-1	MW-1 (6/29/11)	Water	06/29/11 14:40	06/29/11 17:14
720-35987-2	MW-2 (6/29/11)	Water	06/29/11 15:25	06/29/11 17:14
720-35987-3	MW-3 (6/29/11)	Water	06/29/11 12:55	06/29/11 17:14
720-35987-4	MW-4 (6/29/11)	Water	06/29/11 13:50	06/29/11 17:14
720-35987-5	MW-5 (6/29/11)	Water	06/29/11 10:00	06/29/11 17:14
720-35987-6	MW-6 (6/29/11)	Water	06/29/11 12:00	06/29/11 17:14
720-35987-7	MW-7 (6/29/11)	Water	06/29/11 10:45	06/29/11 17:14
720-35987-8	MW-8 (6/29/11)	Water	06/29/11 09:05	06/29/11 17:14
720-35987-9	MW-9 (6/29/11)	Water	06/29/11 16:00	06/29/11 17:14
720-35987-10	MW-10 (6/29/11)	Water	06/29/11 07:15	06/29/11 17:14
720-35987-11	MW-11 (6/29/11)	Water	06/29/11 08:00	06/29/11 17:14

San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

720-35987

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
132193
TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jason Duda	Site Contact:	Date:	COC No:
Broadbent and Associates, Inc.	Tel/Fax: 530-566-1400/530-566-1401	Lab Contact: Dimple Sharma	Carrier:	____ of ____ COCs
Address: 1324 Mangrove Ave. Suite 212	Analysis Turnaround Time			Job No.
City/State/Zip: Chico, CA 95926	Calendar (C) or Work Days (W)			
(530) 566-1400 Phone	TAT if different from Below Standard			SDG No.
(530) 566-1401 FAX	☐ 2 weeks			
Project Name: BP 11126	☐ 1 week			
Site: 1700 Powell Street, Emeryville, CA	☐ 2 days			
P O # GP09BPNA.C044	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	GRO by 8015M	BTEX by 8260B	5 Oxys by 8260B	DRO by 8015M	EDB & 1,2-DCA by 8260B	TBA & TAME by 8260B	MTBE by 8260B	Methane & Carbon Dioxide by RSK 175	Manganese & Magnesium by 6010B	Nitrate & Sulfate by 300	Ferrous Iron by SM 3500D	Total Alkalinity by SM 2320B	Sample Specific Notes:
MW-1 (6/29/11)	6/29/11	1440	Grab	W	13		X	X				X	X	X	X	X	X	X	
MW-2 (6/29/11)		1525	Grab	W	13		X	X	X		X			X	X	X	X	X	
MW-3 (6/29/11)		1255	Grab	W	15		X			X		X	X	X	X	X	X	X	
MW-4 (6/29/11)		1350	Grab	W	15		X			X		X	X	X	X	X	X	X	
MW-5 (6/29/11)		1000	Grab	W	13		X	X				X	X	X	X	X	X	X	
MW-6 (6/29/11)		1200	Grab	W	15		X			X		X	X	X	X	X	X	X	
MW-7 (6/29/11)		1045	Grab	W	13		X	X				X	X	X	X	X	X	X	
MW-8 (6/29/11)		0903	Grab	W	15		X			X		X	X	X	X	X	X	X	
MW-9 (6/29/11)		1600	Grab	W	13		X	X				X	X	X	X	X	X	X	
MW-10 (6/29/11)		0715	Grab	W	13								X	X	X	X	X	X	
MW-11 (6/29/11)		0800	Grab	W	13								X	X	X	X	X	X	
Trip Blank	6/29/11	1605																	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ ON Hold

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments: **Invoice To: Hollis Phillips, ARCADIS-US, Inc.**

4° / 3.3° / 3.8°

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	BAS	6/29/11 1714		TestAmerica	6-29-11 1714
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 720-35987-1

Login Number: 35987

List Source: TestAmerica San Francisco

List Number: 1

Creator: Mullen, Joan

Question	Answer	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.	True	
Is the Field Sampler's name present on COC?	True	
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	
Sample Preservation Verified.	N/A	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	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 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 CONFIRMATION RECEIPTS

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!

Submittal Type:	**GEO_WELL**
Submittal Title:	**2Q11 GEO_WELL 11126**
Facility Global ID:	**T0600100208**
Facility Name:	**BP #11126**
File Name:	**GEO_WELL.zip**
Organization Name:	**Broadbent & Associates, Inc.**
Username:	**BROADBENT-C**
IP Address:	**67.118.40.90**
Submittal Date/Time:	**7/20/2011 11:37:05 AM**
Confirmation Number:	**5367623865**

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!

Submittal Type:	**EDF - Monitoring Report - Semi-Annually**
Submittal Title:	**2Q11 GW Monitoring**
Facility Global ID:	**T0600100208**
Facility Name:	**BP #11126**
File Name:	**720-35987-1.zip**
Organization Name:	**Broadbent & Associates, Inc.**
Username:	**BROADBENT-C**
IP Address:	**67.118.40.90**
Submittal Date/Time:	**7/20/2011 11:34:33 AM**
Confirmation Number:	**1824460625**

VIEW QC REPORT

VIEW DETECTIONS REPORT