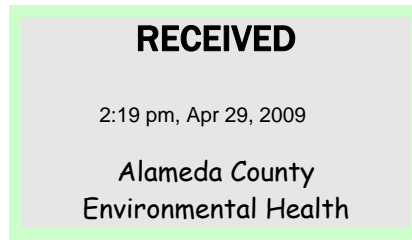




Atlantic Richfield Company  
(a BP affiliated company)

P.O. Box 1257  
San Ramon, CA 94583  
Phone: (925) 275-3801  
Fax: (925) 275-3815



30 April 2009

Re: First Quarter 2009 Ground-Water Monitoring Report  
Former BP Station # 11117  
7210 Bancroft Avenue  
Oakland, California  
ACEH Case # RO0000356

“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.”

Submitted by:

Paul Supple  
Environmental Business Manger

**First Quarter 2009 Ground-Water Monitoring Report**

Former BP Station #11117

7210 Bancroft Avenue

Oakland, California

Prepared for

Mr. Paul Supple

Environmental Business Manager

Atlantic Richfield Company

P.O. Box 1257

San Ramon, California 94583

Prepared by



1324 Mangrove Avenue, Suite 212

Chico, California 95926

(530) 566-1400

*www.broadbentinc.com*

15 April 2009

Project No. 06-08-649

15 April 2009

Project No. 06-08-649

Atlantic Richfield Company  
P.O. Box 1257  
San Ramon, CA 94583  
Submitted via ENFOS

Attn.: Mr. Paul Supple

Re: First Quarter 2009 Ground-Water Monitoring Report  
Former BP Station #11117, 7210 Bancroft Avenue, Oakland, California  
ACEH Case # RO0000356

Dear Mr. Supple:

Attached is the *First Quarter 2009 Ground-Water Monitoring Report* for Former BP Station #11117 located at 7210 Bancroft Avenue, Oakland, Alameda County, California (Site). This report presents a summary of the First Quarter 2009 ground-water monitoring results and recent developments concerning the Site.

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.



Thomas A. Venus, P.E.  
Senior Engineer



Robert H. Miller, P.G., C.HG.  
Principal Hydrogeologist



Enclosures

cc: Mr. Paresh Khatri, Alameda County Environmental Health (Submitted via ACEH ftp site)  
Ms. Shelby Lathrop, ConocoPhillips, 76 Broadway, Sacramento, CA 95818  
Ms. Tiffany McClendon, One Eastmont Town Ctr., 7200 Bancroft Ave., Oakland, CA 94605  
Electronic copy uploaded to GeoTracker

## STATION #11117 QUARTERLY GROUND-WATER MONITORING REPORT

Facility: #11117	Address:	7210 Bancroft Avenue, Oakland, California
Environmental Business Manager:		Mr. Paul Supple
Consulting Co./Contact Persons:		Broadbent & Associates, Inc.(BAI)/Rob Miller & Tom Venus (530) 566-1400
Consultant Project No.:		06-08-649
Primary Agency/Regulatory ID No.:		Alameda County Environmental Health (ACEH) ACEH Case #RO0000356
Facility Permits/Permitting Agency:		NA

### WORK PERFORMED THIS QUARTER (First Quarter 2009):

1. Prepared and submitted *Fourth Quarter 2008 Ground-Water Monitoring Report* (BAI, 1/28/2009).
2. Conducted ground-water monitoring/sampling for First Quarter 2009. Work performed by Stratus Environmental, Inc. (Stratus) on 25 February 2009.

### WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2009):

1. Prepared and submitted *First Quarter 2009 Ground-Water Monitoring Report* (contained herein).
2. Conduct Second Quarter 2009 ground-water monitoring/sampling.
3. Continue remediation system permitting and construction.

### QUARTERLY RESULTS SUMMARY:

Current phase of project:	<b>Monitoring/DPE Remediation System Construction</b>
Frequency of ground-water monitoring:	<b>Quarterly: MW-1, MW-3, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, EX-1, EX-2</b>
Frequency of ground-water sampling:	<b>Quarterly: EX-1, EX-2, MW-4, MW-7, MW-10, MW-11 Semi-annually (1Q and 3Q): MW-9 Annually (1Q): MW-1, MW-3, MW-6, MW-8</b>
Is free product (FP) present on-site:	<b>No</b>
FP recovered this quarter:	<b>0 gallons</b>
Depth to ground water (below TOC):	<b>16.19 ft (MW-8) to 20.07 ft (MW-10)</b>
General ground-water flow direction:	<b>Southeast</b>
Approximate hydraulic gradient:	<b>0.006 ft/ft</b>

### DISCUSSION:

First Quarter 2009 ground-water monitoring and sampling was conducted at Station #11117 on 25 February 2009 by Stratus. Water levels were gauged in 15 of the 16 wells at the Site. The water level was not gauged in well MW-7 due to the remediation compound being flooded. No other irregularities were noted during water level gauging. Depth to water measurements ranged from 16.19 ft in well MW-8 to 20.07 ft in well MW-10. Resulting ground-water surface elevations ranged from 32.98 feet above mean sea level (msl) in well MW-6 to 19.85 feet above msl in well MW-9. Water level elevations were within historic minimum and maximum ranges for each well gauged this quarter. Water level elevations yielded a potentiometric ground-water flow direction and gradient to the southeast at approximately 0.006 ft/ft, within the varying historical range of flow directions (see Table 3). Ground-water monitoring field data sheets are provided within Appendix A. Measured depths to ground water and respective

ground-water elevations are summarized in Table 1. Potentiometric ground-water elevation contours are presented in Drawing 1.

Generally consistent with the current ground-water sampling schedule, water samples were collected from wells MW-1, MW-3, MW-4, MW-6, MW-8 through MW-11, EX-1, EX-2, and DPE-1 through DPE-5. Well MW-7 was not sampled due to the flooding of the remediation system compound where the well is located. Wells DPE-1 through DPE-5 were sampled this quarter to provide further background analytical results prior to beginning operation of the remediation system under construction. No other irregularities were reported during sampling. Samples were submitted under chain-of-custody protocol to Calscience Environmental Laboratories, Inc. (Garden Grove, California), for analysis of Gasoline Range Organics (GRO, C6-C12) by EPA Method 8015B; Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX), Methyl tert-butyl ether (MTBE), Ethyl tert-butyl ether (ETBE), tert-Amyl methyl ether (TAME), Di-isopropyl ether (DIPE), 1,2-Dichloroethane (1,2-DCA), 1,2-Dibromomethane (EDB), tert-Butyl alcohol (TBA), and Ethanol by EPA Method 8260B. No significant irregularities were encountered during laboratory analysis of the samples. Ground-water sampling field data sheets and the laboratory analytical report, including chain-of-custody documentation, are provided in Appendix A.

Concentrations of GRO were detected above the laboratory reporting limit in 13 of the 15 wells sampled at concentrations up to 130,000 micrograms per liter ( $\mu\text{g/L}$ ) in well DPE-4. Benzene was detected above the laboratory reporting limit in nine of the 15 wells sampled at concentrations up to 9,900  $\mu\text{g/L}$  in well DPE-4. Toluene was detected above the laboratory reporting limit in eight of the 15 wells sampled at concentrations up to 21,000  $\mu\text{g/L}$  in well DPE-4. Ethylbenzene was detected above the laboratory reporting limit in nine of the 15 wells sampled at concentrations up to 4,600  $\mu\text{g/L}$  in well DPE-4. Total Xylenes were detected above the laboratory reporting limit in eight of the 15 wells sampled at concentrations up to 22,000  $\mu\text{g/L}$  in well DPE-4. TBA was detected above the laboratory reporting limit in four of the 15 wells sampled at concentrations up to 5,600  $\mu\text{g/L}$  in wells MW-4. MTBE was detected above the laboratory reporting limit in seven of the 15 wells sampled at concentrations up to 4,500  $\mu\text{g/L}$  in well DPE-4. The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the wells sampled this quarter.

Detected analyte concentrations were within the historic minimum and maximum ranges recorded for each well with the following exceptions: Detected Toluene and Total Xylenes concentrations in the sample collected from well DPE-3 reached historic minimum values of 12  $\mu\text{g/L}$  and 150  $\mu\text{g/L}$ , respectively; and the detected GRO concentration in the sample collected from EX-1 reached a historic minimum value of 3,300  $\mu\text{g/L}$ . Historic laboratory analytical results are summarized in Table 1 and Table 2. A copy of the laboratory analytical report, including chain-of-custody documentation is provided in Appendix A. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 1. Drawing 2 presents a map showing approximate GRO iso-concentration contours. Drawing 3 presents a map showing approximate Benzene iso-concentration contours. Drawing 4 presents a map showing approximate MTBE iso-concentration contours. First Quarter 2009 ground-water monitoring data (GEO\_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 Database. Upload confirmation pages have been provided in Appendix B.

Due to a change in consultant, future environmental work at this Site will be managed by Delta Environmental Consultants, Inc.

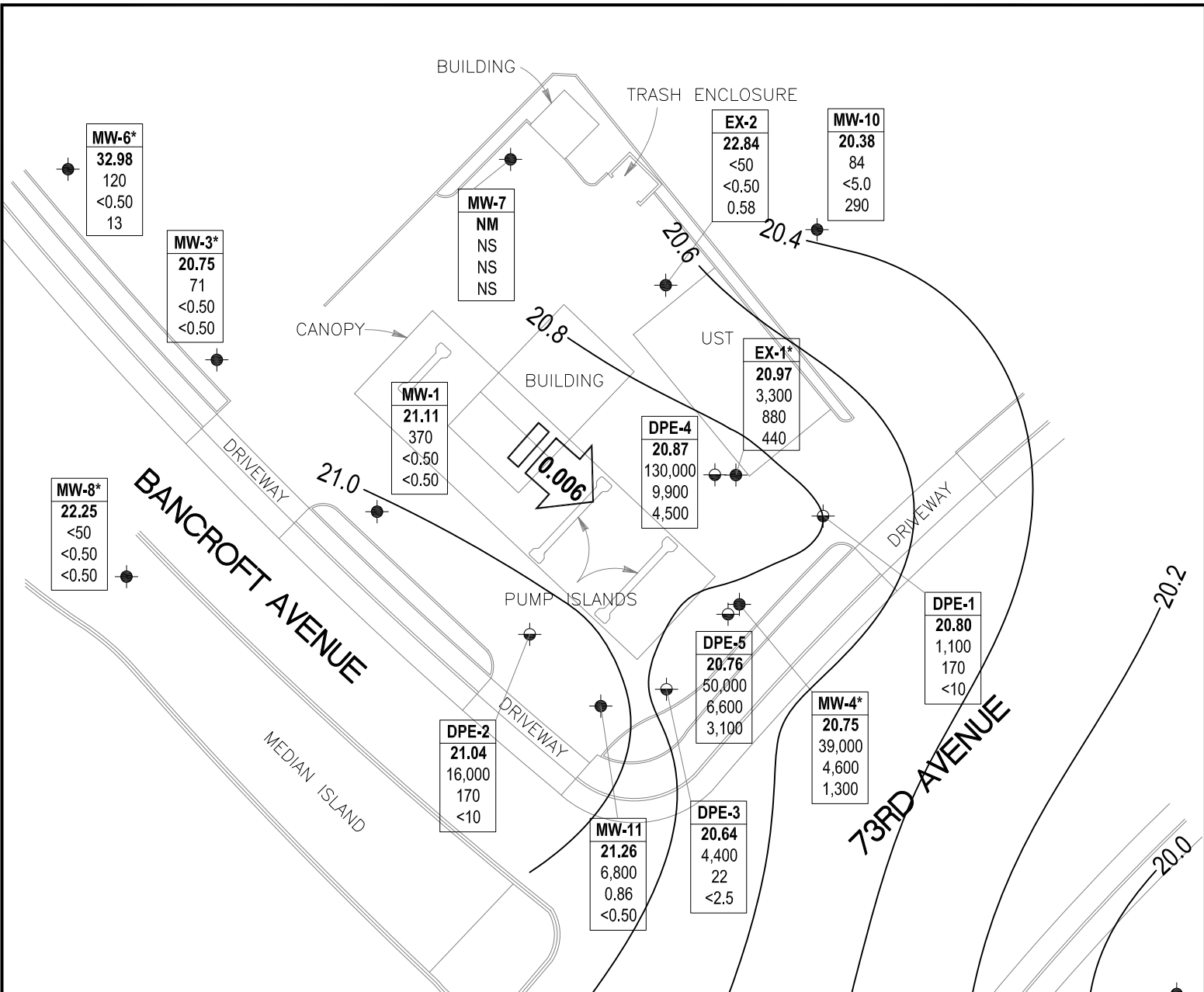
## **CLOSURE:**

The findings presented in this report are based upon: observations of Stratus field personnel (see Appendix A), the points investigated, and results of laboratory tests performed by Calscience Environmental Laboratories (Garden Grove, 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 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.

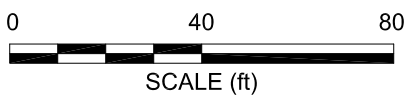
#### **ATTACHMENTS:**

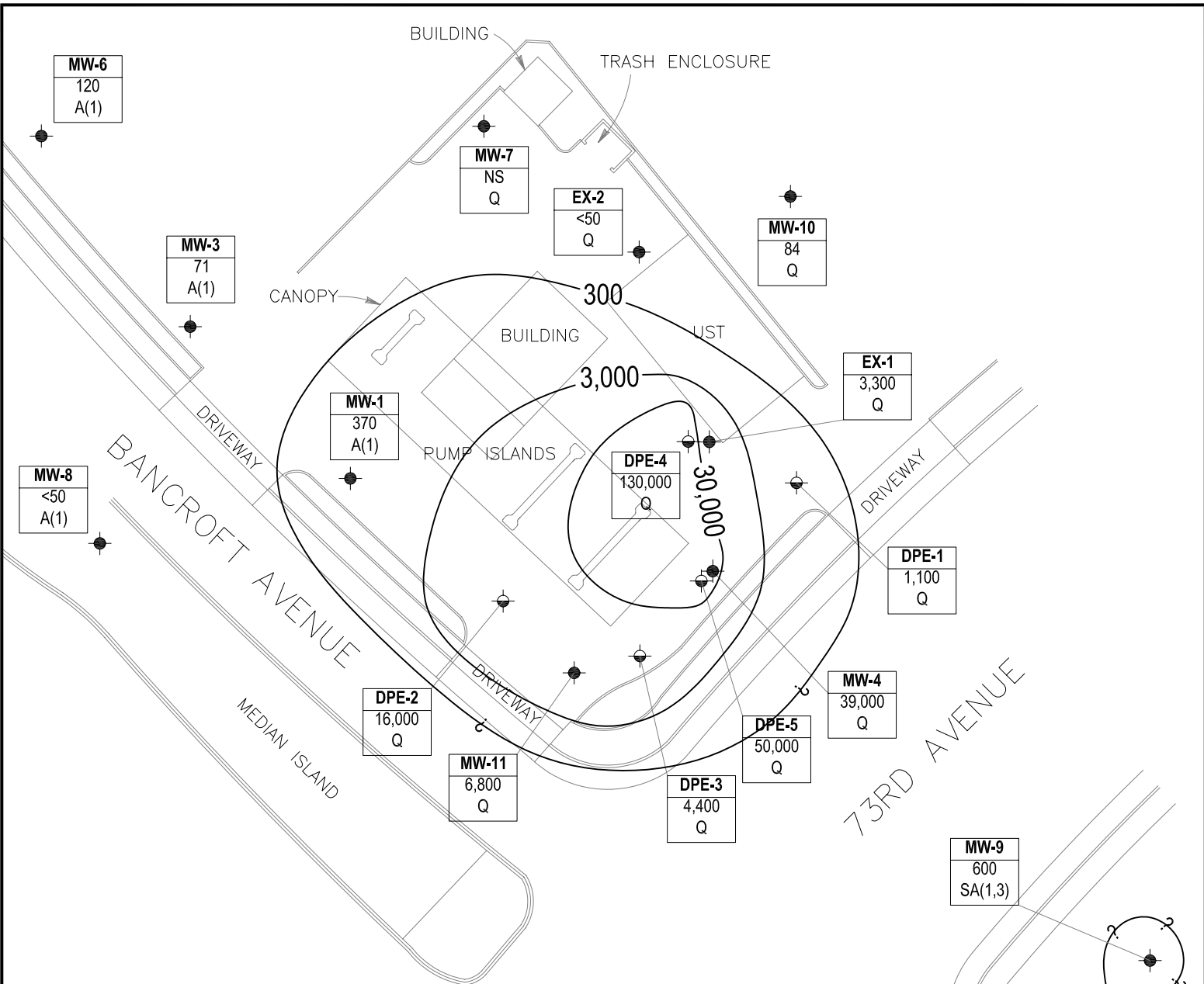
- Drawing 1. Ground-Water Elevation Contours and Analytical Summary Map, 25 February 2009, Station #11117, 7210 Bancroft Avenue, Oakland, California
- Drawing 2. Gasoline Range Organics Iso-Concentration Contours Map, 25 February 2009, Station #11117, 7210 Bancroft Avenue, Oakland, California
- Drawing 3. Benzene Iso-Concentration Contours Map, 25 February 2009, Station #11117, 7210 Bancroft Avenue, Oakland, California
- Drawing 4. MTBE Iso-Concentration Contours Map, 25 February 2009, Station #11117, 7210 Bancroft Avenue, Oakland, California
- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #11117, 7210 Bancroft Ave., Oakland, California
- Table 2. Summary of Fuel Additives Analytical Data, Station #11117, 7210 Bancroft Ave., Oakland, California
- Table 3. Historical Ground-Water Flow Direction and Gradient, Station #11117, 7210 Bancroft Ave., Oakland, California
- Appendix A. Stratus Ground-Water Sampling Data Package (Includes Field Data Sheets, Laboratory Analytical Report with Chain-of-Custody Documentation, and Field Procedures)
- Appendix B. GeoTracker Upload Confirmations



**LEGEND**

- Monitoring well location
- DPE well location
- Well** Well designation
- ELEV** Ground-water elevation (ft/MSL)
- GRO** GRO, Benzene and MTBE concentrations in micrograms per liter (µg/L)
- Benzene**
- MTBE**
- Ground-water flow gradient and direction (ft/ft)
- Ground-water elevation contour (ft/MSL)
- < Not detected at or above laboratory reporting limit
- NM Not measured
- NS Not sampled
- NA Not available, well elevation not surveyed
- \* Elevation not used for contours



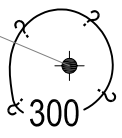
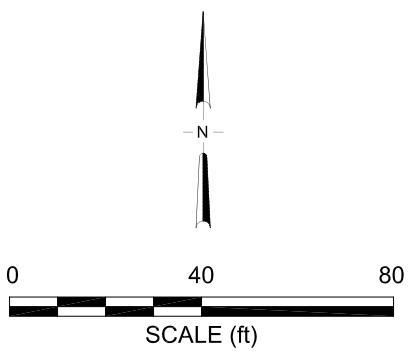


**LEGEND**

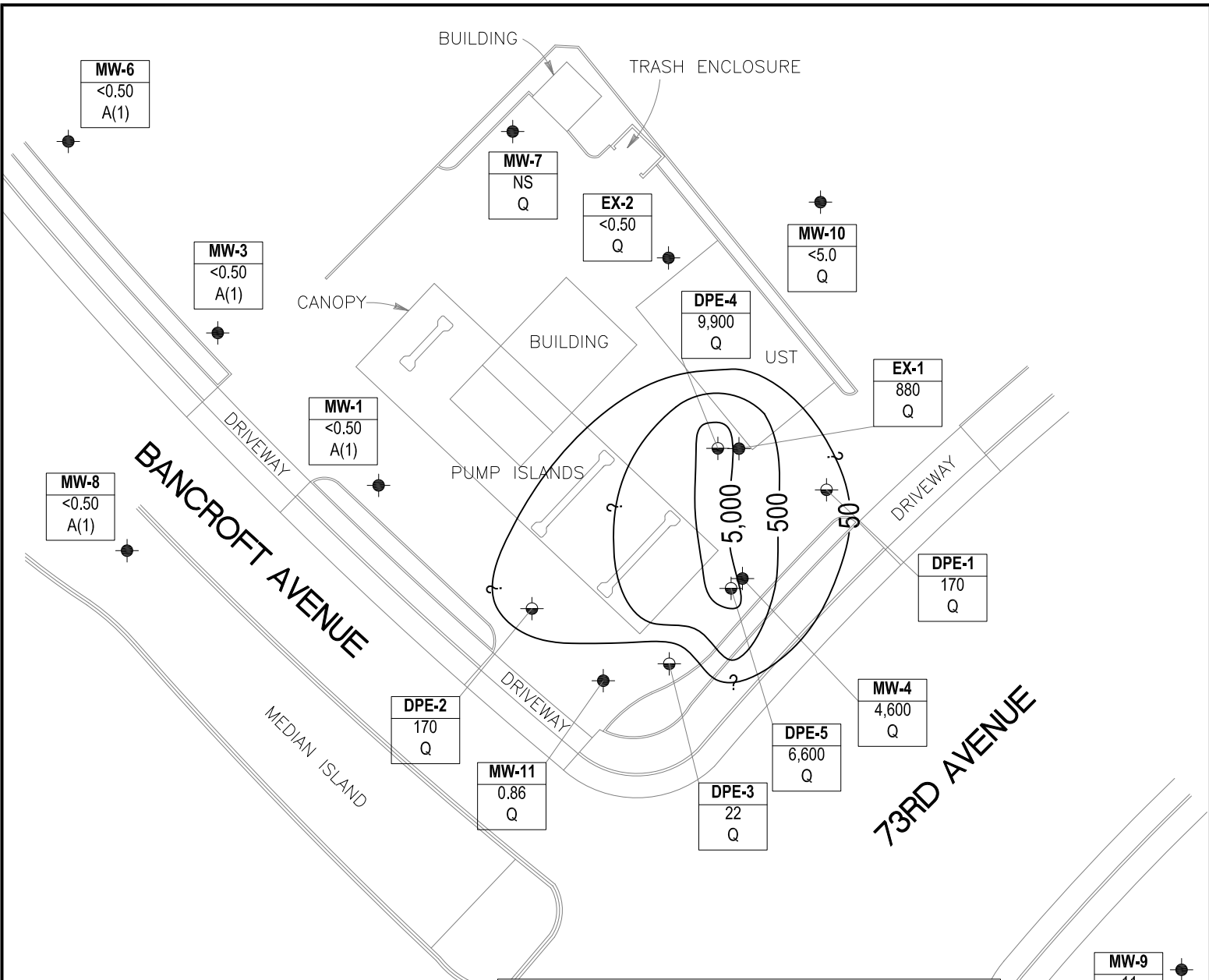
- Monitoring well location
- DPE well location

Well	Well designation
GRO	GRO concentrations in micrograms per liter (µg/L)
A/Q/SA	Sampling frequency

- 3,000- Approximate GRO iso-concentration contour in micrograms per liter (µg/L). Contour interval = logarithmic.
- Q Sampled quarterly
- SA(1,3) Sampled semi-annually, 1st and 3rd quarter
- A(1) Sampled annually, 1st quarter
- < Not detected at or above laboratory reporting limit
- NS/SPH Not sampled/Separate Phase Hydrocarbons
- ? Contours within regions not bounded by monitoring points. All contours depicted are approximate.





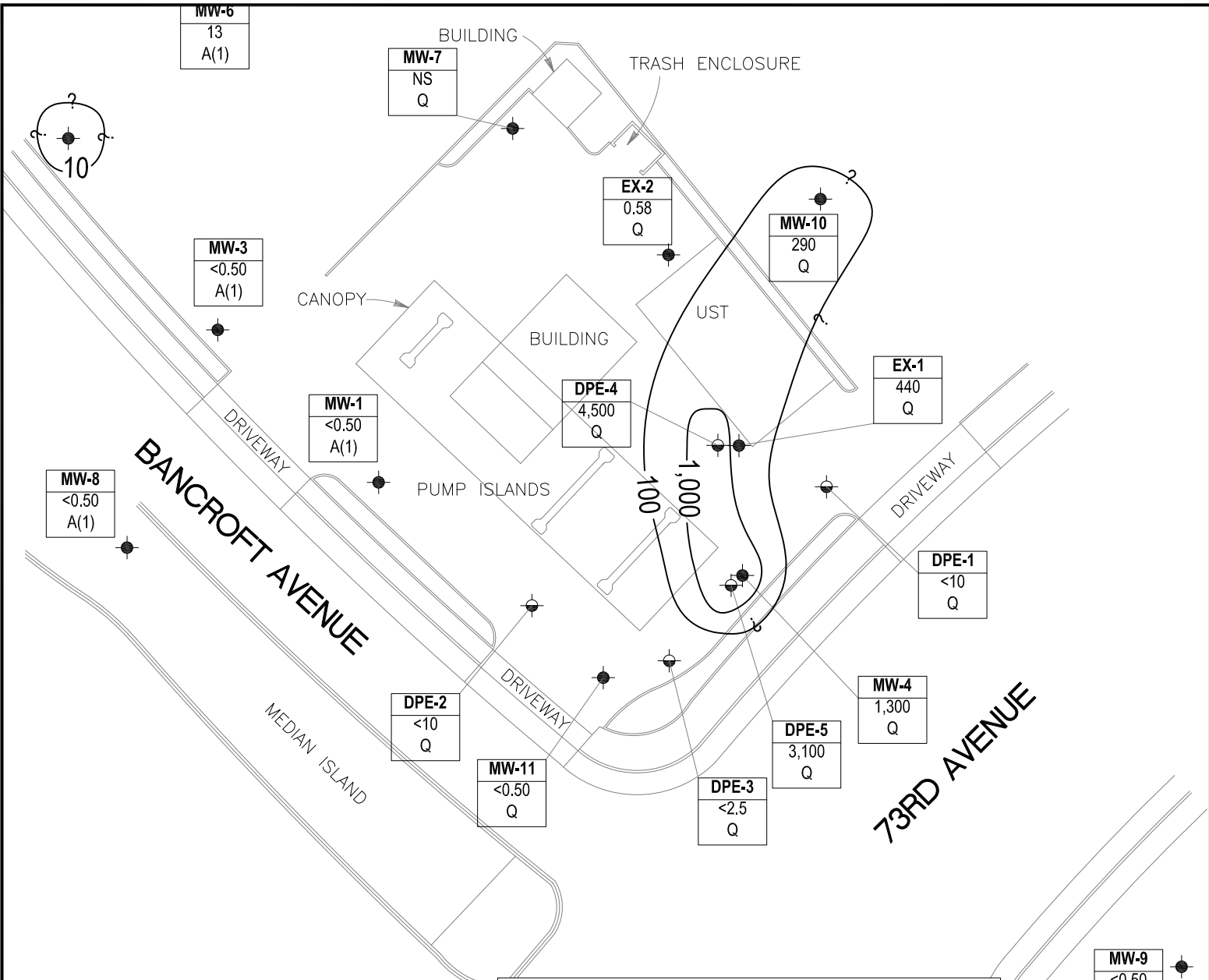


**LEGEND**

- Monitoring well location
- DPE well location

<b>Well</b>	Well designation
<b>Benzene</b>	Benzene concentrations in micrograms per liter (µg/L)
<b>A/Q/SA</b>	Sampling frequency

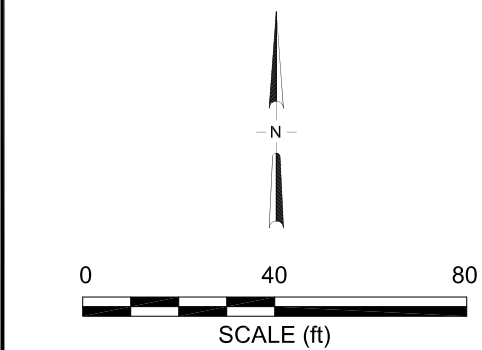
- 5,000- Approximate Benzene iso-concentration contour in micrograms per liter (µg/L). Contour interval = logarithmic.
- Q Sampled quarterly
- SA(1,3) Sampled semi-annually, 1st and 3rd quarter
- A(1) Sampled annually, 1st quarter
- < Not detected at or above laboratory reporting limit
- NS/SPH Not sampled/Separate Phase Hydrocarbons
- ? Contours within regions not bounded by monitoring points. All contours depicted are approximate.



**LEGEND**

- Monitoring well location
- DPE well location

Well	Well designation
MTBE	MTBE concentrations (12/14/2007) in micrograms per liter (µg/L)
A/Q/SA	Sampling frequency
*	Sample collected 11/9/2007
1,000~	Approximate MTBE iso-concentration contour in micrograms per liter (µg/L). Contour interval = logarithmic.
Q	Sampled quarterly
SA(1,3)	Sampled semi-annually, 1st and 3rd quarter
A(1)	Sampled annually, 1st quarter
<	Not detected at or above laboratory reporting limit
NS/SPH	Not sampled/Separate Phase Hydrocarbons
?	Contours within regions not bounded by monitoring points. All contours depicted are approximate.



**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>DPE-1</b>															
12/14/2007	--	38.95	21.62	--	17.33	360	24	<0.50	3.4	<0.50	28	1.73	TAMC	--	z
2/12/2008	P	38.95	16.13	--	22.82	4,700	2,000	310	130	360	66	0.59	CEL	6.87	
5/22/2008	P	38.95	18.03	--	20.92	16,000	3,900	94	510	1,700	<40	1.88	CEL	6.80	
8/25/2008	P	38.95	20.95	--	18.00	1,300	250	<20	<20	<20	<20	1.02	CEL	7.04	
12/17/2008	P	38.95	22.33	--	16.62	480	<5.0	<5.0	<5.0	<5.0	5.3	2.91	CEL	7.08	
2/25/2009	P	<b>38.95</b>	<b>18.15</b>	--	<b>20.80</b>	<b>1,100</b>	<b>170</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>0.51</b>	<b>CEL</b>	<b>6.84</b>	
<b>DPE-2</b>															
12/14/2007	--	37.64	20.09	--	17.55	2,500	1.2	0.99	12	32	0.71	1.78	TAMC	--	z
2/12/2008	P	37.64	14.35	--	23.29	1,100	9.1	9.3	33	91	<0.50	1.32	CEL	7.13	
5/22/2008	P	37.64	16.60	--	21.04	1,000	1.2	3.7	11	18	<0.50	1.54	CEL	7.10	
8/25/2008	P	37.64	19.47	--	18.17	780	0.52	<0.50	7.1	6.6	<0.50	--	CEL	7.18	DO meter not working
12/17/2008	P	37.64	21.35	--	16.29	21,000	230	180	630	1,900	34	0.91	CEL	7.24	
2/25/2009	P	<b>37.64</b>	<b>16.60</b>	--	<b>21.04</b>	<b>16,000</b>	<b>170</b>	<b>180</b>	<b>580</b>	<b>1,500</b>	<b>&lt;10</b>	<b>1.02</b>	<b>CEL</b>	<b>7.15</b>	
<b>DPE-3</b>															
12/14/2007	--	37.82	20.45	--	17.37	13,000	1,800	840	830	1,200	770	1.14	TAMC	--	z
2/12/2008	P	37.82	14.88	--	22.94	5,500	31	55	140	300	<5.0	1.33	CEL	7.10	
5/22/2008	P	37.82	16.92	--	20.90	8,600	950	160	890	330	120	0.95	CEL	6.89	
8/25/2008	P	37.82	19.77	--	18.05	3,900	8.5	21	91	260	<2.5	--	CEL	7.09	DO meter not working
12/17/2008	P	37.82	21.61	--	16.21	24,000	410	210	980	2,900	46	0.53	CEL	6.97	
2/25/2009	P	<b>37.82</b>	<b>17.18</b>	--	<b>20.64</b>	<b>4,400</b>	<b>22</b>	<b>12</b>	<b>130</b>	<b>150</b>	<b>&lt;2.5</b>	<b>0.96</b>	<b>CEL</b>	<b>7.00</b>	
<b>DPE-4</b>															
12/14/2007	--	38.46	21.00	--	17.46	510,000	12,000	27,000	4,900	27,000	8,000	1.79	TAMC	--	z
2/12/2008	P	38.46	15.43	--	23.03	100,000	6,600	21,000	3,800	22,000	2,900	1.39	CEL	6.92	
5/22/2008	P	38.46	17.38	--	21.08	130,000	9,700	26,000	5,000	28,000	4,600	2.24	CEL	6.91	
8/25/2008	P	38.46	20.36	--	18.10	190,000	9,100	19,000	4,100	22,000	4,100	0.19	CEL	7.00	
12/17/2008	P	38.46	21.89	--	16.57	160,000	10,000	20,000	4,500	22,000	5,500	2.84	CEL	7.00	
2/25/2009	P	<b>38.46</b>	<b>17.59</b>	--	<b>20.87</b>	<b>130,000</b>	<b>9,900</b>	<b>21,000</b>	<b>4,600</b>	<b>22,000</b>	<b>4,500</b>	<b>1.55</b>	<b>CEL</b>	<b>6.91</b>	
<b>DPE-5</b>															

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>DPE-5 Cont.</b>															
12/14/2007	--	38.23	20.86	--	17.37	300,000	9,200	4,100	4,600	20,000	16,000	1.82	TAMC	--	z
2/12/2008	P	38.23	15.20	--	23.03	63,000	5,600	2,200	3,400	12,000	8,400	1.09	CEL	6.86	
5/22/2008	P	38.23	17.37	--	20.86	34,000	6,800	620	2,600	6,000	4,900	2.44	CEL	6.81	
8/25/2008	P	38.23	21.80	--	16.43	40,000	5,200	940	2,100	5,400	1,800	--	CEL	6.74	DO meter not working
12/17/2008	P	38.23	21.96	--	16.27	33,000	4,800	130	1,700	2,500	1,300	0.73	CEL	6.77	
<b>2/25/2009</b>	<b>P</b>	<b>38.23</b>	<b>17.47</b>	<b>--</b>	<b>20.76</b>	<b>50,000</b>	<b>6,600</b>	<b>590</b>	<b>2,300</b>	<b>6,100</b>	<b>3,100</b>	<b>0.40</b>	<b>CEL</b>	<b>6.83</b>	
<b>EX-1</b>															
05/04/2004	P	--	16.29	--	--	12,000	2,300	430	740	1,100	2,500	--	SEQM	6.8	h
08/31/2004	P	--	19.39	--	--	13,000	2,500	95	650	1,500	2,100	--	SEQM	6.7	h
11/23/2004	P	--	17.90	--	--	13,000	2,700	94	460	1,700	3,000	--	SEQM	6.9	
01/18/2005	P	--	14.20	--	--	16,000	2,100	390	570	2,500	2,200	--	SEQM	6.6	
06/29/2005	P	--	14.22	--	--	6,400	1,100	52	280	790	1,400	--	SEQM	7.2	
09/01/2005	P	--	17.22	--	--	7,900	2,000	94	400	870	2,000	--	SEQM	6.7	
11/03/2005	P	--	19.92	--	--	22,000	3,200	640	550	3,300	3,000	0.88	SEQM	6.8	
02/14/2006	P	--	15.40	--	--	3,500	<25	<25	<25	74	1,100	--	SEQM	6.8	
5/30/2006	P	--	13.43	--	--	8,600	1,400	120	490	1,300	1,400	--	SEQM	6.8	
8/29/2006	--	--	17.74	--	--	22,000	2,900	210	1,400	3,600	2,500	--	TAMC	6.9	
11/29/2006	P	--	20.25	--	--	15,000	4,000	110	770	2,700	2,700	0.61	TAMC	6.86	
2/20/2007	P	--	16.75	--	--	10,000	2,500	<50	550	1,300	920	1.15	TAMC	7.14	
5/25/2007	P	--	17.04	--	--	8,600	2,100	88	700	1,400	890	2.96	TAMC	6.95	
8/9/2007	NP	--	19.76	--	--	4,800	870	40	230	460	530	0.26	TAMC	7.01	
11/9/2007	P	--	21.57	--	--	5,300	2,700	29	220	200	370	1.50	TAMC	7.12	
12/14/2007	--	38.98	21.60	--	17.38	--	--	--	--	--	--	--	--	--	z
2/12/2008	P	38.98	15.92	--	23.06	19,000	2,500	<50	360	860	320	0.55	CEL	6.87	
5/22/2008	NP	38.98	17.85	--	21.13	9,300	1,600	<50	310	1,100	970	2.06	CEL	6.85	
8/25/2008	NP	38.98	20.71	--	18.27	6,100	1,100	29	360	370	430	2.40	CEL	6.89	
12/17/2008	NP	38.98	22.20	--	16.78	11,000	1,400	47	720	360	690	3.69	CEL	6.88	
<b>2/25/2009</b>	<b>NP</b>	<b>38.98</b>	<b>18.01</b>	<b>--</b>	<b>20.97</b>	<b>3,300</b>	<b>880</b>	<b>110</b>	<b>190</b>	<b>120</b>	<b>440</b>	<b>0.88</b>	<b>CEL</b>	<b>6.81</b>	
<b>EX-2</b>															

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

**Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>EX-2 Cont.</b>															
05/04/2004	P	--	16.65	--	--	<50	0.63	<0.50	<0.50	0.66	46	--	SEQM	6.7	h
08/31/2004	P	--	19.90	--	--	<250	<2.5	<2.5	<2.5	<2.5	130	--	SEQM	6.9	h
11/23/2004	P	--	18.36	--	--	<50	0.74	<0.50	0.83	3.0	5.8	--	SEQM	6.6	
01/18/2005	P	--	14.67	--	--	<50	<0.50	<0.50	<0.50	0.69	6.5	--	SEQM	6.5	
06/29/2005	P	--	14.60	--	--	<50	<0.50	<0.50	<0.50	0.50	24	--	SEQM	6.8	s
09/01/2005	P	--	17.28	--	--	<50	<0.50	1.4	<0.50	1.4	55	--	SEQM	7.0	
11/03/2005	P	--	20.42	--	--	<50	0.50	<0.50	<0.50	1.4	39	0.77	SEQM	6.9	
02/14/2006	P	--	14.54	--	--	220	<0.50	3.2	7.5	33	0.72	--	SEQM	7.0	
5/30/2006	P	--	13.35	--	--	<50	<0.50	<0.50	<0.50	0.70	7.8	--	SEQM	6.9	
8/29/2006	--	--	17.92	--	--	66	0.67	<0.50	0.79	1.9	94	--	TAMC	6.9	
11/29/2006	P	--	20.63	--	--	<50	<0.50	<0.50	<0.50	<0.50	4.4	--	TAMC	7.73	
2/20/2007	P	--	17.58	--	--	<50	<0.50	<0.50	<0.50	2.0	12	1.41	TAMC	7.77	
5/25/2007	P	--	17.23	0.01	--	<50	<0.50	<0.50	<0.50	<0.50	10	2.99	TAMC	7.30	
8/9/2007	P	--	20.40	--	--	<50	<0.50	<0.50	<0.50	<0.50	27	1.14	TAMC	7.19	
11/9/2007	P	--	22.07	--	--	120	<0.50	0.53	0.57	2.7	140	4.01	TAMC	7.37	
12/14/2007	--	39.63	21.97	--	17.66	--	--	--	--	--	--	--	--	--	z
2/12/2008	P	39.63	16.73	--	22.90	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.79	CEL	6.99	
5/22/2008	P	39.63	18.09	--	21.54	<50	<0.50	2.4	0.95	5.5	0.54	4.39	CEL	6.74	
8/25/2008	P	39.63	21.51	--	18.12	<50	<0.50	<0.50	<0.50	<0.50	1.0	3.07	CEL	6.81	
12/17/2008	--	39.63	--	--	--	--	--	--	--	--	--	--	--	--	g
<b>2/25/2009</b>	<b>P</b>	<b>39.63</b>	<b>16.79</b>	<b>--</b>	<b>22.84</b>	<b>&lt;50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>0.58</b>	<b>1.48</b>	<b>CEL</b>	<b>6.98</b>	
<b>MW-1</b>															
1/5/1992	--	49.80	33.16	--	16.64	57,000	2,400	1,000	1,100	3,100	--	--	--	--	
1/10/1992	--	49.80	33.16	--	16.64	--	--	--	--	--	--	--	--	--	
6/5/1992	--	49.80	29.01	--	20.79	31,000	2,800	2,100	800	2,300	--	--	--	--	
7/24/1992	--	49.80	29.45	--	20.35	--	--	--	--	--	--	--	--	--	
7/27/1992	--	49.80	29.45	--	20.35	--	--	--	--	--	--	--	--	--	
9/15/1992	--	49.80	30.53	--	19.27	40,000	3,400	3,000	1,300	3,400	--	--	ANA	--	c
9/15/1992	--	--	--	--	--	36,000	3,800	3,400	1,400	3,800	--	--	ANA	--	d
12/15/1992	--	--	--	--	--	22,000	1,500	440	510	1,300	--	--	ANA	--	d

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-1 Cont.</b>															
12/15/1992	--	49.80	31.26	--	18.54	27,000	1,700	580	700	1,900	--	--	ANA	--	c
3/15/1993	--	--	--	--	--	15,000	1,100	860	440	1,400	--	--	PACE	--	d, l
3/15/1993	--	49.80	24.80	--	25.00	17,000	1,700	1,200	590	1,800	--	--	PACE	--	l
6/7/1993	--	--	--	--	--	720	0.7	0.7	<0.5	<0.5	--	--	PACE	--	d, l
6/7/1993	--	49.80	25.01	--	24.79	750	0.8	0.8	<0.5	<0.5	--	--	PACE	--	l
9/23/1993	--	49.80	28.70	--	21.10	40,000	4,000	500	920	3,000	6,619	--	PACE	--	e, l
12/27/1993	--	49.80	28.66	--	21.14	27,000	2,000	400	940	2,600	13,558	--	PACE	--	e, l
12/27/1993	--	--	--	--	--	21,000	1,700	380	830	2,400	9,219	--	PACE	--	e, l, d
4/5/1994	--	--	--	--	--	29,000	3,700	1,000	1,000	3,100	9,672	1.3	PACE	--	e, l, d
4/5/1994	--	49.80	26.37	--	23.43	27,000	3,400	930	950	2,900	8,595	--	PACE	--	e, l,
7/22/1994	--	49.80	26.54	--	23.26	1,700	220	2.3	2	3.4	262	2.0	PACE	--	e, l
10/13/1994	--	49.80	27.46	--	22.34	1,200	250	21	<0.5	3.2	321	2.6	PACE	--	e, l
1/25/1995	--	49.80	20.96	--	28.84	1,000	420	8	13	4	--	--	ATI	--	
4/19/1995	--	49.80	19.59	--	30.21	5,200	420	51	230	340	--	6.0	ATI	--	
7/5/1995	--	49.80	19.61	--	30.19	320	4.2	<0.50	<0.50	<1.0	--	4.6	ATI	--	
10/5/1995	--	49.80	24.40	--	25.40	5,800	1,000	40	31	180	7,800	2.3	ATI	--	
1/12/1996	--	49.80	25.44	--	24.36	370	<0.50	<0.50	<0.50	<1.0	<5.0	3.7	ATI	--	
4/22/1996	--	49.80	18.02	--	31.78	<50	<0.5	<1	<1	<1	<10	3.9	SPL	--	
7/2/1996	--	49.80	19.72	--	30.08	--	--	--	--	--	--	--	--	--	
7/3/1996	--	49.80	--	--	--	<250	<2.5	<5	<5	<5	<50	3.6	SPL	--	
11/8/1996	--	49.80	19.98	--	29.82	<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	SPL	--	
1/3/1997	--	49.80	19.49	--	30.31	<50	<0.5	14	<1.0	<1.0	<10	4.6	SPL	--	
4/28/1997	--	49.80	20.20	--	29.60	<50	<0.5	<1.0	<1.0	<1.0	<10	3.9	SPL	--	
7/1/1997	--	49.80	22.53	--	27.27	<50	<0.5	<1.0	<1.0	<1.0	<10	3.9	SPL	--	
10/2/1997	--	49.80	24.27	--	25.53	<50	<0.5	<1.0	<1.0	<1.0	<10	4.6	SPL	--	
1/9/1998	--	49.80	21.07	--	28.73	<50	<0.5	<1.0	<1.0	<1.0	<10	4.2	SPL	--	
5/6/1998	--	49.80	14.94	--	34.86	60	<0.5	<1.0	<1.0	<1.0	<10	3.8	SPL	--	
7/21/1998	--	49.80	15.11	--	34.69	70	<0.5	<1.0	<1.0	<1.0	<10	3.8	SPL	--	
12/30/1998	--	49.80	19.95	--	29.85	--	--	--	--	--	--	--	--	--	
2/2/1999	--	49.80	19.12	--	30.68	420	<1.0	<1.0	<1.0	<1.0	390	--	SPL	--	
5/10/1999	--	49.80	15.51	--	34.29	--	--	--	--	--	--	--	--	--	

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**Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-1 Cont.</b>															
9/23/1999	--	49.80	21.65	--	28.15	440	49	<1.0	<1.0	<1.0	910	--	SPL	--	
12/23/1999	--	49.80	22.32	--	27.48	--	--	--	--	--	--	--	--	--	
3/27/2000	--	49.80	15.72	--	34.08	2,500	230	3	83	36	4,400	--	PACE	--	
5/22/2000	--	49.80	16.92	--	32.88	--	--	--	--	--	--	--	--	--	
8/31/2000	--	49.80	20.12	--	29.68	1,700	18	5.5	7.9	5	510	--	PACE	--	
12/11/2000	--	49.80	20.72	--	29.08	--	--	--	--	--	--	--	--	--	
3/20/2001	--	49.80	15.91	--	33.89	880	38.2	<0.5	24.1	<1.5	391	--	PACE	--	
6/19/2001	--	49.80	18.38	--	31.42	--	--	--	--	--	--	--	--	--	
9/20/2001	--	49.80	21.23	--	28.57	3,200	400	19.8	42	32.5	2,510	--	PACE	--	
12/27/2001	--	49.80	16.72	--	33.08	750	70.1	0.536	4.74	3.76	649	--	PACE	--	
2/28/2002	--	49.80	15.25	--	34.55	<50	<0.5	<0.5	<0.5	<1.0	8.7	--	PACE	--	
6/28/2002	--	49.80	16.57	--	33.23	110	0.977	<0.5	0.818	<1.0	8.35	--	PACE	--	
9/12/2002	--	49.80	18.41	--	31.39	98	2.7	1.5	1.5	5.4	48	--	SEQ	6.9	
12/12/2002	--	49.80	20.26	--	29.54	210	1.9	<0.50	<0.50	<0.50	32	--	SEQ	6.8	
3/10/2003	--	49.80	16.22	--	33.58	<50	<0.50	<0.50	<0.50	<0.50	3.2	--	SEQ	6.9	
5/12/2003	--	49.80	14.30	--	35.50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	SEQ	7.1	
8/27/2003	--	49.80	18.15	--	31.65	<50	<0.50	<0.50	<0.50	<0.50	4.2	--	SEQ	7.1	n
11/10/2003	P	49.80	19.24	--	30.56	<50	<0.50	<0.50	<0.50	<0.50	0.51	--	SEQM	6.8	
02/03/2004	P	49.80	14.84	--	34.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.0	
05/04/2004	P	49.80	14.67	--	35.13	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.1	
08/31/2004	P	49.80	17.75	--	32.05	<50	<0.50	<0.50	<0.50	<0.50	0.50	--	SEQM	7.1	
11/23/2004	--	49.80	16.03	--	33.77	--	--	--	--	--	--	--	--	--	
01/18/2005	P	49.80	12.47	--	37.33	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	6.9	
06/29/2005	--	49.80	12.65	--	37.15	--	--	--	--	--	--	--	--	--	
09/01/2005	--	49.80	15.79	--	34.01	--	--	--	--	--	--	--	--	--	
11/03/2005	--	49.80	18.55	--	31.25	--	--	--	--	--	--	--	--	--	
02/14/2006	P	49.80	12.29	--	37.51	51	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.0	w
5/30/2006	--	49.80	12.15	--	37.65	--	--	--	--	--	--	--	--	--	
8/29/2006	--	49.80	16.37	--	33.43	--	--	--	--	--	--	--	--	--	
11/29/2006	--	49.80	18.73	--	31.07	--	--	--	--	--	--	--	--	--	
2/20/2007	P	49.80	14.71	--	35.09	110	<0.50	<0.50	0.58	<0.50	<0.50	3.52	TAMC	7.51	

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Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-1 Cont.</b>															
5/25/2007	--	49.80	15.59	--	34.21	--	--	--	--	--	--	--	--	--	
8/9/2007	--	49.80	18.38	--	31.42	--	--	--	--	--	--	--	--	--	
11/9/2007	--	49.80	20.00	--	29.80	--	--	--	--	--	--	--	--	--	
12/14/2007	--	37.41	19.83	--	17.58	--	--	--	--	--	--	--	--	--	z
2/12/2008	P	37.41	14.00	--	23.41	100	<0.50	<0.50	0.55	<0.50	<0.50	3.66	CEL	7.13	
5/22/2008	--	37.41	16.31	--	21.10	--	--	--	--	--	--	--	--	--	
8/25/2008	--	37.41	19.20	--	18.21	--	--	--	--	--	--	--	--	--	
12/17/2008	--	37.41	--	--	--	--	--	--	--	--	--	--	--	--	g
<b>2/25/2009</b>	<b>P</b>	<b>37.41</b>	<b>16.30</b>	<b>--</b>	<b>21.11</b>	<b>370</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>0.79</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>1.94</b>	<b>CEL</b>	<b>7.17</b>	
<b>MW-2</b>															
1/5/1992	--	51.07	--	--	--	--	--	--	--	--	--	--	--	--	r
1/10/1992	--	51.07	--	--	--	--	--	--	--	--	--	--	--	--	r
6/5/1992	--	51.07	30.05	--	21.02	11,000	2,000	180	490	1,900	--	--	--	--	
7/24/1992	--	51.07	30.72	--	20.35	--	--	--	--	--	--	--	--	--	
7/27/1992	--	51.07	30.52	--	20.55	--	--	--	--	--	--	--	--	--	
9/15/1992	--	51.07	31.56	--	19.51	75,000	2,000	6,500	2,300	13,000	--	--	ANA	--	c
12/15/1992	--	51.07	32.40	--	18.67	34,000	6,200	8,900	2,000	7,900	--	--	ANA	--	c
3/15/1993	--	51.07	26.14	--	24.93	150,000	12,000	18,000	3,200	22,000	82,000	--	PACE	--	e
6/7/1993	--	51.07	26.38	--	24.69	--	--	--	--	--	--	--	--	--	f
9/23/1993	--	51.07	31.43	1.92	17.72	--	--	--	--	--	--	--	--	--	f
12/27/1993	--	51.07	34.07	1.07	15.93	--	--	--	--	--	--	--	--	--	f
4/5/1994	--	51.07	30.44	3.30	17.33	--	--	--	--	--	--	--	--	--	f
7/22/1994	--	51.07	28.51	0.80	21.76	--	--	--	--	--	--	--	--	--	f
10/13/1994	--	51.07	29.33	0.70	21.04	--	--	--	--	--	--	--	--	--	f
1/25/1995	--	51.07	25.55	4.25	21.27	--	--	--	--	--	--	--	--	--	f
4/19/1995	--	51.07	19.78	0.12	31.17	--	--	--	--	--	--	--	--	--	f
7/5/1995	--	51.07	20.88	0.09	30.10	140,000	14,000	30,000	3,500	26,000	--	--	ATI	--	
10/5/1995	--	51.07	24.68	0.10	26.29	--	--	--	--	--	--	--	--	--	f
1/12/1996	--	51.07	25.72	0.06	25.29	--	--	--	--	--	--	--	--	--	f
4/22/1996	--	51.07	19.33	0.08	31.66	--	--	--	--	--	--	--	--	--	f



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Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-2 Cont.</b>															
7/2/1996	--	51.07	20.01	0.04	31.02	--	--	--	--	--	--	--	--	--	f
11/8/1996	--	51.07	20.28	0.01	30.78	--	--	--	--	--	--	--	--	--	f
1/3/1997	--	51.07	19.87	0.02	31.18	--	--	--	--	--	--	--	--	--	f
4/28/1997	--	51.07	20.59	0.01	30.47	560,000	1,200	1,300	290	2,310	6,100	3.9	SPL	--	
7/1/1997	--	--	--	--	--	150,000	14,000	13,000	1,800	14,200	57,000	--	SPL	--	d
7/1/1997	--	51.07	22.90	0.01	28.16	24,000	15,000	16,000	4,900	24,400	63,000	3.7	SPL	--	
10/2/1997	--	51.07	24.65	0.02	26.40	--	--	--	--	--	--	--	--	--	
10/3/1997	--	51.07	--	--	--	250,000	32,000	39,000	6,000	42,000	160,000	4.5	SPL	--	
1/9/1998	--	51.07	21.22	0.01	29.84	420,000	23,000	29,000	5,800	43,000	75,000	4.0	SPL	--	
1/9/1998	--	--	--	--	--	300,000	20,000	25,000	5,200	37,000	84,000	--	SPL	--	d
2/2/1998	--	51.07	20.11	--	30.96	410,000	27,000	43,000	6,700	50,000	20,000	--	SPL	--	
5/6/1998	--	51.07	15.10	0.01	35.96	180,000	25,000	26,000	3,400	22,900	35,000	3.7	SPL	--	
7/21/1998	--	51.07	15.31	0.01	35.75	270,000	21,000	20,000	2,700	18,800	34,000	3.8	SPL	--	
12/30/1998	--	51.07	21.10	0.10	29.87	300,000	22,000	24,000	4,200	26,000	89000/95000	--	SPL	--	j
5/10/1999	--	51.07	16.68	--	34.39	220,000	20,000	20,000	2,800	20,000	100,000	--	SPL	--	
9/23/1999	--	51.07	22.50	--	28.57	160,000	21,000	24,000	2,900	20,000	44,000	--	SPL	--	
12/23/1999	--	51.07	22.64	--	28.43	170,000	25,000	41,000	3,100	24,000	40,000	--	PACE	--	k
3/27/2000	--	51.07	16.88	--	34.19	140,000	15,000	25,000	3,400	21,000	19,000	--	PACE	--	
5/22/2000	--	51.07	17.75	--	33.32	150,000	18,000	31,000	3,500	22,000	26,000	--	PACE	--	
8/31/2000	--	51.07	21.97	--	29.10	200,000	16,000	26,000	2,500	16,000	38,000	--	PACE	--	
12/11/2000	--	51.07	22.05	--	29.02	130,000	18,600	30,000	3,250	20,600	21,700	--	PACE	--	
3/20/2001	--	51.07	17.75	--	33.32	140,000	15,900	24,800	3,700	22,100	12,900	--	PACE	--	
6/19/2001	--	51.07	20.15	--	30.92	130,000	15,100	19,500	3,300	21,400	20,300	--	PACE	--	
9/20/2001	--	51.07	22.14	--	28.93	110,000	12,400	12,600	2,230	13,000	39,500	--	PACE	--	
12/27/2001	--	51.07	18.17	--	32.90	150,000	17,500	26,000	3,050	19,500	27,500	--	PACE	--	
2/28/2002	--	51.07	17.42	--	33.65	120,000	13,900	18,800	3,030	19,600	17,300	--	PACE	--	
6/28/2002	--	51.07	17.04	--	34.03	3,700	190	23.3	139	287	826	--	PACE	--	u
9/12/2002	--	51.07	19.52	--	31.55	100,000	13,000	22,000	3,600	20,000	18,000	--	SEQ	6.6	
12/12/2002	--	51.07	21.08	--	29.99	120,000	13,000	21,000	4,400	25,000	16,000	--	SEQ	6.6	
3/10/2003	--	51.07	17.84	--	33.23	100,000	17,000	21,000	3,400	20,000	4,400	--	SEQ	6.8	
5/12/2003	--	51.07	16.66	--	34.41	150,000	16,000	24,000	3,500	22,000	3,600	--	SEQ	7.1	

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Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-2 Cont.</b>															
8/27/2003	--	51.07	19.65	--	31.42	120,000	14,000	12,000	3,900	20,000	5,100	--	SEQ	6.9	n
11/10/2003	P	51.07	20.80	--	30.27	97,000	12,000	9,500	3,600	15,000	4,200	--	SEQM	6.7	
02/03/2004	P	51.07	16.82	--	34.25	130,000	14,000	19,000	3,400	20,000	1,900	--	SEQM	6.8	
05/04/2004	P	51.07	16.19	--	34.88	120,000	12,000	16,000	3,700	22,000	2,500	--	SEQM	6.7	
08/31/2004	P	51.07	19.50	--	31.57	99,000	10,000	13,000	3,700	18,000	3,400	--	SEQM	6.8	
11/23/2004	P	51.07	18.20	--	32.87	110,000	8,200	17,000	4,000	23,000	2,400	--	SEQM	6.7	s
01/18/2005	P	51.07	14.91	--	36.16	96,000	6,500	14,000	3,500	21,000	3,700	--	SEQM	6.6	
06/29/2005	P	51.07	13.98	--	37.09	54,000	6,200	4,900	3,300	12,000	3,600	--	SEQM	7.3	
09/01/2005	P	51.07	17.00	--	34.07	58,000	6,300	6,000	3,300	15,000	5,100	--	SEQM	7.0	
11/03/2005	P	51.07	20.25	--	30.82	63,000	7,400	3,700	3,300	10,000	3,700	0.66	SEQM	6.7	
02/14/2006	P	51.07	13.72	--	37.35	97,000	7,500	11,000	4,300	16,000	3,400	--	SEQM	6.9	
5/30/2006	P	51.07	13.50	--	37.57	28,000	5,200	2,500	1,500	3,300	2,300	--	SEQM	6.7	
8/29/2006	--	51.07	18.16	--	32.91	65,000	7,200	4,500	3,200	11,000	13,000	--	TAMC	6.7	
11/29/2006	P	51.07	20.06	--	31.01	46,000	8,500	4,600	3,300	10,000	11,000	0.56	TAMC	6.91	
2/20/2007	P	51.07	16.43	--	34.64	78,000	9,700	12,000	4,100	16,000	10,000	1.08	TAMC	7.11	
5/25/2007	P	51.07	16.80	SHEEN	34.27	62,000	7,400	9,500	4,100	15,000	3,400	0.10	TAMC	6.83	
8/9/2007	P	51.07	19.55	SHEEN	31.52	58,000	7,400	5,000	3,800	12,000	4,100	0.72	TAMC	7.01	
11/9/2007	P	51.07	21.53	--	29.54	49,000	6,300	3,300	2,900	8,300	9,500	1.05	TAMC	7.10	aa
<b>MW-3</b>															
1/5/1992	--	49.95	33.69	--	16.26	7,400	790	23	210	40	--	--	--	--	
1/10/1992	--	49.95	33.74	--	16.21	--	--	--	--	--	--	--	--	--	
6/5/1992	--	49.95	29.65	--	20.30	2,000	130	5.3	93	20	--	--	--	--	
7/24/1992	--	49.95	30.14	--	19.81	--	--	--	--	--	--	--	--	--	
7/27/1992	--	49.95	30.14	--	19.81	--	--	--	--	--	--	--	--	--	
9/15/1992	--	49.95	31.07	--	18.88	450	55	3.1	34	7.1	--	--	ANA	--	
12/15/1992	--	49.95	31.93	--	18.02	12,000	940	<50	310	120	--	--	ANA	--	c
3/15/1993	--	49.95	25.71	--	24.24	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	l
6/7/1993	--	49.95	25.80	--	24.15	150	3.6	<0.5	0.9	1.3	--	--	PACE	--	l
9/23/1993	--	49.95	29.18	--	20.77	--	--	--	--	--	--	--	--	--	
9/24/1993	--	49.95	--	--	--	160	8.4	<0.5	3.7	1.3	15.3	--	PACE	--	l

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Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-3 Cont.</b>															
12/27/1993	--	49.95	29.25	--	20.70	9,400	1,100	48	530	120	2,871	--	PACE	--	e,l
4/5/1994	--	49.95	26.84	--	23.11	7,000	860	19	330	52	10,414	2.0	PACE	--	l
7/22/1994	--	49.95	26.90	--	23.05	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.1	PACE	--	l
10/13/1994	--	49.95	27.83	--	22.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.6	PACE	--	l
1/25/1995	--	49.95	21.65	--	28.30	<50	<0.5	<0.5	<0.5	<1	--	--	ATI	--	
4/19/1995	--	49.95	19.33	--	30.62	2,400	170	8	130	27	--	5.0	ATI	--	
7/5/1995	--	49.95	20.27	--	29.68	<50	<0.50	<0.50	<0.50	<1.0	--	4.4	ATI	--	
10/5/1995	--	49.95	23.73	--	26.22	2,300	210	3.1	10	5.1	2,400	4.2	ATI	--	
1/12/1996	--	49.95	24.84	--	25.11	<50	<0.50	<0.50	<0.50	<1.0	<5.0	4.1	ATI	--	
4/22/1996	--	49.95	18.60	--	31.35	<50	<0.5	<1	<1	<1	<10	4.4	SPL	--	
7/2/1996	--	49.95	18.88	--	31.07	<50	<0.5	<1	<1	<1	<10	4.2	SPL	--	
11/8/1996	--	49.95	19.14	--	30.81	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	SPL	--	
1/3/1997	--	49.95	18.72	--	31.23	<50	<0.5	<1.0	<1.0	<1.0	<10	4.6	SPL	--	
4/28/1997	--	49.95	19.38	--	30.57	<50	<0.5	<1.0	<1.0	<1.0	<10	4.2	SPL	--	
7/1/1997	--	49.95	21.65	--	28.30	<50	<0.5	<1.0	<1.0	<1.0	<10	3.8	SPL	--	
10/2/1997	--	49.95	23.45	--	26.50	<50	<0.5	<1.0	<1.0	<1.0	<10	4.5	SPL	--	
1/9/1998	--	49.95	20.10	--	29.85	<50	<0.5	<1.0	<1.0	<1.0	<10	4.1	SPL	--	
5/6/1998	--	49.95	15.57	--	34.38	<50	<0.5	<1.0	<1.0	<1.0	<10	3.8	SPL	--	
7/21/1998	--	49.95	15.88	--	34.07	51	<0.5	<1.0	<1.0	<1.0	<10	3.8	SPL	--	
7/21/1998	--	--	--	--	--	60	<0.5	<1.0	<1.0	<1.0	<10	--	SPL	--	d
12/30/1998	--	49.95	20.30	--	29.65	--	--	--	--	--	--	--	SPL	--	
2/2/1999	--	49.95	19.75	--	30.20	<50	<1.0	<1.0	<1.0	<1.0	<10	--	SPL	--	
5/10/1999	--	49.95	16.17	--	33.78	--	--	--	--	--	--	--	--	--	
9/23/1999	--	49.95	22.05	--	27.90	--	--	--	--	--	--	--	--	--	
12/23/1999	--	49.95	22.55	--	27.40	--	--	--	--	--	--	--	--	--	
3/27/2000	--	49.95	16.40	--	33.55	350	22	<0.5	<0.5	<0.5	580	--	PACE	--	
5/22/2000	--	49.95	9.49	--	40.46	--	--	--	--	--	--	--	--	--	t
8/31/2000	--	49.95	13.02	--	36.93	--	--	--	--	--	--	--	--	--	t
12/11/2000	--	49.95	13.30	--	36.65	--	--	--	--	--	--	--	--	--	t
3/20/2001	--	49.95	16.49	--	33.46	1,000	66.4	0.597	6.96	<1.5	398	--	PACE	--	
6/19/2001	--	49.95	18.82	--	31.13	--	--	--	--	--	--	--	--	--	

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Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-3 Cont.</b>															
9/20/2001	--	49.95	21.59	--	28.36	230	<0.5	0.593	<0.5	<1.5	289	--	PACE	--	
12/27/2001	--	49.95	17.37	--	32.58	--	--	--	--	--	--	--	--	--	
2/28/2002	--	49.95	15.81	--	34.14	<50	<0.5	<0.5	<0.5	<1.0	0.58	--	PACE	--	
6/28/2002	--	49.95	17.09	--	32.86	--	--	--	--	--	--	--	--	--	
9/12/2002	--	49.95	18.80	--	31.15	52	3.3	8.6	1.7	12	11	--	SEQ	7.0	
12/12/2002	--	49.95	20.57	--	29.38	--	--	--	--	--	--	--	--	--	
3/10/2003	--	49.95	16.68	--	33.27	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	SEQ	7.0	
5/12/2003	--	49.95	14.72	--	35.23	--	--	--	--	--	--	--	--	--	
8/27/2003	--	49.95	18.50	--	31.45	<50	<0.50	<0.50	<0.50	0.5	<0.50	--	--	7.1	n
11/10/2003	--	49.95	19.66	--	30.29	--	--	--	--	--	--	--	--	--	
02/03/2004	P	49.95	15.33	--	34.62	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.0	
08/31/2004	P	49.95	18.13	--	31.82	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.1	
11/23/2004	--	49.95	16.48	--	33.47	--	--	--	--	--	--	--	--	--	
01/18/2005	P	49.95	13.06	--	36.89	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	6.9	
06/29/2005	--	49.95	13.00	--	36.95	--	--	--	--	--	--	--	--	--	
09/01/2005	--	49.95	16.00	--	33.95	--	--	--	--	--	--	--	--	--	
11/03/2005	--	49.95	18.91	--	31.04	--	--	--	--	--	--	--	--	--	
02/14/2006	P	49.95	12.90	--	37.05	86	<0.50	<0.50	<0.50	0.55	<0.50	--	SEQM	7.3	
5/30/2006	--	49.95	12.55	--	37.40	--	--	--	--	--	--	--	--	--	
8/29/2006	--	49.95	16.68	--	33.27	--	--	--	--	--	--	--	--	--	
11/29/2006	--	49.95	19.10	--	30.85	--	--	--	--	--	--	--	--	--	
2/20/2007	P	49.95	15.29	--	34.66	56	<0.50	<0.50	<0.50	<0.50	0.89	2.27	TAMC	7.59	
5/25/2007	--	49.95	15.94	--	34.01	--	--	--	--	--	--	--	--	--	
8/9/2007	--	49.95	18.70	--	31.25	--	--	--	--	--	--	--	--	--	
11/9/2007	--	49.95	20.27	--	29.68	--	--	--	--	--	--	--	--	--	
12/14/2007	--	37.56	20.21	--	17.35	--	--	--	--	--	--	--	--	--	z
2/11/2008	P	37.56	14.68	--	22.88	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.40	CEL	7.00	
5/22/2008	--	37.56	16.64	--	20.92	--	--	--	--	--	--	--	--	--	
8/25/2008	--	37.56	19.40	--	18.16	--	--	--	--	--	--	--	--	--	
12/17/2008	--	37.56	22.13	--	15.43	--	--	--	--	--	--	--	--	--	
<b>2/25/2009</b>	<b>P</b>	<b>37.56</b>	<b>16.81</b>	<b>--</b>	<b>20.75</b>	<b>71</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>1.29</b>	<b>CEL</b>	<b>7.28</b>	

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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-3</b>															
<b>MW-4</b>															
7/24/1992	--	50.76	30.02	--	20.74	42,000	3,200	3,600	1,400	4,100	--	--	--	--	
7/27/1992	--	50.76	30.02	--	20.74	--	--	--	--	--	--	--	--	--	
9/15/1992	--	50.76	31.14	--	19.62	55,000	7,600	13,000	2,800	9,500	--	--	ANA	--	c
12/15/1992	--	50.76	31.98	--	18.78	36,000	3,700	4,700	1,200	4,000	--	--	ANA	--	c
3/15/1993	--	50.76	25.34	--	25.42	69,000	7,600	15,000	2,500	11,000	--	--	PACE	--	l
6/7/1993	--	50.76	25.67	--	25.09	73,000	10,000	19,000	3,400	14,000	--	--	PACE	--	l
9/23/1993	--	50.76	29.37	--	21.39	--	--	--	--	--	--	--	--	--	
9/24/1993	--	--	--	--	--	59,000	5,300	10,000	2,200	8,400	309	--	PACE	--	d
9/24/1993	--	50.76	--	--	--	68,000	11,000	2,100	8,600	990	390	--	PACE	--	l
12/27/1993	--	50.76	29.40	--	21.36	32,000	2,500	4,400	1,300	4,400	387	--	PACE	--	l
4/5/1994	--	50.76	27.09	--	23.67	64,000	6,500	14,000	1,900	9,600	413	1.4	PACE	--	l
7/22/1994	--	50.76	27.33	--	23.43	85,000	10,000	20,000	3,200	13,000	796	0.8	PACE	--	l
7/22/1994	--	--	--	--	--	85,000	11,000	21,000	3,300	14,000	435	--	PACE	--	d, l
10/13/1994	--	50.76	28.25	--	22.51	51,000	7,100	13,000	2,100	8,900	506	2.9	PACE	--	e, l
10/13/1994	--	--	--	--	--	51,000	7,400	13,000	2,100	9,100	773	--	PACE	--	d, l
1/25/1995	--	--	--	--	--	28,000	4,200	12,000	1,500	7,800	--	--	ATI	--	d, l
1/25/1995	--	50.76	21.85	--	28.91	26,000	3,600	9,600	1,200	6,400	--	--	ATI	--	
4/19/1995	--	50.76	19.44	--	31.32	89,000	12,000	24,000	3,500	18,000	--	5.1	ATI	--	
4/19/1995	--	--	--	--	--	100,000	12,000	26,000	3,800	21,000	--	--	ATI	--	d
7/5/1995	--	50.76	20.52	--	30.24	130,000	13,000	29,000	3,300	25,000	--	4.3	ATI	--	
10/5/1995	--	50.76	24.23	--	26.53	110,000	10,000	23,000	3,600	17,000	34,000	2.1	ATI	--	
1/12/1996	--	--	--	--	--	40,000	3,500	9,000	1,200	8,700	4,300	--	ATI	--	d
1/12/1996	--	50.76	25.34	--	25.42	46,000	3,500	8,300	1,100	8,000	3,000	3.3	ATI	--	
4/22/1996	--	50.76	19.13	--	31.63	40,000	5,100	9,600	980	11,800	29,000	3.2	SPL	--	
4/22/1996	--	--	--	--	--	61,000	8,300	16,000	1,600	15,200	36,000	--	SPL	--	d
7/2/1996	--	50.76	20.67	--	30.09	74,000	9,800	21,000	2,100	16,600	41,000	3.4	SPL	--	
7/2/1996	--	--	--	--	--	78,000	9,800	21,000	1,900	15,300	42,000	--	SPL	--	d
11/8/1996	--	--	--	--	--	110,000	9,100	20,000	3,000	15,400	39,000	--	SPL	--	d
11/8/1996	--	50.76	20.95	--	29.81	100,000	7,900	16,000	2,500	13,700	37,000	3.7	SPL	--	

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Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-4 Cont.</b>															
1/3/1997	--	50.76	20.54	--	30.22	99,000	17,000	30,000	4,300	22,700	79,000	4.2	SPL	--	
1/3/1997	--	--	--	--	--	66,000	12,000	19,000	2,900	15,000	69,000	--	SPL	--	d
4/28/1997	--	--	--	--	--	110,000	11,000	26,000	3,200	18,200	34,000	--	SPL	--	d
4/28/1997	--	50.76	21.28	--	29.48	130,000	12,000	28,000	3,800	21,000	37,000	3.9	SPL	--	
7/1/1997	--	50.76	23.61	--	27.15	110,000	16,000	25,000	4,900	24,400	37,000	3.6	SPL	--	
10/2/1997	--	50.76	25.39	--	25.37	--	--	--	--	--	--	--	--	--	
10/3/1997	--	--	--	--	--	71,000	8,600	8,700	2,900	13,500	84,000	--	SPL	--	d
10/3/1997	--	50.76	--	--	--	66,000	8,200	8,600	2,700	13,400	80,000	4.4	SPL	--	
1/9/1998	--	50.76	21.25	--	29.51	100,000	9,700	3,200	1,500	4,700	92,000	3.8	SPL	--	
5/6/1998	--	--	--	--	--	440,000	8,000	39,000	14,000	70,000	<5000	--	SPL	--	d
5/6/1998	--	50.76	15.96	--	34.80	430,000	6,900	31,000	11,000	56,000	<5000	3.9	SPL	--	
7/21/1998	--	--	--	--	--	210,000	11,000	27,000	5,600	26,800	29,000	--	SPL	--	d
7/21/1998	--	50.76	16.10	--	34.66	250,000	11,000	26,000	5,500	26,900	29,000	3.7	SPL	--	
12/30/1998	--	50.76	20.91	--	29.85	370,000	11,000	22,000	8,500	40,000	90000/92000	--	SPL	--	j
2/2/1999	--	50.76	20.13	--	30.63	190,000	4,100	19,000	4,800	32,000	28,000	--	SPL	--	
5/10/1999	--	50.76	16.63	--	34.13	2,700	23	7.1	8.1	25	120	--	SPL	--	
9/23/1999	--	50.76	22.48	--	28.28	180,000	11,000	29,000	7,000	38,000	12,000	--	SPL	--	
12/23/1999	--	50.76	22.94	--	27.82	66,000	6,300	5,200	2,200	7,800	35,000	--	PACE	--	k
3/27/2000	--	50.76	16.84	--	33.92	120,000	8,700	12,000	3,800	16,000	27,000	--	PACE	--	
5/22/2000	--	50.76	17.85	--	32.91	110,000	7,600	16,000	4,400	20,000	25,000	--	PACE	--	
8/31/2000	--	50.76	21.71	--	29.05	110,000	8,800	7,600	3,400	14,000	18,000	--	PACE	--	
12/11/2000	--	50.76	22.05	--	28.71	70,000	4,580	3,480	2,550	9,220	24,400	--	PACE	--	
3/20/2001	--	50.76	17.68	--	33.08	100,000	7,100	4,530	2,540	9,370	63,100	--	PACE	--	
6/19/2001	--	50.76	19.40	--	31.36	180,000	7,430	14,600	5,400	25,300	36,100	--	PACE	--	
9/20/2001	--	50.76	22.01	0.03	28.75	--	--	--	--	--	--	--	--	--	f, m
12/27/2001	--	50.76	17.96	--	32.80	120,000	6,880	9,030	2,840	14,600	32,300	--	PACE	--	
2/28/2002	--	50.76	17.06	--	33.70	80,000	4,920	5,450	2,220	12,300	35,900	--	PACE	--	
6/28/2002	--	50.76	17.76	--	33.00	48,000	2,780	2,770	1,530	6,790	25,100	--	PACE	--	
9/12/2002	--	50.76	19.45	--	31.31	46,000	4,500	6,800	2,600	10,000	9,100	--	SEQ	6.8	
12/12/2002	--	50.76	21.29	--	29.47	36,000	5,200	3,400	2,000	6,500	12,000	--	SEQ	6.7	
3/10/2003	--	50.76	17.16	--	33.60	70,000	7,000	4,800	3,300	13,000	29,000	--	SEQ	6.7	

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-4 Cont.</b>															
5/12/2003	--	50.76	14.51	--	36.25	75,000	7,600	3,700	3,400	13,000	26,000	--	SEQ	6.8	
8/27/2003	--	50.76	19.32	--	31.44	77,000	7,500	1,300	2,100	4,000	32,000	--	SEQ	6.8	n, s
11/10/2003	P	50.76	20.36	--	30.40	110,000	7,100	3,100	2,100	5,800	25,000	--	SEQM	6.6	
02/03/2004	P	50.76	16.51	--	34.25	160,000	8,400	9,700	5,000	23,000	26,000	--	SEQM	6.7	
05/04/2004	P	50.76	16.47	--	34.29	110,000	8,100	7,500	4,300	17,000	<250	--	SEQM	6.7	
08/31/2004	P	50.76	19.16	--	31.60	91,000	6,600	8,400	3,700	14,000	14,000	--	SEQM	6.7	
11/23/2004	P	50.76	18.02	--	32.74	7,400,000	20,000	150,000	320,000	1,400,000	23,000	--	SEQM	6.6	s
01/18/2005	P	50.76	14.21	--	36.55	170,000	5,400	14,000	6,900	33,000	8,800	--	SEQM	6.5	s
06/29/2005	P	50.76	13.86	--	36.90	640,000	3,500	25,000	24,000	110,000	1,700	--	SEQM	7.2	
09/01/2005	P	50.76	16.89	--	33.87	100,000	3,800	11,000	4,900	33,000	1,100	--	SEQM	6.7	
11/03/2005	P	50.76	19.33	--	31.43	490,000	4,700	11,000	10,000	49,000	1,500	0.5	SEQM	6.6	
02/14/2006	P	50.76	13.55	--	37.21	970,000	60,000	7,000	36,000	140,000	38,000	--	SEQM	6.8	s
5/30/2006	P	50.76	13.52	--	37.24	140,000	3,000	6,600	6,200	29,000	560	--	SEQM	6.6	
8/29/2006	--	50.76	17.52	--	33.24	52,000	4,700	2,500	3,500	12,000	1,800	--	TAMC	6.7	
11/29/2006	--	50.76	19.93	0.11	30.91	--	--	--	--	--	--	--	--	--	f
2/20/2007	P	50.76	16.14	SHEEN	34.62	68,000	8,400	2,600	4,100	13,000	15,000	1.03	TAMC	6.95	
5/25/2007	P	50.76	16.65	SHEEN	34.11	37,000	5,100	1,200	2,800	6,900	3,500	1.13	TAMC	6.82	
8/9/2007	P	50.76	19.29	--	31.47	180,000	5,600	7,700	5,700	21,000	2,900	0.72	TAMC	7.02	y (XYLENES)
11/9/2007	P	50.76	21.27	SHEEN	29.49	110,000	3,300	2,400	3,600	13,000	1,200	0.73	TAMC	7.07	s
12/14/2007	--	38.35	21.10	--	17.25	--	--	--	--	--	--	--	--	--	z
2/11/2008	--	38.35	15.45	0.01	22.91	--	--	--	--	--	--	--	--	--	f
5/22/2008	P	38.35	17.44	SHEEN	20.91	48,000	4,500	880	1,400	5,000	1,000	1.10	CEL	6.70	
8/25/2008	--	38.35	20.32	0.05	18.07	--	--	--	--	--	--	--	--	--	f, bb
12/17/2008	P	38.35	22.20	--	16.15	45,000	3,300	520	910	3,000	270	0.40	CEL	6.83	
<b>2/25/2009</b>	<b>P</b>	<b>38.35</b>	<b>17.60</b>	<b>--</b>	<b>20.75</b>	<b>39,000</b>	<b>4,600</b>	<b>2,100</b>	<b>1,800</b>	<b>6,300</b>	<b>1,300</b>	<b>0.33</b>	<b>CEL</b>	<b>6.79</b>	
<b>MW-6</b>															
7/24/1992	--	50.32	30.63	--	19.69	--	1.6	--	--	--	--	--	--	--	
7/27/1992	--	50.32	30.63	--	19.69	--	--	--	--	--	--	--	--	--	
9/15/1992	--	50.32	31.52	--	18.80	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	
12/15/1992	--	50.32	32.42	--	17.90	58	1.3	<0.5	<0.5	<0.5	--	--	ANA	--	

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Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-6 Cont.</b>															
3/15/1993	--	50.32	26.29	--	24.03	<50	<0.5	0.6	<0.5	0.7	--	--	PACE	--	1
6/7/1993	--	50.32	26.33	--	23.99	<50	<0.5	<0.5	<0.5	1.5	--	--	PACE	--	1
9/23/1993	--	50.32	29.64	--	20.68	--	--	--	--	--	--	--	--	--	
9/24/1993	--	50.32	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	28.5	--	PACE	--	1
12/27/1993	--	50.32	29.75	--	20.57	<50	<0.5	<0.5	<0.5	<0.5	55.4	--	PACE	--	e,l
4/5/1994	--	50.32	27.26	--	23.06	<50	<0.5	<0.5	<0.5	<0.5	295	1.7	PACE	--	e,l
7/22/1994	--	50.32	27.34	--	22.98	350	<0.5	<0.5	<0.5	<0.5	419	4.5	PACE	--	e,l
10/13/1994	--	50.32	--	--	--	--	--	--	--	--	--	--	--	--	g
1/25/1995	--	50.32	22.16	--	28.16	240	6	<0.5	<0.5	<1	--	--	ATI	--	
4/19/1995	--	50.32	--	--	--	--	--	--	--	--	--	--	--	--	g
7/5/1995	--	50.32	20.80	--	29.52	180	<0.50	<0.50	<0.50	<1.0	--	4.9	ATI	--	
10/5/1995	--	50.32	24.20	--	26.12	860	<5.0	<5.0	<5.0	<10	3,600	2.8	ATI	--	
1/12/1996	--	50.32	25.30	--	25.02	860	<5.0	<5.0	<5.0	<10	2,800	4.2	ATI	--	
4/22/1996	--	50.32	19.13	--	31.19	<50	<0.5	<1	<1	<1	470	4.3	SPL	--	
7/2/1996	--	50.32	20.66	--	29.66	100	<0.5	<1	<1	<1	1,100	4.2	SPL	--	
11/8/1996	--	50.32	20.98	--	29.34	1,100	<5	<10	<10	<10	1,500	4.3	SPL	--	
1/3/1997	--	50.32	20.53	--	29.79	<50	<0.5	<1.0	<1.0	<1.0	450	4.5	SPL	--	
4/28/1997	--	50.32	21.25	--	29.07	1,400	<0.5	<1.0	<1.0	<1.0	3,500	4.4	SPL	--	
7/1/1997	--	50.32	23.40	--	26.92	6,100	<0.5	<1.0	<1.0	<1.0	9,100	3.9	SPL	--	
10/2/1997	--	50.32	25.16	--	25.16	--	--	--	--	--	--	--	--	--	
10/3/1997	--	50.32	--	--	--	330	<0.5	<1.0	<1.0	<1.0	2,600	4.4	SPL	--	
1/9/1998	--	50.32	21.13	--	29.19	<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	SPL	--	
5/6/1998	--	50.32	16.11	--	34.21	410	<0.5	<1.0	<1.0	<1.0	500	3.6	SPL	--	
7/21/1998	--	50.32	16.33	--	33.99	4,300	<5	<10	<10	<10	3,800	4.0	SPL	--	
12/30/1998	--	50.32	20.89	--	29.43	--	--	--	--	--	--	--	--	--	
2/2/1999	--	50.32	20.20	--	30.12	--	--	--	--	--	--	--	--	--	
5/10/1999	--	50.32	16.75	--	33.57	--	--	--	--	--	--	--	--	--	
9/23/1999	--	50.32	22.55	--	27.77	<50	<1.0	<1.0	<1.0	<1.0	1,600	--	SPL	--	
12/23/1999	--	50.32	23.00	--	27.32	--	--	--	--	--	--	--	--	--	
3/27/2000	--	50.32	16.89	--	33.43	1,700	4.4	0.54	<0.5	1	14,000	--	PACE	--	
5/22/2000	--	50.32	18.02	--	32.30	--	--	--	--	--	--	--	--	--	



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Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-6 Cont.</b>															
8/31/2000	--	50.32	21.62	--	28.70	1,200	<0.5	<0.5	<0.5	<0.5	3,900	--	PACE	--	
12/11/2000	--	50.32	21.81	--	28.51	--	--	--	--	--	--	--	--	--	
3/20/2001	--	50.32	16.97	--	33.35	3,300	<0.5	<0.5	<0.5	<1.5	3,760	--	PACE	--	
6/19/2001	--	50.32	19.30	--	31.02	--	--	--	--	--	--	--	--	--	
9/20/2001	--	50.32	22.00	--	28.32	2,200	2.04	8.1	3.62	13.7	2,460	--	PACE	--	
12/27/2001	--	50.32	17.85	--	32.47	830	0.59	<0.5	<0.5	<1.0	1,040	--	PACE	--	
2/28/2002	--	50.32	16.31	--	34.01	1,100	<0.5	<0.5	<0.5	<1.0	1,450	--	PACE	--	
6/28/2002	--	50.32	17.57	--	32.75	<50	<0.5	<0.5	<0.5	<1.0	1,020	--	PACE	--	
9/12/2002	--	50.32	19.27	--	31.05	190	1.9	4.6	1	7.3	480	--	SEQ	7.1	
12/12/2002	--	50.32	20.94	--	29.38	270	<2.5	<2.5	<2.5	<2.5	500	--	SEQ	6.9	
3/10/2003	--	50.32	17.11	--	33.21	110	<0.50	<0.50	<0.50	<0.50	190	--	SEQ	7.0	
5/12/2003	--	50.32	15.18	--	35.14	<50	<0.50	<0.50	<0.50	<0.50	36	--	SEQ	7.0	
8/27/2003	--	50.32	18.90	--	31.42	<50	<0.50	<0.50	<0.50	<0.50	8.9	--	SEQ	7.0	n
11/10/2003	P	50.32	20.13	--	30.19	<50	<0.50	<0.50	<0.50	<0.50	4.5	--	SEQM	6.8	
02/03/2004	NP	50.32	15.83	--	34.49	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	6.9	
05/04/2004	P	50.32	15.62	--	34.70	<50	<0.50	<0.50	<0.50	<0.50	24	--	SEQM	6.9	
08/31/2004	P	50.32	18.56	--	31.76	<50	<0.50	<0.50	<0.50	<0.50	27	--	SEQM	7.0	
11/23/2004	--	50.32	16.95	--	33.37	--	--	--	--	--	--	--	--	--	
01/18/2005	P	50.32	13.61	--	36.71	<50	<0.50	<0.50	<0.50	<0.50	1.3	--	SEQM	6.8	
06/29/2005	--	50.32	13.55	--	36.77	--	--	--	--	--	--	--	--	--	
09/01/2005	--	50.32	16.52	--	33.80	--	--	--	--	--	--	--	--	--	
11/03/2005	--	50.32	19.28	--	31.04	--	--	--	--	--	--	--	--	--	
02/14/2006	--	50.32	--	--	--	--	--	--	--	--	--	--	--	--	g
5/30/2006	--	50.32	--	--	--	--	--	--	--	--	--	--	--	--	g
8/29/2006	--	50.32	17.15	--	33.17	--	--	--	--	--	--	--	--	--	
11/29/2006	--	50.32	19.50	--	30.82	--	--	--	--	--	--	--	--	--	
2/20/2007	P	50.32	15.81	--	34.51	<50	<0.50	<0.50	<0.50	<0.50	24	1.59	TAMC	7.60	
5/25/2007	--	50.32	16.38	--	33.94	--	--	--	--	--	--	--	--	--	
8/9/2007	--	50.32	19.15	--	31.17	--	--	--	--	--	--	--	--	--	
11/9/2007	--	50.32	20.70	--	29.62	--	--	--	--	--	--	--	--	--	
12/14/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to survey

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**Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-6 Cont.</b>															
2/11/2008	P	--	15.08	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.07	CEL	6.84	
5/22/2008	--	50.32	17.07	--	33.25	--	--	--	--	--	--	--	--	--	
8/25/2008	--	50.32	19.82	--	30.50	--	--	--	--	--	--	--	--	--	
12/17/2008	--	50.32	21.58	--	28.74	--	--	--	--	--	--	--	--	--	
<b>2/25/2009</b>	<b>P</b>	<b>50.32</b>	<b>17.34</b>	<b>--</b>	<b>32.98</b>	<b>120</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>13</b>	<b>1.17</b>	<b>CEL</b>	<b>7.00</b>	
<b>MW-7</b>															
1/25/1995	--	51.40	21.67	--	29.73	<50	<0.5	<0.5	<0.5	<1	--	7.0	ATI	--	
4/19/1995	--	51.40	25.27	--	26.13	<50	<0.5	<0.5	<0.5	<1	--	5.0	ATI	--	
7/5/1995	--	51.40	24.63	--	26.77	<50	<0.50	<0.50	<0.50	<1.0	--	4.2	ATI	--	
10/5/1995	--	51.40	28.21	--	23.19	83	<0.50	<0.50	<0.50	<1.0	77	4.5	ATI	--	
1/12/1996	--	51.40	29.29	--	22.11	63	<0.50	<0.50	<0.50	<1.0	120	4.8	ATI	--	
4/22/1996	--	51.40	23.11	--	28.29	<50	<0.5	<1	<1	<1	13	4.8	SPL	--	
7/2/1996	--	51.40	23.56	--	27.84	<50	<0.5	<1	<1	<1	<10	4.8	SPL	--	
11/8/1996	--	51.40	20.06	--	31.34	<50	<0.5	<1.0	<1.0	<1.0	<10	5.1	SPL	--	
1/3/1997	--	51.40	23.42	--	27.98	<50	<0.5	<1.0	<1.0	<1.0	<10	4.7	SPL	--	
4/28/1997	--	51.40	24.12	--	27.28	<50	<0.5	<1.0	<1.0	<1.0	<10	3.9	SPL	--	
7/1/1997	--	51.40	26.40	--	25.00	<50	<0.5	<1.0	<1.0	<1.0	<10	4.2	SPL	--	
10/2/1997	--	51.40	28.14	--	23.26	<50	<0.5	<1.0	<1.0	<1.0	<10	4.7	SPL	--	
1/9/1998	--	51.40	24.02	--	27.38	<50	<0.5	<1.0	<1.0	<1.0	<10	4.1	SPL	--	
5/6/1998	--	51.40	21.00	--	30.40	1,900	<0.5	<1.0	<1.0	<1.0	1,800	3.5	SPL	--	
7/21/1998	--	51.40	21.17	--	30.23	50	<0.5	<1.0	<1.0	<1.0	<10	3.7	SPL	--	
12/30/1998	--	51.40	22.13	--	29.27	--	--	--	--	--	--	--	--	--	
2/2/1999	--	51.40	22.08	--	29.32	--	--	--	--	--	--	--	--	--	
5/10/1999	--	51.40	18.58	--	32.82	--	--	--	--	--	--	--	--	--	
9/23/1999	--	51.40	24.29	--	27.11	70	<1.0	<1.0	<1.0	<1.0	4,700	--	SPL	--	
12/23/1999	--	51.40	24.53	--	26.87	--	--	--	--	--	--	--	--	--	
3/27/2000	--	51.40	18.58	--	32.82	910	<0.5	<0.5	<0.5	<0.5	2,600	--	PACE	--	
5/22/2000	--	51.40	19.49	--	31.91	--	--	--	--	--	--	--	--	--	
8/31/2000	--	51.40	22.53	--	28.87	440	<0.5	<0.5	<0.5	<0.5	900	--	PACE	--	
12/11/2000	--	51.40	22.75	--	28.65	--	--	--	--	--	--	--	--	--	

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-7 Cont.															
3/20/2001	--	51.40	18.79	--	32.61	1,100	<0.5	<0.5	<0.5	<1.5	1,210	--	PACE	--	
6/19/2001	--	51.40	19.82	--	31.58	--	--	--	--	--	--	--	--	--	
9/20/2001	--	51.40	21.35	--	30.05	1,300	1.21	<0.5	<0.5	<1.5	1,550	--	PACE	--	
12/27/2001	--	51.40	20.36	--	31.04	510	<0.5	<0.5	<0.5	<1.0	643	--	PACE	--	
2/28/2002	--	51.40	21.86	--	29.54	250	<0.5	<0.5	<0.5	<1.0	317	--	PACE	--	
6/28/2002	--	51.40	22.64	--	28.76	<50	<0.5	<0.5	<0.5	<1.0	102	--	PACE	--	
9/12/2002	--	51.40	23.51	--	27.89	<50	<0.5	<0.5	<0.5	1	14	--	SEQ	7.5	
12/12/2002	--	51.40	23.75	--	27.65	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	SEQ	7.5	
3/10/2003	--	51.40	21.25	--	30.15	61	<0.50	<0.50	<0.50	<0.50	99	--	SEQ	7.6	
5/12/2003	--	51.40	21.44	--	29.96	<100	<1.0	<1.0	<1.0	<1.0	120	--	SEQ	7.6	
8/27/2003	--	51.40	23.30	--	28.10	120	<0.50	<0.50	<0.50	<0.50	84	--	SEQ	7.6	n
11/10/2003	P	51.40	20.24	--	31.16	230	<1.0	<1.0	<1.0	<1.0	92	--	SEQM	6.7	o
02/03/2004	P	51.40	20.63	--	30.77	<250	<2.5	<2.5	<2.5	<2.5	91	--	SEQM	7.5	
05/04/2004	P	51.40	21.89	--	29.51	<250	<2.5	<2.5	<2.5	<2.5	190	--	SEQM	7.6	k
08/31/2004	P	51.40	23.16	--	28.24	<500	<5.0	<5.0	<5.0	<5.0	220	--	SEQM	7.3	
11/23/2004	P	51.40	21.65	--	29.75	590	<2.5	5.0	11	51	290	--	SEQM	7.1	
01/18/2005	P	51.40	16.28	--	35.12	<250	<2.5	<2.5	<2.5	2.5	92	--	SEQM	7.3	
06/29/2005	P	51.40	14.50	--	36.90	2,200	43	97	92	390	250	--	SEQM	8.0	
09/01/2005	P	51.40	20.41	--	30.99	<500	<5.0	<5.0	<5.0	<5.0	60	--	SEQM	7.5	
11/03/2005	P	51.40	21.00	--	30.40	130	<1.0	<1.0	<1.0	1.0	130	0.63	SEQM	7.2	w
02/14/2006	P	51.40	16.31	--	35.09	100	<0.50	<0.50	<0.50	0.87	62	--	SEQM	7.4	
5/30/2006	P	51.40	17.58	--	33.82	<50	<0.50	<0.50	<0.50	<0.50	9.1	--	SEQM	7.2	
8/29/2006	--	51.40	18.64	--	32.76	100	<2.5	<2.5	<2.5	<2.5	140	--	TAMC	7.0	
11/29/2006	P	51.40	20.35	--	31.05	84	<2.5	<2.5	<2.5	<2.5	190	3.06	TAMC	7.65	
2/20/2007	P	51.40	17.09	--	34.31	160	<2.5	<2.5	<2.5	<2.5	170	1.77	TAMC	7.66	w
5/25/2007	P	51.40	17.20	--	34.20	70	<1.0	<1.0	<1.0	<1.0	93	1.13	TAMC	7.41	w
8/9/2007	P	51.40	19.95	--	31.45	<50	<0.50	<0.50	<0.50	<0.50	42	1.94	TAMC	7.55	
11/9/2007	P	51.40	23.28	--	28.12	61	<0.50	<0.50	<0.50	1.3	71	2.13	TAMC	8.57	
12/14/2007	--	38.99	23.07	--	15.92	--	--	--	--	--	--	--	--	--	z
2/11/2008	P	38.99	17.21	--	21.78	<50	<0.50	<0.50	<0.50	<0.50	200	1.22	CEL	7.13	
5/22/2008	P	38.99	17.55	--	21.44	200	<1.0	<1.0	<1.0	<1.0	81	1.15	CEL	7.27	

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**Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-7 Cont.</b>															
8/25/2008	P	38.99	20.55	--	18.44	<50	<0.50	<0.50	<0.50	<0.50	30	--	CEL	7.36	DO meter not working
12/17/2008	NP	38.99	21.86	--	17.13	<50	<0.50	<0.50	<0.50	<0.50	2.6	1.96	CEL	7.74	
<b>2/25/2009</b>	<b>--</b>	<b>38.99</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>g</b>
<b>MW-8</b>															
1/25/1995	--	50.88	31.59	--	19.29	54	<0.5	<0.5	<0.5	<1	--	7.1	ATI	--	
4/19/1995	--	50.88	19.18	--	31.70	<50	<0.5	<0.5	<0.5	<1	--	5.1	ATI	--	
7/5/1995	--	50.88	19.03	--	31.85	<50	<0.50	<0.50	<0.50	<1.0	--	4.5	ATI	--	
10/5/1995	--	50.88	24.40	--	26.48	<50	<0.50	<0.50	<0.50	<1.0	<5.0	4.1	ATI	--	
1/12/1996	--	50.88	25.51	--	25.37	<50	<0.50	<0.50	<0.50	<1.0	<5.0	4.6	ATI	--	
4/22/1996	--	50.88	18.00	--	32.88	<50	<0.5	<1	<1	<1	<10	4.8	SPL	--	
7/2/1996	--	50.88	19.83	--	31.05	<50	<0.5	<1	<1	<1	<10	4.5	SPL	--	
11/8/1996	--	50.88	20.09	--	30.79	<50	<0.5	<1.0	<1.0	<1.0	<10	4.7	SPL	--	
1/3/1997	--	50.88	19.72	--	31.16	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	SPL	--	
4/28/1997	--	50.88	20.44	--	30.44	<50	<0.5	<1.0	<1.0	<1.0	<10	4.1	SPL	--	
7/1/1997	--	50.88	22.72	--	28.16	<50	<0.5	<1.0	<1.0	<1.0	<10	3.8	SPL	--	
10/2/1997	--	50.88	24.51	--	26.37	<50	<0.5	<1.0	<1.0	<1.0	<10	4.2	SPL	--	
1/9/1998	--	50.88	21.17	--	29.71	<50	<0.5	<1.0	<1.0	<1.0	<10	3.5	SPL	--	
5/6/1998	--	50.88	18.34	--	32.54	<50	<0.5	<1.0	<1.0	<1.0	<10	3.6	SPL	--	
7/21/1998	--	50.88	18.55	--	32.33	90	<0.5	<1.0	<1.0	<1.0	<10	3.3	SPL	--	
12/30/1998	--	50.88	20.40	--	30.48	--	--	--	--	--	--	--	--	--	
2/2/1999	--	50.88	19.28	--	31.60	--	--	--	--	--	--	--	--	--	
5/10/1999	--	50.88	15.62	--	35.26	--	--	--	--	--	--	--	--	--	
9/23/1999	--	50.88	21.74	--	29.14	--	--	--	--	--	--	--	--	--	
12/23/1999	--	50.88	22.83	--	28.05	--	--	--	--	--	--	--	--	--	
3/27/2000	--	50.88	16.25	--	34.63	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--	
5/22/2000	--	50.88	17.06	--	33.82	--	--	--	--	--	--	--	--	--	
8/31/2000	--	50.88	21.72	--	29.16	--	--	--	--	--	--	--	--	--	
12/11/2000	--	50.88	22.03	--	28.85	--	--	--	--	--	--	--	--	--	
3/20/2001	--	50.88	16.23	--	34.65	<50	<0.5	<0.5	<0.5	<1.5	0.991	--	PACE	--	
6/19/2001	--	50.88	19.35	--	31.53	--	--	--	--	--	--	--	--	--	

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

**Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-8 Cont.</b>															
9/20/2001	--	50.88	21.95	--	28.93	--	--	--	--	--	--	--	--	--	
12/27/2001	--	50.88	16.98	--	33.90	--	--	--	--	--	--	--	--	--	
2/28/2002	--	50.88	15.38	--	35.50	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	PACE	--	
6/28/2002	--	50.88	16.97	--	33.91	--	--	--	--	--	--	--	--	--	
9/12/2002	--	50.88	19.47	--	31.41	--	--	--	--	--	--	--	--	--	
12/12/2002	--	50.88	20.84	--	30.04	--	--	--	--	--	--	--	--	--	
3/10/2003	--	50.88	16.56	--	34.32	<50	<0.50	<0.50	<0.50	<0.50	3	--	SEQ	7.1	
5/12/2003	--	50.88	13.63	--	37.25	--	--	--	--	--	--	--	--	--	
8/27/2003	--	50.88	18.90	--	31.98	--	--	--	--	--	--	--	--	--	n
11/10/2003	--	50.88	19.68	--	31.20	--	--	--	--	--	--	--	--	--	
02/03/2004	P	50.88	14.76	--	36.12	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.5	
05/04/2004	--	50.88	14.69	--	36.19	--	--	--	--	--	--	--	--	--	
08/31/2004	--	50.88	18.08	--	32.80	--	--	--	--	--	--	--	--	--	
11/23/2004	NP	50.88	15.77	--	35.11	--	--	--	--	--	--	--	--	--	
01/18/2005	P	50.88	12.04	--	38.84	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.0	
06/29/2005	--	50.88	--	--	--	--	--	--	--	--	--	--	--	--	v
09/01/2005	--	50.88	16.12	--	34.76	--	--	--	--	--	--	--	--	--	
11/03/2005	--	50.88	19.42	--	31.46	--	--	--	--	--	--	--	--	--	
02/14/2006	P	50.88	12.43	--	38.45	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.0	
5/30/2006	--	50.88	12.40	--	38.48	--	--	--	--	--	--	--	--	--	
8/29/2006	--	50.88	17.16	--	33.72	--	--	--	--	--	--	--	--	--	
11/29/2006	--	50.88	19.35	--	31.53	--	--	--	--	--	--	--	--	--	
2/20/2007	P	50.88	14.57	--	36.31	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.28	TAMC	7.65	
5/25/2007	--	50.88	16.11	--	34.77	--	--	--	--	--	--	--	--	--	
8/9/2007	--	50.88	19.25	--	31.63	--	--	--	--	--	--	--	--	--	
11/9/2007	--	50.88	20.92	--	29.96	--	--	--	--	--	--	--	--	--	
12/14/2007	--	38.44	21.26	--	17.18	--	--	--	--	--	--	--	--	--	z
2/12/2008	P	38.44	14.00	--	24.44	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.26	CEL	7.11	
5/22/2008	--	38.44	16.86	--	21.58	--	--	--	--	--	--	--	--	--	
8/25/2008	--	38.44	19.92	--	18.52	--	--	--	--	--	--	--	--	--	
12/17/2008	--	38.44	21.45	--	16.99	--	--	--	--	--	--	--	--	--	

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-8 Cont.</b>															
2/25/2009	P	38.44	16.19	--	22.25	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.05	CEL	7.08	
<b>MW-9</b>															
1/25/1995	--	51.05	22.32	--	28.73	<50	<0.5	<0.5	<0.5	<1	--	7.4	ATI	--	
4/19/1995	--	51.05	19.86	--	31.19	<50	<0.5	<0.5	<0.5	<1	--	5.2	ATI	--	
7/5/1995	--	51.05	20.78	--	30.27	<50	<0.50	<0.50	<0.50	<1.0	--	4.4	ATI	--	
10/5/1995	--	51.05	24.33	--	26.72	<50	<0.50	<0.50	<0.50	<1.0	--	2.3	ATI	--	
10/5/1995	--	--	--	--	--	52	<0.50	<0.50	<0.50	<1.0	160	--	ATI	--	d
1/12/1996	--	51.05	25.44	--	25.61	<50	<0.50	<0.50	<0.50	<1.0	<5.0	3.2	ATI	--	
4/22/1996	--	51.05	18.01	--	33.04	<50	<0.5	<1	<1	<1	11	3.5	SPL	--	
7/2/1996	--	51.05	19.70	--	31.35	<50	<0.5	<1	<1	<1	<10	3.3	SPL	--	
11/8/1996	--	51.05	19.96	--	31.09	<50	<0.5	<1.0	<1.0	<1.0	<10	3.7	SPL	--	
1/3/1997	--	51.05	19.52	--	31.53	<250	<2.5	<5.0	<5.0	<5.0	<50	4.4	SPL	--	
4/28/1997	--	51.05	20.22	--	30.83	<50	<0.5	<1.0	<1.0	<1.0	<10	4.0	SPL	--	
7/1/1997	--	51.05	22.59	--	28.46	<50	<0.5	<1.0	<1.0	<1.0	<10	3.9	SPL	--	
10/2/1997	--	51.05	24.33	--	26.72	--	--	--	--	--	--	--	--	--	
10/3/1997	--	51.05	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	SPL	--	
1/9/1998	--	51.05	21.11	--	29.94	<50	<0.5	<1.0	<1.0	<1.0	<10	3.9	SPL	--	
5/6/1998	--	51.05	18.26	--	32.79	<50	<0.5	<1.0	<1.0	<1.0	<10	4.0	SPL	--	
7/21/1998	--	51.05	18.46	--	32.59	70	<0.5	<1.0	<1.0	<1.0	<10	3.7	SPL	--	
12/30/1998	--	51.05	--	--	--	--	--	--	--	--	--	--	--	--	g
2/2/1999	--	51.05	--	--	--	--	--	--	--	--	--	--	--	--	g
5/10/1999	--	51.05	--	--	--	--	--	--	--	--	--	--	--	--	g
9/23/1999	--	51.05	--	--	--	--	--	--	--	--	--	--	--	--	g
12/23/1999	--	51.05	--	--	--	--	--	--	--	--	--	--	--	--	g
3/27/2000	--	51.05	--	--	--	--	--	--	--	--	--	--	--	--	g
5/22/2000	--	51.05	--	--	--	--	--	--	--	--	--	--	--	--	g
8/31/2000	--	51.05	--	--	--	--	--	--	--	--	--	--	--	--	g
12/11/2000	--	51.05	--	--	--	--	--	--	--	--	--	--	--	--	g
3/20/2001	--	51.05	--	--	--	--	--	--	--	--	--	--	--	--	g
6/19/2001	--	51.05	--	--	--	--	--	--	--	--	--	--	--	--	g

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-9 Cont.</b>															
9/20/2001	--	51.05	22.20	--	28.85	6,300	2.87	<0.5	<0.5	<1.5	8,640	--	PACE	--	
12/27/2001	--	51.05	18.92	--	32.13	--	--	--	--	--	--	--	--	--	
2/28/2002	--	51.05	17.22	--	33.83	19,000	1,560	61.3	84	111	20,200	--	PACE	--	
6/28/2002	--	51.05	18.20	--	32.85	--	--	--	--	--	--	--	--	--	
9/12/2002	--	51.05	19.92	--	31.13	5,100	570	180	<25	220	6,400	--	SEQ	6.8	
12/12/2002	--	51.05	21.78	--	29.27	--	--	--	--	--	--	--	--	--	
3/10/2003	--	51.05	18.25	--	32.80	26,000	2,500	<100	<100	<100	33,000	--	SEQ	6.9	
5/12/2003	--	51.05	16.29	--	34.76	--	--	--	--	--	--	--	SEQ	--	
8/27/2003	--	51.05	19.69	--	31.36	11,000	830	<50	<50	<50	6,300	--	SEQ	7.1	n
11/10/2003	--	51.05	19.97	--	31.08	--	--	--	--	--	--	--	--	--	
02/03/2004	P	51.05	17.23	--	33.82	6,200	180	<50	<50	<50	2,100	--	SEQM	7.2	
05/04/2004	--	51.05	17.17	--	33.88	--	--	--	--	--	--	--	--	--	
08/31/2004	P	51.05	19.71	--	31.34	<2,500	210	<25	<25	<25	1,500	--	SEQM	7.0	
11/23/2004	--	51.05	18.58	--	32.47	--	--	--	--	--	--	--	--	--	
01/18/2005	P	51.05	14.98	--	36.07	490	32	<2.5	<2.5	8.9	130	--	SEQM	6.9	
06/29/2005	--	51.05	14.74	--	36.31	--	--	--	--	--	--	--	--	--	
09/01/2005	P	51.05	17.42	--	33.63	3,500	1,300	<25	<25	28	240	--	SEQM	6.9	
11/03/2005	--	51.05	19.90	--	31.15	--	--	--	--	--	--	--	--	--	
02/14/2006	P	51.05	12.95	--	38.10	2,700	<25	<25	<25	<25	2,200	--	SEQM	7.0	w
5/30/2006	--	51.05	13.76	--	37.29	--	--	--	--	--	--	--	--	--	
8/29/2006	--	51.05	17.86	--	33.19	1,200	580	<25	<25	<25	<25	--	TAMC	6.9	
11/29/2006	--	51.05	20.25	--	30.80	--	--	--	--	--	--	--	--	--	
2/20/2007	P	51.05	16.91	--	34.14	780	66	1.5	2.0	1.4	3.2	2.66	TAMC	7.93	
5/25/2007	--	51.05	17.28	--	33.77	--	--	--	--	--	--	--	--	--	
8/9/2007	P	51.05	19.71	--	31.34	650	150	<0.50	<0.50	2.0	1.4	1.07	TAMC	7.58	
11/9/2007	--	51.05	21.62	--	29.43	--	--	--	--	--	--	--	--	--	
12/14/2007	--	38.63	21.66	--	16.97	--	--	--	--	--	--	--	--	--	z
2/12/2008	P	38.63	16.30	--	22.33	890	27	2.5	28	5.4	<0.50	2.18	CEL	6.89	
5/22/2008	--	38.63	18.10	--	20.53	--	--	--	--	--	--	--	--	--	
8/25/2008	P	38.63	20.93	--	17.70	180	<0.50	<0.50	<0.50	<0.50	<0.50	1.72	CEL	7.26	
12/17/2008	--	38.63	22.86	--	15.77	--	--	--	--	--	--	--	--	--	

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-9 Cont.</b>															
2/25/2009	P	38.63	18.78	--	19.85	600	11	0.86	1.1	2.2	<0.50	3.19	CEL	7.03	
<b>MW-10</b>															
1/9/1998	--	--	20.97	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	SPL	--	h
5/6/1998	--	--	18.07	--	--	800	<0.5	<1.0	<1.0	<1.0	980	3.9	SPL	--	h
7/21/1998	--	--	18.28	--	--	80	<0.5	<1.0	<1.0	<1.0	<10	4.0	SPL	--	h
12/30/1998	--	--	22.22	--	--	--	--	--	--	--	--	--	--	--	h
2/2/1999	--	--	21.83	--	--	940	<10	<10	<10	<10	690	--	SPL	--	h
5/10/1999	--	--	17.99	--	--	--	--	--	--	--	--	--	--	--	h
9/23/1999	--	--	22.61	--	--	<50	<1.0	<1.0	<1.0	1.4	1,000	--	SPL	--	h
12/23/1999	--	--	23.75	--	--	--	--	--	--	--	--	--	--	--	h
3/27/2000	--	--	18.83	--	--	1,900	<0.5	<0.5	<0.5	<0.5	28,000	--	PACE	--	h
5/22/2000	--	--	19.47	--	--	--	--	--	--	--	--	--	--	--	h
8/31/2000	--	--	22.64	--	--	1,700	<0.5	<0.5	<0.5	<0.5	13,000	--	PACE	--	h
12/11/2000	--	--	22.84	--	--	--	--	--	--	--	--	--	--	--	h
3/20/2001	--	--	19.57	--	--	16,000	<0.5	<0.5	<0.5	<1.5	11,900	--	PACE	--	h
6/19/2001	--	--	20.63	--	--	--	--	--	--	--	--	--	--	--	h
9/20/2001	--	--	23.07	--	--	5,800	<0.5	<0.5	<0.5	<1.5	8,160	--	PACE	--	h
12/27/2001	--	--	20.92	--	--	6,600	17.3	14.5	<12.5	<25	7,750	--	PACE	--	h
2/28/2002	--	--	18.52	--	--	3,600	10.8	<0.5	<0.5	<1.0	5,380	--	PACE	--	h
6/28/2002	--	--	18.41	--	--	<50	<0.5	<0.5	<0.5	<1.0	2,570	--	PACE	--	h
9/12/2002	--	--	20.57	--	--	660	<5.0	<5.0	<5.0	<5.0	3,300	--	SEQ	7.2	h
12/12/2002	--	--	22.80	--	--	1,400	<5.0	<5.0	<5.0	<5.0	3,300	--	SEQ	6.9	h
3/10/2003	--	--	19.26	--	--	1,700	<5.0	<5.0	5.3	15	2,800	--	SEQ	6.9	h
5/12/2003	--	--	17.90	--	--	1,500	<12	<12	<12	<12	2,200	--	SEQ	6.9	h
8/27/2003	--	--	20.82	--	--	4,100	<25	<25	<25	<25	2,800	--	SEQ	7.0	n, h
11/10/2003	P	--	21.92	--	--	<5,000	<50	<50	<50	<50	3,300	--	SEQM	6.8	
02/03/2004	P	--	18.52	--	--	5,100	<50	<50	<50	<50	2,300	--	SEQM	7.0	q
05/04/2004	P	--	17.63	--	--	<2,500	<25	<25	<25	<25	1,600	--	SEQM	6.8	
08/31/2004	P	--	20.67	--	--	<5,000	<50	<50	<50	<50	1,900	--	SEQM	7.0	
11/23/2004	P	--	19.79	--	--	2,600	<25	<25	<25	<25	2,300	--	SEQM	6.8	



**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
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Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-10 Cont.</b>															
01/18/2005	P	--	16.13	--	--	560	<5.0	<5.0	<5.0	<5.0	530	--	SEQM	6.9	
06/29/2005	P	--	15.56	--	--	110	1.9	4.6	4.2	17	71	--	SEQM	6.8	
09/01/2005	P	--	18.10	--	--	<250	<2.5	<2.5	<2.5	<2.5	280	--	SEQM	6.9	
11/03/2005	P	--	20.90	--	--	800	<5.0	<5.0	<5.0	7.0	770	0.71	SEQM	6.8	w
02/14/2006	P	--	15.58	--	--	600	<0.50	<0.50	<0.50	<0.50	400	--	SEQM	7.1	x
5/30/2006	P	--	14.70	--	--	95	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	6.7	
8/29/2006	--	--	18.69	--	--	250	<5.0	<5.0	<5.0	<5.0	490	--	TAMC	6.8	
11/29/2006	P	--	21.35	--	--	650	<5.0	<5.0	<5.0	<5.0	1,400	0.89	TAMC	7.19	w
2/20/2007	P	--	18.65	--	--	720	<5.0	<5.0	<5.0	<5.0	850	1.19	TAMC	7.32	
5/25/2007	P	--	18.15	--	--	130	<0.50	<0.50	<0.50	<0.50	170	0.51	TAMC	7.00	w
8/9/2007	P	--	20.83	--	--	970	<10	<10	<10	<10	1,600	0.74	TAMC	7.24	
11/9/2007	P	--	22.53	--	--	1,100	<10	<10	<10	13	1,600	1.83	TAMC	7.31	
12/14/2007	--	40.45	22.62	--	17.83	--	--	--	--	--	--	--	--	--	z
2/11/2008	NP	40.45	17.86	--	22.59	<50	<0.50	<0.50	<0.50	<0.50	770	1.20	CEL	7.04	
5/22/2008	NP	40.45	19.05	--	21.40	81	<0.50	<0.50	<0.50	<0.50	2.8	2.83	CEL	6.89	
8/25/2008	NP	40.45	21.88	--	18.57	<50	<0.50	1.0	<0.50	0.98	500	2.14	CEL	7.00	
12/17/2008	NP	40.45	23.32	--	17.13	<50	<20	<20	<20	<20	910	1.94	CEL	7.09	
<b>2/25/2009</b>	<b>NP</b>	<b>40.45</b>	<b>20.07</b>	<b>--</b>	<b>20.38</b>	<b>84</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>290</b>	<b>2.67</b>	<b>CEL</b>	<b>7.62</b>	
<b>MW-11</b>															
12/14/2007	--	37.64	20.16	--	17.48	8,000	<10	72	230	760	<10	1.66	TAMC	--	z
2/12/2008	P	37.64	14.35	--	23.29	5,500	46	13	220	160	<2.5	0.75	CEL	7.13	
5/22/2008	P	37.64	16.63	--	21.01	5,700	80	21	320	150	<5.0	1.79	CEL	6.98	
8/25/2008	P	37.64	19.48	--	18.16	5,300	<5.0	20	120	320	<5.0	--	CEL	7.12	DO meter not working
12/17/2008	P	37.64	21.26	--	16.38	12,000	2.4	2.6	30	54	<0.50	2.36	CEL	7.22	
<b>2/25/2009</b>	<b>P</b>	<b>37.64</b>	<b>16.38</b>	<b>--</b>	<b>21.26</b>	<b>6,800</b>	<b>0.86</b>	<b>20</b>	<b>150</b>	<b>390</b>	<b>&lt;0.50</b>	<b>1.03</b>	<b>CEL</b>	<b>7.04</b>	
<b>QC-2</b>															
9/15/1992	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	i
12/15/1992	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	i
3/15/1993	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i, l

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Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>QC-2 Cont.</b>															
6/7/1993	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i, l
9/24/1993	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	i, l
12/27/1993	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	i, l
4/5/1994	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	i, l
7/22/1994	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	i, l
10/13/1994	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	i, l
1/25/1995	--	--	--	--	--	<50	<0.5	2	0.6	1	--	--	ATI	--	i
4/19/1995	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	ATI	--	i
7/5/1995	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	i
10/5/1995	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	i
1/12/1996	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	i
4/22/1996	--	--	--	--	--	<50	<0.5	<1	<1	<1	<10	--	SPL	--	i
7/2/1996	--	--	--	--	--	<50	<0.5	<1	<1	<1	<10	--	SPL	--	i

ABBREVIATIONS AND SYMBOLS:

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

FOOTNOTES:

c = Concentrations reported as diesel from MW-1, MW-2 and MW-4 are primarily due to the presence of a lighter petroleum product, possibly gasoline or kerosene.  
d = Blind duplicate.  
e = A copy of the documentation for this data is included in Appendix C of Alisto report 10-018-05-004.  
f = Well not sampled due to presence of free product (FP).  
g = Well inaccessible.  
h = TOC not surveyed.  
i = Travel blank.  
j = EPA method by 8020\8260.  
k = Samples ran outside of EPA recommended hold time.  
l = A copy of the documentation for this data can be found in Blaine Tech Services report 010619-C-2. The MTBE data for the March 15, 1993 and June 7, 1993 events have been destroyed.  
m = Thickness of SPH is only an estimate. The resulting GWE will not be used in contouring.  
n = Samples analyzed by EPA Method 8260B for TPH-g, benzene, toluene, ethylbenzene, total xylenes, and fuel oxygenates.  
o = Discrete peak @ C6-C7.  
q = Discrete peak @ C5-C6.  
r = Well was dry.  
s = Sheen in well.  
t = DTW and resulting GWE were anomalous and not used in groundwater contouring.  
u = Anomalously low concentrations reported from Cambria. Do not appear to support historic trends.  
v = Unable to locate well.  
w = The hydrocarbon result for GRO was partly due to individual peaks in the quantitation range.  
x = Initial analysis for MTBE within holding time but required dilution.  
y = Sample > 4x spike concentration.  
z = Site resurveyed on 3 December 2007.  
aa = Well MW-2 was over-drilled and converted to well DPE-4 on 11/13/2007.  
bb = Free product in well

NOTES:

Casing elevations surveyed to the nearest 0.01 ft MSL.

GWE adjusted assuming a specific gravity of 0.75 for FP.

During the third quarter of 2002, URS Corporation assumed groundwater monitoring activities for BP.

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

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

Values for pH and DO are field measurements.

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

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

**Table 2. Summary of Fuel Additives Analytical Data  
Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>DPE-1</b>									
12/14/2007	<300	1,300	28	<0.50	3.4	<0.50	<0.50	<0.50	
2/12/2008	<2,000	3,900	66	<10	<10	<10	<10	<10	
5/22/2008	<24,000	4,400	<40	<40	<40	<40	<40	<40	
8/25/2008	<12,000	4,000	<20	<20	<20	<20	<20	<20	
12/17/2008	<3,000	1,200	5.3	<5.0	<5.0	<5.0	<5.0	<5.0	
<b>2/25/2009</b>	<b>&lt;6,000</b>	<b>2,400</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	
<b>DPE-2</b>									
12/14/2007	<300	<20	0.71	<0.50	<0.50	<0.50	<0.50	<0.50	
2/12/2008	<100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
5/22/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
12/17/2008	<6,000	<200	34	<10	<10	<10	<10	<10	
<b>2/25/2009</b>	<b>&lt;6,000</b>	<b>&lt;200</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	
<b>DPE-3</b>									
12/14/2007	<15,000	1,700	770	<25	<25	<25	<25	<25	
2/12/2008	<1,000	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
5/22/2008	<12,000	<400	120	<20	<20	<20	<20	<20	
8/25/2008	<1,500	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
12/17/2008	<12,000	<400	46	<20	<20	<20	<20	<20	
<b>2/25/2009</b>	<b>&lt;1,500</b>	<b>&lt;50</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	
<b>DPE-4</b>									
12/14/2007	<300,000	<20,000	8,000	<500	<500	<500	<500	<500	
2/12/2008	<10,000	<1,000	2,900	<50	<50	55	<50	<50	
5/22/2008	<240,000	<8,000	4,600	<400	<400	<400	<400	<400	
8/25/2008	<240,000	<8,000	4,100	<400	<400	<400	<400	<400	
12/17/2008	<240,000	<8,000	5,500	<400	<400	<400	<400	<400	
<b>2/25/2009</b>	<b>&lt;240,000</b>	<b>&lt;8,000</b>	<b>4,500</b>	<b>&lt;400</b>	<b>&lt;400</b>	<b>&lt;400</b>	<b>&lt;400</b>	<b>&lt;400</b>	
<b>DPE-5</b>									
12/14/2007	<300,000	<20,000	16,000	<500	<500	<500	<500	<500	

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Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>DPE-5 Cont.</b>									
2/12/2008	<10,000	2,000	8,400	<50	<50	<50	<50	<50	
5/22/2008	<120,000	4,500	4,900	<200	<200	<200	<200	<200	
8/25/2008	<60,000	5,100	1,800	<100	<100	<100	<100	<100	
12/17/2008	<60,000	6,100	1,300	<100	<100	<100	<100	<100	
<b>2/25/2009</b>	<b>&lt;60,000</b>	<b>5,100</b>	<b>3,100</b>	<b>&lt;100</b>	<b>&lt;100</b>	<b>&lt;100</b>	<b>&lt;100</b>	<b>&lt;100</b>	
<b>EX-1</b>									
05/04/2004	<5,000	<1,000	2,500	<25	<25	38	<25	<25	
08/31/2004	<10,000	<2,000	2,100	<50	<50	<50	<50	<50	
11/23/2004	<5,000	<1,000	3,000	<25	<25	74	<25	<25	
01/18/2005	<5,000	<1,000	2,200	<25	<25	54	<25	<25	a
06/29/2005	<5,000	<1,000	1,400	<25	<25	30	<25	<25	
09/01/2005	<5,000	<1,000	2,000	<25	<25	46	<25	<25	
11/03/2005	<5,000	<1,000	3,000	<25	<25	87	<25	<25	
02/14/2006	<15,000	<1,000	1,100	<25	<25	<25	<25	<25	a
5/30/2006	<15,000	<1,000	1,400	<25	<25	37	<25	<25	a
8/29/2006	<15,000	<1,000	2,500	<25	<25	56	<25	<25	
11/29/2006	<30,000	<2,000	2,700	<50	<50	75	<50	<50	
2/20/2007	<30,000	<2,000	920	<50	<50	<50	<50	<50	
5/25/2007	<30,000	<2,000	890	<50	<50	<50	<50	<50	
8/9/2007	<6,000	440	530	<10	<10	15	<10	<10	
11/9/2007	<15,000	1,900	370	<25	<25	<25	<25	<25	
2/12/2008	<10,000	2,200	320	<50	<50	<50	<50	<50	
5/22/2008	<30,000	<1,000	970	<50	<50	<50	<50	<50	
8/25/2008	<15,000	830	430	<25	<25	<25	<25	<25	
12/17/2008	<15,000	980	690	<25	<25	<25	<25	<25	
<b>2/25/2009</b>	<b>&lt;15,000</b>	<b>&lt;500</b>	<b>440</b>	<b>&lt;25</b>	<b>&lt;25</b>	<b>&lt;25</b>	<b>&lt;25</b>	<b>&lt;25</b>	
<b>EX-2</b>									
05/04/2004	<100	<20	46	<0.50	<0.50	<0.50	<0.50	<0.50	
08/31/2004	<500	<100	130	<2.5	<2.5	3.4	<2.5	<2.5	
11/23/2004	<100	<20	5.8	<0.50	<0.50	<0.50	<0.50	<0.50	

**Table 2. Summary of Fuel Additives Analytical Data**  
**Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>EX-2 Cont.</b>									
01/18/2005	<100	<20	6.5	<0.50	<0.50	<0.50	<0.50	<0.50	a
06/29/2005	<100	<20	24	<0.50	<0.50	<0.50	<0.50	<0.50	
09/01/2005	<100	<20	55	<0.50	<0.50	0.56	<0.50	<0.50	
11/03/2005	<100	<20	39	<0.50	<0.50	0.80	<0.50	<0.50	
02/14/2006	<300	<20	0.72	<0.50	<0.50	<0.50	<0.50	<0.50	a
5/30/2006	<300	<20	7.8	<0.50	<0.50	<0.50	<0.50	<0.50	
8/29/2006	<300	<20	94	<0.50	<0.50	0.98	<0.50	<0.50	
11/29/2006	<300	<20	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	
2/20/2007	<300	<20	12	<0.50	<0.50	<0.50	<0.50	<0.50	
5/25/2007	<300	<20	10	<0.50	<0.50	<0.50	<0.50	<0.50	
8/9/2007	<300	<20	27	<0.50	<0.50	<0.50	<0.50	<0.50	
11/9/2007	<300	<20	140	<0.50	<0.50	<0.50	<0.50	<0.50	
2/12/2008	<100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
5/22/2008	<300	<10	0.54	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2008	<300	<10	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	
<b>2/25/2009</b>	<b>&lt;300</b>	<b>&lt;10</b>	<b>0.58</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	
<b>MW-1</b>									
8/27/2003	<100	<20	4.2	<0.50	<0.50	<0.50	--	--	
11/10/2003	<100	<20	0.51	<0.50	<0.50	<0.50	--	--	
02/03/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
05/04/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
08/31/2004	<100	<20	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
01/18/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
02/14/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
2/20/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/12/2008	<100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>2/25/2009</b>	<b>&lt;300</b>	<b>&lt;10</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	
<b>MW-2</b>									
8/27/2003	<25,000	<5,000	5,100	<120	<120	140	--	--	
11/10/2003	<50,000	<10,000	4,200	<250	<250	<250	--	--	

**Table 2. Summary of Fuel Additives Analytical Data  
Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-2 Cont.</b>									
02/03/2004	<100,000	<20,000	1,900	<500	<500	<500	<500	<500	
05/04/2004	<50,000	<10,000	2,500	<250	<250	<250	<250	<250	
08/31/2004	<50,000	<10,000	3,400	<250	<250	<250	<250	<250	
11/23/2004	<50,000	<10,000	2,400	<250	<250	<250	<250	<250	
01/18/2005	<20,000	<4,000	3,700	<100	<100	<100	<100	<100	a
06/29/2005	<10,000	<2,000	3,600	<50	<50	72	<50	<50	
09/01/2005	<20,000	<4,000	5,100	<100	<100	100	<100	<100	
11/03/2005	<20,000	<4,000	3,700	<100	<100	100	<100	<100	
02/14/2006	<60,000	<4,000	3,400	<100	<100	<100	<100	<100	a
5/30/2006	<60,000	<4,000	2,300	<100	<100	<100	<100	<100	
8/29/2006	<60,000	<4,000	13,000	<100	<100	100	<100	<100	
11/29/2006	<75,000	<5,000	11,000	<120	<120	120	<120	<120	
2/20/2007	<60,000	<4,000	10,000	<100	<100	<100	<100	<100	
5/25/2007	<120,000	<8,000	3,400	<200	<200	<200	<200	<200	
8/9/2007	<60,000	<4,000	4,100	<100	<100	<100	<100	<100	
11/9/2007	<60,000	<4,000	9,500	<100	<100	<100	<100	<100	c
<b>MW-3</b>									
8/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
02/03/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
08/31/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
01/18/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
02/14/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
2/20/2007	<300	<20	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	
2/11/2008	<100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>2/25/2009</b>	<b>&lt;300</b>	<b>&lt;10</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	
<b>MW-4</b>									
8/27/2003	<50,000	<10,000	32,000	<250	<250	250	--	--	
11/10/2003	<100,000	<20,000	25,000	<500	<500	<500	--	--	
02/03/2004	<100,000	<20,000	26,000	<500	<500	<500	<500	<500	
05/04/2004	<50,000	<10,000	<250	<250	<250	<250	<250	<250	



**Table 2. Summary of Fuel Additives Analytical Data  
Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-4 Cont.</b>									
08/31/2004	<50,000	<10,000	14,000	<250	<250	<250	<250	<250	
11/23/2004	<500,000	<100,000	23,000	<2,500	<2,500	<2,500	<2,500	<2,500	
01/18/2005	<50,000	<10,000	8,800	<250	<250	<250	<250	<250	a
06/29/2005	<50,000	<10,000	1,700	<250	<250	<250	<250	<250	
09/01/2005	<100,000	<20,000	1,100	<500	<500	<500	<500	<500	
11/03/2005	<100,000	<20,000	1,500	<500	<500	<500	<500	<500	
02/14/2006	<300,000	<20,000	38,000	<500	<500	1,000	<500	<500	a
5/30/2006	<300,000	<20,000	560	<500	<500	<500	<500	<500	
8/29/2006	<300,000	<20,000	1,800	<500	<500	<500	<500	<500	
2/20/2007	<150,000	<10,000	15,000	<250	<250	<250	<250	<250	
5/25/2007	<120,000	<8,000	3,500	<200	<200	<200	<200	<200	
8/9/2007	<60,000	4,100	2,900	<100	<100	<100	<100	<100	
11/9/2007	<60,000	5,700	1,200	<100	<100	<100	<100	<100	
5/22/2008	<60,000	6,600	1,000	<100	<100	<100	<100	<100	
12/17/2008	<60,000	6,100	270	<100	<100	<100	<100	<100	
<b>2/25/2009</b>	<b>&lt;60,000</b>	<b>5,600</b>	<b>1,300</b>	<b>&lt;100</b>	<b>&lt;100</b>	<b>&lt;100</b>	<b>&lt;100</b>	<b>&lt;100</b>	
<b>MW-6</b>									
8/27/2003	<100	<20	8.9	<0.50	<0.50	<0.50	--	--	
11/10/2003	<100	<20	4.5	<0.50	<0.50	<0.50	--	--	
02/03/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
05/04/2004	<100	<20	24	<0.50	<0.50	<0.50	<0.50	<0.50	
08/31/2004	<100	<20	27	<0.50	<0.50	<0.50	<0.50	<0.50	
01/18/2005	<100	<20	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	a
2/20/2007	<300	<20	24	<0.50	<0.50	<0.50	<0.50	<0.50	
2/11/2008	<100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>2/25/2009</b>	<b>&lt;300</b>	<b>&lt;10</b>	<b>13</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	
<b>MW-7</b>									
8/27/2003	<100	<20	84	<0.50	<0.50	<0.50	--	--	
11/10/2003	<200	<40	92	<1.0	<1.0	<1.0	--	--	
02/03/2004	<500	<100	91	<2.5	<2.5	<2.5	<2.5	<2.5	

**Table 2. Summary of Fuel Additives Analytical Data  
Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-7 Cont.</b>									
05/04/2004	<500	<100	190	<2.5	<2.5	<2.5	<2.5	<2.5	
08/31/2004	<1,000	<200	220	<5.0	<5.0	<5.0	<5.0	<5.0	
11/23/2004	<500	<100	290	<2.5	<2.5	<2.5	<2.5	<2.5	
01/18/2005	<500	<100	92	<2.5	<2.5	<2.5	<2.5	<2.5	a
06/29/2005	<500	<100	250	<2.5	<2.5	<2.5	<2.5	<2.5	
09/01/2005	<1,000	<200	60	<5.0	<5.0	<5.0	<5.0	<5.0	
11/03/2005	<200	<40	130	<1.0	<1.0	<1.0	<1.0	<1.0	
02/14/2006	<300	<20	62	<0.50	<0.50	<0.50	<0.50	<0.50	a
5/30/2006	<300	<20	9.1	<0.50	<0.50	<0.50	<0.50	<0.50	
8/29/2006	<1,500	<100	140	<2.5	<2.5	<2.5	<2.5	<2.5	
11/29/2006	<1,500	<100	190	<2.5	<2.5	<2.5	<2.5	<2.5	
2/20/2007	<1,500	<100	170	<2.5	<2.5	<2.5	<2.5	<2.5	
5/25/2007	<600	<40	93	<1.0	<1.0	<1.0	<1.0	<1.0	
8/9/2007	<300	<20	42	<0.50	<0.50	<0.50	<0.50	<0.50	
11/9/2007	<300	<20	71	<0.50	<0.50	<0.50	<0.50	<0.50	
2/11/2008	<100	<10	200	<0.50	<0.50	<0.50	<0.50	<0.50	
5/22/2008	<600	<20	81	<1.0	<1.0	<1.0	<1.0	<1.0	
8/25/2008	<300	<10	30	<0.50	<0.50	<0.50	<0.50	<0.50	
12/17/2008	<300	<10	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>MW-8</b>									
02/03/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
01/18/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
02/14/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
2/20/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/12/2008	<100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>2/25/2009</b>	<b>&lt;300</b>	<b>&lt;10</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	
<b>MW-9</b>									
8/27/2003	<10,000	<2,000	6,300	<50	<50	<50	--	--	
02/03/2004	<10,000	<2,000	2,100	<50	<50	<50	<50	<50	a
08/31/2004	<5,000	<1,000	1,500	<25	<25	<25	<25	<25	

**Table 2. Summary of Fuel Additives Analytical Data  
Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-9 Cont.</b>									
01/18/2005	<500	150	130	<2.5	<2.5	<2.5	<2.5	<2.5	a
09/01/2005	<5,000	2,700	240	<25	<25	<25	<25	<25	
02/14/2006	<15,000	<1,000	2,200	<25	<25	<25	<25	<25	a
8/29/2006	<15,000	2,100	<25	<25	<25	<25	<25	<25	
2/20/2007	<600	380	3.2	<1.0	<1.0	<1.0	<1.0	<1.0	
8/9/2007	<300	790	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	
2/12/2008	<100	37	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2008	<300	75	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>2/25/2009</b>	<b>&lt;300</b>	<b>17</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	
<b>MW-10</b>									
8/27/2003	<5,000	<1,000	2,800	<25	<25	<25	--	--	
11/10/2003	<10,000	<2,000	3,300	<50	<50	<50	--	--	
02/03/2004	<10,000	<2,000	2,300	<50	<50	<50	<50	<50	a
05/04/2004	<5,000	<1,000	1,600	<25	<25	<25	<25	<25	
08/31/2004	<10,000	<2,000	1,900	<50	<50	<50	<50	<50	
11/23/2004	<5,000	<1,000	2,300	<25	<25	<25	<25	<25	
01/18/2005	<1,000	<200	530	<5.0	<5.0	<5.0	<5.0	<5.0	a
06/29/2005	<100	<20	71	<0.50	<0.50	<0.50	<0.50	<0.50	
09/01/2005	<500	<100	280	<2.5	<2.5	<2.5	<2.5	<2.5	
11/03/2005	<1,000	<200	770	<5.0	<5.0	<5.0	<5.0	<5.0	
02/14/2006	<300	34	400	<0.50	<0.50	1.2	<0.50	<0.50	a, b
5/30/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/29/2006	<3,000	<200	490	<5.0	<5.0	<5.0	<5.0	<5.0	
11/29/2006	<3,000	<200	1,400	<5.0	<5.0	5.8	<5.0	<5.0	
2/20/2007	<3,000	<200	850	<5.0	<5.0	<5.0	<5.0	<5.0	
5/25/2007	<300	<20	170	<0.50	<0.50	0.69	<0.50	<0.50	
8/9/2007	<6,000	<400	1,600	<10	<10	<10	<10	<10	
11/9/2007	<6,000	<400	1,600	<10	<10	<10	<10	<10	
2/11/2008	<100	<10	770	<0.50	<0.50	2.6	<0.50	<0.50	
5/22/2008	<300	<10	2.8	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2008	<300	<10	500	<0.50	<0.50	2.2	<0.50	<0.50	

**Table 2. Summary of Fuel Additives Analytical Data  
Station #11117, 7210 Bancroft Ave., Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-10 Cont.</b>									
12/17/2008	<12,000	<400	910	<20	<20	<20	<20	<20	
2/25/2009	<3,000	<100	290	<5.0	<5.0	<5.0	<5.0	<5.0	
<b>MW-11</b>									
12/14/2007	<6,000	<400	<10	<10	<10	<10	<10	<10	
2/12/2008	<500	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
5/22/2008	<3,000	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
8/25/2008	<3,000	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
12/17/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/25/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

ABBREVIATIONS AND SYMBOLS:

-- = Not analyzed/applicable/measurable  
< = Not detected above reported detection limit  
1,2-DCA = 1,2-Dichloroethane  
µg/L = Micrograms per Liter  
DIPE = Di-isopropyl ether  
EDB = 1, 2-Dibromoethane  
ETBE = Ethyl tert-butyl ether  
MTBE = Methyl tert-butyl ether  
TAME = tert-Amyl methyl ether  
TBA = tert-Butyl alcohol

FOOTNOTES:

a = The continuing calibration verification for ethanol was outside of client contractual acceptance limits. However, it was within method acceptance limits. The data should still be useful for its intended purpose.  
b = Initial analysis for MTBE within holding time but required dilution.  
c = Well MW-2 was over-drilled and converted to well DPE-4 on 11/13/2007.

NOTES:

All volatile organic compounds analyzed using EPA Method 8260B.

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

**Table 3. Historical Ground-Water Flow Direction and Gradient  
Station #11117, 7210 Bancroft Ave., Oakland, CA**

<b>Date Sampled</b>	<b>Approximate Flow Direction</b>	<b>Approximate Hydraulic Gradient</b>
9/12/2002	Northeast	0.03
12/12/2002	Northeast	0.02
3/10/2003	Northeast	0.03
5/12/2003	North-Northeast	0.055
8/27/2003	North-Northeast	0.036
11/10/2003	North-Northeast	0.012
2/3/2004	Northeast	0.013
5/4/2004	Northeast	0.015
8/31/2004	Northeast	0.010
11/23/2004	North-Northeast	0.04
1/18/2005	Northeast	0.02
6/29/2005	Variable	0.003, 0.006
9/1/2005	North	0.03
11/3/2005	North	0.008
2/14/2006	North-Northeast	0.02
5/30/2006	North	0.03
8/29/2006	Northeast	0.006
11/29/2006	West, Southeast	0.002, 0.001
2/20/2007	Northeast	0.004
5/25/2007	North	0.005
8/9/2007	Northwest	0.002
11/9/2007	North	0.02
12/14/2007	Southwest, Southeast	0.005, 0.003
2/11/2008	Northeast	0.02
5/22/2008	Southeast	0.02
8/25/2008	Southeast	0.003
12/17/2008	South-Southwest	0.005
<b>2/25/2009</b>	<b>Southeast</b>	<b>0.006</b>

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

**APPENDIX A**

**STRATUS GROUND-WATER SAMPLING DATA PACKAGE  
(INCLUDES FIELD DATA SHEETS, LABORATORY REPORT,  
CHAIN-OF-CUSTODY DOCUMENTATION, AND FIELD PROCEDURES)**



3330 Cameron Park Drive, Ste 550  
Cameron Park, California 95682  
(530) 676-6004 ~ Fax: (530) 676-6005

March 11, 2009

Mr. Rob Miller  
Broadbent & Associates, Inc.  
2000 Kirman Avenue  
Reno, NV 89502

Re: Groundwater Sampling Data Package, FORMER BP Service Station No. 11117,  
located at 7210 Bancroft, Oakland, California.

### **General Information**

*Data Submittal Prepared / Reviewed by:* Carol Huff / Jay Johnson

*Phone Number:* (530) 676-6000

*On-Site Supplier Representative:* Tony Hill and Chris Grant

*Sampling Date:* February 25, 2009

*Unusual Field Conditions:* None noted.

*Scope of Work Performed:* Quarterly monitoring and sampling.

*Variations from Work Scope:* Technician could not sample well MW-7 because the area was flooded.

This submittal presents the data collected in association with routine groundwater monitoring. The attachments include field data sheets, non-hazardous waste data form, chain of custody documentation, certified analytical results, and field procedures for groundwater sampling documentation. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretation or conclusions or recommendations.



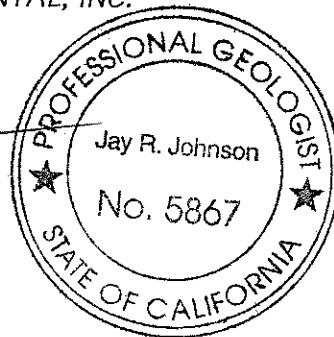
March 11, 2009

Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Jay R. Johnson, P.G.  
Project Manager



**Attachments:**

- Field Data Sheets
- Non-Hazardous Waste Data Form
- Chain of Custody Documentation
- Certified Analytical Results
- Field Procedures for Groundwater sampling

cc: Mr. Paul Supple, BP/ARCO



Site Address 7210 Bancroft Ave.  
 City Oakland, ca  
 Sampled by: C. Grant / T. Hill  
 Signature [Handwritten Signature]

Site Number Arco 11117  
 Project Number E-11117  
 Project PM Jay Johnson  
 DATE 02/25/09

Water Level Data					Purge Volume Calculations					Purge Method				Sample Record			Field Data	
Well ID	Time	Top of Screen	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Bailer	Pump	other	DTW at sample time (feet)	Sample I.D	Sample Time	DO (mg/L)	
MW-1	1540	20'	16.36	36.57	20.27	2	.5	10.13	10									
MW-3	1536	30'	16.81	39.65	22.84	2	.5	11.42	11.5			X		16.52	MW-1	1718	1.94	
MW-4	1610		17.60	39.63	21.43	2	.5	10.72	11			X		16.86	MW-3	1652	1.29	
MW-6	1530	20'	17.34	39.47	22.13	2	.5	11.06	11			X		17.80	MW-4	1925	6.33	
* MW-7		25'	could not be sampled			2	.5					X		17.39	MW-6	1628	1.17	
MW-8	1520	25'	16.19	39.36	23.17	2	.5	11.59	11.5	X					MW-7			
MW-9	1511	25'	18.78	38.78	19.92	2	.5	09.91	10		X			16.31	MW-8	1725	3.05	
MW-10	1636	15'	20.07	35.32		2	.5			X	X			18.85	MW-9	1650	3.19	
MW-11	1550		16.38	36.58	20.20	4	2	40.40	40			X		20.07	MW-10	1610	2.67	
DPE-1	1616		18.15	39.30	21.15	4	2	42.30	42			X		17.15	MW-11	1750	1.03	
DPE-2	1540		16.60	39.66	23.06	4	2	46.12	46			X		20.14	DPE-1	1935	6.51	
DPE-3	1558		17.18	39.28	22.10	4	2	44.20	44			X		16.62	DPE-2	1805	1.02	
DPE-4	1625		17.59	39.84	22.25	4	2	44.50	44.5			X		17.25	DPE-3	1820	0.96	
DPE-5	1606		17.47	39.63	21.56	4	2	43.12	43			X		17.96	DPE-4	1834	1.55	
EX-1	1622	18'	18.01	37.25		4	2					X		19.10	DPE-5	1850	0.40	
EX-2	1630		16.79	34.70	17.91	4	2	35.82	36	X	X			18.01	EX-1	1844	0.88	
												X		19.68	EX-2	1907	1.46	

\* MW-7: Compound flooded cannot access well until system is operational

Multiplier  
 2" = 0.5 3" = 1.0 4" = 2.0 6" = 4.4

Please refer to groundwater sampling field procedures  
 pH/Conductivity/temperature Meter - Oakton Model PC-10  
 DO Meter - Oakton 300 Series (DO is always measured before purge)

CALIBRATION DATE  
 pH 02/20/09  
 Conductivity           
 DO

# STRATUS

ENVIRONMENTAL, INC.

Site Address 7210 Bancroft ave  
 City Oakland, ca  
 Site Sampled by CG/rth

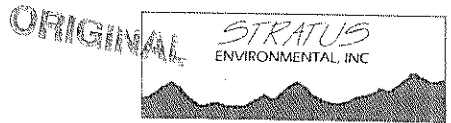
Site Number Area 1117  
 Project No. E-1117  
 Project PM Jay Johnson  
 Date Sampled 02/25/09

Well ID <u>MW-6</u> <u>1628</u>					Well ID <u>MW-3</u> <u>1652</u>				
purge start time <u>1618</u> <u>no odor</u>					purge start time <u>1640</u> <u>no odor</u>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>20.5</u>	<u>7.38</u>	<u>704</u>	<u>0</u>	time	<u>19.6</u>	<u>7.24</u>	<u>652</u>	<u>0</u>
time	<u>19.9</u>	<u>7.39</u>	<u>721</u>	<u>5.5</u>	time	<u>19.8</u>	<u>7.27</u>	<u>548</u>	<u>5.5</u>
time	<u>20.4</u>	<u>7.00</u>	<u>791</u>	<u>11</u>	time	<u>18.5</u>	<u>7.28</u>	<u>532</u>	<u>11.5</u>
time					time				
purge stop time <u>1624</u>					purge stop time <u>1647</u>				
Well ID <u>MW-1</u> <u>1718</u>					Well ID <u>DPE-2</u> <u>1805</u>				
purge start time <u>1706</u> <u>no odor</u>					purge start time <u>1732</u> <u>odor</u>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>21.4</u>	<u>7.24</u>	<u>539</u>	<u>0</u>	time	<u>22.1</u>	<u>7.23</u>	<u>467</u>	<u>0</u>
time	<u>19.0</u>	<u>7.29</u>	<u>479</u>	<u>5</u>	time	<u>20.3</u>	<u>7.30</u>	<u>458</u>	<u>23</u>
time	<u>18.5</u>	<u>7.17</u>	<u>472</u>	<u>10</u>	time	<u>18.7</u>	<u>7.15</u>	<u>469</u>	<u>46</u>
time					time				
purge stop time <u>1714</u>					purge stop time <u>1758</u>				
Well ID <u>DPE-4</u> <u>1834</u>					Well ID <u>EX-1</u> <u>1847</u>				
purge start time <u>1815</u> <u>odor</u>					purge start time <u>1815 (mp)</u> <u>odor</u>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>23.8</u>	<u>7.12</u>	<u>527</u>	<u>0</u>	time	<u>19.0</u>	<u>6.81</u>	<u>787</u>	<u>0</u>
time	<u>21.7</u>	<u>6.92</u>	<u>723</u>	<u>22</u>	time				
time	<u>18.2</u>	<u>6.91</u>	<u>706</u>	<u>445</u>	time				
time					time				
purge stop time <u>1829</u>					purge stop time				
Well ID <u>EX-2</u> <u>1907</u>					Well ID				
purge start time <u>1853</u> <u>odor</u>					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>22.2</u>	<u>7.04</u>	<u>684</u>	<u>0</u>	time				
time	<u>20.3</u>	<u>7.25</u>	<u>572</u>	<u>18</u>	time				
time	<u>19.5</u>	<u>6.98</u>	<u>519</u>	<u>36</u>	time				
time					time				
purge stop time <u>1903</u>					purge stop time				

ORIGINAL

Well ID <u>MW-10</u> <u>1610</u>					Well ID <u>MW-9</u> <u>1650</u>				
purge start time <u>bad</u> <u>no odor</u>					purge start time <u>bad</u> <u>no odor</u>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>22.6</u>	<u>7.62</u>	<u>526</u>	<u>Ø</u>	time	<u>18.5</u>	<u>7.67</u>	<u>257</u>	<u>Ø</u>
time					time	<u>19.9</u>	<u>7.13</u>	<u>372</u>	<u>5</u>
time					time	<u>20.2</u>	<u>7.03</u>	<u>398</u>	<u>1Ø</u>
time					time				
purge stop time					purge stop time				
Well ID <u>MW-8</u> <u>1725</u>					Well ID <u>MW-11</u> <u>1750</u>				
purge start time <u>bad</u> <u>No odor</u>					purge start time <u>1727</u> <u>odor</u>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>15.9</u>	<u>7.14</u>	<u>376</u>	<u>Ø</u>	time	<u>21.1</u>	<u>7.01</u>	<u>455</u>	<u>Ø</u>
time	<u>16</u>	<u>7.11</u>	<u>318</u>	<u>5.5</u>	time	<u>21.7</u>	<u>7.05</u>	<u>439</u>	<u>2Ø</u>
time	<u>15.8</u>	<u>7.08</u>	<u>334</u>	<u>11.5</u>	time	<u>20.6</u>	<u>7.04</u>	<u>400</u>	<u>4Ø</u>
time					time				
purge stop time					purge stop time <u>1740</u>				
Well ID <u>DPE-3</u> <u>1820</u>					Well ID <u>DPE-5</u> <u>1850</u>				
purge start time <u>1752</u> <u>odor</u>					purge start time <u>1822</u> <u>odor</u>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>22.5</u>	<u>6.96</u>	<u>444</u>	<u>Ø</u>	time	<u>23.6</u>	<u>6.86</u>	<u>560</u>	<u>Ø</u>
time	<u>22.2</u>	<u>7.02</u>	<u>438</u>	<u>22</u>	time	<u>23</u>	<u>6.86</u>	<u>591</u>	<u>22</u>
time	<u>21.1</u>	<u>7</u>	<u>451</u>	<u>44</u>	time	<u>21.9</u>	<u>6.83</u>	<u>595</u>	<u>43</u>
time					time				
purge stop time					purge stop time				
Well ID <u>MW-4</u> <u>1925</u>					Well ID <u>DPE-1</u> <u>1935</u>				
purge start time <u>1855</u> <u>odor</u>					purge start time <u>1910</u> <u>odor</u>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>23</u>	<u>6.88</u>	<u>595</u>	<u>Ø</u>	time	<u>23.5</u>	<u>6.9</u>	<u>456</u>	<u>Ø</u>
time	<u>23.3</u>	<u>6.86</u>	<u>600</u>	<u>5.5</u>	time	<u>23.5</u>	<u>6.89</u>	<u>459</u>	<u>21</u>
time	<u>22.1</u>	<u>6.79</u>	<u>606</u>	<u>11</u>	time	<u>22.6</u>	<u>6.84</u>	<u>477</u>	<u>42</u>
time					time				
purge stop time <u>1900</u>					purge stop time				

# WELLHEAD OBSERVATION FORM



Site Name/Number: Arco 11117

Date: 02/25/09 Technician: C. Grant

Well I.D.	Box in Good Condition?  X = Yes Blank = No	Lock Missing?  X = Yes (replaced) Blank = No	Water in Wellbox?  X = Yes Blank = No	Water Level Relative to Cap?  A = Above cap B = Below cap L = Level w/cap	Well Cap?  I = Intact M = Missing or Compromised (replaced)	Bolts Missing?  X = Yes Blank = No	Bolts Stripped?  X = Yes Blank = No	Bolt Holes Stripped?  X = Yes Blank = No	Cracked or Broken Lid?  X = Yes Blank = No	Cracked or Broken Box?  X = Yes Blank = No	Grout Level more than 1ft below TOC?  X = Yes Blank = No	Additional Comments <small>(such as missing lid, concrete needs replacement, or other - explain)</small>
MW-1								X-(2)				
MW-3	X											
MW-4	X											
MW-6			X	A								
MW-7	- cannot access, compound flooded -											
MW-8			X	B								
MW-9			X	A								
MW-10			X	B								
MW-11	X											
DPE-1	X											
DPE-2	X											
DPE-3	X											
DPE-4	X											
DPE-5	X											
EX-1	X											
EX-2								X-(2)				

DRUM INVENTORY

Drums on site? (Yes) No (circle)  
 Type and # Steel: 1 Plastic: \_\_\_\_\_

Note whether drums are full or empty, solids or liquids:

Empty

Drum label info (description, date, contact info):

not labeled

GENERAL SITE CONDITIONS

Make notes on housekeeping conditions (such as trash around remediation system enclosure/compound, bent or missing bollards, signs missing from compound fences, graffiti on compound, etc.)

NO. 673956

# NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

SITE:

EPA I.D. NO.

NOT REQUIRED

NAME BP WEST COAST PRODUCTS LLC ARCO # 1112

ADDRESS P.O. BOX 80249 7910 BANCROFT BLVD OAKLAND CA  
RANCHO SANTA MARGARITA

PROFILE NO.

CITY, STATE, ZIP CA 92588

PHONE NO. ( )

CONTAINERS: No. \_\_\_\_\_ VOLUME \_\_\_\_\_ WEIGHT \_\_\_\_\_

TYPE:  TANK TRUCK  DUMP TRUCK  DRUMS  CARTONS  OTHER \_\_\_\_\_

WASTE DESCRIPTION NON-HAZARDOUS WATER GENERATING PROCESS WELL PURGING/DECON WATER

COMPONENTS OF WASTE			COMPONENTS OF WASTE		
	PPM	%		PPM	%
1. <u>WATER</u>	<u>99-100%</u>		5. _____		
2. <u>TPH</u>	<u>&lt;1%</u>		6. _____		
3. _____			7. <u>BEST#</u>		
4. _____			8. _____		

PROPERTIES: 7-10 pH  SOLID  LIQUID  SLUDGE  SLURRY  OTHER \_\_\_\_\_

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PROTECTIVE CLOTHING

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Larry Moonhart BEST for BP 02/25/00  
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TRANSPORTER

NAME Transporter #1 STRATUS ENVIRONMENTAL Transporter #2

EPA I.D. NO.

ADDRESS 3330 CAMERON PARK DR

SERVICE ORDER NO. \_\_\_\_\_

CITY, STATE, ZIP CAMERON PARK, CA 95602

PICK UP DATE \_\_\_\_\_

PHONE NO. 530-676-2081

Chris Grant 02/25/00  
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

NAME INSTRAT, INC

EPA I.D. NO.

DISPOSAL METHOD

ADDRESS 1105 AIRPORT RD #C

LANDFILL  OTHER \_\_\_\_\_

CITY, STATE, ZIP RIO VISTA, CA 94571

PHONE NO. 530-753-1829

\_\_\_\_\_  
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TSD FACILITY

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	
C/Q		RT/CD		HWDF NONE

DISCREPANCY



# Laboratory Management Program LaMP Chain of Custody Record

BP/ARC Project Name: ARCO 11117

Req Due Date (mm/dd/yy): \_\_\_\_\_

Rush TAT: Yes \_\_\_\_\_ No

BP/ARC Facility No: \_\_\_\_\_

11117

Lab Work Order Number: \_\_\_\_\_

Lab Name: <u>Cal Science</u>	BP/ARC Facility Address: <u>7210 Bancroft</u>	Consultant/Contractor: <u>Stratus Environmental</u>
Lab Address: <u>7440 Lincoln Way</u>	City, State, ZIP Code: <u>Oakland, CA</u>	Consultant/Contractor Project No: <u>E11117-QM/O&amp;M</u>
Lab PM: <u>Richard Villafania</u>	Lead Regulatory Agency: <u>Alameda County</u>	Address: <u>3330 Cameron Park Dr., Cameron Park, CA 95682</u>
Lab Phone: <u>714-895-5494 / 714-895-7501 (fax)</u>	California Global ID No.: <u>T00600100210</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
Lab Shipping Acct:	Enfos Proposal No:	Phone: <u>530-676-6000 / 530-676-6005 (fax)</u>
Lab Bottle Order No:	Accounting Mode: Provision <input checked="" type="checkbox"/> OOC-BU <input type="checkbox"/> OOC-RM <input type="checkbox"/>	Email EDD To: <u>chuff@stratusinc.net</u>
Other Info:	Stage: _____ Activity: _____	Invoice To: BP/ARC _____ Contractor _____

BP/ARC EBM: Paul Supple

EBM Phone: 925-275-3506

EBM Email: paul.supple@bp.com

Lab No.	Sample Description	Date	Time	Matrix		No. Containers / Preservatives						Requested Analyses						Report Type & QC Level		Comments		
				Sol / Solid	Water / Liquid	Air / Vapor	Total Number of Containers	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	As by B015M	As by B015M *	507's *	EDS *	1/2 PCA *	Ethanol *	Standard <input checked="" type="checkbox"/>		Full Data Package <input type="checkbox"/>	
	DPE-3	2009 02/25	1820				2	0														
	DPE-4		1834				0															
	DPE-5		1850																			
	EX-1		1844																			
	EX-2		1907																			
	TB-11117-02272009	02/25	1500				2															"on hold"

Sampler's Name: <u>C. Grant</u>	Relinquished By / Affiliation: <u>[Signature] / Stratus</u>	Date: <u>02/27</u>	Time: <u>1230</u>	Accepted By / Affiliation: <u>[Signature] / CEC</u>	Date: <u>2-27-09</u>	Time: <u>(1231)</u>
Sampler's Company: <u>Stratus Environmental Inc.</u>	Shipment Method:		Ship Date:	Shipment Tracking No:		

Special Instructions: Please cc results to rmiller@broadbentinc.com

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No \_\_\_\_\_ Temp Blank: Yes / No \_\_\_\_\_ Cooler Temp on Receipt: \_\_\_\_\_ °F/C \_\_\_\_\_ Trip Blank: Yes / No \_\_\_\_\_ MS/MSD Sample Submitted: Yes / No \_\_\_\_\_



Laboratory Management Program LaMP Chain of Custody Record

BP/ARC Project Name: ARCO 11117

Req Due Date (mm/dd/yy): \_\_\_\_\_ Rush TAT: Yes \_\_\_ No

BP/ARC Facility No: 11117

Lab Work Order Number: \_\_\_\_\_

Lab Name: <u>Cal Science</u>	BP/ARC Facility Address: <u>7210 Bancroft</u>	Consultant/Contractor: <u>Stratus Environmental</u>
Lab Address: <u>7440 Lincoln Way</u>	City, State, ZIP Code: <u>Oakland, CA</u>	Consultant/Contractor Project No: <u>E11117-OM/O&amp;M</u>
Lab PM: <u>Richard Villafania</u>	Lead Regulatory Agency: <u>Alameda County</u>	Address: <u>3330 Cameron Park Dr., Cameron Park, CA 95682</u>
Lab Phone: <u>714-895-5494 / 714-895-7501 (fax)</u>	California Global ID No.: <u>T00600100210</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
Lab Shipping Acct:	Enfos Proposal No:	Phone: <u>530-676-6000 / 530-676-6005 (fax)</u>
Lab Bottle Order No:	Accounting Mode: Provision <input checked="" type="checkbox"/> OOC-BU _____ OOC-RM _____	Email EDD To: <u>chuff@stratusinc.net</u>
Other Info:	Stage: _____ Activity: _____	Invoice To: BP/ARC _____ Contractor _____

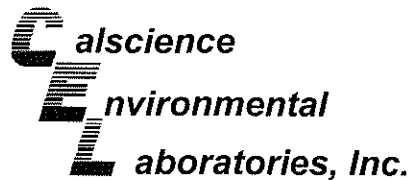
BP/ARC EBM: <u>Paul Supple</u>	Matrix	No. Containers / Preservative	Requested Analyses	Report Type & QC Level
EBM Phone: <u>925-275-3506</u>				Standard <input checked="" type="checkbox"/>
EBM Email: <u>paul.supple@bp.com</u>				Full Data Package <input type="checkbox"/>

Lab No.	Sample Description	Date	Time	Matrix				No. Containers / Preservative							Requested Analyses	Comments				
				Soil / Solid	Water / Liquid	Air / Vapor	Total Number of Containers	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methano	GLY BY 8015M	BTX			5 X Y'S	PDB	I.Z.D.A	Ethanol
MW-1		02/25	1718		X		6							X	X	X	X	X		
MW-3			1652																	
MW-4			1925																	
MW-6			1628																	
MW-8			1725																	
MW-9			1650																	
MW-10			1610																	
MW-11			1750																	
DPE-1			1985																	
DPE-2			1805																	

Sampler's Name: <u>C. Grant</u>	Relinquished By / Affiliation: <u>[Signature] Stratus</u>	Date: <u>02/27</u>	Time: <u>1200</u>	Accepted By / Affiliation: <u>[Signature] CEC</u>	Date: <u>2-27-09</u>	Time: <u>1230</u>
Sampler's Company: <u>Stratus Environmental Inc.</u>	Shipment Method: <u>BGA</u>		Ship Date: _____		Shipment Tracking No: _____	
Special Instructions: Please cc results to <u>rmiller@broadbentinc.com</u>						

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No	Temp Blank: Yes / No	Cooler Temp on Receipt: _____ °F/C	Trip Blank: Yes / No	MS/MSD Sample Submitted: Yes / No
--	----------------------	------------------------------------	----------------------	-----------------------------------





March 13, 2009

Jay Johnson  
Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Subject: **CalScience Work Order No.: 09-02-2533**  
Client Reference: **ARCO 11117**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/28/2009 and analyzed in accordance with the attached chain-of-custody.

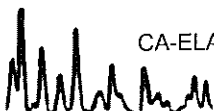
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

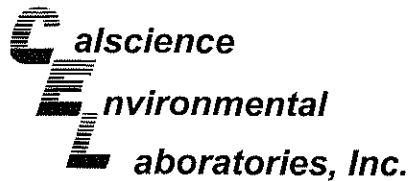
If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, which appears to read "Richard Villafania".

CalScience Environmental  
Laboratories, Inc.  
Richard Villafania  
Project Manager





## Analytical Report

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 02/28/09  
Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ARCO 11117

Page 1 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-02-2533-1-E	02/25/09 17:18	Aqueous	GC 4	03/07/09	03/08/09 09:34	090307B02

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	370	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	76	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	09-02-2533-2-E	02/25/09 16:52	Aqueous	GC 4	03/07/09	03/08/09 07:22	090307B02

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	71	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	84	38-134			

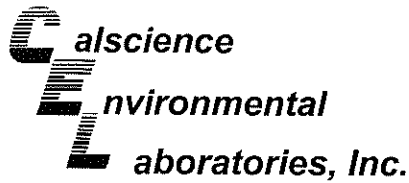
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	09-02-2533-3-D	02/25/09 19:25	Aqueous	GC 4	03/10/09	03/11/09 09:06	090310B01

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	39000	500	10		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	97	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	09-02-2533-4-E	02/25/09 16:28	Aqueous	GC 4	03/07/09	03/08/09 10:40	090307B02

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	120	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	79	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 02/28/09  
Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ARCO 11117

Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	09-02-2533-5-E	02/25/09 17:25	Aqueous	GC 4	03/07/09	03/07/09 22:02	090307B01

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	88	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	09-02-2533-6-E	02/25/09 16:50	Aqueous	GC 4	03/07/09	03/07/09 23:08	090307B01

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	600	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	88	38-134			

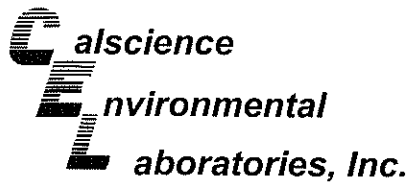
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	09-02-2533-7-E	02/25/09 16:10	Aqueous	GC 4	03/07/09	03/07/09 23:41	090307B01

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	84	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	93	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11	09-02-2533-8-E	02/25/09 17:50	Aqueous	GC 4	03/07/09	03/08/09 00:14	090307B01

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	6800	250	5		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	89	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 02/28/09  
Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ARCO 11117

Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE-1	09-02-2533-9-E	02/25/09 19:35	Aqueous	GC 4	03/07/09	03/08/09 00:47	090307B01

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	1100	1000	20		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	89	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE-2	09-02-2533-10-D	02/25/09 18:05	Aqueous	GC 4	03/10/09	03/11/09 09:39	090310B01

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	16000	500	10		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	95	38-134			

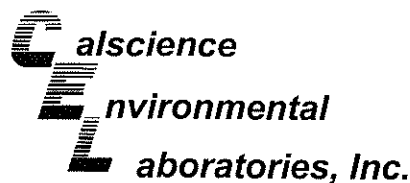
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE-3	09-02-2533-11-C	02/25/09 18:20	Aqueous	GC 4	03/07/09	03/08/09 01:53	090307B01

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	4400	1000	20		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	90	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE-4	09-02-2533-12-E	02/25/09 18:34	Aqueous	GC 4	03/07/09	03/08/09 02:26	090307B01

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	130000	5000	100		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	91	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 02/28/09  
Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ARCO 11117

Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE-5	09-02-2533-13-E	02/25/09 18:50	Aqueous	GC 4	03/07/09	03/08/09 02:59	090307B01

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	50000	2500	50		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	81	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EX-1	09-02-2533-14-E	02/25/09 18:44	Aqueous	GC 4	03/07/09	03/08/09 03:31	090307B01

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	3300	1200	25		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	86	38-134			

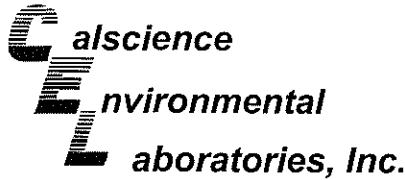
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EX-2	09-02-2533-15-E	02/25/09 19:07	Aqueous	GC 4	03/07/09	03/07/09 04:04	090307B01

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	77	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-695-465	N/A	Aqueous	GC 4	03/07/09	03/07/09 13:50	090307B01

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	80	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

03/10/09  
11:00 AM  
method

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 02/28/09  
Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ARCO 11117

Page 5 of 5

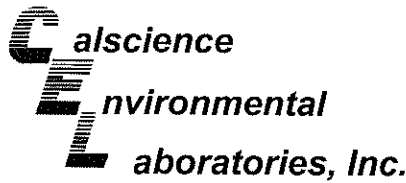
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-695-466	N/A	Aqueous	GC 4	03/07/09	03/08/09 06:49	090307B02

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	67	38-134			

Method Blank	099-12-695-469	N/A	Aqueous	GC 4	03/10/09	03/10/09 21:04	090310B01
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Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	91	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

09-02-2533-1-A  
net c

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 02/28/09  
Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ARCO 11117

Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-02-2533-1-A	02/25/09 17:18	Aqueous	GC/MS BB	03/09/09	03/10/09 02:24	090309L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	0.79	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	102	73-145			Dibromofluoromethane	101	81-135		
Toluene-d8	97	83-119			1,4-Bromofluorobenzene	89	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	09-02-2533-2-A	02/25/09 16:52	Aqueous	GC/MS BB	03/09/09	03/10/09 01:52	090309L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	101	73-145			Dibromofluoromethane	102	81-135		
Toluene-d8	98	83-119			1,4-Bromofluorobenzene	92	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	09-02-2533-3-A	02/25/09 19:25	Aqueous	GC/MS BB	03/09/09	03/10/09 04:00	090309L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	4600	100	200		Methyl-t-Butyl Ether (MTBE)	1300	100	200	
1,2-Dibromoethane	ND	100	200		Tert-Butyl Alcohol (TBA)	5600	2000	200	
1,2-Dichloroethane	ND	100	200		Diisopropyl Ether (DIPE)	ND	100	200	
Ethylbenzene	1800	100	200		Ethyl-t-Butyl Ether (ETBE)	ND	100	200	
Toluene	2100	100	200		Tert-Amyl-Methyl Ether (TAME)	ND	100	200	
Xylenes (total)	6300	100	200		Ethanol	ND	60000	200	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	101	73-145			Dibromofluoromethane	107	81-135		
Toluene-d8	101	83-119			1,4-Bromofluorobenzene	90	74-110		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

## Analytical Report



Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 02/28/09  
Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ARCO 11117

Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>MW-6</b>	<b>09-02-2533-4-B</b>	<b>02/25/09 16:28</b>	<b>Aqueous</b>	<b>GC/MS BB</b>	<b>03/09/09</b>	<b>03/10/09 04:33</b>	<b>090309L02</b>

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	13	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	104	73-145			Dibromofluoromethane	100	81-135		
Toluene-d8	99	83-119			1,4-Bromofluorobenzene	92	74-110		


Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>MW-8</b>	<b>09-02-2533-5-A</b>	<b>02/25/09 17:25</b>	<b>Aqueous</b>	<b>GC/MS BB</b>	<b>03/09/09</b>	<b>03/10/09 05:05</b>	<b>090309L02</b>

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	101	73-145			Dibromofluoromethane	101	81-135		
Toluene-d8	98	83-119			1,4-Bromofluorobenzene	94	74-110		

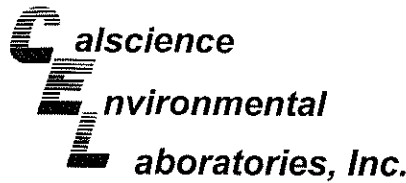
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>MW-9</b>	<b>09-02-2533-6-A</b>	<b>02/25/09 16:50</b>	<b>Aqueous</b>	<b>GC/MS BB</b>	<b>03/09/09</b>	<b>03/10/09 05:37</b>	<b>090309L02</b>

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	11	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	17	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	1.1	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	0.86	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	2.2	0.50	1		Ethanol	ND	300	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	99	73-145			Dibromofluoromethane	106	81-135		
Toluene-d8	97	83-119			1,4-Bromofluorobenzene	92	74-110		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers







Analytical Report

11117

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 02/28/09  
Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ARCO 11117

Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>MW-10</b>	<b>09-02-2533-7-B</b>	<b>02/25/09 16:10</b>	<b>Aqueous</b>	<b>GC/MS BB</b>	<b>03/10/09</b>	<b>03/10/09 17:18</b>	<b>090310L01</b>

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	10		Methyl-t-Butyl Ether (MTBE)	290	5.0	10	
1,2-Dibromoethane	ND	5.0	10		Tert-Butyl Alcohol (TBA)	ND	100	10	
1,2-Dichloroethane	ND	5.0	10		Diisopropyl Ether (DIPE)	ND	5.0	10	
Ethylbenzene	ND	5.0	10		Ethyl-t-Butyl Ether (ETBE)	ND	5.0	10	
Toluene	ND	5.0	10		Tert-Amyl-Methyl Ether (TAME)	ND	5.0	10	
Xylenes (total)	ND	5.0	10		Ethanol	ND	3000	10	
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>	<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>
1,2-Dichloroethane-d4	106	73-145			Dibromofluoromethane	108	81-135		
Toluene-d8	97	83-119			1,4-Bromofluorobenzene	93	74-110		

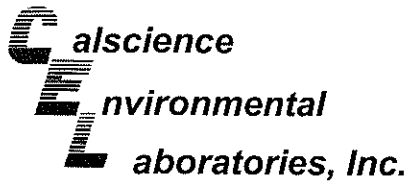
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>MW-11</b>	<b>09-02-2533-8-A</b>	<b>02/25/09 17:50</b>	<b>Aqueous</b>	<b>GC/MS BB</b>	<b>03/09/09</b>	<b>03/10/09 06:41</b>	<b>090309L02</b>

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.86	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	150	10	20		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	20	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	390	10	20		Ethanol	ND	300	1	
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>	<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>
1,2-Dichloroethane-d4	102	73-145			Dibromofluoromethane	129	81-135		
Toluene-d8	100	83-119			1,4-Bromofluorobenzene	94	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>DPE-1</b>	<b>09-02-2533-9-B</b>	<b>02/25/09 19:35</b>	<b>Aqueous</b>	<b>GC/MS BB</b>	<b>03/10/09</b>	<b>03/10/09 17:51</b>	<b>090310L01</b>

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	170	10	20		Methyl-t-Butyl Ether (MTBE)	ND	10	20	
1,2-Dibromoethane	ND	10	20		Tert-Butyl Alcohol (TBA)	2400	200	20	
1,2-Dichloroethane	ND	10	20		Diisopropyl Ether (DIPE)	ND	10	20	
Ethylbenzene	ND	10	20		Ethyl-t-Butyl Ether (ETBE)	ND	10	20	
Toluene	ND	10	20		Tert-Amyl-Methyl Ether (TAME)	ND	10	20	
Xylenes (total)	ND	10	20		Ethanol	ND	6000	20	
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>	<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>
1,2-Dichloroethane-d4	107	73-145			Dibromofluoromethane	106	81-135		
Toluene-d8	99	83-119			1,4-Bromofluorobenzene	90	74-110		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 02/28/09
Work Order No: 09-02-2533
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ARCO 11117

Page 4 of 6

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row: DPE-2, 09-02-2533-10-B, 02/25/09 18:05, Aqueous, GC/MS BB, 03/09/09, 03/10/09 07:45, 090309L02

Table with 10 columns: Parameter, Result, RL, DF, Qual, Parameter, Result, RL, DF, Qual. Rows include Benzene, 1,2-Dibromoethane, 1,2-Dichloroethane, Ethylbenzene, Toluene, Xylenes (total), Surrogates, 1,2-Dichloroethane-d4, Toluene-d8, Methyl-t-Butyl Ether (MTBE), Tert-Butyl Alcohol (TBA), Diisopropyl Ether (DIPE), Ethyl-t-Butyl Ether (ETBE), Tert-Amyl-Methyl Ether (TAME), Ethanol, Dibromofluoromethane, 1,4-Bromofluorobenzene.

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row: DPE-3, 09-02-2533-11-B, 02/25/09 18:20, Aqueous, GC/MS BB, 03/10/09, 03/10/09 18:23, 090310L01

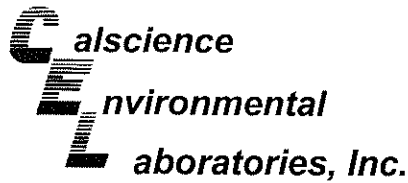
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Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row: DPE-4, 09-02-2533-12-A, 02/25/09 18:34, Aqueous, GC/MS BB, 03/09/09, 03/10/09 08:49, 090309L02

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 02/28/09  
Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ARCO 11117

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE-5	09-02-2533-13-A	02/25/09 18:50	Aqueous	GC/MS BB	03/09/09	03/10/09 09:21	090309L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	6600	100	200		Methyl-t-Butyl Ether (MTBE)	3100	100	200	
1,2-Dibromoethane	ND	100	200		Tert-Butyl Alcohol (TBA)	5100	2000	200	
1,2-Dichloroethane	ND	100	200		Diisopropyl Ether (DIPE)	ND	100	200	
Ethylbenzene	2300	100	200		Ethyl-t-Butyl Ether (ETBE)	ND	100	200	
Toluene	590	100	200		Tert-Amyl-Methyl Ether (TAME)	ND	100	200	
Xylenes (total)	6100	100	200		Ethanol	ND	60000	200	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	103	73-145			Dibromofluoromethane	110	81-135		
Toluene-d8	99	83-119			1,4-Bromofluorobenzene	93	74-110		

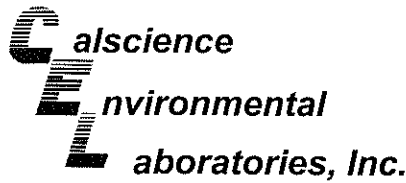
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EX-1	09-02-2533-14-A	02/25/09 18:44	Aqueous	GC/MS BB	03/09/09	03/10/09 09:53	090309L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	880	25	50		Methyl-t-Butyl Ether (MTBE)	440	25	50	
1,2-Dibromoethane	ND	25	50		Tert-Butyl Alcohol (TBA)	ND	500	50	
1,2-Dichloroethane	ND	25	50		Diisopropyl Ether (DIPE)	ND	25	50	
Ethylbenzene	190	25	50		Ethyl-t-Butyl Ether (ETBE)	ND	25	50	
Toluene	110	25	50		Tert-Amyl-Methyl Ether (TAME)	ND	25	50	
Xylenes (total)	120	25	50		Ethanol	ND	15000	50	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	105	73-145			Dibromofluoromethane	110	81-135		
Toluene-d8	100	83-119			1,4-Bromofluorobenzene	93	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EX-2	09-02-2533-15-A	02/25/09 19:07	Aqueous	GC/MS BB	03/09/09	03/09/09 21:36	090309L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	0.58	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	101	73-145			Dibromofluoromethane	107	81-135		
Toluene-d8	97	83-119			1,4-Bromofluorobenzene	93	74-110		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



**Analytical Report**

*Handwritten notes:*  
 090309L01  
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Stratus Environmental, inc.  
 3330 Cameron Park Drive, Suite 550  
 Cameron Park, CA 95682-8861

Date Received: 02/28/09  
 Work Order No: 09-02-2533  
 Preparation: EPA 5030B  
 Method: EPA 8260B  
 Units: ug/L

Project: ARCO 11117

Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-703-760	N/A	Aqueous	GC/MS BB	03/09/09	03/09/09 12:30	090309L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	99	73-145			Dibromofluoromethane	104	81-135		
Toluene-d8	97	83-119			1,4-Bromofluorobenzene	93	74-110		

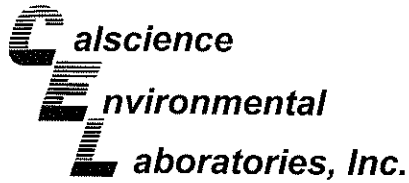
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-703-762	N/A	Aqueous	GC/MS BB	03/10/09	03/10/09 14:06	090310L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	103	73-145			Dibromofluoromethane	105	81-135		
Toluene-d8	98	83-119			1,4-Bromofluorobenzene	91	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-703-763	N/A	Aqueous	GC/MS BB	03/09/09	03/10/09 01:20	090309L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	104	73-145			Dibromofluoromethane	103	81-135		
Toluene-d8	98	83-119			1,4-Bromofluorobenzene	90	74-110		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate

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Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

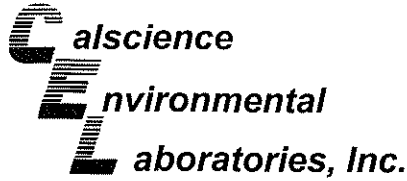
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Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project ARCO 11117

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2557-3	Aqueous	GC 4	03/07/09	03/07/09	090307S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	103	109	38-134	5	0-25	

RPD - Relative Percent Difference , CL - Control Limit



**Quality Control - Spike/Spike Duplicate**

*MW-3*

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 Cameron Park, CA 95682-8861

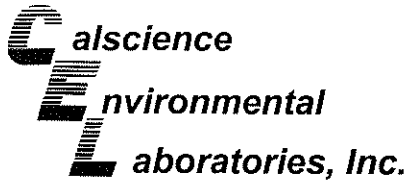
Date Received: 02/28/09  
 Work Order No: 09-02-2533  
 Preparation: EPA 5030B  
 Method: EPA 8015B (M)

Project ARCO 11117

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-3	Aqueous	GC 4	03/07/09	03/08/09	090307S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	109	110	38-134	1	0-25	

RPD - Relative Percent Difference, CL - Control Limit



**Quality Control - Spike/Spike Duplicate**

09-02-2560-3  
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3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

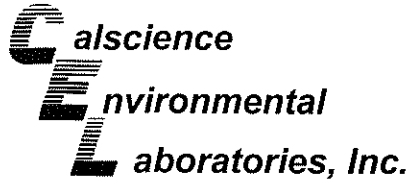
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Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project ARCO 11117

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2560-3	Aqueous	GC 4	03/10/09	03/10/09	090310S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	99	107	38-134	8	0-25	

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - Spike/Spike Duplicate

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3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

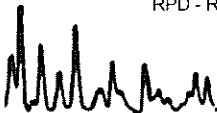
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Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8260B

Project ARCO 11117

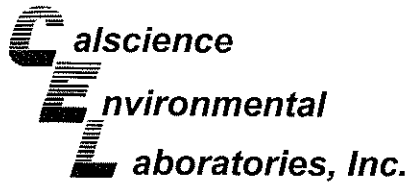
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2525-8	Aqueous	GC/MS BB	03/09/09	03/09/09	090309S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	103	100	86-122	2	0-8	
Carbon Tetrachloride	109	111	78-138	2	0-9	
Chlorobenzene	105	106	90-120	1	0-9	
1,2-Dibromoethane	108	108	70-130	1	0-30	
1,2-Dichlorobenzene	108	108	89-119	1	0-10	
1,1-Dichloroethene	104	106	52-142	2	0-23	
Ethylbenzene	97	98	70-130	0	0-30	
Toluene	105	105	85-127	0	0-12	
Trichloroethene	104	104	78-126	0	0-10	
Vinyl Chloride	84	87	56-140	4	0-21	
Methyl-t-Butyl Ether (MTBE)	99	101	64-136	2	0-28	
Tert-Butyl Alcohol (TBA)	100	104	27-183	2	0-60	
Diisopropyl Ether (DIPE)	97	99	78-126	2	0-16	
Ethyl-t-Butyl Ether (ETBE)	97	99	67-133	2	0-21	
Tert-Amyl-Methyl Ether (TAME)	95	96	63-141	0	0-21	
Ethanol	100	94	11-167	6	0-64	

RPD - Relative Percent Difference, CL - Control Limit







## Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

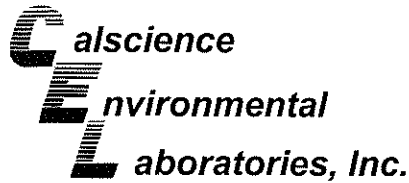
Date Received: 02/28/09  
Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8260B

Project ARCO 11117

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-3	Aqueous	GC/MS BB	03/09/09	03/10/09	090309S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	110	112	86-122	3	0-8	
Carbon Tetrachloride	112	116	78-138	3	0-9	
Chlorobenzene	106	110	90-120	3	0-9	
1,2-Dibromoethane	104	106	70-130	2	0-30	
1,2-Dichlorobenzene	108	112	89-119	3	0-10	
1,1-Dichloroethene	106	107	52-142	0	0-23	
Ethylbenzene	96	100	70-130	4	0-30	
Toluene	104	106	85-127	2	0-12	
Trichloroethene	103	105	78-126	2	0-10	
Vinyl Chloride	90	92	56-140	3	0-21	
Methyl-t-Butyl Ether (MTBE)	95	99	64-136	4	0-28	
Tert-Butyl Alcohol (TBA)	112	113	27-183	1	0-60	
Diisopropyl Ether (DIPE)	99	101	78-126	2	0-16	
Ethyl-t-Butyl Ether (ETBE)	95	98	67-133	4	0-21	
Tert-Amyl-Methyl Ether (TAME)	90	95	63-141	5	0-21	
Ethanol	115	118	11-167	3	0-64	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

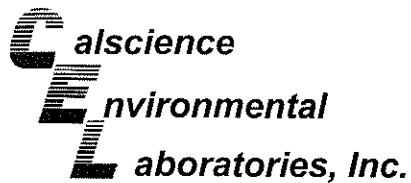
Date Received: 02/28/09  
Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8260B

Project ARCO 11117

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2557-11	Aqueous	GC/MS BB	03/10/09	03/10/09	090310S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	113	112	86-122	1	0-8	
Carbon Tetrachloride	116	117	78-138	1	0-9	
Chlorobenzene	108	112	90-120	3	0-9	
1,2-Dibromoethane	110	110	70-130	0	0-30	
1,2-Dichlorobenzene	110	112	89-119	2	0-10	
1,1-Dichloroethene	93	88	52-142	6	0-23	
Ethylbenzene	96	93	70-130	2	0-30	
Toluene	104	101	85-127	3	0-12	
Trichloroethene	109	107	78-126	1	0-10	
Vinyl Chloride	85	91	56-140	7	0-21	
Methyl-t-Butyl Ether (MTBE)	98	99	64-136	1	0-28	
Tert-Butyl Alcohol (TBA)	114	111	27-183	2	0-60	
Diisopropyl Ether (DIPE)	99	100	78-126	1	0-16	
Ethyl-t-Butyl Ether (ETBE)	95	96	67-133	0	0-21	
Tert-Amyl-Methyl Ether (TAME)	94	93	63-141	0	0-21	
Ethanol	108	127	11-167	16	0-64	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate

1191 c

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

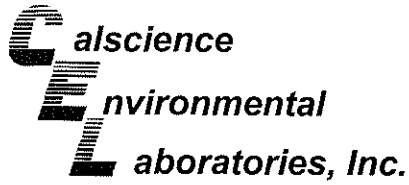
Date Received: N/A  
Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ARCO 11117

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-695-465	Aqueous	GC 4	03/07/09	03/07/09	090307B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	100	105	78-120	5	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate

net c

Stratus Environmental, inc.  
 3330 Cameron Park Drive, Suite 550  
 Cameron Park, CA 95682-8861

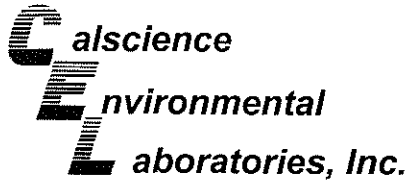
Date Received: N/A  
 Work Order No: 09-02-2533  
 Preparation: EPA 5030B  
 Method: EPA 8015B (M)

Project: ARCO 11117

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-695-466	Aqueous	GC 4	03/07/09	03/08/09	090307B02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	106	108	78-120	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate

09-02-2533  
hel c

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

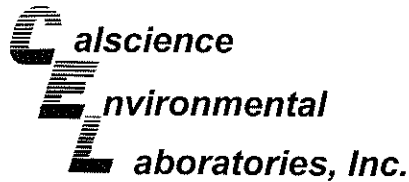
Date Received: N/A  
Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ARCO 11117

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-695-469	Aqueous	GC 4	03/10/09	03/10/09	090310B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	109	108	78-120	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

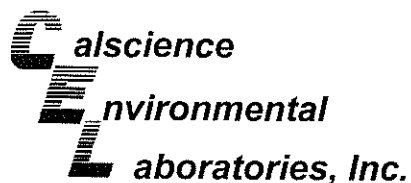
Date Received: N/A  
Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: ARCO 11117

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-703-760	Aqueous	GC/MS BB	03/09/09	03/09/09	090309L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	106	110	87-117	82-122	3	0-7	
Carbon Tetrachloride	106	110	78-132	69-141	4	0-8	
Chlorobenzene	106	108	88-118	83-123	2	0-8	
1,2-Dibromoethane	99	109	80-120	73-127	10	0-20	
1,2-Dichlorobenzene	104	110	88-118	83-123	5	0-8	
1,1-Dichloroethene	108	115	71-131	61-141	7	0-14	
Ethylbenzene	99	101	80-120	73-127	2	0-20	
Toluene	104	107	85-127	78-134	4	0-7	
Trichloroethene	103	109	85-121	79-127	5	0-11	
Vinyl Chloride	101	106	64-136	52-148	6	0-10	
Methyl-t-Butyl Ether (MTBE)	90	101	67-133	56-144	12	0-16	
Tert-Butyl Alcohol (TBA)	98	99	34-154	14-174	1	0-19	
Diisopropyl Ether (DIPE)	92	99	80-122	73-129	7	0-8	
Ethyl-t-Butyl Ether (ETBE)	90	99	73-127	64-136	9	0-11	
Tert-Amyl-Methyl Ether (TAME)	90	98	69-135	58-146	9	0-12	
Ethanol	114	104	34-124	19-139	9	0-44	

Total number of LCS compounds : 16  
Total number of ME compounds : 0  
Total number of ME compounds allowed : 1  
LCS ME CL validation result : Pass

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate



Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

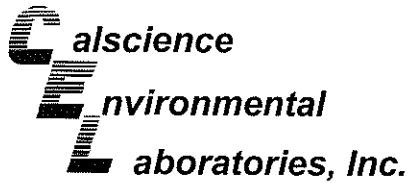
Date Received: N/A  
Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: ARCO 11117

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-703-763	Aqueous	GC/MS BB	03/09/09	03/09/09	090309L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	110	110	87-117	82-122	0	0-7	
Carbon Tetrachloride	117	115	78-132	69-141	2	0-8	
Chlorobenzene	108	109	88-118	83-123	1	0-8	
1,2-Dibromoethane	108	108	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	111	111	88-118	83-123	0	0-8	
1,1-Dichloroethene	113	108	71-131	61-141	5	0-14	
Ethylbenzene	100	99	80-120	73-127	1	0-20	
Toluene	106	106	85-127	78-134	0	0-7	
Trichloroethene	123	126	85-121	79-127	2	0-11	LQ
Vinyl Chloride	97	91	64-136	52-148	7	0-10	
Methyl-t-Butyl Ether (MTBE)	101	97	67-133	56-144	4	0-16	
Tert-Butyl Alcohol (TBA)	112	114	34-154	14-174	2	0-19	
Diisopropyl Ether (DIPE)	102	100	80-122	73-129	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	98	97	73-127	64-136	2	0-11	
Tert-Amyl-Methyl Ether (TAME)	94	93	69-135	58-146	1	0-12	
Ethanol	111	110	34-124	19-139	1	0-44	

Total number of LCS compounds : 16  
Total number of ME compounds : 1  
Total number of ME compounds allowed : 1  
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: N/A  
Work Order No: 09-02-2533  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: ARCO 11117

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-703-762	Aqueous	GC/MS BB	03/10/09	03/10/09	090310L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	113	110	87-117	82-122	2	0-7	
Carbon Tetrachloride	120	116	78-132	69-141	4	0-8	
Chlorobenzene	113	110	88-118	83-123	3	0-8	
1,2-Dibromoethane	112	110	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	110	112	88-118	83-123	2	0-8	
1,1-Dichloroethene	114	112	71-131	61-141	2	0-14	
Ethylbenzene	104	101	80-120	73-127	3	0-20	
Toluene	109	107	85-127	78-134	2	0-7	
Trichloroethene	112	110	85-121	79-127	1	0-11	
Vinyl Chloride	98	95	64-136	52-148	3	0-10	
Methyl-t-Butyl Ether (MTBE)	104	100	67-133	56-144	3	0-16	
Tert-Butyl Alcohol (TBA)	109	112	34-154	14-174	3	0-19	
Diisopropyl Ether (DIPE)	103	101	80-122	73-129	3	0-8	
Ethyl-t-Butyl Ether (ETBE)	100	98	73-127	64-136	2	0-11	
Tert-Amyl-Methyl Ether (TAME)	96	95	69-135	58-146	0	0-12	
Ethanol	110	113	34-124	19-139	3	0-44	

Total number of LCS compounds : 16  
Total number of ME compounds : 0  
Total number of ME compounds allowed : 1  
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit






 Work Order Number: 09-02-2533
 

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<u>Qualifier</u>	<u>Definition</u>
AX	Sample too dilute to quantify surrogate.
BA	There was no MS/MSD analyzed with this batch due to insufficient sample volume (NR = not reported). See Blank Spike/Blank Spike Duplicate.
BA,AY	Relative percent difference out of control, matrix interference suspected.
BB	Sample > 4x spike concentration.
BF	Reporting limits raised due to high hydrocarbon background.
BH	Reporting limits raised due to high level of non-target analytes.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
BY	Sample received at improper temperature.
CL	Initial analysis within holding time but required dilution.
CQ	Analyte concentration greater than 10 times the blank concentration.
CU	Surrogate concentration diluted to not detectable during analysis.
DF	Reporting limits elevated due to matrix interferences.
ET	Sample was extracted past end of recommended max. holding time.
EY	Result exceeds normal dynamic range; reported as a min est.
GS	Internal standard recovery is outside method recovery limit.
IB	CCV recovery above limit; analyte not detected.
IH	Calibrtn. verif. recov. below method CL for this analyte.
IJ	Calibrtn. verif. recov. above method CL for this analyte.
J,DX	J=EPA Flag -Estimated value; DX= Value < lowest standard (MQL), but > than MDL.
LA	Confirmatory analysis was past holding time.
LG	Surrogate recovery below the acceptance limit.
LH	Surrogate recovery above the acceptance limit.
LM,AY	MS and/or MSD above acceptance limits. See Blank Spike (LCS). Matrix interference suspected.
LN,AY	MS and/or MSD below acceptance limits. See Blank Spike (LCS). Matrix interference suspected.
LQ	LCS recovery above method control limits.
LR	LCS recovery below method control limits.

Work Order Number: 09-02-2533

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<u>Qualifier</u>	<u>Definition</u>
MB	Analyte present in the method blank.
MG	Analyte is a suspected lab contaminate.
PC	Sample taken from VOA vial with air bubble > 6mm diameter.
PI	Primary and confirm results varied by > than 40% RPD.
RB	RPD exceeded method control limit; % recoveries within limits.





# Laboratory Management Program LaMP Chain of Custody Record

BP/ARC Project Name: ARCO 11117

Req Due Date (mm/dd/yy): \_\_\_\_\_

Rush TAT: Yes \_\_\_ No X

BP/ARC Facility No: \_\_\_\_\_ 11117

Lab Work Order Number: 09-02-2533

Lab Name: <u>Cal Science</u>	BP/ARC Facility Address: <u>7210 Bancroft</u>	Consultant/Contractor: <u>Stratus Environmental</u>
Lab Address: <u>7440 Lincoln Way</u>	City, State, ZIP Code: <u>Oakland, CA</u>	Consultant/Contractor Project No: <u>E11117-QM/O&amp;M</u>
Lab PM: <u>Richard Villafania</u>	Lead Regulatory Agency: <u>Alameda County</u>	Address: <u>3330 Cameron Park Dr., Cameron Park, CA 95682</u>
Lab Phone: <u>714-895-5494 / 714-895-7501 (fax)</u>	California Global ID No.: <u>T00600100210</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
Lab Shipping Acct:	Enfos Proposal No:	Phone: <u>530-676-6000 / 530-676-6005 (fax)</u>
Lab Bottle Order No:	Accounting Mode: Provision <u>X</u> OOC-BU ___ OOC-RM ___	Email EDD To: <u>chuff@stratusinc.net</u>
Other Info:	Stage: _____ Activity: _____	Invoice To: BP/ARC ___ Contractor ___

BP/ARC EBM: <u>Paul Supple</u>				Matrix		No. Containers / Preservative							Requested Analyses						Report Type & QC Level	
EBM Phone: <u>925-275-3506</u>				Soil / Solid	Water / Liquid	Air / Vapor	Total Number of Containers	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GRA by 8015M	BTEX	SOXYS	EDB	1,2 DCA	Ethanol	Standard <u>X</u>	
EBM Email: <u>paul.supple@bp.com</u>																			Full Data Package ___	
Lab No.	Sample Description	Date	Time																Comments	
1	MW-1	02/25	1712	X			6					X	X	X	X	X	X			
2	MW-3		1652																	
3	MW-4		1925																	
4	MW-6		1628																	
5	MW-8		1725																	
6	MW-9		1650																	
7	MW-10		1610																	
8	MW-11		1750																	
9	DPE-1		1935																	
10	DPE-2		1805																	

Sampler's Name: <u>C. Grant</u>	Relinquished By / Affiliation		Date	Time	Accepted By / Affiliation		Date	Time
Sampler's Company: <u>Stratus Environmental Inc.</u>	<u>[Signature]</u> / Stratus		02/27	1230	<u>[Signature]</u> / CEL		2/27/09	1230
Shipment Method: <u>950</u>	Ship Date:				<u>[Signature]</u> / CEL		2/28/09	9:10
Shipment Tracking No: <u>511367845</u>								

Special Instructions: Please cc results to rmiller@broadbentinc.com

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No    Temp Blank: Yes / No    Cooler Temp on Receipt: \_\_\_\_\_ °F/C    Trip Blank: Yes / No    MS/MSD Sample Submitted: Yes / No

Page 27 of 29



# Laboratory Management Program LaMP Chain of Custody Record

Page 2 of 2

BP/ARC Project Name: ARCO 11117

Req Due Date (mm/dd/yy): \_\_\_\_\_

Rush TAT: Yes \_\_\_\_\_ No

BP/ARC Facility No: \_\_\_\_\_ 11117

Lab Work Order Number: 09-02-2533

Lab Name: Cal Science	BP/ARC Facility Address: 7210 Bancroft	Consultant/Contractor: Stratus Environmental
Lab Address: 7440 Lincoln Way	City, State, ZIP Code: Oakland, CA	Consultant/Contractor Project No: E11117-QM/O&M
Lab PM: Richard Villafania	Lead Regulatory Agency: Alameda County	Address: 3330 Cameron Park Dr., Cameron Park, CA 95682
Lab Phone: 714-895-5494 / 714-895-7501 (fax)	California Global ID No.: T00600100210	Consultant/Contractor PM: Jay Johnson
Lab Shipping Acctnt:	Enfos Proposal No:	Phone: 530-676-6000 / 530-676-6005 (fax)
Lab Bottle Order No:	Accounting Mode: Provision <input checked="" type="checkbox"/> OOC-BU _____ OOC-RM _____	Email EDD To: <u>chuff@stratusinc.net</u>
Other Info:	Stage: _____ Activity: _____	Invoice To: BP/ARC _____ Contractor _____

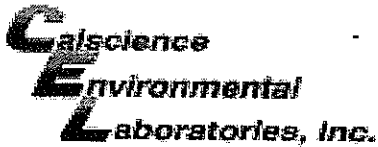
BP/ARC EBM: Paul Supple				Matrix		No. Containers / Preservative							Requested Analyses						Report Type & QC Level	
EBM Phone: 925-275-3506				Soil / Solid	Water / Liquid	Air / Vapor	Total Number of Containers	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GRD by 8015M	BTEX *	50X7'S *	EDB *	1,2 DCA *	ETHANOL *	Standard <input checked="" type="checkbox"/>	
EBM Email: <u>paul.supple@bp.com</u>																			Full Data Package _____	
Lab No.	Sample Description	Date	Time																Comments	
11	DPE-3	02/25	1820	X		4	6				X	X	X	X	X	X	X			
12	DPE-4		1834			6													* by 8260	
13	DPE-5		1850																	
14	EX-1		1844																	
15	EX-2		1907																	
16	TB-11117-02272609	02/25	1500	F		2													"on hold"	

Sampler's Name: <u>C. Grant</u>	Relinquished By / Affiliation: <u>[Signature] / Stratus</u>	Date: <u>02/27</u>	Time: <u>1230</u>	Accepted By / Affiliation: <u>[Signature] CEL</u>	Date: <u>2-27-09</u>	Time: <u>1230</u>
Sampler's Company: <u>Stratus Environmental Inc.</u>	Relinquished By / Affiliation: <u>[Signature] / GSD</u>	Date: <u>2-27-09</u>	Time: <u>1730</u>	Accepted By / Affiliation: <u>[Signature] CEL</u>	Date: <u>2-28-09</u>	Time: <u>9:10</u>
Shipment Method: _____	Ship Date: _____					
Shipment Tracking No: <u>511367845</u>						

Special Instructions: Please cc results to rmiller@broadbentinc.com

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No    Temp Blank: Yes / No    Cooler Temp on Receipt: \_\_\_\_\_ °F/C    Trip Blank: Yes / No    MS/MSD Sample Submitted: Yes / No

Page 26 of 30



WORK ORDER #: 09-02-2E33

**SAMPLE RECEIPT FORM**

Cooler 1 of 1

CLIENT: stratus

DATE: 02/28/09

**TEMPERATURE:** (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.1 °C - 0.2 °C (CF) = 1.9 °C  Blank  Sample

Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature:  Air  Filter  Metals Only  PCBs Only

Initial: JD

**CUSTODY SEALS INTACT:**

Cooler  \_\_\_\_\_  No (Not Intact)  Not Present  N/A

Sample  \_\_\_\_\_  No (Not Intact)  Not Present

Initial: JD

Initial: JD

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:**

Solid:  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve  EnCores®  TerraCores®  \_\_\_\_\_

Water:  VOA  VOAh  VOAna<sub>2</sub>  125AGB  125AGBh  125AGBpo<sub>4</sub>  1AGB  1AGBna<sub>2</sub>

1AGBs  500AGB  500AGBs  250CGB  250CGBs  1PB  500PB  500PBna  250PB

250PBn  125PB  125PBznn  100PBsterile  100PBna<sub>2</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

Air:  Tedlar®  Summa®  \_\_\_\_\_

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO<sub>3</sub> na<sub>2</sub>:Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na:NaOH po<sub>4</sub>:H<sub>3</sub>PO<sub>4</sub> s:H<sub>2</sub>SO<sub>4</sub> znn:ZnAc<sub>2</sub>+NaOH

Checked/Labeled by: SO

Reviewed by: WJC

Scanned by: SO

## ATTACHMENT

### FIELD PROCEDURES FOR GROUNDWATER SAMPLING

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The sampling procedures for groundwater monitoring events are contained in this appendix.

#### **Groundwater and Liquid-Phase Petroleum Hydrocarbon Depth Assessment**

Prior to measuring the depth to liquid in the well, the well caps are removed and the liquid level allowed to stabilize. A water/hydrocarbon interface probe is used to assess the liquid-phase petroleum hydrocarbon (LPH) thickness, if present, and a water level indicator is used to measure the groundwater depth in monitoring wells that do not contain LPH. Depth to groundwater or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typically a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for hydrocarbon sheen.

#### **Subjective Analysis of Groundwater**

Prior to purging, a water sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

#### **Monitoring Well Sampling**

In many cases, determining whether to purge or not to purge wells prior to sample collection is made in the field and is often based on depth to water relative to the screen interval of the well. Site-specific field data sheets present details associated with the purge method and equipment used.

Monitoring wells, when purged, use a pump or bailer until pH, temperature, and conductivity of the purge water has stabilized and a minimum of three well volumes of water has been removed. Field measuring equipment is calibrated and maintained according to the manufacturer's instructions. If three well volumes cannot be removed in one half hour's time the well is allowed to recharge to 80% of original level. After recharging, a groundwater sample is then collected from each of the wells using disposable bailers.

A Teflon bailer, electric submersible or bladder pump will be the only equipment used for well sampling. When samples for volatile organic analysis are being collected, the pump flow will be regulated at approximately 100 milliliters per minute to minimize pump effluent turbulence and aeration. Glass bottles of at least 40-milliliters volume and fitted with Teflon-lined septa will be used in sampling for volatile organics. These

bottles will be filled completely to prevent air accumulation in the bottle. A positive meniscus forms when the bottle is completely full. A convex Teflon septum will be placed over the positive meniscus to eliminate air. After the bottle is capped, it is inverted and tapped to verify that it contains no air bubbles. The sample containers for other parameters will be filled, filtered as required, and capped. Glass and plastic bottles used by Stratus to collect groundwater samples are supplied by the laboratory.

### **Groundwater Sample Labeling and Preservation**

Samples are collected in appropriate containers supplied by the laboratory. All required chemical preservation is added to the bottles prior to delivery to Stratus. Sample label information includes a unique sample identification number, job identification number, date, and time. After labeling, all groundwater samples are placed in a Ziploc® type bag and placed in an ice chest cooled to approximately 4° Celsius. Upon arriving at Stratus' office the samples are transferred to a locked refrigerator cooled to approximately 4° Celsius. Chemical preservation is controlled by the required analysis and is noted on the chain-of-custody form. Trip and temperature blanks supplied by the laboratory accompany the groundwater sample containers and groundwater samples.

### **Sample Identification and Chain-of-Custody Procedures**

Sample identification and chain-of-custody procedures document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis has a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel, and any other pertinent field observations, is recorded in the field records. The samples are analyzed by a California-certified laboratory.

A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquishes the samples by signing the chain-of-custody form and noting the time. The sample-control officer at the laboratory verifies sample integrity and confirms that the samples are collected in the proper containers, preserved correctly, and contain adequate volumes for analysis. These conditions are noted on a Laboratory Sample Receipt Checklist that becomes part of the laboratory report upon request.

If these conditions are met, each sample is assigned a unique log number for identification throughout analysis and reporting. The log number is recorded on the chain-of-custody form and in the legally-required log book maintained by the laboratory. The sample description, date received, client's name, and other relevant information is also recorded.

### **Equipment Cleaning**

All reusable sampling equipments are cleaned using phosphate-free detergents and rinsed with de-ionized water.

## **APPENDIX B**

### **GEOTRACKER UPLOAD CONFIRMATIONS**



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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!

<b><u>Submittal Type:</u></b>	<b>GEO_WELL</b>
<b><u>Submittal Title:</u></b>	<b>1Q09 GEO_WELL 11117</b>
<b><u>Facility Global ID:</u></b>	<b>T0600100201</b>
<b><u>Facility Name:</u></b>	<b>BP #11117</b>
<b><u>File Name:</u></b>	<b>GEO_WELL.zip</b>
<b><u>Organization Name:</u></b>	<b>Broadbent &amp; Associates, Inc.</b>
<b><u>Username:</u></b>	<b>BROADBENT-C</b>
<b><u>IP Address:</u></b>	<b>67.118.40.90</b>
<b><u>Submittal Date/Time:</u></b>	<b>3/30/2009 1:52:19 PM</b>
<b><u>Confirmation Number:</u></b>	<b>3655864894</b>

STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A EDF FILE

**SUCCESS**

Processing is complete. No errors were found!  
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<b><u>Submittal Type:</u></b>	EDF - Monitoring Report - Quarterly
<b><u>Submittal Title:</u></b>	1Q09 GW Monitoring
<b><u>Facility Global ID:</u></b>	T0600100201
<b><u>Facility Name:</u></b>	BP #11117
<b><u>File Name:</u></b>	09022533.zip
<b><u>Organization Name:</u></b>	Broadbent & Associates, Inc.
<b><u>Username:</u></b>	BROADBENT-C
<b><u>IP Address:</u></b>	67.118.40.90
<b><u>Submittal Date/Time:</u></b>	3/30/2009 1:59:47 PM
<b><u>Confirmation Number:</u></b>	<b>2205806910</b>

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