Atlantic Richfield Company
(a BP affiliated company)

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

25 January 2008

Re: Fourth Quarter 2007 Ground-Water Monitoring Report
Former BP Service Station # 11102
100 MacArthur Boulevard
Oakland, California
ACEH Case #RO0000456

"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 Manager

Fourth Quarter 2007 Ground-Water Monitoring Report
Former BP Service Station #11102
100 MacArthur Boulevard
Oakland, California

Prepared for

Mr. Paul Supple
Environmental Business Manager
Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583

Prepared by

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

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

25 January 2008

Project No. 06-08-643

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

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

25 January 2008 Project No. 06-08-643

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

Attn.: Mr. Paul Supple

Re: Fourth Quarter 2007 Ground-Water Monitoring Report, Former BP Service Station #11102, 100 MacArthur Boulevard, Alameda County, Oakland, California; ACEH Case #RO0000456

Dear Mr. Supple:

Attached is the *Fourth Quarter 2007 Ground-Water Monitoring Report* for Former BP Service Station #11102 (herein referred to as Station #11102) located at 100 MacArthur Boulevard, Oakland, Alameda County, California (Site). This report presents a summary of results from ground-water monitoring conducted during the Fourth Quarter of 2007.

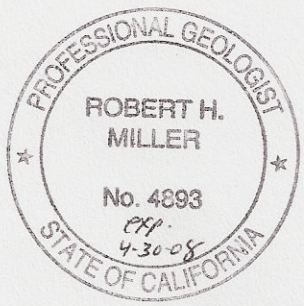
Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas A. Venus, P.E.
Senior Engineer

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



Enclosures

cc: Mr. Steven Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp site)
Ms. Shelby Lathrop, ConocoPhillips, 76 Broadway, Sacramento, California 95818
Mr. Chris Jimmerson, Reimbursement Processor, Delta Environmental Consulting Inc., (Submitted via ENFOS)
Electronic copy uploaded to GeoTracker

STATION #11102 QUARTERLY GROUND-WATER MONITORING REPORT

Facility: #11102 Address:	100 MacArthur Boulevard, 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.:	06-08-643
Primary Agency/Regulatory ID No.:	Alameda County Environmental Health (ACEH) ACEH Case #RO0000456

WORK PERFORMED THIS QUARTER (Fourth Quarter 2007):

1. Prepared and submitted Third Quarter 2007 Ground-Water Monitoring Report.
2. Conducted ground-water monitoring/sampling for Fourth Quarter 2007. Work performed by Stratus Environmental, Inc (Stratus).

WORK PROPOSED FOR NEXT QUARTER (First Quarter 2008):

1. Prepared and submitted this Fourth Quarter 2007 Ground-Water Monitoring Report (contained herein).
2. Conduct quarterly ground-water monitoring/sampling for First Quarter 2008. Work to be completed by Stratus.

QUARTERLY RESULTS SUMMARY:

Current phase of project:	**Ground-Water Monitoring/Sampling**
Frequency of ground-water monitoring:	**Quarterly: Wells MW-1 through MW-3**
Frequency of ground-water sampling:	**Quarterly: Wells MW-1 through MW-3**
Is free product (FP) present on-site:	**No**
Current remediation techniques:	**NA**
Depth to ground water (below TOC):	**11.23 (MW-1) to 13.77 (MW-3)**
General ground-water flow direction:	**West-southwest**
Approximate hydraulic gradient:	**0.06 ft/ft**

DISCUSSION:

Fourth Quarter 2007 ground-water monitoring and sampling was conducted at Station #11102 on 24 October 2007 by Stratus. Water levels were gauged in the three wells at the Site. No irregularities were noted during water level gauging. Depths to water measurements ranged from 11.23 ft at well MW-1 to 13.77 ft at well MW-3. Resulting ground-water surface elevations ranged from 78.97 ft above mean sea level in well MW-1 to 73.25 ft at well MW-3. Water level elevations were between historic minimum and maximum ranges for each well, as summarized in Table 1. Water level elevations yielded a potentiometric ground-water flow direction and gradient of 0.06 ft/ft to the west-southwest, generally consistent with historical data (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. Current and historic ground-water flow directions and gradients are provided in Table 3. Potentiometric ground-water elevation contours are presented in Drawing 1.

Consistent with the current ground-water sampling schedule, water samples were collected from each of the three wells on the Site. No irregularities were encountered during sampling. Samples were submitted under chain-of-custody protocol to Test America Analytical Testing Corporation (Morgan Hill,

California), for analysis of Gasoline Range Organics (GRO, C4-C12) by the LUFT GCMS Method; for Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA Method 8260B; and tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Di-isopropyl ether (DIPE), 1,2-Dibromomethane (EDB), 1,2-Dichloroethane (1,2-DCA), Ethanol, Ethyl tert-butyl ether (ETBE), and Methyl tert-butyl ether (MTBE) by EPA Method 8260B. The laboratory noted that GRO concentrations for samples collected from wells MW-2 and MW-3 were partly due to individual peak(s) in the quantitation range. No other 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.

Gasoline Range Organics (GRO) were detected above the laboratory reporting limit in each of the wells sampled at concentrations up to 2,800 micrograms per liter (µg/L) in well MW-2. TAME was detected above the laboratory reporting limit in two of the three wells sampled at concentrations up to 58 µg/L in well MW-3. TBA was detected above the laboratory reporting limit in two of the three wells sampled at concentrations of 9,500 µg/L in well MW-2. MTBE was detected above the laboratory reporting limit in each of the wells sampled at concentrations up to 3,500 µg/L in well MW-3. The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the three wells sampled this quarter.

Detected analyte concentrations were within the historic minimum and maximum ranges recorded for each well with the following exceptions: GRO and TAME reached historic maximum concentrations in well MW-3 at 2,000 µg/L and 58 µg/L, respectively. Historic laboratory analytical results are summarized in Table 1 and Table 2. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 1. A copy of the Laboratory Analytical Report, including chain-of-custody documentation is provided in Appendix A. Ground-water monitoring data (GEO_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation pages are provided in Appendix B.

CLOSURE:

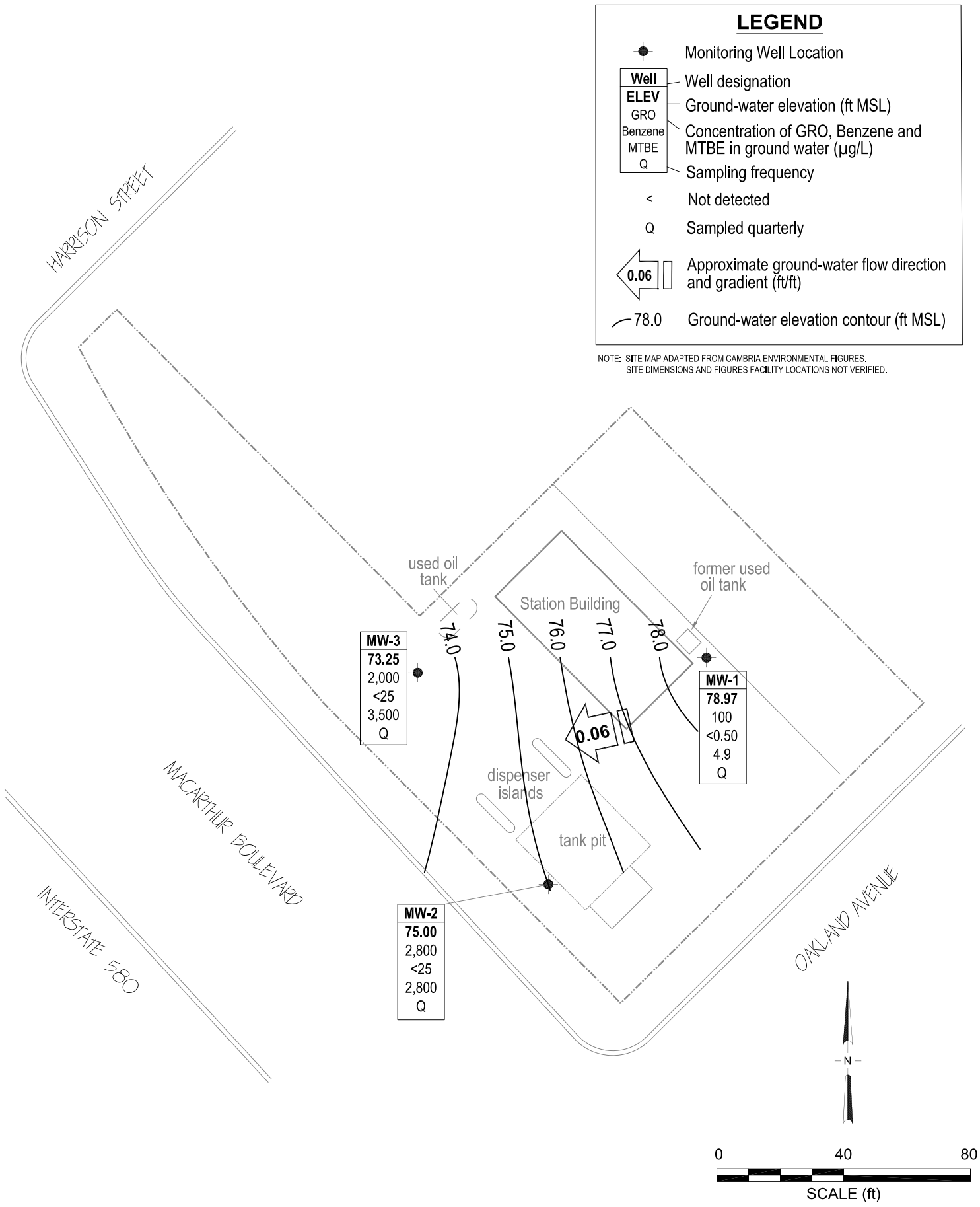
The findings presented in this report are based upon: observations of Stratus field personnel (see Appendix A), the points investigated, and results of laboratory tests performed by Test America (Morgan Hill, California). Our services were performed in accordance with the generally accepted standard 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 Contour and Analytical Summary Map, 24 October 2007, Former Station #11102, 100 MacArthur Boulevard, Oakland, California

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #11102, 100 MacArthur Blvd., Oakland, CA

Table 2. Summary of Fuel Additives Analytical Data, Station #11102, 100 MacArthur Blvd., Oakland, CA



BROADBENT & ASSOCIATES, INC. ENGINEERING, WATER RESOURCES & ENVIRONMENTAL 1324 Mangrove Ave. Suite 212, Chico, California Project No.: 06-08-643 Date: 12/3/07	Former Station #11102 100 MacArthur Boulevard Oakland, California	Ground-Water Elevation Contour and Analytical Summary Map 24 October 2007

Drawing
1

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

Station #11102, 100 MacArthur Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet msl)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/ TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MtBE						
MW-1																		
11/4/1989	--		90.20	13.21	--	76.99	<500	3.4	0.6	<0.3	<0.3	--	--	SAL	--	<50	<5000	--
11/11/1989	--		90.20	13.32	--	76.88	--	--	--	--	--	--	--	--	--	--	--	--
4/3/1990	--		90.20	12.46	--	77.74	820	64	1.9	23	34	--	--	ANA	--	--	--	--
7/30/1990	--		90.20	12.92	--	77.28	190	11	<5.0	<5.0	<5.0	--	--	ANA	--	<50	<5000	--
11/20/1990	--		90.20	14.08	--	76.12	50	2.4	<0.3	<0.3	<0.3	--	--	SAL	--	79	<5000	--
3/1/1991	--		90.20	13.61	--	76.59	<100	0.9	<0.3	<0.3	0.3	--	--	SAL	--	<1000	14,000	--
8/19/1991	--		90.20	15.74	--	74.46	370	35	0.73	6.4	5.6	--	--	SEQ	--	<50	<5000	--
11/13/1991	--		90.20	14.08	--	76.12	60	0.68	<0.3	<0.3	<0.3	--	--	SEQ	--	<50	<5000	--
2/24/1992	--		90.20	12.52	--	77.68	140	3.9	0.66	1.2	3.8	--	--	SEQ	--	100	<5000	--
5/19/1992	--		90.20	11.80	--	78.40	4,200	440	21	250	37	--	--	SEQ	--	910	<5000	--
6/17/1992	--		90.20	12.01	--	78.19	4,000	350	14	150	17	--	--	SEQ	--	560	<5000	--
7/22/1992	--		90.20	12.42	--	77.78	4,000	<5.0	19	210	61	--	--	ANA	--	--	--	--
8/14/1992	--		90.20	12.75	--	77.45	2,400	330	20	150	47	--	--	SEQ	--	1,700	<5000	--
11/11/1992	--		90.20	13.69	--	76.51	260	30	3.4	7.6	6.8	--	--	ANA	--	92	<5000	--
6/7/1993	--	c	90.20	--	--	--	3,700	120	12	26	9.5	--	--	PACE	--	--	--	--
6/7/1993	--		90.20	10.93	--	79.27	3,400	98	11	21	7.6	--	--	PACE	--	440	--	--
12/2/1993	--		90.20	12.72	--	77.48	1,100	8.3	3.6	0.6	1.5	--	--	PACE	--	120	<5000	--
6/22/1994	--	c, d	90.20	--	--	--	2,100	30	3.2	2	15	2,000	--	PACE	--	--	--	--
6/22/1994	--	d	90.20	11.81	--	78.39	2,100	32	3.8	2.2	17	4,000	3.2	PACE	--	<50	<5000	--
1/10/1995	--	c	90.20	--	--	--	<500	120	<5	5	<10	--	--	ATI	--	--	--	--
1/10/1995	--		90.20	10.97	--	79.23	<500	120	<5	<5	<10	--	3.9	ATI	--	420	--	--
6/21/1995	--	c, e	90.20	--	--	--	3,600	<13	<5.0	<5.0	<10	--	--	ATI	--	--	--	--
6/21/1995	--		90.20	9.38	--	80.82	4,700	16	<5.0	<5.0	<10	--	6.7	ATI	--	1,300	2,900	0.6
12/27/1995	--		90.20	11.55	--	78.65	430	<2.5	<2.5	<2.5	<5.0	1,200	6.3	ATI	--	2,100	640	--
6/13/1996	--		90.20	9.28	--	80.92	3,200	51	<12	<12	<12	4,000	6.3	SPL	--	920	2,000	--
12/4/1996	--	f	90.20	11.91	--	78.29	1,400	6.2	<5	<5	<5	2,600	6.7	SPL	--	280	2,000	6
6/10/1997	--	c	90.20	--	--	--	7,700	14	<25	<25	<25	13,000	--	SPL	--	--	--	--
6/10/1997	--		90.20	8.97	--	81.23	7,900	12	<10	<10	<10	15,000	6	SPL	--	1,700	<5	--
12/12/1997	--		90.20	11.37	--	78.83	440	8.8	<1.0	2.6	9.4	6,700	5.5	SPL	--	760	1,200	--
6/18/1998	--		90.20	8.02	--	82.18	7,500	<2.5	<5.0	<5.0	<5.0	5,600	4.9	SPL	--	2,900	<5	--
3/9/1999	--		90.20	9.80	--	80.40	32,000	100	16	72	110	49,000	--	SPL	--	--	--	--

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

Station #11102, 100 MacArthur Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet msl)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/ TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-1 Cont.																		
9/28/1999	--		90.20	10.78	--	79.42	1,000	<5.0	<5.0	<5.0	<5.0	730	--	SPL	--	--	--	<1.0
10/14/1999	--		90.20	10.84	--	79.36	--	--	--	--	--	--	--	SPL	--	660	--	--
3/27/2000	--		90.20	9.83	--	80.37	4,300	160	19	37	43	28,000	--	PACE	--	--	--	--
9/28/2000	--		90.20	11.33	--	78.87	2,700	10	2.6	1.1	2.7	28,000	--	PACE	--	--	--	--
3/8/2001	--		90.20	10.96	--	79.24	8,200	23.5	6.09	5.23	8.97	11,600	--	PACE	--	--	--	--
9/21/2001	--		90.20	12.07	--	78.13	6,000	37.9	<0.5	<0.5	<1.5	7,370	--	PACE	--	--	--	--
2/28/2002	--		90.20	10.48	--	79.72	6,400	60.8	<5.0	6.43	<10	7,750	--	PACE	--	--	--	--
9/6/2002	--		90.20	11.20	--	79.00	1,400	<5.0	<5.0	<5.0	<5.0	6,000	--	SEQ	--	--	--	--
2/19/2003	--	h	90.20	11.29	--	78.91	<10000	<100	110	<100	<100	4,500	--	SEQ	--	--	--	--
7/14/2003	--		90.20	11.18	--	79.02	710	11	<10	<10	<10	940	--	SEQ	--	--	--	--
01/14/2004	--		90.20	11.74	--	78.46	<500	<5.0	<5.0	<5.0	<5.0	220	--	SEQM	6.6	--	--	--
04/23/2004	P	l	90.20	11.95	--	78.25	470	3.4	<2.5	<2.5	<2.5	150	--	SEQM	6.7	--	--	--
07/01/2004	P		90.20	11.52	--	78.68	360	<2.5	<2.5	<2.5	<2.5	96	--	SEQM	6.0	--	--	--
10/28/2004	P		90.20	12.56	--	77.64	390	0.94	<0.50	<0.50	<0.50	43	--	SEQM	6.2	--	--	--
01/10/2005	P		90.20	11.85	--	78.35	490	17	<2.5	5.8	5.4	85	--	SEQM	7.6	--	--	--
04/13/2005	P		90.20	10.00	--	80.20	1,000	27	<2.5	<2.5	25	48	--	SEQM	6.6	--	--	--
07/11/2005	P		90.20	9.27	--	80.93	180	<0.50	<0.50	<0.50	<0.50	36	--	SEQM	7.7	--	--	--
10/17/2005	P		90.20	10.96	--	79.24	140	<0.50	<0.50	<0.50	<0.50	20	--	SEQM	8.0	--	--	--
01/17/2006	P		90.20	10.81	--	79.39	120	0.64	<0.50	<0.50	0.56	38	--	SEQM	6.5	--	--	--
04/21/2006	P	m	90.20	9.28	--	80.92	410	1.4	1.0	<0.50	<0.50	17	--	SEQM	6.5	--	--	--
7/17/2006	--		90.20	9.25	--	80.95	<50	<0.50	<0.50	<0.50	<0.50	5.5	--	TAMC	7.7	--	--	--
7/26/2006	--		90.20	8.57	--	81.63	<50	<0.50	<0.50	<0.50	<0.50	4.4	--	TAMC	6.6	--	--	--
10/31/2006	P		90.20	9.80	--	80.40	<50	<0.50	<0.50	<0.50	<0.50	2.8	2.81	TAMC	6.99	--	--	--
1/8/2007	P		90.20	10.36	--	79.84	<50	2.2	<0.50	<0.50	<0.50	6.2	2.51	TAMC	6.97	--	--	--
4/10/2007	P		90.20	10.65	--	79.55	160	1.4	<0.50	<0.50	<0.50	9.0	1.75	TAMC	7.00	--	--	--
7/10/2007	P	p	90.20	10.52	--	79.68	120	<0.50	<0.50	<0.50	<0.50	4.9	2.01	TAMC	6.60	160	--	--
10/24/2007	**P**		**90.20**	**11.23**	**--**	**78.97**	**100**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**4.9**	**1.89**	**TAMC**	**6.57**	**--**	**--**	**--**
MW-2																		
11/4/1989	--		87.91	15.84	--	72.07	<500	6.5	<0.3	<0.3	<0.3	--	--	SAL	--	--	--	--
11/11/1989	--		87.91	14.75	--	73.16	--	--	--	--	--	--	--	--	--	--	--	--

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

Station #11102, 100 MacArthur Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet msl)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/ TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-2 Cont.																		
4/3/1990	--		87.91	15.25	--	72.66	<500	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
7/30/1990	--		87.91	15.59	--	72.32	61	6.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
11/20/1990	--		87.91	17.81	--	70.10	<50	0.3	<0.3	<0.3	<0.3	--	--	SAL	--	--	--	--
3/1/1991	--		87.91	17.11	--	70.80	<100	0.4	<0.3	<0.3	<0.3	--	--	SAL	--	--	--	--
8/19/1991	--		87.91	17.97	--	69.94	<30	<0.3	<0.3	<0.3	<0.3	--	--	SEQ	--	--	--	--
11/13/1991	--		87.91	16.76	--	71.15	38	0.32	<0.3	<0.3	<0.3	--	--	SEQ	--	--	--	--
2/24/1992	--		87.91	15.07	--	72.84	<50	<0.5	<0.5	<0.5	0.58	--	--	SEQ	--	--	--	--
5/19/1992	--		87.91	14.70	--	73.21	<50	0.55	<0.5	<0.5	<0.5	--	--	SEQ	--	--	--	--
7/22/1992	--		87.91	15.60	--	72.31	90	1.3	0.6	0.9	1.9	--	--	ANA	--	--	--	--
8/14/1992	--		87.91	15.88	--	72.03	--	--	--	--	--	--	--	--	--	--	--	--
11/11/1992	--	c	87.91	--	--	--	65	3.2	<0.5	<0.5	1	--	--	ANA	--	--	--	--
11/11/1992	--		87.91	16.19	--	71.72	52	2.8	<0.5	<0.5	0.9	--	--	ANA	--	--	--	--
6/7/1993	--		87.91	14.42	--	73.49	1,200	14	2.8	1.9	1.71	--	--	PACE	--	--	--	--
12/2/1993	--	c, d	87.91	--	--	--	2,100	32	3.8	2.2	17	3,700	--	PACE	--	--	--	--
12/2/1993	--	d	87.91	14.94	--	72.97	790	3.4	0.5	10	<0.5	3,700	--	PACE	--	--	--	--
6/22/1994	--	d	87.91	14.25	--	73.66	110	<0.5	<0.5	<0.5	<0.5	120	3.9	PACE	--	--	--	--
1/10/1995	--		87.91	13.64	--	74.27	<50	<0.5	<0.5	0.6	1	--	4.3	ATI	--	--	--	--
6/21/1995	--		87.91	11.66	--	76.25	4,700	<10	<10	<10	<20	--	7.8	ATI	--	--	--	--
12/27/1995	--		87.91	13.11	--	74.80	6,100	<25	<25	<25	<50	20,000	6.7	ATI	--	--	--	--
12/27/1995	--	c	87.91	--	--	--	6,300	<25	<25	<25	<50	19,000	--	ATI	--	--	--	--
6/13/1996	--	c	87.91	--	--	--	8,700	<5	<5	<5	<5	13,000	--	SPL	--	--	--	--
6/13/1996	--		87.91	10.86	--	77.05	8,300	<2.5	<2.5	<2.5	<2.5	13,000	6.5	SPL	--	--	--	--
12/4/1996	--	c	87.91	--	--	--	5,900	<2.5	<5	<5	<5	11,000	--	SPL	--	--	--	--
12/4/1996	--		87.91	13.03	--	74.88	5,900	<2.5	<5	<5	<5	11,000	6.3	SPL	--	--	--	--
6/10/1997	--		87.91	10.04	--	77.87	<50	<0.5	<1.0	<1.0	<1.0	<10	5.8	SPL	--	--	--	--
12/12/1997	--		87.91	12.44	--	75.47	<50	<0.5	<1.0	<1.0	<1.0	<10	5.7	SPL	--	--	--	--
6/18/1998	--	c	87.91	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	--	SPL	--	--	--	--
6/18/1998	--		87.91	8.89	--	79.02	50	<0.5	<1.0	<1.0	<1.0	<10	5.3	SPL	--	--	--	--
3/9/1999	--		87.91	10.20	--	77.71	15,000	<5.0	<5.0	<5.0	<5.0	23,000	--	SPL	--	--	--	--
9/28/1999	--		87.91	11.81	--	76.10	36,000	<5.0	12	7	26	35,000	--	SPL	--	--	--	<5.0
10/14/1999	--		87.91	10.27	--	77.64	--	--	--	--	--	--	--	SPL	--	100	--	--

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

Station #11102, 100 MacArthur Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet msl)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/ TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-2 Cont.																		
3/27/2000	--		87.91	9.98	--	77.93	1,300	<0.5	<0.5	0.51	<0.5	5,800	--	PACE	--	--	--	--
9/28/2000	--		87.91	11.40	--	76.51	1,600	1.8	1.7	0.54	2.2	15,000	--	PACE	--	--	--	--
3/8/2001	--		87.91	11.16	--	76.75	20,000	<0.5	<0.5	<0.5	<0.5	29,100	--	PACE	--	--	--	--
9/21/2001	--		87.91	11.65	--	76.26	5,000	<0.5	<0.5	<0.5	<1.5	6,110	--	PACE	--	--	--	--
2/28/2002	--		87.91	9.86	--	78.05	3,200	35.1	<0.5	<0.5	<1.0	4,620	--	PACE	--	--	--	--
9/6/2002	--		87.91	12.32	--	75.59	1,900	<10	<10	<10	<10	15,000	--	SEQ	--	--	--	--
2/19/2003	--	h	87.91	11.63	--	76.28	45,000	<250	<250	<250	<250	32,000	--	SEQ	--	--	--	--
7/14/2003	--		87.91	12.07	--	75.84	9,300	<500	<500	<500	<500	24,000	--	SEQ	--	--	--	--
01/14/2004	P		87.91	11.45	--	76.46	<50,000	<500	<500	<500	<500	21,000	--	SEQM	6.9	--	--	--
04/23/2004	P	l	87.91	11.45	--	76.46	5,100	<250	<250	<250	<250	22,000	--	SEQM	6.8	--	--	--
07/01/2004	P		87.91	12.32	--	75.59	<5,000	<50	<50	<50	<50	5,200	--	SEQM	5.6	--	--	--
10/28/2004	P		87.91	13.02	--	74.89	8,500	<50	<50	<50	<50	6,800	--	SEQM	6.2	--	--	--
01/10/2005	P		87.91	14.38	--	73.53	<25,000	<250	<250	<250	<250	7,100	--	SEQM	7.6	--	--	--
04/13/2005	P		87.91	14.03	--	73.88	<5,000	<50	<50	<50	<50	5,300	--	SEQM	6.6	--	--	--
07/11/2005	P		87.91	11.25	--	76.66	<5,000	<50	<50	<50	<50	5,300	--	SEQM	7.5	--	--	--
10/17/2005	P		87.91	12.48	--	75.43	<5,000	<50	<50	<50	<50	2,500	--	SEQM	8.2	--	--	--
01/17/2006	P		87.91	10.70	--	77.21	<5,000	<50	<50	<50	<50	2,200	--	SEQM	7.0	--	--	--
04/21/2006	--	n	87.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/26/2006	--	k	87.91	10.47	--	77.44	2,700	<50	<50	<50	<50	2,900	--	TAMC	6.69	--	--	--
10/31/2006	P		87.91	12.02	--	75.89	2,300	<25	<25	<25	<25	2,300	2.02	TAMC	6.71	--	--	--
1/8/2007	P		87.91	11.68	--	76.23	1500	<12	<12	<12	<12	1700	1.37	TAMC	6.54	--	--	--
4/10/2007	P	k	87.91	11.45	--	76.46	1,300	<50	<50	<50	<50	1,500	1.60	TAMC	6.89	--	--	--
7/10/2007	P	k, p	87.91	11.97	--	75.94	2,300	<25	<25	<25	<25	2,600	1.82	TAMC	6.69	120	--	--
10/24/2007	**P**	**k**	**87.91**	**12.91**	**--**	**75.00**	**2,800**	**<25**	**<25**	**<25**	**<25**	**2,800**	**1.55**	**TAMC**	**6.77**	**--**	**--**	**--**
MW-3																		
11/4/1989	--		87.02	15.40	--	71.62	<500	<0.3	<0.3	<0.3	<0.3	--	--	SAL	--	--	--	--
11/11/1989	--		87.02	14.10	--	72.92	--	--	--	--	--	--	--	--	--	--	--	--
4/3/1990	--		87.02	13.90	--	73.12	<100	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
7/30/1990	--		87.02	13.77	--	73.25	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	<5000	--
11/20/1990	--		87.02	14.67	--	72.35	<50	0.3	0.8	0.4	1.5	--	--	SAL	--	--	--	--

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

Station #11102, 100 MacArthur Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet msl)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/ TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-3 Cont.																		
3/1/1991	--		87.02	15.22	--	71.80	<100	0.4	<0.3	<0.3	<0.3	--	--	SAL	--	--	--	--
8/19/1991	--		87.02	13.15	--	73.87	<30	<0.3	<0.3	<0.3	<0.3	--	--	SEQ	--	--	--	--
11/13/1991	--		87.02	15.66	--	71.36	<30	<0.3	<0.3	<0.3	<0.3	--	--	SEQ	--	--	--	--
2/24/1992	--		87.02	15.01	--	72.01	<50	0.65	1.4	0.66	4.4	--	--	SEQ	--	--	--	--
5/19/1992	--		87.02	15.52	--	71.50	<50	<0.5	<0.5	<0.5	<0.5	--	--	SEQ	--	--	--	--
7/22/1992	--		87.02	15.63	--	71.39	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	<50	<5000	--
8/14/1992	--		87.02	13.57	--	73.45	--	--	--	--	--	--	--	--	--	--	--	--
11/11/1992	--		87.02	14.13	--	72.89	<50	<0.5	0.7	<0.5	1.3	--	--	ANA	--	--	--	--
6/7/1993	--		87.02	12.13	--	74.89	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
12/2/1993	--		87.02	13.29	--	73.73	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
6/22/1994	--		87.02	12.78	--	74.24	<50	<0.5	<0.5	<0.5	<0.5	--	2.9	PACE	--	--	--	--
1/10/1995	--		87.02	12.01	--	75.01	<50	<0.5	<0.5	<0.5	<1	--	3.8	ATI	--	--	--	--
6/21/1995	--		87.02	11.57	--	75.45	<50	<0.50	<0.50	<0.50	<1.0	--	7.4	ATI	--	--	--	--
12/27/1995	--		87.02	13.47	--	73.55	<50	<0.50	<0.50	<0.50	<1.0	5.7	7.3	ATI	--	--	--	--
6/13/1996	--		87.02	11.22	--	75.80	60	<0.5	<0.5	<0.5	<0.5	<10	6.8	SPL	--	--	--	--
12/4/1996	--		87.02	13.28	--	73.74	<50	<0.5	<1	<1	<1	<10	6.7	SPL	--	--	--	--
6/10/1997	--		87.02	10.22	--	76.80	<50	<0.5	<1.0	<1.0	<1.0	<10	6.1	SPL	--	--	--	--
12/12/1997	--	c	87.02	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	--	SPL	--	--	--	--
12/12/1997	--		87.02	12.61	--	74.41	<50	<0.5	<1.0	<1.0	<1.0	<10	5.6	SPL	--	--	--	--
6/18/1998	--		87.02	12.80	--	74.22	--	--	--	--	--	--	--	--	--	--	--	--
6/18/1998	--		87.02	9.07	--	77.95	50	<0.5	<1.0	<1.0	<1.0	<10	5.3	SPL	--	--	--	--
9/28/1999	--		87.02	13.76	--	73.26	--	--	--	--	--	--	--	--	--	--	--	--
3/27/2000	--		87.02	13.77	--	73.25	<50	<0.5	<0.5	<0.5	<0.5	1.6	--	PACE	--	--	--	--
9/28/2000	--		87.02	11.28	--	75.74	<50	<0.5	7.4	<0.5	1.3	2	--	PACE	--	--	--	--
3/8/2001	--		87.02	11.75	--	75.27	<50	<0.5	<0.5	<0.5	<0.5	60.4	--	PACE	--	--	--	--
9/21/2001	--		87.02	11.33	--	75.69	<50	<0.5	<0.5	<0.5	<1.5	8.18	--	PACE	--	--	--	--
2/28/2002	--		87.02	10.86	--	76.16	<50	<0.5	<0.5	<0.5	<1.0	25.5	--	PACE	--	--	--	--
9/6/2002	--		87.02	12.73	--	74.29	<50	1.2	<0.5	<0.5	1	16	--	SEQ	--	--	--	--
2/19/2003	--	h	87.02	11.72	--	75.30	<500	<5.0	<5.0	<5.0	<5.0	110	--	SEQ	--	--	--	--
7/14/2003	--		87.02	13.76	--	73.26	<50	<0.50	<0.50	<0.50	0.67	28	--	SEQ	--	--	--	--
01/14/2004	P		87.02	14.83	--	72.19	550	<5.0	<5.0	<5.0	<5.0	380	--	SEQM	8.1	--	--	--

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

Station #11102, 100 MacArthur Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet msl)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/ TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-3 Cont.																		
04/23/2004	P	l	87.02	13.17	--	73.85	<200	<25	<25	<25	<25	560	--	SEQM	6.8	--	--	--
07/01/2004	P		87.02	15.19	--	71.83	<50	<0.50	<0.50	<0.50	0.50	48	--	SEQM	6.4	--	--	--
10/28/2004	P		87.02	15.50	--	71.52	<500	<5.0	<5.0	<5.0	<5.0	290	--	SEQM	6.3	--	--	--
01/10/2005	P		87.02	15.00	--	72.02	<50	<0.50	<0.50	<0.50	<0.50	18	--	SEQM	7.6	--	--	--
04/13/2005	P		87.02	14.34	--	72.68	<50	<0.50	<0.50	<0.50	<0.50	9.0	--	SEQM	7.1	--	--	--
07/11/2005	P	k	87.02	10.82	--	76.20	130	<1.0	<1.0	<1.0	<1.0	120	--	SEQM	7.8	--	--	--
10/17/2005	P		87.02	11.84	--	75.18	<250	<2.5	<2.5	<2.5	<2.5	260	--	SEQM	8.5	--	--	--
01/17/2006	P		87.02	11.59	--	75.43	800	<5.0	<5.0	<5.0	<5.0	980	--	SEQM	7.2	--	--	--
04/21/2006	P		87.02	10.00	--	77.02	<500	<5.0	<5.0	<5.0	<5.0	48	--	SEQM	6.7	--	--	--
7/17/2006	P	k	87.02	10.80	--	76.22	910	<5.0	<5.0	<5.0	<5.0	1,400	--	TAMC	7.7	--	--	--
7/26/2006	P		87.02	9.67	--	77.35	810	<10	<10	<10	<10	1,300	--	TAMC	6.56	--	--	--
10/31/2006	P		87.02	10.85	--	76.17	1,600	<10	<10	<10	<10	2,300	2.50	TAMC	6.84	--	--	--
1/8/2007	P		87.02	12.73	--	74.29	520	<5.0	<5.0	<5.0	<5.0	760	3.61	TAMC	7.12	--	--	--
4/10/2007	P	k	87.02	11.93	--	75.09	630	<5.0	<5.0	<5.0	<5.0	750	2.31	TAMC	7.15	--	--	--
7/10/2007	P	k, p	87.02	11.30	--	75.72	1,800	<5.0	<5.0	<5.0	<5.0	2,400	1.56	TAMC	6.72	66	--	--
10/24/2007	**P**	**k**	**87.02**	**13.77**	--	**73.25**	**2,000**	**<25**	**<25**	**<25**	**<25**	**3,500**	**1.62**	**TAMC**	**6.41**	--	--	--
QC-2																		
11/11/1992	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
6/7/1993	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
12/2/1993	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
6/22/1994	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
1/10/1995	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<1	--	--	ATI	--	--	--	--
6/21/1995	--	g	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	--	--	--
12/27/1995	--	g	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	--	--	--
6/13/1996	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<10	--	SPL	--	--	--	--

ABBREVIATIONS & SYMBOLS:
--/--- = Not analyzed/applicable/measured/available
< = Not detected at or above specified laboratory reporting limit
DO = Dissolved oxygen
DRO = Diesel range organics
DTW = Depth to water in ft bgs
ft bgs = feet below ground surface
ft MSL = feet above mean sea level
GRO = Gasoline range organics, range C4-C12
GWE = Groundwater elevation measured in ft MSL
HVOC = Halogenated volatile organic compounds
mg/L = Milligrams per liter
MTBE = Methyl tert-butyl ether
NP = Well not purged prior to sampling
P = Well purged prior to sampling
TOC = Top of casing measured in ft MSL
TOG = Total oil and grease
TPH-d = Total petroleum hydrocarbons as diesel
TPH-g = Total petroleum hydrocarbons as gasoline
µg/L = Micrograms per liter
ANA = Anametrix, Inc.
PACE = Pace, Inc.
ATI = Analytical Technologies, Inc.
SAL = Superior Analytical Laboratory
SPL = Southern Petroleum Laboratories
SEQ/SEQM = Sequoia Analytical/Sequoia Analytical - Morgan Hill (Laboratories)

FOOTNOTES:
c = Blind duplicate.
d = A copy of the documentation for this data is included in Appendix C of Alisto report 10-076-06-002.
e = Tetrachloroethene
f = trans-1,2-Dichloroethene
g = Travel blank.
h = TPH-g, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and MTBE analyzed by EPA Method 8260B beginning on 1st quarter sampling event (2/19/03).
k = The hydrocarbon result was partly due to individual peaks in the quantification range (GRO).
l = GRO analyzed by EPA Method 8015B.
m = Confirmatory analysis for total xylenes was past holding time.
n = Well inaccessible.
p = Hydrocarbon in req. fuel range, but doesn't resemble req. fuel (DRO).

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

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

Values for pH and DO were obtained through field measurements.

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 #11102, 100 MacArthur Blvd., Oakland, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
7/14/2003	<2000	2,700	940	<20	<20	<20	--	--	
01/14/2004	<1,000	2,500	220	<5.0	<5.0	<5.0	<5.0	<5.0	
04/23/2004	<500	2,500	150	<2.5	<2.5	<2.5	<2.5	<2.5	
07/01/2004	<500	2,000	96	<2.5	<2.5	<2.5	<2.5	<2.5	
10/28/2004	<5.0	1,500	43	<0.50	<0.50	0.58	<0.50	<0.50	
01/10/2005	<500	1,900	85	<2.5	<2.5	<2.5	<2.5	<2.5	
04/13/2005	<500	1,400	48	<2.5	<2.5	<2.5	<2.5	<2.5	
07/11/2005	<100	550	36	<0.50	<0.50	<0.50	<0.50	<0.50	
10/17/2005	<100	450	20	<0.50	<0.50	<0.50	<0.50	<0.50	a
01/17/2006	<300	260	38	<0.50	<0.50	0.54	<0.50	<0.50	
04/21/2006	<300	320	17	<0.50	<0.50	<0.50	<0.50	<0.50	
7/17/2006	<300	32	5.5	<0.50	<0.50	<0.50	<0.50	<0.50	
7/26/2006	<300	22	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	
10/31/2006	<300	<20	2.8	<0.50	<0.50	<0.50	<0.50	<0.50	a
1/8/2007	<300	110	6.2	<0.50	<0.50	<0.50	<0.50	<0.50	
4/10/2007	<300	210	9.0	<0.50	<0.50	<0.50	<0.50	<0.50	
7/10/2007	<300	110	4.9	<0.50	<0.50	<0.50	<0.50	<0.50	
10/24/2007	**<300**	**94**	**4.9**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-2									
7/14/2003	<100000	<20000	24,000	<1000	<1000	<1000	--	--	
01/14/2004	<100,000	<20,000	21,000	<500	<500	<500	<500	<500	
04/23/2004	<50,000	11,000	22,000	<250	<250	420	<250	<250	
07/01/2004	<10,000	2,900	5,200	<50	<50	110	<50	<50	
10/28/2004	<5.0	6,700	6,800	<50	<50	120	<50	<50	
01/10/2005	<50,000	<10,000	7,100	<250	<250	<250	<250	<250	
04/13/2005	<10,000	5,300	5,300	<50	<50	95	<50	<50	
07/11/2005	<10,000	9,000	5,300	<50	<50	99	<50	<50	
10/17/2005	<10,000	5,200	2,500	<50	<50	<50	<50	<50	a
01/17/2006	<30,000	8,400	2,200	<50	<50	<50	<50	<50	
04/21/2006	--	--	--	--	--	--	--	--	Well inaccessible
7/26/2006	<30,000	4,500	2,900	<50	<50	<50	<50	<50	

Table 2. Summary of Fuel Additives Analytical Data

Station #11102, 100 MacArthur Blvd., Oakland, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-2 Cont.									
10/31/2006	<15,000	9,300	2,300	<25	<25	41	<25	<25	a
1/8/2007	<7,500	7700	1700	<12	<12	38	<12	<12	
4/10/2007	<30,000	6,400	1,500	<50	<50	<50	<50	<50	
7/10/2007	<15,000	8,700	2,600	<25	<25	42	<25	<25	
10/24/2007	**<15,000**	**9,500**	**2,800**	**<25**	**<25**	**52**	**<25**	**<25**	
MW-3									
7/14/2003	<100	<20	28	<1.0	<1.0	<1.0	--	--	
01/14/2004	<1,000	<200	380	<5.0	<5.0	<5.0	<5.0	<5.0	
04/23/2004	<5,000	<1,000	560	<25	<25	<25	<25	<25	
07/01/2004	<100	<20	48	<0.50	<0.50	0.52	<0.50	<0.50	
10/28/2004	<5.0	<200	290	<5.0	<5.0	<5.0	<5.0	<5.0	
01/10/2005	<100	<20	18	<0.50	<0.50	<0.50	<0.50	<0.50	
04/13/2005	<100	<20	9.0	<0.50	<0.50	<0.50	<0.50	<0.50	
07/11/2005	<200	<40	120	<1.0	<1.0	1.4	<1.0	<1.0	a
10/17/2005	<500	<100	260	<2.5	<2.5	4.2	<2.5	<2.5	a
01/17/2006	<3,000	200	980	<5.0	<5.0	13	<5.0	<5.0	
04/21/2006	<3,000	<200	48	<5.0	<5.0	<5.0	<5.0	<5.0	
7/17/2006	<3,000	<200	1,400	<5.0	<5.0	15	<5.0	<5.0	
7/26/2006	<6,000	<400	1,400	<10	<10	18	<10	<10	
10/31/2006	<6,000	<400	2,300	<10	<10	39	<10	<10	a
1/8/2007	<3000	<200	760	<5.0	<5.0	9.7	<5.0	<5.0	
4/10/2007	<3,000	<200	750	<5.0	<5.0	<5.0	<5.0	<5.0	
7/10/2007	<3,000	<200	2,400	<5.0	<5.0	39	<5.0	--	
10/24/2007	**<15,000**	**<1,000**	**3,500**	**<25**	**<25**	**58**	**<25**	**<25**	

SYMBOLS & ABBREVIATIONS:
-- = Not analyzed/applicable/measured/available
< = Not detected at or above specified laboratory reporting limit
1,2-DCA = 1,2-Dichloroethane
DIPE = Di-isopropyl ether
EDB = 1,2-Dibromoethane
ETBE = Ethyl tert-butyl ether
MTBE = Methyl tert-butyl ether
TAME = tert-Amyl methyl ether
TBA = tert-Butyl alcohol
µg/L = Micrograms per Liter

FOOTNOTES:
a = The calibration verification for ethanol was within the method limits but outside the contract limits.

NOTES:
All volatile organic compounds were 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 #11102, 100 MacArthur Blvd., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
4/21/2006	--	--
7/17/2006	Southwest	0.05
10/31/2006	Southwest	0.04
1/8/2007	West	0.06
4/10/2007	West	0.05
7/10/2007	Southwest	0.04
10/24/2007	**West-Southwest**	**0.06**

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 AND LABORATORY ANALYTICAL REPORT
WITH CHAIN-OF-CUSTODY DOCUMENTATION)

STRATUS
ENVIRONMENTAL, INC.

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

November 20, 2007

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

Re: Groundwater Sampling Data Package, BP Service Station No. 11102, located at 100 MacArthur Blvd., Oakland, California

General Information

Data Submittal Prepared / Reviewed by: Sandy Hayes / Jay Johnson
Phone Number: (530) 676-6000
On-Site Supplier Representative: Jerry Gonzales

Sampling Date: October 24, 2007
Arrival: 07:00 *Departure:* 09:15
Weather Conditions: Clear
Unusual Field Conditions: None
Scope of Work Performed: Quarterly monitoring and sampling
Variations from Work Scope: None

This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include bill of lading, field data sheets, chain of custody documentation, and certified analytical results. 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. 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:

- Bill of Lading
- Field Data Sheets
- Chain of Custody Documentation
- Certified Analytical Results

CC: Mr. Paul Supple, BP/ARCO

BP ALAMEDA PORTFOLIO

HYDROLOGIC DATA SHEET

7:00 - DP 9:15

Gauge Date: 10/24/07 **Project Name:** *Oakland - 100 MacArthur Blvd.*

Field Technician: Jerry **Project Number:** *11102*

TOC = Top of Well Casing Elevation
DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

DIA = Well Casing Diameter
ELEV = Groundwater Elevation
DUP = Duplicate

WELL OR LOCATION	TIME	MEASUREMENT						PURGE & SAMPLE	SHEEN CONFIRMATION (w/Bailer)	COMMENTS
		TOC	DTP	DTW	DTB	DIA	ELEV			
MW-1	7:14			11.23	31.90					
MW-2	7:10			12.91	32.20					
MW-3	7:05			13.79	32.30					

BP ALAMEDA PORTFOLIO

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11102 PURGED BY: JC WELL I.D.: MW-1

CLIENT NAME: SAMPLED BY: JC SAMPLE I.D.: MW-1

LOCATION: Oakland - 100 MacArthur Blvd. QA SAMPLES:

DATE PURGED 10/29/07 START (2400hr) 8:23 END (2400hr) 8:32

DATE SAMPLED 10/29/07 SAMPLE TIME (2400hr) 8:45

SAMPLE TYPE: Groundwater x Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" ____ 3" ____ 4" X 5" ____ 6" ____ 8" ____ Other ____

Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 31.90 CASING VOLUME (gal) = 13.8

DEPTH TO WATER (feet) = 11.23 CALCULATED PURGE (gal) = 41.5

WATER COLUMN HEIGHT (feet) = 20.6 ACTUAL PURGE (gal) = 42.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
10/29/07	8:26	14	23.8	711	6.48	clear	
"	8:29	28	23.6	633	6.59	"	
"	8:32	42	23.5	639	6.57	"	

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 11.89 SAMPLE TURBIDITY: clear

80% RECHARGE: X YES ___ NO ANALYSES: 5-W-O

ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 6 VOA

PURGING EQUIPMENT

___ Bladder Pump
X Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated ____

Other: ____

Pump Depth: 25

SAMPLING EQUIPMENT

___ Bladder Pump
___ Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
X Bailer (___ PVC or X disposable)
___ Bailer (Stainless Steel)
___ Dedicated ____

Other: ____

WELL INTEGRITY: Good LOCK#: Master

REMARKS: DO 1.89

SIGNATURE: [signature]

Page ___ of ___

BP ALAMEDA PORTFOLIO

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11102 PURGED BY: JC WELL I.D.: MW-2

CLIENT NAME: SAMPLED BY: F SAMPLE I.D.: MW-2

LOCATION: Oakland - 100 MacArthur Blvd. QA SAMPLES:

DATE PURGED 10/24/07 START (2400hr) 745 END (2400hr) 759

DATE SAMPLED 10/24/07 SAMPLE TIME (2400hr) 8:10

SAMPLE TYPE: Groundwater x Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" ____ (0.17) 3" ____ (0.38) 4" X (0.67) 5" ____ (1.02) 6" ____ (1.50) 8" ____ (2.60) Other ____ ( )

Casing Volume: (gallons per foot)

DEPTH TO BOTTOM (feet) = 32.70 CASING VOLUME (gal) = 179

DEPTH TO WATER (feet) = 12.96 CALCULATED PURGE (gal) = 28.7

WATER COLUMN HEIGHT (feet) = 19.2 ACTUAL PURGE (gal) = 39

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
10/24/07	748	13	24.0	3335	6.37	cloud	
	751	26	23.8	885	6.82	clear	
	754	38	23.7	863	6.75		

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 15.08 SAMPLE TURBIDITY: clear

80% RECHARGE: X YES ____ NO ANALYSES: 5-W.O

ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 3 VOA-HCl

PURGING EQUIPMENT

____ Bladder Pump ____ Bailer (Teflon)
X Centrifugal Pump ____ Bailer (PVC)
____ Submersible Pump ____ Bailer (Stainless Steel)
____ Peristalic Pump ____ Dedicated ____

Other: ____

Pump Depth: 25

SAMPLING EQUIPMENT

____ Bladder Pump ____ Bailer (Teflon)
____ Centrifugal Pump X Bailer (____ PVC or X disposable)
____ Submersible Pump ____ Bailer (Stainless Steel)
____ Peristalic Pump ____ Dedicated ____

Other: ____

WELL INTEGRITY: Good LOCK#: MASTER

REMARKS: D.O 1.55

SIGNATURE: [signature] Page ____ of ____

BP ALAMEDA PORTFOLIO

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11102 PURGED BY: JG WELL I.D.: MW-3

CLIENT NAME: _____ SAMPLED BY: JG SAMPLE I.D.: MW-3

LOCATION: Oakland - 100 MacArthur Blvd. QA SAMPLES: _____

DATE PURGED 10/24/07 START (2400hr) 5:20 END (2400hr) 7:29

DATE SAMPLED 10/24/07 SAMPLE TIME (2400hr) 9:00

SAMPLE TYPE: Groundwater x Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" _____ 3" _____ 4" X 5" _____ 6" _____ 8" _____ Other _____

Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 32.00 CASING VOLUME (gal) = 12.4

DEPTH TO WATER (feet) = 13.23 CALCULATED PURGE (gal) = 37.2

WATER COLUMN HEIGHT (feet) = 18.5 ACTUAL PURGE (gal) = 39.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
10/24/07	7:23	12.4	21.9	716	6.04	clear	
"	7:26	25.0	23.2	693	6.29	"	
"	7:29	39.5	23.7	639	6.41	"	

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 13.84 SAMPLE TURBIDITY: clear

80% RECHARGE: X YES ___ NO ANALYSES: 5 W.O

ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 3 VOA-HCl

PURGING EQUIPMENT

___ Bladder Pump
X Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated _____

Other: _____

Pump Depth: 25

SAMPLING EQUIPMENT

___ Bladder Pump
___ Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
X Bailer (___ PVC or X disposable)
___ Bailer (Stainless Steel)
___ Dedicated _____

Other: _____

WELL INTEGRITY: Good LOCK#: MASTER

REMARKS: DO 1.62

SIGNATURE: _____ Page ___ of ___

Wellhead Observation Form

Account: ______________________

Sampled by: Jerre Date: 10/29/07

Well ID	Box in good condition	Lock Missing (Replaced with new)	Water in Box	Bolts Missing	Bolts Stripped	Bolt-Holes Stripped	Cracked or Broken Lid	Cracked Box and/or Bolt - Holes	Misc.	Add'l – Notes and Other Stuff
MW-1	Y	N	N	N	N	N	N	N		
MW-2	Y	N	N	N	N	N	N	N		
MW-3	Y	N	Y	N	N	N	N	N		

NO. 665516

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

SITE: 11102

EPA I.D. NO. NOT REQUIRED

NAME BP WEST COAST PRODUCTS LLC ARCO #

PROFILE NO

ADDRESS P.O. BOX 80249
RANCHO SANTA MARGARITA

CITY, STATE, ZIP CA 92688 PHONE NO. ( )

CONTAINERS: No. VOLUME 118-5 WEIGHT

TYPE: ☐ TANK TRUCK ☐ DUMP TRUCK ☐ DRUMS ☐ CARTONS ☐ OTHER

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

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. WATER		99-100%	5.		
2. TPH		<1%	6.		
3.			7. BESI #		
4.			8.		

PROPERTIES: 7-10 ☐ 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 Moothart BESI for BP — 1/5/2007
TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

TRANSPORTER

Transporter #1 Transporter #2

NAME STRATUS ENVIRONMENTAL EPA I.D. NO.

ADDRESS 3330 CAMERON PARK DR SERVICE ORDER NO.

CITY, STATE, ZIP CAMERON PARK, CA 95682 PICK UP DATE

PHONE NO. 530-676-2031

Jerry Gonzales — 1/5/2007
TRUCK, UNIT, I.D. NO. TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TSD FACILITY

NAME SEAPORT REFINING & ENVIRONMENTAL, LLC EPA I.D. NO.

DISPOSAL METHOD

ADDRESS 700 SEAPORT BLVD. ☐ LANDFILL ☐ OTHER

CITY, STATE, ZIP REDWOOD CITY, CA 94063

PHONE NO. 650-364-1024

TYPED OR PRINTED FULL NAME & SIGNATURE DATE

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

DISCREPANCY

Atlantic Richfield Company
A BP affiliated company

Chain of Custody Record

Project Name: ARCO 11102
BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 11
State or Lead Regulatory Agency:
Requested Due Date (mm/dd/yy):

On-site Time:	900 Temp: 65
Off-site Time:	915 Temp: 68
Sky Conditions:	clear
Meteorological Events:	none
Wind Speed:	0 Direction: 0

Lab Name: TestAmerica	BP/AR Facility No.: 11102	Consultant/Contractor: Stratus Environmental, Inc.
Address: 885 Jarvis Drive	BP/AR Facility Address: 100 MacArthur Blvd., Oakland	Address: 3330 Cameron Park Drive, Suite 550
Morgan Hill, CA 95937	Site Lat/Long:	Cameron Park, CA 95682
Lab PM: Lisa Race	California Global ID No.: T0600100908	Consultant/Contractor Project No.: E1102-04
Tele/Fax: 408-782-8156 408-782-6308 (fax)	Enfos Project No.: G07T9-0032	Consultant/Contractor PM: Jay Johnson
BP/AR PM Contact: Paul Supple	Provision or OOC (circle one) Provision	Tele/Fax: (530) 676-6000 / (530) 676-6005
Address: 2010 Crow Canyon Place, Suite 150	Phase/WBS: 04-Monitoring	Report Type & QC Level: Level 1 with EDF
San Ramon, CA	Sub Phase/Task: 03-Analytical	E-mail EDD To: shayes@stratusinc.net
Tele/Fax: 925-275-3506	Cost Element: 01-Contractor labor	Invoice to: Atlantic Richfield Co.

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO/BTEX/Oxy*	Requested Analysis: 1,2-DCA	Requested Analysis: Ethanol by 8260	Requested Analysis: EDB	Requested Analysis: DRO	Requested Analysis: Ferrous Fe	Requested Analysis: NO3	Requested Analysis: SO4	Requested Analysis: H2S	Sample Point Lat/Long and Comments
1	MW-1	845	10/24/07					6						X	X	X	X						
2	MW-2	810	"					3						X	X	X	X						
3	MW-3	900	"					3						X	X	X	X						
4	TB 11102 - ~~(0410207)~~ 10.24.07	600	"											X	X	X	X						HOLD
5																							
6																							
7																							
8																							
9																							
10																							

Sampler's Name: Jerry Gonzalez	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Doulos ENV		10/26	910		10/26	0940
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

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

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

TestAmerica
ANALYTICAL TESTING CORPORATION

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

12 November, 2007

Jay Johnson
Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park, CA 95682

RE: BP Heritage #11102, Oakland, CA
Work Order: MQJ1025

Enclosed are the results of analyses for samples received by the laboratory on 10/26/07 19:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.

TestAmerica
ANALYTICAL TESTING CORPORATION

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

Stratus Environmental Inc. [Arco]	Project: BP Heritage #11102, Oakland, CA	MQJ1025
3330 Cameron Park Dr., Suite 550	Project Number: G07T9-0032	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	11/12/07 14:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MQJ1025-01	Water	10/24/07 08:45	10/26/07 19:55
MW-2	MQJ1025-02	Water	10/24/07 08:10	10/26/07 19:55
MW-3	MQJ1025-03	Water	10/24/07 09:00	10/26/07 19:55
TB-11102-102407	MQJ1025-04	Water	10/24/07 06:00	10/26/07 19:55

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with no custody seals.

TestAmerica
ANALYTICAL TESTING CORPORATION

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

Stratus Environmental Inc. [Arco]	Project: BP Heritage #11102, Oakland, CA	MQJ1025
3330 Cameron Park Dr., Suite 550	Project Number: G07T9-0032	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	11/12/07 14:38

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MQJ1025-01) Water Sampled: 10/24/07 08:45 Received: 10/26/07 19:55									
Gasoline Range Organics (C4-C12)	**100**	50	ug/l	1	7K03004	11/03/07	11/03/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*60-150*		"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*75-130*		"	"	"	"	
Surrogate: Toluene-d8		*99 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95 %*	*55-130*		"	"	"	"	
MW-2 (MQJ1025-02) Water Sampled: 10/24/07 08:10 Received: 10/26/07 19:55									
Gasoline Range Organics (C4-C12)	**2800**	500	ug/l	10	7K05006	11/05/07	11/05/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		*122 %*	*60-150*		"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*75-130*		"	"	"	"	
Surrogate: Toluene-d8		*88 %*	*75-120*		"	"	"	"	
MW-3 (MQJ1025-03) Water Sampled: 10/24/07 09:00 Received: 10/26/07 19:55									
Gasoline Range Organics (C4-C12)	**2000**	250	ug/l	5	7K05006	11/05/07	11/05/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		*121 %*	*60-150*		"	"	"	"	
Surrogate: Dibromofluoromethane		*121 %*	*75-130*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99 %*	*55-130*		"	"	"	"	

TestAmerica
ANALYTICAL TESTING CORPORATION

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

Stratus Environmental Inc. [Arco]	Project: BP Heritage #11102, Oakland, CA	MQJ1025
3330 Cameron Park Dr., Suite 550	Project Number: G07T9-0032	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	11/12/07 14:38

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MQJ1025-01) Water Sampled: 10/24/07 08:45 Received: 10/26/07 19:55									
tert-Amyl methyl ether	ND	0.50	ug/l	1	7K05006	11/05/07	11/05/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	**94**	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**4.9**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*55-130*		"	"	"	"	
MW-2 (MQJ1025-02) Water Sampled: 10/24/07 08:10 Received: 10/26/07 19:55									
tert-Amyl methyl ether	**52**	25	ug/l	50	7K05006	11/05/07	11/05/07	EPA 8260B	
Benzene	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	**9500**	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethanol	ND	15000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	**2800**	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*97 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*93 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91 %*	*55-130*		"	"	"	"	

TestAmerica
ANALYTICAL TESTING CORPORATION

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

Stratus Environmental Inc. [Arco]	Project: BP Heritage #11102, Oakland, CA	MQJ1025
3330 Cameron Park Dr., Suite 550	Project Number: G07T9-0032	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	11/12/07 14:38

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MQJ1025-03) Water Sampled: 10/24/07 09:00 Received: 10/26/07 19:55									
tert-Amyl methyl ether	**58**	25	ug/l	50	7K05006	11/05/07	11/05/07	EPA 8260B	
Benzene	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethanol	ND	15000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	**3500**	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*111 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98 %*	*55-130*		"	"	"	"	

TestAmerica
ANALYTICAL TESTING CORPORATION

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

Stratus Environmental Inc. [Arco]	Project: BP Heritage #11102, Oakland, CA	MQJ1025
3330 Cameron Park Dr., Suite 550	Project Number: G07T9-0032	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	11/12/07 14:38

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K03004 - EPA 5030B P/T / LUFT GCMS										
Blank (7K03004-BLK1)				Prepared & Analyzed: 11/03/07						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*2.63*		"	*2.50*		*105*	*60-150*			
Surrogate: Dibromofluoromethane	*2.54*		"	*2.50*		*102*	*75-130*			
Surrogate: Toluene-d8	*2.45*		"	*2.50*		*98*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.29*		"	*2.50*		*92*	*55-130*			
Laboratory Control Sample (7K03004-BS2)				Prepared & Analyzed: 11/03/07						
Gasoline Range Organics (C4-C12)	434	50	ug/l	500		87	55-130			
Surrogate: 1,2-Dichloroethane-d4	*2.72*		"	*2.50*		*109*	*60-150*			
Surrogate: Dibromofluoromethane	*2.48*		"	*2.50*		*99*	*75-130*			
Surrogate: Toluene-d8	*2.48*		"	*2.50*		*99*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.46*		"	*2.50*		*98*	*55-130*			
Laboratory Control Sample Dup (7K03004-BSD2)				Prepared & Analyzed: 11/03/07						
Gasoline Range Organics (C4-C12)	437	50	ug/l	500		87	55-130	0.8	20	
Surrogate: 1,2-Dichloroethane-d4	*2.59*		"	*2.50*		*104*	*60-150*			
Surrogate: Dibromofluoromethane	*2.40*		"	*2.50*		*96*	*75-130*			
Surrogate: Toluene-d8	*2.46*		"	*2.50*		*98*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.48*		"	*2.50*		*99*	*55-130*			
Matrix Spike (7K03004-MS1)	**Source: MQJ1025-01**			Prepared & Analyzed: 11/03/07						
Gasoline Range Organics (C4-C12)	835	50	ug/l	550	103	133	25-150			
Surrogate: 1,2-Dichloroethane-d4	*2.71*		"	*2.50*		*108*	*60-150*			
Surrogate: Dibromofluoromethane	*2.52*		"	*2.50*		*101*	*75-130*			
Surrogate: Toluene-d8	*2.46*		"	*2.50*		*98*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.44*		"	*2.50*		*98*	*55-130*			
Matrix Spike Dup (7K03004-MSD1)	**Source: MQJ1025-01**			Prepared & Analyzed: 11/03/07						
Gasoline Range Organics (C4-C12)	817	50	ug/l	550	103	130	25-150	2	20	
Surrogate: 1,2-Dichloroethane-d4	*2.58*		"	*2.50*		*103*	*60-150*			
Surrogate: Dibromofluoromethane	*2.54*		"	*2.50*		*102*	*75-130*			
Surrogate: Toluene-d8	*2.49*		"	*2.50*		*100*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.31*		"	*2.50*		*92*	*55-130*			

TestAmerica
ANALYTICAL TESTING CORPORATION

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

Stratus Environmental Inc. [Arco]	Project: BP Heritage #11102, Oakland, CA	MQJ1025
3330 Cameron Park Dr., Suite 550	Project Number: G07T9-0032	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	11/12/07 14:38

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K05006 - EPA 5030B P/T / LUFT GCMS										
Blank (7K05006-BLK1)				Prepared & Analyzed: 11/05/07						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*2.67*		"	*2.50*		*107*	*60-150*			
Surrogate: Dibromofluoromethane	*2.39*		"	*2.50*		*96*	*75-130*			
Surrogate: Toluene-d8	*2.57*		"	*2.50*		*103*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.21*		"	*2.50*		*88*	*55-130*			
Laboratory Control Sample (7K05006-BS2)				Prepared & Analyzed: 11/05/07						
Gasoline Range Organics (C4-C12)	501	50	ug/l	500		100	55-130			
Surrogate: 1,2-Dichloroethane-d4	*2.79*		"	*2.50*		*112*	*60-150*			
Surrogate: Dibromofluoromethane	*2.56*		"	*2.50*		*102*	*75-130*			
Surrogate: Toluene-d8	*2.49*		"	*2.50*		*100*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.64*		"	*2.50*		*106*	*55-130*			
Laboratory Control Sample Dup (7K05006-BSD2)				Prepared & Analyzed: 11/05/07						
Gasoline Range Organics (C4-C12)	451	50	ug/l	500		90	55-130	11	20	
Surrogate: 1,2-Dichloroethane-d4	*2.10*		"	*2.50*		*84*	*60-150*			
Surrogate: Dibromofluoromethane	*2.12*		"	*2.50*		*85*	*75-130*			
Surrogate: Toluene-d8	*2.21*		"	*2.50*		*88*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.66*		"	*2.50*		*106*	*55-130*			
Matrix Spike (7K05006-MS1)	**Source: MQJ1027-07**			Prepared & Analyzed: 11/05/07						
Gasoline Range Organics (C4-C12)	651	50	ug/l	550	27.7	113	25-150			
Surrogate: 1,2-Dichloroethane-d4	*2.59*		"	*2.50*		*104*	*60-150*			
Surrogate: Dibromofluoromethane	*2.60*		"	*2.50*		*104*	*75-130*			
Surrogate: Toluene-d8	*2.56*		"	*2.50*		*102*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.41*		"	*2.50*		*96*	*55-130*			
Matrix Spike Dup (7K05006-MSD1)	**Source: MQJ1027-07**			Prepared & Analyzed: 11/05/07						
Gasoline Range Organics (C4-C12)	632	50	ug/l	550	27.7	110	25-150	3	20	
Surrogate: 1,2-Dichloroethane-d4	*2.34*		"	*2.50*		*94*	*60-150*			
Surrogate: Dibromofluoromethane	*2.51*		"	*2.50*		*100*	*75-130*			
Surrogate: Toluene-d8	*2.68*		"	*2.50*		*107*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.23*		"	*2.50*		*89*	*55-130*			

TestAmerica
ANALYTICAL TESTING CORPORATION

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

Stratus Environmental Inc. [Arco]	Project: BP Heritage #11102, Oakland, CA	MQJ1025
3330 Cameron Park Dr., Suite 550	Project Number: G07T9-0032	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	11/12/07 14:38

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K05006 - EPA 5030B P/T / EPA 8260B										
Blank (7K05006-BLK1)				Prepared & Analyzed: 11/05/07						
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	300	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: Dibromofluoromethane	*2.39*		"	*2.50*		*96*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.67*		"	*2.50*		*107*	*60-150*			
Surrogate: Toluene-d8	*2.57*		"	*2.50*		*103*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.21*		"	*2.50*		*88*	*55-130*			
Laboratory Control Sample (7K05006-BS1)				Prepared & Analyzed: 11/05/07						
tert-Amyl methyl ether	9.90	0.50	ug/l	10.0		99	75-125			
Benzene	10.7	0.50	"	10.0		107	75-120			
tert-Butyl alcohol	190	20	"	200		95	80-120			
Di-isopropyl ether	10.8	0.50	"	10.0		108	70-130			
1,2-Dibromoethane (EDB)	10.6	0.50	"	10.0		106	75-130			
1,2-Dichloroethane	9.64	0.50	"	10.0		96	65-130			
Ethanol	194	300	"	200		97	50-150			
Ethyl tert-butyl ether	10.3	0.50	"	10.0		103	75-130			
Ethylbenzene	11.1	0.50	"	10.0		111	80-125			
Methyl tert-butyl ether	10.6	0.50	"	10.0		106	80-130			
Toluene	11.1	0.50	"	10.0		111	80-120			
Xylenes (total)	31.0	0.50	"	30.0		103	80-125			
Surrogate: Dibromofluoromethane	*2.70*		"	*2.50*		*108*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.69*		"	*2.50*		*108*	*60-150*			
Surrogate: Toluene-d8	*2.43*		"	*2.50*		*97*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.38*		"	*2.50*		*95*	*55-130*			

TestAmerica
ANALYTICAL TESTING CORPORATION

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

Stratus Environmental Inc. [Arco]	Project: BP Heritage #11102, Oakland, CA	MQJ1025
3330 Cameron Park Dr., Suite 550	Project Number: G07T9-0032	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	11/12/07 14:38

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K05006 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (7K05006-MS1)	**Source: MQJ1027-07**			Prepared & Analyzed: 11/05/07						
tert-Amyl methyl ether	10.9	0.50	ug/l	10.0	ND	109	75-140			
Benzene	10.4	0.50	"	10.0	ND	104	80-120			
tert-Butyl alcohol	191	20	"	200	ND	96	80-125			
Di-isopropyl ether	11.7	0.50	"	10.0	ND	117	75-135			
1,2-Dibromoethane (EDB)	11.0	0.50	"	10.0	ND	110	80-135			
1,2-Dichloroethane	10.6	0.50	"	10.0	ND	106	65-145			
Ethanol	200	300	"	200	ND	100	50-150			
Ethyl tert-butyl ether	9.94	0.50	"	10.0	ND	99	80-135			
Ethylbenzene	11.3	0.50	"	10.0	ND	113	75-130			
Methyl tert-butyl ether	9.80	0.50	"	10.0	ND	98	75-145			
Toluene	11.8	0.50	"	10.0	ND	118	80-125			
Xylenes (total)	34.3	0.50	"	30.0	ND	114	75-125			
Surrogate: Dibromofluoromethane	*2.60*		"	*2.50*		*104*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.59*		"	*2.50*		*104*	*60-150*			
Surrogate: Toluene-d8	*2.56*		"	*2.50*		*102*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.41*		"	*2.50*		*96*	*55-130*			
Matrix Spike Dup (7K05006-MSD1)	**Source: MQJ1027-07**			Prepared & Analyzed: 11/05/07						
tert-Amyl methyl ether	9.85	0.50	ug/l	10.0	ND	98	75-140	10	25	
Benzene	10.7	0.50	"	10.0	ND	107	80-120	2	20	
tert-Butyl alcohol	196	20	"	200	ND	98	80-125	2	25	
Di-isopropyl ether	11.2	0.50	"	10.0	ND	112	75-135	5	25	
1,2-Dibromoethane (EDB)	11.9	0.50	"	10.0	ND	119	80-135	8	30	
1,2-Dichloroethane	11.6	0.50	"	10.0	ND	116	65-145	9	25	
Ethanol	203	300	"	200	ND	102	50-150	1	25	
Ethyl tert-butyl ether	10.7	0.50	"	10.0	ND	107	80-135	7	25	
Ethylbenzene	10.2	0.50	"	10.0	ND	102	75-130	10	20	
Methyl tert-butyl ether	11.1	0.50	"	10.0	ND	111	75-145	12	25	
Toluene	10.7	0.50	"	10.0	ND	107	80-125	10	25	
Xylenes (total)	29.6	0.50	"	30.0	ND	99	75-125	15	20	
Surrogate: Dibromofluoromethane	*2.51*		"	*2.50*		*100*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.34*		"	*2.50*		*94*	*60-150*			
Surrogate: Toluene-d8	*2.68*		"	*2.50*		*107*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.23*		"	*2.50*		*89*	*55-130*			

TestAmerica
ANALYTICAL TESTING CORPORATION

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

Stratus Environmental Inc. [Arco]	Project: BP Heritage #11102, Oakland, CA	MQJ1025
3330 Cameron Park Dr., Suite 550	Project Number: G07T9-0032	**Reported:**
Cameron Park CA, 95682	Project Manager: Jay Johnson	11/12/07 14:38

Notes and Definitions

PV	Hydrocarbon result partly due to individ. peak(s) in quant. range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

Project Name: ARCO 11102
BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 11
State or Lead Regulatory Agency:
Requested Due Date (mm/dd/yy):

On-site Time: 900	Temp: 65
Off-site Time: 9:15	Temp: 68
Sky Conditions: Clear	
Meteorological Events: None	
Wind Speed: 0	Direction: S

Lab Name: TestAmerica	BP/AR Facility No.: 11102	Consultant/Contractor: Stratus Environmental, Inc.
Address: 885 Jarvis Drive	BP/AR Facility Address: 100 MacArthur Blvd., Oakland	Address: 3330 Cameron Park Drive, Suite 550
Morgan Hill, CA 95937	Site Lat/Long:	Cameron Park, CA 95682
Lab PM: Lisa Race	California Global ID No.: T0600100908	Consultant/Contractor Project No.: E11102-04
Tele/Fax: 408-782-8156 408-782-6308 (fax)	Enfos Project No.: G07T9-0032	Consultant/Contractor PM: Jay Johnson
BP/AR PM Contact: Paul Supple	Provision or OOC (circle one) Provision	Tele/Fax: (530) 676-6000 / (530) 676-6005
Address: 2010 Crow Canyon Place, Suite 150	Phase/WBS: 04-Monitoring	Report Type & QC Level: Level 1 with EDF
San Ramon, CA	Sub Phase/Task: 03-Analytical	E-mail EDD To: shayes@stratusinc.net
Tele/Fax: 925-275-3506	Cost Element: 01-Contractor labor	Invoice to: Atlantic Richfield Co.

Lab Bottle Order No: MQJ1025

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO/BTEX/Oxy*	Requested Analysis: 1,2-DCA	Requested Analysis: Ethanol by 8260	Requested Analysis: EDB	Requested Analysis: DRO	Requested Analysis: Ferrous Fe	Requested Analysis: NO_3	Requested Analysis: SO_4	Requested Analysis: H_2S	Sample Point Lat/Long and Comments (*Oxy= MTBE,TAME,ETBE,DIPE,TBA)
1	MW-1	845	10/24/07				01	6						X	X	X	X						
2	MW-2	810					02	3						X	X	X	X						
3	MW-3	900					03	3						X	X	X	X						
4	TB 11102 - ~~07102007~~ 10240 7	600					04							X	X	X	X						HOLD
5																							
6																							
7																							
8																							
9																							
10																							

Sampler's Name: Jerry Gonzalez	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date / Time
Sampler's Company: Doulos ENV		10/26	910	#613	10/26 0916
Shipment Date:		10-26			10-26 1710
Shipment Method:				Cindy Medrano TAMH	10/26/07 1955
Shipment Tracking No:					

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

Custody Seals In Place: Yes / (No) | Temp Blank: (Yes) / No | Cooler Temp on Receipt: 2.6 °F (C) | Trip Blank: (Yes) / No | MS/MSD Sample Submitted: (Yes) / No

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: Arco
REC. BY (PRINT) A.M.
WORKORDER: MQJ1025

DATE REC'D AT LAB: 10/26/07
TIME REC'D AT LAB: 1955
DATE LOGGED IN: 10/27/07

For Regulatory Purposes?
___ DRINKING WATER
___ WASTE WATER
X OTHER

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / (Absent) Intact / Broken*								
2. Chain-of-Custody	(Present) / Absent*								
3. Traffic Reports or Packing List:	Present / (Absent)								
4. Airbill:	Airbill / Sticker Present / (Absent)								
5. Airbill #:	___								
6. Sample Labels:	(Present) / Absent								
7. Sample IDs:	(Listed) / Not Listed on Chain-of-Custody								
8. Sample Condition:	(Intact) / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	**(Yes) / No***								
10. Sample received within hold time?	(Yes) / No*								
11. Adequate sample volume received?	(Yes) / No*								
12. Proper preservatives used?	(Yes) / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes)	(Yes) / No*								
14. Read Temp:	3.6°C								
Correction Factor:	-1.0°C								
Corrected Temp:	2.6°C								
Is corrected temp. 0-6°C?	(Yes) / No**								

**Exception (if any): Metals / Perchlorate
DFF on Ice or Problem COC

See COC A.M. 10/26/07

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATION

Electronic Submittal Information

UPLOADING A GEO_WELL FILE

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

Submittal Title:	**4Q07 GEO_WELL 11102**
Facility Global ID:	**T0600100908**
Facility Name:	**BP #11102**
Submittal Date/Time:	**12/10/2007 2:20:12 PM**
Confirmation Number:	**7164204478**

Back to Main Menu

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

Your EDF file has been successfully uploaded!

Confirmation Number: 4580850422
Date/Time of Submittal: 12/10/2007 11:07:07 AM
Facility Global ID: T0600100908
Facility Name: BP #11102
Submittal Title: 4Q07 GW Monitoring
Submittal Type: GW Monitoring Report

Click here to view the detections report for this upload.

BP #11102
100 MACARTHUR
OAKLAND, CA 94610

Regional Board - Case #: 01-0985
SAN FRANCISCO BAY RWQCB (REGION 2)
Local Agency (lead agency) - Case #: RO0000456
ALAMEDA COUNTY LOP - **(SP)**

CONF #	TITLE	QUARTER
4580850422	4Q07 GW Monitoring	Q4 2007

SUBMITTED BY	SUBMIT DATE	STATUS
Broadbent & Associates, Inc.	12/10/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	3
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0