



Atlantic Richfield Company
(a BP affiliated company)

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

30 October 2007

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

RECEIVED

10:15 am, Nov 02, 2007

Alameda County
Environmental Health



"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

Third 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



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

30 October 2007

Project No. 06-08-643

Broadbent & Associates, Inc.
1324 Mangrove Ave., Suite 212
Chico, CA 95926
Voice (530) 566-1400
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30 October 2007

Project No. 06-08-643

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

Attn.: Mr. Paul Supple

Re: Third 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 *Third 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 Third 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,

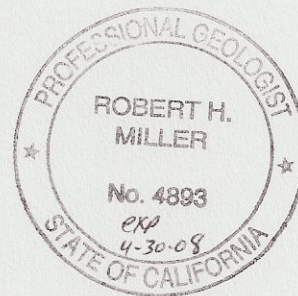
BROADBENT & ASSOCIATES, INC.

A handwritten signature in black ink that reads 'Thomas A. Venus'.

Thomas A. Venus, P.E.
Senior Engineer

A handwritten signature in black ink that reads 'Robert H. Miller'.

Robert H. Miller, P.G., C.H.G.
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 (Third Quarter 2007):

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

WORK PROPOSED FOR NEXT QUARTER (Fourth Quarter 2007):

1. Prepared and submitted this Third Quarter 2007 Ground-Water Monitoring Report (contained herein).
2. Conduct quarterly ground-water monitoring/sampling for Fourth Quarter 2007. 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):	10.52 (MW-1) to 11.97 (MW-2)
General ground-water flow direction:	Southwest
Approximate hydraulic gradient:	0.04 ft/ft

DISCUSSION:

Third Quarter 2007 ground-water monitoring and sampling was conducted at Station #11102 on 10 July 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 10.52 ft at well MW-1 to 11.97 ft at well MW-2. Resulting ground-water surface elevations ranged from 79.68 ft above mean sea level in well MW-1 to 75.72 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 0.04 ft/ft to the southwest, which is 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. However, wells MW-2 and MW-3 purged dry before three casing volumes were removed (The wells were allowed to partially recover prior to sampling). No other

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 Diesel Range Organics (DRO, C10-C36) by EPA Method 8015B (SVOA); 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. During Third Quarter 2007 samples from each well were also analyzed for Hydrogen Sulfide by APHA/EPA Methods, Ferrous Iron by Hach Method 8146/1 – Phenanthroline Method, and Nitrate and Sulfate by EPA Method 300.0. 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. The laboratory also noted that the reported DRO concentrations for each sample collected were within the requested fuel range, but didn't resemble the requested fuel. 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 2,300 micrograms per liter ($\mu\text{g/L}$) in well MW-2. Diesel Range Organics (DRO) were detected above the laboratory reporting limits in each of the wells sampled at concentrations up to 160 $\mu\text{g/L}$ in well MW-1 (but it should be recalled that the laboratory noted that hydrocarbons were noted in the DRO range, but did not resemble DRO). TAME was detected above the laboratory reporting limit in two of the three wells sampled at concentrations up to 42 $\mu\text{g/L}$ in well MW-2. TBA was detected above the laboratory reporting limit in two of the three wells sampled at concentrations of 8,700 $\mu\text{g/L}$ in well MW-2. MTBE was detected above the laboratory reporting limit in each of the wells sampled at concentrations up to 2,600 $\mu\text{g/L}$ in well MW-2. 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 MTBE reached historic maximum concentrations in well MW-3 at 1,800 $\mu\text{g/L}$ and 2,400 $\mu\text{g/L}$, 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, 10 July 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
- Table 3. Historical Ground-Water Flow Direction and Gradient, Station #11102, 100 MacArthur Blvd., Oakland, CA
- Appendix A. Stratus Ground-Water Sampling Data Package (Includes Field Data Sheets and Laboratory Analytical Report with Chain-of-Custody Documentation)
- Appendix B. GeoTracker Upload Confirmation

LEGEND

-  Monitoring Well Location
- | | |
|-------------|---|
| Well | Well designation |
| ELEV | Ground-water elevation (ft MSL) |
| GRO | Concentration of GRO, Benzene and MTBE in ground water (µg/L) |
| Benzene | |
| MTBE | |
| Q | Sampling frequency |
- < Not detected
- Q Sampled quarterly
-  0.04 Approximate ground-water flow direction and gradient (ft/ft)
-  79.4 Ground-water elevation contour (ft MSL)

NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES.
SITE DIMENSIONS AND FIGURES FACILITY LOCATIONS NOT VERIFIED.

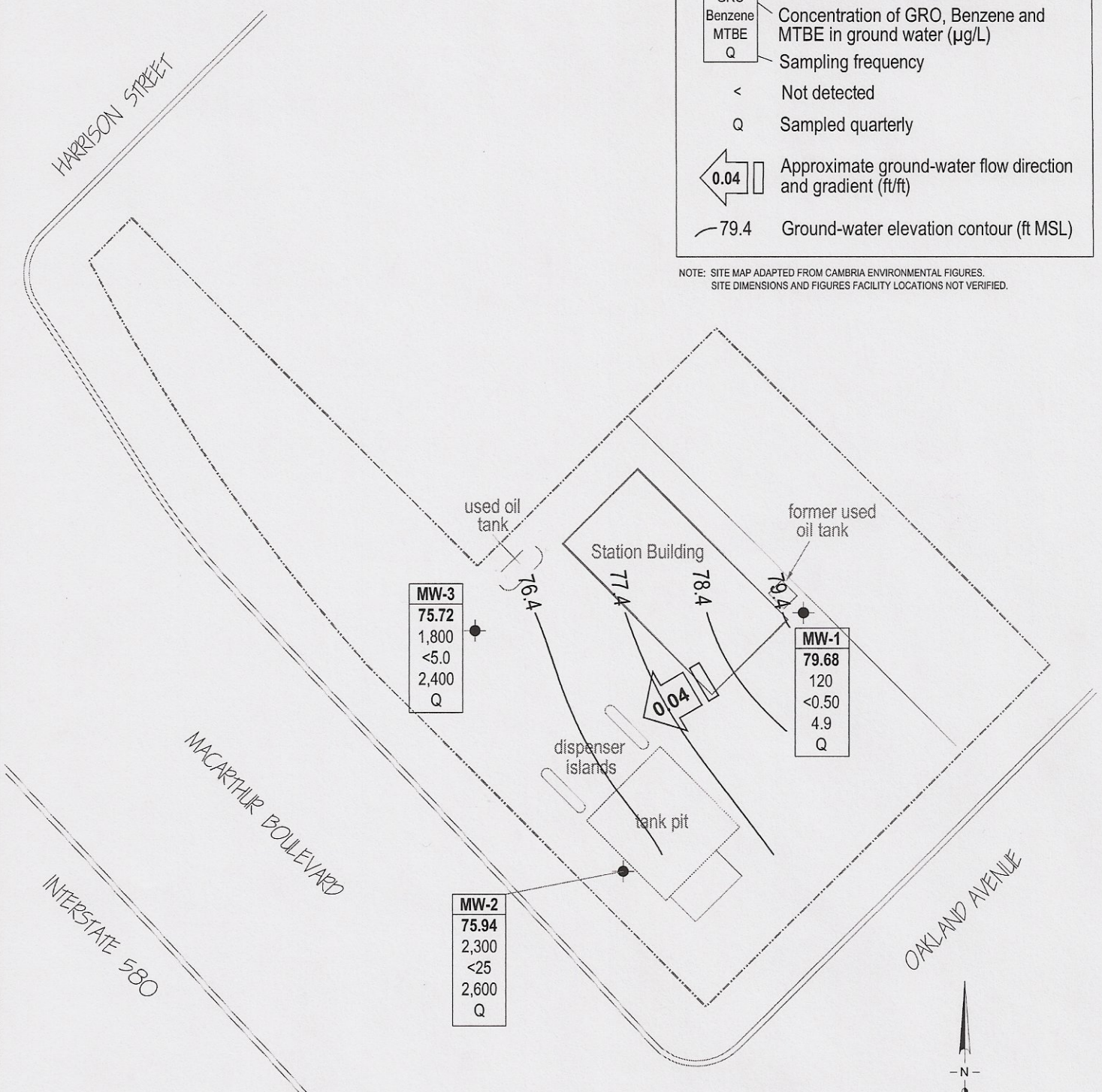


Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

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	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--
4/3/1990	--		87.91	15.25	--	72.66	<500	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--

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.																		
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	--		87.91	8.89	--	79.02	50	<0.5	<1.0	<1.0	<1.0	<10	5.3	SPL	--	--	--	--
6/18/1998	--	c	87.91	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	--	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	--	--
3/27/2000	--		87.91	9.98	--	77.93	1,300	<0.5	<0.5	0.51	<0.5	5,800	--	PACE	--	--	--	--

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.																		
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	1,500	<12	<12	<12	<12	1,700	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	--	--
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	--	--	--	--
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	--	--	--	--

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.																		
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	--	--	--
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	--	--	--

**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.																		
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	--	--
QC-2																		
11/11/1992	--	gc	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
6/7/1993	--	gc	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
12/2/1993	--	gc	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
6/22/1994	--	gc	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
1/10/1995	--	gc	--	--	--	--	<50	<0.5	<0.5	<0.5	<1	--	--	ATI	--	--	--	--
6/21/1995	--	gc	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	--	--	--
12/27/1995	--	gc	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	--	--	--
6/13/1996	--	gc	--	--	--	--	<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 = Anamatrix, 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	
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	
10/31/2006	<15,000	9,300	2,300	<25	<25	41	<25	<25	a

**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.									
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	
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	--	

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

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)**



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

July 26, 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: July 10, 2007

Arrival: 08:00 *Departure:* 10:30

Weather Conditions: Overcast

Unusual Field Conditions: None

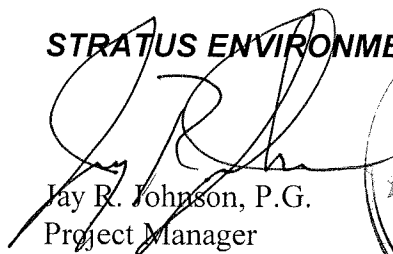
Scope of Work Performed: Quarterly monitoring and sampling

Variations from Work Scope: Wells MW-2 and MW-3 purged dry before three casing volumes were removed.

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



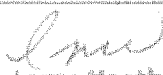
Attachments:

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

CC: Mr. Paul Supple, BP/ARCO

NO. 662239

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR	SITE:		EPA I.D. NO.	NOT REQUIRED		
	NAME <u>BP WEST COAST PRODUCTS LLC ARCO # 11162</u>		PROFILE NO.			
	ADDRESS <u>P.O. BOX 80249</u> <u>RANCHO SANTA MARGARITA</u>		PHONE NO. <u>() ()</u>			
	CITY, STATE, ZIP <u>CA 92688</u>					
CONTAINERS: No. _____ VOLUME <u>1</u> WEIGHT _____						
TYPE: <input type="checkbox"/> TANK TRUCK <input type="checkbox"/> DUMP TRUCK <input type="checkbox"/> DRUMS <input type="checkbox"/> CARTONS <input type="checkbox"/> OTHER _____						
WASTE DESCRIPTION <u>NON-HAZARDOUS WATER</u>		GENERATING PROCESS <u>WELL PURGING/DECON WATER</u>				
COMPONENTS OF WASTE		COMPONENTS OF WASTE				
1. <u>WATER</u> <u>99-100%</u>	PPM	%	5. _____	PPM		
2. <u>TPH</u> <u><1%</u>			6. _____			
3. _____			7. <u>BESI#</u>			
4. _____			8. _____			
PROPERTIES: <u>7-10</u> <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> SLUDGE <input type="checkbox"/> SLURRY <input type="checkbox"/> OTHER _____						
HANDLING INSTRUCTIONS: <u>WEAR ALL APPROPRIATE PROTECTIVE CLOTHING</u>						
THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.		 Larry Moothart BESI for BP TYPED OR PRINTED FULL NAME & SIGNATURE				
		DATE _____				
TRANSPORTER	NAME <u>Transporter #1</u> <u>STRATUS ENVIRONMENTAL</u>		EPA I.D. NO. _____			
	ADDRESS <u>3330 CAMERON PARK DRIVE STE 550</u>		SERVICE ORDER NO. _____			
	CITY, STATE, ZIP <u>CAMERON PARK CA 95682</u>		PICK UP DATE _____			
	PHONE NO. <u>530-676-6004</u>					
TRUCK, UNIT, I.D. NO. _____		TYPED OR PRINTED FULL NAME & SIGNATURE _____				
		DATE _____				
TSD FACILITY	NAME <u>SEAPORT REFINING & ENVIRONMENTAL, LLC</u>		EPA I.D. NO. _____			
	ADDRESS <u>700 SEAPORT BLVD.</u>		DISPOSAL METHOD			
	CITY, STATE, ZIP <u>REDWOOD CITY, CA 94063</u>		<input type="checkbox"/> LANDFILL <input type="checkbox"/> OTHER _____			
	PHONE NO. <u>650-364-1024</u>					
		TYPED OR PRINTED FULL NAME & SIGNATURE _____				
		DATE _____				
GEN	OLD/NEW	L	A	TONS		
TRANS		S	B			
C/O		RT/CD	HWDF	NONE		DISCREPANCY

BP ALAMEDA PORTFOLIO

HYDROLOGIC DATA SHEET

AP-800 DP 1098

Gauge Date: 7.10.07

Project Name: Oakland - 100 MacArthur Blvd.

Field Technician: _____

Project Number: 11102

TOC = Top of Well Casing Elevation
 DTP = Depth to Free Product (FP or NAPL) 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			
MW 1	8:21			1032	3190	4"			
MW 2	8:23			1195	3230	4"			
MW 3	8:17			1130	3230	4"			

BP ALAMEDA PORTFOLIO

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11102 PURGED BY: [Signature] WELL I.D.: AW-1
 CLIENT NAME: _____ SAMPLED BY: [Signature] SAMPLE I.D.: AW-1
 LOCATION: Oakland - 100 MacArthur Blvd. QA SAMPLES: _____

DATE PURGED: 7/10/07 START (2400hr): 7:00 END (2400hr): 9:09
 DATE SAMPLED: 7/10/07 SAMPLE TIME (2400hr): 8:00
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" _____ 3" _____ 4" 5" 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) = 21.75 CASING VOLUME (gal) = 117
 DEPTH TO WATER (feet) = 10.57 CALCULATED PURGE (gal) = 472.7
 WATER COLUMN HEIGHT (feet) = 11.18 ACTUAL PURGE (gal) = 450

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>7/10/07</u>	<u>7:00</u>	<u>143</u>	<u>62.60</u>	<u>0.663</u>	<u>6.75</u>	<u>clear</u>	
<u>7/10/07</u>	<u>8:00</u>	<u>28.6</u>	<u>60.85</u>	<u>0.545</u>	<u>6.65</u>		
<u>7/10/07</u>	<u>9:09</u>	<u>45.0</u>	<u>68.17</u>	<u>0.578</u>	<u>6.62</u>		

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 10.57 SAMPLE TURBIDITY: clear

80% RECHARGE: YES NO ANALYSES: see work order
 ODOR: 110 SAMPLE VESSEL / PRESERVATIVE: 2.00. HCL - 2. Poly - 1 LI Amber

PURGING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____
 Pump Depth: 31

SAMPLING EQUIPMENT

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

WELL INTEGRITY: good LOCK#: 110701

REMARKS: DB-2.01 orp 21.1

SIGNATURE: [Signature] Page _____ of _____

BP ALAMEDA PORTFOLIO
WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11102 PURGED BY: Jo WELL ID.: 11102
 CLIENT NAME: _____ SAMPLED BY: [Signature] SAMPLE ID.: 11102
 LOCATION: Oakland - 100 MacArthur Blvd. QA SAMPLES: _____

DATE PURGED 7-10-07 START (2400hr) 8:50 END (2400hr) 8:59
 DATE SAMPLED 7-10-07 SAMPLE TIME (2400hr) 7:50
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" _____ 3" _____ 4" 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) = 32.20 CASING VOLUME (gal) = 135
 DEPTH TO WATER (feet) = 11.95 CALCULATED PURGE (gal) = 410.5
 WATER COLUMN HEIGHT (feet) = 20.2 ACTUAL PURGE (gal) = 410

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>7/10/07</u>	<u>8:52</u>	<u>14</u>	<u>69.94</u>	<u>1538</u>	<u>6.72</u>	<u>1</u>	
<u>7/10/07</u>	<u>8:56</u>	<u>28</u>	<u>69.38</u>	<u>2585</u>	<u>6.73</u>	<u>1</u>	
<u>7/10/07</u>	<u>8:58</u>	<u>41.0</u>	<u>69.38</u>	<u>2648</u>	<u>6.79</u>	<u>1</u>	<u>1.1</u>

SAMPLE DEPTH TO WATER: 10.48 SAMPLE TURBIDITY: Clear

80% RECHARGE: YES NO ANALYSES: see work order
 ODOR: no SAMPLE VESSEL / PRESERVATIVE: 3000-ML - 2 POLY - 1.5 Amber

PURGING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____
 Pump Depth: 30

SAMPLING EQUIPMENT

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

WELL INTEGRITY: good LOCK#: 11102

REMARKS: DB 1.82 - ocp. 7.7

SIGNATURE: [Signature] Page _____ of _____

BP ALAMEDA PORTFOLIO
WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11102 PURGED BY: Jo WELL I.D.: 11102-3
 CLIENT NAME: _____ SAMPLED BY: [Signature] SAMPLE I.D.: 11102-3
 LOCATION: Oakland - 100 MacArthur Blvd. QA SAMPLES: _____

DATE PURGED 7-10-07 START (2400hr) 8:38 END (2400hr) _____
 DATE SAMPLED 7-10-07 SAMPLE TIME (2400hr) 10:00
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" _____ 3" _____ 4" 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) = 17.6
 DEPTH TO WATER (feet) = 11.30 CALCULATED PURGE (gal) = 42.2
 WATER COLUMN HEIGHT (feet) = 21 ACTUAL PURGE (gal) = _____

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (unhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>7-10-07</u>	<u>8:41</u>	<u>14.0</u>	<u>59.12</u>	<u>2662</u>	<u>6.75</u>	<u>clear</u>	
	<u>8:44</u>	<u>28.6</u>	<u>59.00</u>	<u>2508</u>	<u>6.75</u>		
	<u>8:46</u>	<u>42.5</u>	<u>58.89</u>	<u>2314</u>	<u>6.75</u>		<u>0.1</u>

SAMPLE DEPTH TO WATER: 13.79 SAMPLE TURBIDITY: clear

80% RECHARGE: YES NO ANALYSES: see work order
 ODOR: no SAMPLE VESSEL / PRESERVATIVE: 3 Vol. HCL 2 Poly - 1.67 mg/L

PURGING EQUIPMENT

Bladder Pump
 Centrifugal Pump
 Submersible Pump
 Peristaltic Pump
 Other: _____
 Pump Depth: 32

Bailer (Teflon)
 Bailer (PVC)
 Bailer (Stainless Steel)
 Dedicated _____

SAMPLING EQUIPMENT

_____ Pump
 Centrifugal Pump
 Submersible Pump
 Peristaltic Pump
 Other: _____

Bailer (Teflon)
 Bailer (_____ PVC or disposable)
 Bailer (Stainless Steel)
 Dedicated _____

WELL INTEGRITY: good LOCK#: 11102
 REMARKS: DO - 1.58 OAP 177.9

SIGNATURE: [Signature] Page _____ of _____



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: <u>8:00</u>	Temp: <u>60</u>
Off-site Time: <u>10:30</u>	Temp: <u>65</u>
Sky Conditions: <u>Overcast</u>	
Meteorological Events: <u>None</u>	
Wind Speed: <u>5</u>	Direction: _____

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11102</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>100 MacArthur Blvd., Oakland</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long: _____	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100908</u>	Consultant/Contractor Project No.: <u>E11102-04</u>
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G0719-0032</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>04-Monitoring</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01-Contractor labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis								Sample Point Lat/Long and Comments			
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GROBTEX/Oxy*	1,2-DCA	Ethanol	EDB	DRO	Ferrous Fe	NO3	NO4		H2S		
1	MW-1	9:25	7/10/07	X				6	3						X	X	X	X	X	X	X	X	X	X	
2	MW-2	9:50	/					6	3						X	X	X	X	X	X	X	X	X	X	
3	MW-3	10:20	/					6	3						X	X	X	X	X	X	X	X	X	X	
4	TB 11102 - 07102007	5:00	/					2							X	X	X	X	X	X	X	X	X	X	HOLD
5																									
6																									
7																									
8																									
9																									
10																									

Sampler's Name: <u>Jerry Gonzalez</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>7-10-07</u>	Time: <u>1630</u>	Accepted By / Affiliation: <u>[Signature] TA (STLSE)</u>	Date: <u>7/10/07</u>	Time: <u>16:30</u>
Sampler's Company: <u>Devlos ENV</u>						
Shipment Date: _____						
Shipment Method: _____						
Shipment Tracking No: _____						

Special Instructions: Please cc results to miller@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

25 July, 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: MQG0436

Enclosed are the results of analyses for samples received by the laboratory on 07/10/07 19:50. 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.

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage #11102, Oakland, CA Project Number: G07T9-0032 Project Manager: Jay Johnson	MQG0436 Reported: 07/25/07 15:26
---	--	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MQG0436-01	Water	07/10/07 09:25	07/10/07 19:50
MW-2	MQG0436-02	Water	07/10/07 09:50	07/10/07 19:50
MW-3	MQG0436-03	Water	07/10/07 10:20	07/10/07 19:50
TB-11102-07102007	MQG0436-04	Water	07/10/07 05:00	07/10/07 19:50

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.

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage #11102, Oakland, CA Project Number: G07T9-0032 Project Manager: Jay Johnson	MQG0436 Reported: 07/25/07 15:26
---	--	--

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 (MQG0436-01) Water Sampled: 07/10/07 09:25 Received: 07/10/07 19:50									
Gasoline Range Organics (C4-C12)	120	50	ug/l	1	7G16005	07/16/07	07/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		90 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		84 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		98 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	60-135		"	"	"	"	
MW-2 (MQG0436-02) Water Sampled: 07/10/07 09:50 Received: 07/10/07 19:50									
Gasoline Range Organics (C4-C12)	2300	500	ug/l	10	7G20017	07/20/07	07/21/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		107 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		93 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93 %	60-135		"	"	"	"	
MW-3 (MQG0436-03) Water Sampled: 07/10/07 10:20 Received: 07/10/07 19:50									
Gasoline Range Organics (C4-C12)	1800	500	ug/l	10	7G16005	07/16/07	07/16/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		102 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		88 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		94 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81 %	60-135		"	"	"	"	

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage #11102, Oakland, CA Project Number: G07T9-0032 Project Manager: Jay Johnson	MQG0436 Reported: 07/25/07 15:26
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Extractable Hydrocarbons with Silica Gel cleanup by EPA 8015B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MQG0436-01) Water Sampled: 07/10/07 09:25 Received: 07/10/07 19:50									
Diesel Range Organics (C10-C36)	160	47	ug/l	1	7G17035	07/17/07	07/18/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		95 %	30-115		"	"	"	"	IJ
MW-2 (MQG0436-02) Water Sampled: 07/10/07 09:50 Received: 07/10/07 19:50									
Diesel Range Organics (C10-C36)	120	48	ug/l	1	7G17035	07/17/07	07/18/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		97 %	30-115		"	"	"	"	IJ
MW-3 (MQG0436-03) Water Sampled: 07/10/07 10:20 Received: 07/10/07 19:50									
Diesel Range Organics (C10-C36)	66	48	ug/l	1	7G17035	07/17/07	07/18/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		100 %	30-115		"	"	"	"	IJ

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

Project: BP Heritage #11102, Oakland, CA
Project Number: G07T9-0032
Project Manager: Jay Johnson

MQG0436
Reported:
07/25/07 15:26

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-1 (MQG0436-01) Water Sampled: 07/10/07 09:25 Received: 07/10/07 19:50

tert-Amyl methyl ether	ND	0.50	ug/l	1	7G16005	07/16/07	07/16/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	110	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	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		84 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		89 %		60-135	"	"	"	"	

MW-2 (MQG0436-02) Water Sampled: 07/10/07 09:50 Received: 07/10/07 19:50

tert-Amyl methyl ether	42	25	ug/l	50	7G16005	07/16/07	07/16/07	EPA 8260B	
Benzene	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	8700	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	2600	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		98 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		82 %		60-135	"	"	"	"	

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

Project: BP Heritage #11102, Oakland, CA
Project Number: G07T9-0032
Project Manager: Jay Johnson

MQG0436
Reported:
07/25/07 15:26

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-3 (MQG0436-03) Water **Sampled: 07/10/07 10:20** **Received: 07/10/07 19:50**

tert-Amyl methyl ether	39	5.0	ug/l	10	7G16005	07/16/07	07/16/07	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	3000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		88 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		81 %		60-135	"	"	"	"	

MW-3 (MQG0436-03RE1) Water **Sampled: 07/10/07 10:20** **Received: 07/10/07 19:50**

Methyl tert-butyl ether	2400	25	ug/l	50	7G20017	07/20/07	07/21/07	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		95 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		83 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		89 %		60-135	"	"	"	"	

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage #11102, Oakland, CA Project Number: G07T9-0032 Project Manager: Jay Johnson	MQG0436 Reported: 07/25/07 15:26
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Conventional Chemistry Parameters by APHA/EPA Methods
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MQG0436-01) Water Sampled: 07/10/07 09:25 Received: 07/10/07 19:50									
Hydrogen Sulfide (H2S)	ND	1000	ug/l	1	7G25021	07/25/07	07/25/07	SM 4500-S2-	
MW-2 (MQG0436-02) Water Sampled: 07/10/07 09:50 Received: 07/10/07 19:50									
Hydrogen Sulfide (H2S)	ND	1000	ug/l	1	7G25021	07/25/07	07/25/07	SM 4500-S2-	
MW-3 (MQG0436-03) Water Sampled: 07/10/07 10:20 Received: 07/10/07 19:50									
Hydrogen Sulfide (H2S)	ND	1000	ug/l	1	7G25021	07/25/07	07/25/07	SM 4500-S2-	

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage #11102, Oakland, CA Project Number: G07T9-0032 Project Manager: Jay Johnson	MQG0436 Reported: 07/25/07 15:26
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Ferrous Iron by Hach method 8146/1;10 Phenanthroline Method
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MQG0436-01) Water - Sampled: 07/10/07 09:25 Received: 07/10/07 19:50									
Ferrous Iron	110	100	ug/l	1	7G16007	07/11/07	07/11/07 09:25	Hach Co. 8146	
MW-2 (MQG0436-02) Water - Sampled: 07/10/07 09:50 Received: 07/10/07 19:50									
Ferrous Iron	160	100	ug/l	1	7G16007	07/11/07	07/11/07 09:25	Hach Co. 8146	
MW-3 (MQG0436-03) Water - Sampled: 07/10/07 10:20 Received: 07/10/07 19:50									
Ferrous Iron	ND	100	ug/l	1	7G16007	07/11/07	07/11/07 09:25	Hach Co. 8146	

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

Project: BP Heritage #11102, Oakland, CA
Project Number: G07T9-0032
Project Manager: Jay Johnson

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Anions by EPA Method 300.0
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MQG0436-01) Water Sampled: 07/10/07 09:25 Received: 07/10/07 19:50									
Nitrate as NO3	1500	500	ug/l	1	7G16017	07/13/07	07/13/07 22:07	EPA 300.0	BU
Sulfate as SO4	21000	5000	"	10	7G19021	07/18/07	07/18/07	"	
MW-2 (MQG0436-02) Water Sampled: 07/10/07 09:50 Received: 07/10/07 19:50									
Nitrate as NO3	ND	500	ug/l	1	7G16017	07/13/07	07/13/07 22:39	EPA 300.0	BU
Sulfate as SO4	26000	5000	"	10	7G19021	07/18/07	07/18/07	"	
MW-3 (MQG0436-03) Water Sampled: 07/10/07 10:20 Received: 07/10/07 19:50									
Nitrate as NO3	8500	500	ug/l	1	7G16017	07/13/07	07/13/07 22:50	EPA 300.0	BU
Sulfate as SO4	19000	5000	"	10	7G19021	07/18/07	07/18/07	"	

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage #11102, Oakland, CA Project Number: G07T9-0032 Project Manager: Jay Johnson	MQG0436 Reported: 07/25/07 15:26
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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
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Batch 7G16005 - EPA 5030B P/T / LUFT GCMS

Blank (7G16005-BLK1)

Prepared & Analyzed: 07/16/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.40		"	2.50		96	60-125			
Surrogate: Dibromofluoromethane	2.41		"	2.50		96	75-120			
Surrogate: Toluene-d8	2.44		"	2.50		98	80-120			
Surrogate: 4-Bromofluorobenzene	2.13		"	2.50		85	60-135			

Laboratory Control Sample (7G16005-BS2)

Prepared & Analyzed: 07/16/07

Gasoline Range Organics (C4-C12)	461	50	ug/l	500		92	65-120			
Surrogate: 1,2-Dichloroethane-d4	2.39		"	2.50		96	60-125			
Surrogate: Dibromofluoromethane	2.33		"	2.50		93	75-120			
Surrogate: Toluene-d8	2.56		"	2.50		102	80-120			
Surrogate: 4-Bromofluorobenzene	2.51		"	2.50		100	60-135			

Laboratory Control Sample Dup (7G16005-BSD2)

Prepared & Analyzed: 07/16/07

Gasoline Range Organics (C4-C12)	433	50	ug/l	500		87	65-120	6	20	
Surrogate: 1,2-Dichloroethane-d4	2.24		"	2.50		90	60-125			
Surrogate: Dibromofluoromethane	2.38		"	2.50		95	75-120			
Surrogate: Toluene-d8	2.56		"	2.50		102	80-120			
Surrogate: 4-Bromofluorobenzene	2.59		"	2.50		104	60-135			

Batch 7G20017 - EPA 5030B P/T / LUFT GCMS

Blank (7G20017-BLK1)

Prepared: 07/20/07 Analyzed: 07/21/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.39		"	2.50		96	60-125			
Surrogate: Dibromofluoromethane	2.29		"	2.50		92	75-120			
Surrogate: Toluene-d8	2.43		"	2.50		97	80-120			
Surrogate: 4-Bromofluorobenzene	2.18		"	2.50		87	60-135			

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage #11102, Oakland, CA Project Number: G07T9-0032 Project Manager: Jay Johnson	MQG0436 Reported: 07/25/07 15:26
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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
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Batch 7G20017 - EPA 5030B P/T / LUFT GCMS

Laboratory Control Sample (7G20017-BS2)

Prepared & Analyzed: 07/20/07

Gasoline Range Organics (C4-C12)	474	50	ug/l	500		95	65-120			
Surrogate: 1,2-Dichloroethane-d4	2.51		"	2.50		100	60-125			
Surrogate: Dibromofluoromethane	2.39		"	2.50		96	75-120			
Surrogate: Toluene-d8	2.61		"	2.50		104	80-120			
Surrogate: 4-Bromofluorobenzene	2.72		"	2.50		109	60-135			

Laboratory Control Sample Dup (7G20017-BSD2)

Prepared & Analyzed: 07/20/07

Gasoline Range Organics (C4-C12)	445	50	ug/l	500		89	65-120	6	20	
Surrogate: 1,2-Dichloroethane-d4	2.52		"	2.50		101	60-125			
Surrogate: Dibromofluoromethane	2.44		"	2.50		98	75-120			
Surrogate: Toluene-d8	2.48		"	2.50		99	80-120			
Surrogate: 4-Bromofluorobenzene	2.81		"	2.50		112	60-135			

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

Project: BP Heritage #11102, Oakland, CA
Project Number: G07T9-0032
Project Manager: Jay Johnson

MQG0436
Reported:
07/25/07 15:26

Extractable Hydrocarbons with Silica Gel cleanup by EPA 8015B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G17035 - EPA 3510C / EPA 8015B-SVOA

Blank (7G17035-BLK1)

Prepared: 07/17/07 Analyzed: 07/18/07

Diesel Range Organics (C10-C36)	ND	50	ug/l							
Surrogate: n-Octacosane	35.9		"	50.0		72	30-115			IJ

Laboratory Control Sample (7G17035-BS1)

Prepared: 07/17/07 Analyzed: 07/18/07

Diesel Range Organics (C10-C36)	422	50	ug/l	500		84	40-115			
Surrogate: n-Octacosane	38.7		"	50.0		77	30-115			IJ

Laboratory Control Sample Dup (7G17035-BSD1)

Prepared: 07/17/07 Analyzed: 07/18/07

Diesel Range Organics (C10-C36)	387	50	ug/l	500		77	40-115	9	25	
Surrogate: n-Octacosane	35.3		"	50.0		71	30-115			IJ

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

Project: BP Heritage #11102, Oakland, CA
Project Number: G07T9-0032
Project Manager: Jay Johnson

MQG0436
Reported:
07/25/07 15:26

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
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Batch 7G16005 - EPA 5030B P/T / EPA 8260B

Blank (7G16005-BLK1)

Prepared & Analyzed: 07/16/07

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	"							
<i>Surrogate: Dibromofluoromethane</i>	2.41		"	2.50		96	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.40		"	2.50		96	60-125			
<i>Surrogate: Toluene-d8</i>	2.44		"	2.50		98	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.13		"	2.50		85	60-135			

Laboratory Control Sample (7G16005-BS1)

Prepared & Analyzed: 07/16/07

tert-Amyl methyl ether	10.7	0.50	ug/l	10.0		107	65-135			
Benzene	9.87	0.50	"	10.0		99	75-120			
tert-Butyl alcohol	178	20	"	200		89	60-135			
Di-isopropyl ether	10.3	0.50	"	10.0		103	70-130			
1,2-Dibromoethane (EDB)	11.2	0.50	"	10.0		112	80-135			
1,2-Dichloroethane	10.3	0.50	"	10.0		103	70-125			
Ethanol	213	300	"	200		107	15-150			
Ethyl tert-butyl ether	10.7	0.50	"	10.0		107	65-130			
Ethylbenzene	10.0	0.50	"	10.0		100	75-120			
Methyl tert-butyl ether	9.98	0.50	"	10.0		100	50-140			
Toluene	10.3	0.50	"	10.0		103	75-120			
Xylenes (total)	30.7	0.50	"	30.0		102	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.38		"	2.50		95	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.58		"	2.50		103	60-125			
<i>Surrogate: Toluene-d8</i>	2.56		"	2.50		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.68		"	2.50		107	60-135			

TestAmerica - Morgan Hill, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

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

Project: BP Heritage #11102, Oakland, CA
Project Number: G07T9-0032
Project Manager: Jay Johnson

MQG0436
Reported:
07/25/07 15:26

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
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Batch 7G16005 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7G16005-MS1)	Source: MQG0437-01			Prepared & Analyzed: 07/16/07						
tert-Amyl methyl ether	10.3	0.50	ug/l	10.0	0.440	98	65-135			
Benzene	10.3	0.50	"	10.0	0.250	101	75-120			
tert-Butyl alcohol	198	20	"	200	6.62	96	60-135			
Di-isopropyl ether	11.4	0.50	"	10.0	ND	114	70-130			
1,2-Dibromoethane (EDB)	11.4	0.50	"	10.0	ND	114	80-135			
1,2-Dichloroethane	22.3	0.50	"	10.0	11.5	108	70-125			
Ethanol	159	300	"	200	ND	80	15-150			
Ethyl tert-butyl ether	11.2	0.50	"	10.0	ND	112	65-130			
Ethylbenzene	9.80	0.50	"	10.0	ND	98	75-120			
Methyl tert-butyl ether	10.1	0.50	"	10.0	ND	101	50-140			
Toluene	10.7	0.50	"	10.0	ND	107	75-120			
Xylenes (total)	30.9	0.50	"	30.0	ND	103	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.29		"	2.50		92	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.34		"	2.50		94	60-125			
<i>Surrogate: Toluene-d8</i>	2.50		"	2.50		100	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.53		"	2.50		101	60-135			

Matrix Spike Dup (7G16005-MSD1)	Source: MQG0437-01			Prepared & Analyzed: 07/16/07						
tert-Amyl methyl ether	10.2	0.50	ug/l	10.0	0.440	97	65-135	1	25	
Benzene	10.1	0.50	"	10.0	0.250	99	75-120	2	20	
tert-Butyl alcohol	202	20	"	200	6.62	98	60-135	2	25	
Di-isopropyl ether	11.0	0.50	"	10.0	ND	110	70-130	4	25	
1,2-Dibromoethane (EDB)	11.0	0.50	"	10.0	ND	110	80-135	3	30	
1,2-Dichloroethane	21.6	0.50	"	10.0	11.5	101	70-125	3	25	
Ethanol	210	300	"	200	ND	105	15-150	27	25	BA
Ethyl tert-butyl ether	11.0	0.50	"	10.0	ND	110	65-130	2	25	
Ethylbenzene	9.93	0.50	"	10.0	ND	99	75-120	1	20	
Methyl tert-butyl ether	10.2	0.50	"	10.0	ND	102	50-140	0.4	25	
Toluene	10.2	0.50	"	10.0	ND	102	75-120	4	25	
Xylenes (total)	31.1	0.50	"	30.0	ND	104	75-130	0.7	20	
<i>Surrogate: Dibromofluoromethane</i>	2.21		"	2.50		88	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.38		"	2.50		95	60-125			
<i>Surrogate: Toluene-d8</i>	2.59		"	2.50		104	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.60		"	2.50		104	60-135			

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

Project: BP Heritage #11102, Oakland, CA
Project Number: G07T9-0032
Project Manager: Jay Johnson

MQG0436
Reported:
07/25/07 15:26

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
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Batch 7G20017 - EPA 5030B P/T / EPA 8260B

Blank (7G20017-BLK1)

Prepared: 07/20/07 Analyzed: 07/21/07

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	"							
<i>Surrogate: Dibromofluoromethane</i>	2.29		"	2.50		92	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.39		"	2.50		96	60-125			
<i>Surrogate: Toluene-d8</i>	2.43		"	2.50		97	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.18		"	2.50		87	60-135			

Laboratory Control Sample (7G20017-BS1)

Prepared & Analyzed: 07/20/07

tert-Amyl methyl ether	9.12	0.50	ug/l	10.0		91	65-135			
Benzene	9.42	0.50	"	10.0		94	75-120			
tert-Butyl alcohol	181	20	"	200		91	60-135			
Di-isopropyl ether	9.53	0.50	"	10.0		95	70-130			
1,2-Dibromoethane (EDB)	9.63	0.50	"	10.0		96	80-135			
1,2-Dichloroethane	10.2	0.50	"	10.0		102	70-125			
Ethanol	168	300	"	200		84	15-150			
Ethyl tert-butyl ether	10.1	0.50	"	10.0		101	65-130			
Ethylbenzene	8.91	0.50	"	10.0		89	75-120			
Methyl tert-butyl ether	9.06	0.50	"	10.0		91	50-140			
Toluene	9.33	0.50	"	10.0		93	75-120			
Xylenes (total)	27.8	0.50	"	30.0		93	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.47		"	2.50		99	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.38		"	2.50		95	60-125			
<i>Surrogate: Toluene-d8</i>	2.53		"	2.50		101	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.47		"	2.50		99	60-135			

TestAmerica - Morgan Hill, CA

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

Project: BP Heritage #11102, Oakland, CA
Project Number: G07T9-0032
Project Manager: Jay Johnson

MQG0436
Reported:
07/25/07 15:26

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
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Batch 7G20017 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7G20017-MS1)	Source: MQG0507-01			Prepared & Analyzed: 07/20/07						
tert-Amyl methyl ether	9.59	0.50	ug/l	10.0	ND	96	65-135			
Benzene	9.63	0.50	"	10.0	ND	96	75-120			
tert-Butyl alcohol	211	20	"	200	ND	106	60-135			
Di-isopropyl ether	10.5	0.50	"	10.0	ND	105	70-130			
1,2-Dibromoethane (EDB)	9.80	0.50	"	10.0	ND	98	80-135			
1,2-Dichloroethane	10.4	0.50	"	10.0	ND	104	70-125			
Ethanol	164	300	"	200	ND	82	15-150			
Ethyl tert-butyl ether	10.1	0.50	"	10.0	ND	101	65-130			
Ethylbenzene	10.0	0.50	"	10.0	ND	100	75-120			
Methyl tert-butyl ether	10.3	0.50	"	10.0	ND	103	50-140			
Toluene	10.4	0.50	"	10.0	ND	104	75-120			
Xylenes (total)	29.0	0.50	"	30.0	ND	97	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.35		"	2.50		94	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.40		"	2.50		96	60-125			
<i>Surrogate: Toluene-d8</i>	2.31		"	2.50		92	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.39		"	2.50		96	60-135			

Matrix Spike Dup (7G20017-MSD1)	Source: MQG0507-01			Prepared & Analyzed: 07/20/07						
tert-Amyl methyl ether	9.08	0.50	ug/l	10.0	ND	91	65-135	5	25	
Benzene	9.89	0.50	"	10.0	ND	99	75-120	3	20	
tert-Butyl alcohol	204	20	"	200	ND	102	60-135	3	25	
Di-isopropyl ether	10.5	0.50	"	10.0	ND	105	70-130	0	25	
1,2-Dibromoethane (EDB)	9.67	0.50	"	10.0	ND	97	80-135	1	30	
1,2-Dichloroethane	9.60	0.50	"	10.0	ND	96	70-125	8	25	
Ethanol	161	300	"	200	ND	81	15-150	1	25	
Ethyl tert-butyl ether	10.1	0.50	"	10.0	ND	101	65-130	0.3	25	
Ethylbenzene	10.1	0.50	"	10.0	ND	101	75-120	1	20	
Methyl tert-butyl ether	9.68	0.50	"	10.0	ND	97	50-140	6	25	
Toluene	10.0	0.50	"	10.0	ND	100	75-120	4	25	
Xylenes (total)	30.9	0.50	"	30.0	ND	103	75-130	6	20	
<i>Surrogate: Dibromofluoromethane</i>	2.42		"	2.50		97	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.35		"	2.50		94	60-125			
<i>Surrogate: Toluene-d8</i>	2.45		"	2.50		98	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.47		"	2.50		99	60-135			

TestAmerica - Morgan Hill, CA

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Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage #11102, Oakland, CA Project Number: G07T9-0032 Project Manager: Jay Johnson	MQG0436 Reported: 07/25/07 15:26
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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G25021 - General Preparation / SM 4500-S2-

Blank (7G25021-BLK1)

Prepared & Analyzed: 07/25/07

Hydrogen Sulfide (H2S)	ND	1000	ug/l							
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Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage #11102, Oakland, CA Project Number: G07T9-0032 Project Manager: Jay Johnson	MQG0436 Reported: 07/25/07 15:26
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Ferrous Iron by Hach method 8146/1;10 Phenanthroline Method - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G16007 - General Preparation / Hach Co. 8146

Blank (7G16007-BLK1)				Prepared & Analyzed: 07/11/07						
Ferrous Iron	ND	100	ug/l							
Laboratory Control Sample (7G16007-BS1)				Prepared & Analyzed: 07/11/07						
Ferrous Iron	384	100	ug/l	400	ND	96	75-130			
Matrix Spike (7G16007-MS1)				Prepared & Analyzed: 07/11/07						
Ferrous Iron	418	100	ug/l	400	ND	104	75-130			
Matrix Spike Dup (7G16007-MSD1)				Prepared & Analyzed: 07/11/07						
Ferrous Iron	404	100	ug/l	400	ND	101	75-130	3	15	

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage #11102, Oakland, CA Project Number: G07T9-0032 Project Manager: Jay Johnson	MQG0436 Reported: 07/25/07 15:26
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Anions by EPA Method 300.0 - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G16017 - General Preparation / EPA 300.0

Blank (7G16017-BLK1)				Prepared & Analyzed: 07/13/07						
Nitrate as NO3	ND	500	ug/l							
Laboratory Control Sample (7G16017-BS1)				Prepared & Analyzed: 07/13/07						
Nitrate as NO3	10500	500	ug/l	10000		105	90-110			
Matrix Spike (7G16017-MS1)				Source: MQG0438-17 Prepared & Analyzed: 07/13/07						
Nitrate as NO3	13900	500	ug/l	10000	2250	116	80-120			
Matrix Spike Dup (7G16017-MSD1)				Source: MQG0438-17 Prepared & Analyzed: 07/13/07						
Nitrate as NO3	14100	500	ug/l	10000	2250	119	80-120	2	20	

Batch 7G19021 - General Preparation / EPA 300.0

Blank (7G19021-BLK1)				Prepared & Analyzed: 07/18/07						
Sulfate as SO4	ND	500	ug/l							
Laboratory Control Sample (7G19021-BS1)				Prepared & Analyzed: 07/18/07						
Sulfate as SO4	10600	500	ug/l	10000		106	90-110			
Matrix Spike (7G19021-MS1)				Source: MQG0556-06 Prepared & Analyzed: 07/18/07						
Sulfate as SO4	17100	500	ug/l	10000	6680	104	80-120			
Matrix Spike Dup (7G19021-MSD1)				Source: MQG0556-06 Prepared & Analyzed: 07/18/07						
Sulfate as SO4	17000	500	ug/l	10000	6680	103	80-120	0.6	20	

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

Project: BP Heritage #11102, Oakland, CA
Project Number: G07T9-0032
Project Manager: Jay Johnson

MQG0436
Reported:
07/25/07 15:26

Notes and Definitions

SG A silica gel cleanup procedure was performed.

PV Hydrocarbon result partly due to individ. peak(s) in quant. range

PT Hydrocarb. in req. fuel range, but doesn't resemble req. fuel

IJ Calibrtn. verif. recov. above method CL for this analyte

BU Sample analyzed after holding time expired

BA Relative percent difference out of control

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



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: <u>8:00</u>	Temp: <u>60</u>
Off-site Time: <u>10:30</u>	Temp: <u>65</u>
Sky Conditions: <u>Overcast</u>	
Meteorological Events: <u>None</u>	
Wind Speed: <u>5 N</u>	Direction: _____

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

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative				Requested Analysis								Sample Point Lat/Long and Comments			
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO/BTEX/Oxy*	1,2-DCA	Ethanol	EDB	DRO	Ferrous Fe	NO ₃		SO ₄	H ₂ S	
1	MW-1	9:25	7-10-07	X			M060436	6	3					X	X	X	X	X	X	X	X	X		
2	MW-2	9:50	/				02	6	3					X	X	X	X	X	X	X	X	X		
3	MW-3	10:20	/				03	6	3					X	X	X	X	X	X	X	X	X		
4	TB 11102 - 07102007	5:00	/				04	2						X	X	X	X	X	X	X	X	X		HOLD
5																								
6																								
7																								
8																								
9																								
10																								

Sampler's Name: <u>Jerry Gonzalez</u>	Relinquished By / Affiliation		Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>Doulos ENV</u>	<u>Jerry Gonzalez (STL-SF)</u>		<u>7-10-07</u>	<u>16:30</u>	<u>Jay Johnson (STL-SF)</u>	<u>7/10/07</u>	<u>16:30</u>
Shipment Date:	<u>Jay Johnson</u>		<u>7/10/07</u>	<u>16:30</u>	<u>Jay Johnson</u>	<u>7/10/07</u>	<u>18:10</u>
Shipment Method:	<u>Truck</u>		<u>7/10</u>	<u>19:50</u>	<u>Jay Johnson</u>	<u>7/10/07</u>	<u>19:50</u>
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: 3.8 °F/C Trip Blank: Yes / No MS/MSD Sample Submitted: Yes / No

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO (11102)
 REC. BY (PRINT) JULIE
 WORKORDER: MO66436

DATE REC'D AT LAB: 7/10/07
 TIME REC'D AT LAB: 1950
 DATE LOGGED IN: 7/14/07

For Regulatory Purposes?
 DRINKING WATER YES / NO
 WASTE WATER YES / NO

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*	01	MW-1	2(L) P	-	-	W	7/10/07	
2. Chain-of-Custody	Present / Absent*	↓	↓	1(L) A	-	↓	↓	↓	
3. Traffic Reports or Packing List:	Present / Absent	02	MW-2	3 VOAs	HU	↓	↓	↓	
4. Airbill:	Airbill / Sticker Present / Absent	03	MW-3	S	A	M	E		
5. Airbill #:		04	TB 11102 - 07102007	2 VOAs	HU	-	W	7/10/07	
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: <u>3.8°C</u> Corrected Temp: <u>↓</u> Is corrected temp 4 +/-2°C? <u>Yes</u> / No**									

Julie 7/11/07

(Acceptance range for samples requiring thermal pres.)
 **Exception (if any): METALS / DFF ON ICE
 or Problem COC

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

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATION

Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

UPLOADING A GEO_WELL FILE

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

Submittal Title:	3Q07 GEO_WELL 11102
Facility Global ID:	T0600100908
Facility Name:	BP #11102
Submittal Date/Time:	10/25/2007 10:37:12 AM
Confirmation Number:	6652296304

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Logged in as BROADBENT-C
(CONTRACTOR)

CONTACT SITE [ADMINISTRATOR](#).

Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Your EDF file has been successfully uploaded!

Confirmation Number: 6050187587
Date/Time of Submittal: 10/25/2007 8:54:24 AM
Facility Global ID: T0600100908
Facility Name: BP #11102
Submittal Title: 3Q07 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)

<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
6050187587	3Q07 GW Monitoring	Q3 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	10/25/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH,A4500SH,E300.0,E300A,H8146,SW8015B
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	N
- MATRIX SPIKE DUPLICATE	N
- BLANK SPIKE	Y
- SURROGATE SPIKE - NON-STANDARD SURROGATE USED	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%	Y
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

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0