Atlantic Richfield Company
(a BP affiliated company)

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

October 28, 2008

Re: Third Quarter, 2008 Semi-Annual Ground-Water Monitoring Report
Former BP Service Station # 11107
18501 Hesperian Boulevard
San Lorenzo, California
ACEH Case RO0000489

"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, 2008 Semi-Annual
Ground-Water Monitoring Report
Former BP Station #11107
18501 Hesperian Boulevard
San Lorenzo, 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

October 2008

Project No. 06-02-645

Broadbent & Associates, Inc.
1324 Mangrove Ave., Suite 212
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BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

October 28, 2008

Project No. 06-02-645

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

Attn.: Mr. Paul Supple

Re: Third Quarter, 2008 Semi-Annual Ground-Water Monitoring Report, Former BP Station #11107, 18501 Hesperian Boulevard, San Lorenzo, California. ACEH Case No. RO0000489.

Dear Mr. Supple:

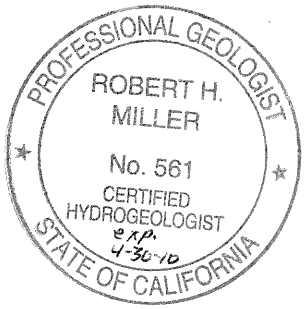
Attached is the *Third Quarter, 2008 Semi-Annual Ground-Water Monitoring Report* for the Former BP Station #11107 (herein referred to as Station #11107) located at 18501 Hesperian Boulevard, San Lorenzo, California (Property). This report presents a summary of Third Quarter, 2008 ground-water monitoring results

Should you have questions please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

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



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

Enclosures

cc: Mr. Paresh Khatri, Alameda County Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA, 94502 (Submitted via ACEH ftp Site)
Ms. Shelby Lathrop, ConocoPhillips, 76 Broadway, Sacramento, CA 95818
Mr. Abdul Noor Mayar, 18501 Hesperian Blvd, San Lorenzo, CA 94580
GeoTracker

STATION #11107 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Facility: #11107 Address:	18501 Hesperian Boulevard, San Lorenzo, California
Station #11107 Environmental Business Manager:	Mr. Paul Supple
Consulting Co./Contact Persons:	Broadbent & Associates (BAI) / Rob Miller & Matt Herrick
Primary Agency/Regulatory ID No.:	Alameda County Environmental Health (ACEH)/ACEH Case No. RO0000489
Consultant Project No.:	06-02-645
Facility Permits/Permitting Agency.:	NA

WORK PERFORMED THIS QUARTER (Third Quarter, 2008):

1. Submitted Second Quarter, 2008 Status Report. Work performed by BAI.
2. Conducted ground-water monitoring/sampling for Third Quarter, 2008. Work performed by Stratus Environmental, Inc.

WORK PROPOSED FOR NEXT QUARTER (Fourth Quarter, 2008):

1. Submit Third Quarter, 2008 Semi-Annual Ground-Water Monitoring Report (contained herein).
2. No environmental field work is scheduled to be completed on the Property during the Fourth Quarter, 2008.

QUARTERLY RESULTS SUMMARY:

Current phase of project:	**Monitoring/sampling**
Frequency of ground-water sampling:	**MW-4, MW-5, and MW-6 = Semi-Annual (1Q and 3Q)**
Frequency of ground-water monitoring:	**MW-1 through MW-7 = Semi-annual (1Q and 3Q)**
Is free product (FP) present on-site:	**No**
Current remediation techniques:	**NA**
Depth to ground water (below TOC):	**16.22 (MW-6) to 18.03 (MW-1)**
General ground-water flow direction:	**West-Northwest**
Approximate hydraulic gradient:	**0.004**

DISCUSSION:

During Third Quarter, 2008 monitor wells MW-4, MW-5, and MW-6 were below laboratory detection limits for gasoline range organics (GRO), benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and fuel additives Methyl-tert-butyl ether (MTBE), ethanol, Tert-butyl alcohol (TBA), Di-isopropyl ether (DIPE), Ethyl-tert-butyl ether (ETBE), Tert-amyl-methyl ether (TAME), 1,2-Dicholorethane (1,2-DCA), and 1,2-Dibromoethane (EDB).

Ground-water elevations for Third Quarter, 2008 were within historic minimum and maximum ranges for each well.

Drawing 1 depicts a ground-water elevation contour and an analytical summary map for the Third Quarter, 2008. Table 1 includes a summary of ground-water monitoring data including relative water elevations and laboratory analyses. Table 2 provides a summary of fuel additives analytical data. Table 3 lists historical ground-water flow direction and gradient data.

Case closure was requested on April 23, 2003 by Atlantic Richfield Company. A response from the ACWD regarding the closure request has not been received. Data collected during the Third

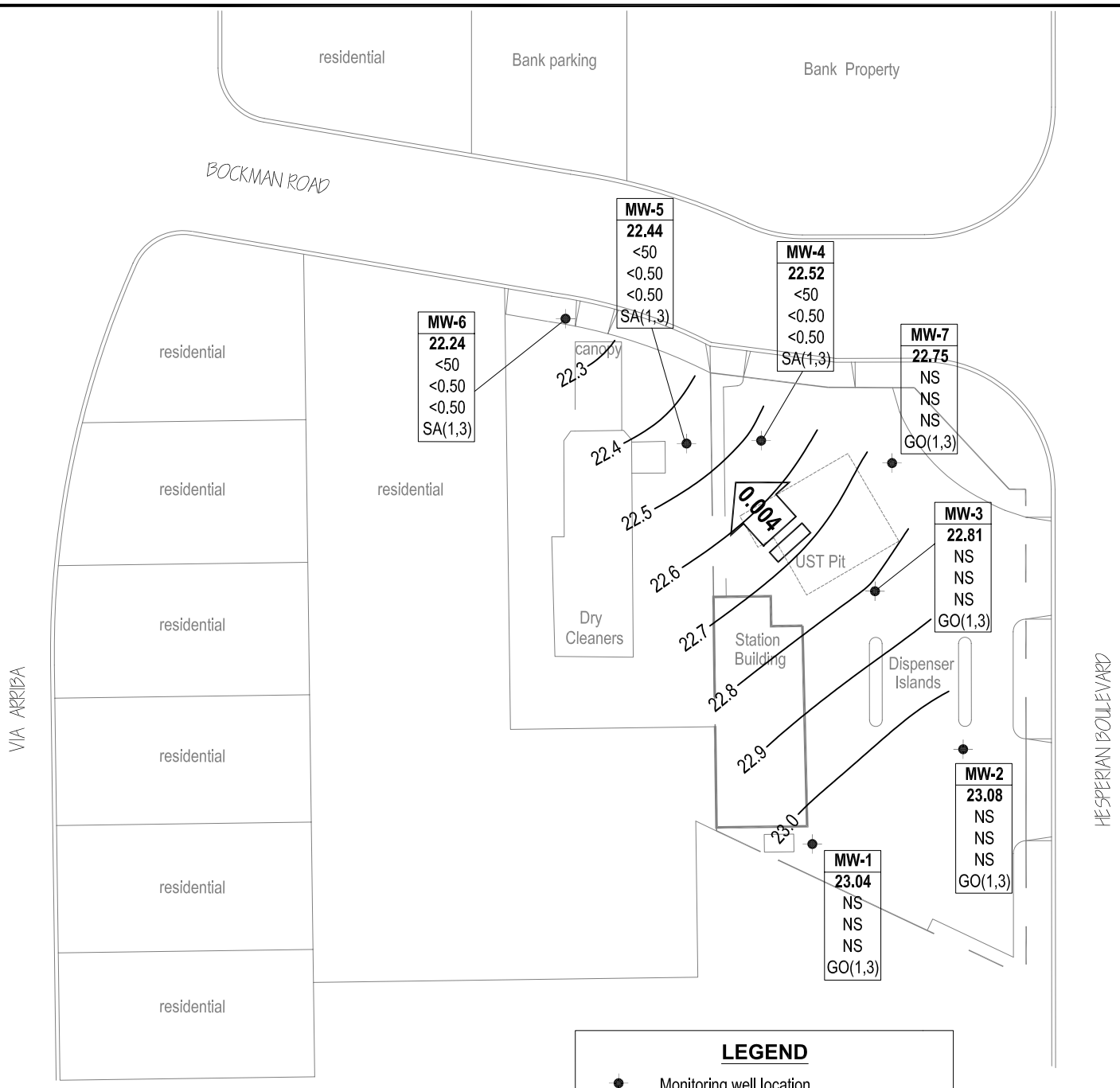
Quarter, 2008 continue to document ground-water concentrations below water quality objectives at the site. It is again requested that the ACEH consider case closure at Station #11107.

CLOSURE:

The findings presented in this report are based upon: observations of Stratus Environmental, Inc. field personnel and/or their subcontractor(s) (see Appendix A), the points investigated, and results of laboratory tests performed by Calscience Environmental Laboratories, Inc. (Garden Grove, CA). 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, Station #11107, San Lorenzo, CA
Table 1.	Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #11107, San Lorenzo, CA
Table 2.	Summary of Fuel Additives Analytical Data, Station #11107, San Lorenzo, CA
Table 3.	Historical Ground-Water Flow Direction and Gradient, Station #11107, San Lorenzo, CA
Appendix A.	Stratus Environmental, Inc. Ground-Water Sampling Data Package (Includes Field Data Sheets, Non-hazardous Waste Data Forms, Field Procedures for Ground-Water Sampling, and Laboratory Report and Chain of Custody Documentation)
Appendix B.	GeoTracker Upload Confirmation



LEGEND

- Monitoring well location
- WELL / ELEV — Well designation; Ground-water elevation
- GRO / Benzene / MTBE — GRO, Benzene and MTBE concentrations in micrograms per liter (µg/L)
- SA — Sampling frequency
- < — Not detected at or above laboratory reporting limits
- NS — Not sampled
- SA(1,3) — Sampled semi-annually in 1st & 3rd quarters
- GO(1,3) — Gauged only semi-annually in 1st & 3rd quarters
- 0.004 — Approximate ground-water flow direction and gradient (ft/ft)
- 23.0 — Ground-water elevation contour line (ft/MSL)

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

N

0 60 120

SCALE (ft)

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

Project No.: 06-02-645 Date: 9/25/08

Former BP Station #11107
18501 Hesperian Boulevard
San Lorenzo, California

Ground-Water Elevation Contour and Analytical Summary Map
July 17, 2008

Drawing
1

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, 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																		
11/4/1992	--	j	41.07	20.78	--	20.29	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	<50	<5000	--
11/4/1992	--	c, j	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
2/24/1994	--	j	41.07	20.70	--	20.37	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	<50	<5000	--
5/12/1994	--	j	41.07	18.12	--	22.95	<50	<0.5	<0.5	<0.5	<0.5	<5.0	7.0	PACE	--	<50	<5000	--
9/9/1994	--	j	41.07	21.74	--	19.33	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.3	PACE	--	<50	<5000	--
11/3/1994	--	j	41.07	20.01	--	21.06	<50	<0.5	<0.5	<0.5	<0.5	<5.0	4.3	PACE	--	50	<5000	--
3/1/1995	--		41.07	17.44	--	23.63	<50	<50	<0.50	<0.50	<1.0	--	2.3	ATI	--	<500	420	--
6/6/1995	--		41.07	17.55	--	23.52	--	--	--	--	--	--	--	--	--	--	--	--
9/1/1995	--		41.07	18.19	--	22.88	<50	<0.50	<0.50	<0.50	<1.0	<5.0	8.8	ATI	--	<50	60	--
11/29/1995	--		41.07	18.84	--	22.23	--	--	--	--	--	--	--	--	--	--	--	--
3/23/1996	--		41.07	16.97	--	24.10	<50	<0.5	<1.0	<1.0	<1.0	<10	9.6	SPL	--	--	--	--
9/5/1996	--		41.07	17.74	--	23.33	110	<0.5	<1.0	<1.0	<1.0	<10	3.6	SPL	--	--	--	--
3/11/1997	--		41.07	17.62	--	23.45	<50	<0.5	<1.0	<1.0	<1.0	<10	5.2	SPL	--	--	--	--
12/8/1997	--		41.07	16.30	--	24.77	<50	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--
7/8/1998	--		41.07	16.66	--	24.41	--	--	--	--	--	--	--	--	--	--	--	--
12/7/1998	--		41.07	17.80	--	23.27	--	--	--	--	--	--	--	--	--	--	--	--
1/19/1999	--		41.07	17.18	--	23.89	--	--	--	--	--	--	--	--	--	--	--	--
4/23/1999	--		41.07	17.40	--	23.67	--	--	--	--	--	--	--	--	--	--	--	--
7/20/1999	--		41.07	17.76	--	23.31	--	--	--	--	--	--	--	--	--	--	--	--
2/29/2000	--		41.07	17.17	--	23.90	--	--	--	--	--	--	--	--	--	--	--	--
4/14/2000	--		41.07	17.22	--	23.85	--	--	--	--	--	--	--	--	--	--	--	--
7/24/2000	--		41.07	17.61	--	23.46	--	--	--	--	--	--	--	--	--	--	--	--
10/30/2000	--		41.07	17.76	--	23.31	--	--	--	--	--	--	--	--	--	--	--	--
1/11/2001	--		41.07	17.88	--	23.19	--	--	--	--	--	--	--	--	--	--	--	--
5/17/2001	--		41.07	17.82	--	23.25	--	--	--	--	--	--	--	--	--	--	--	--
7/2/2001	--		41.07	17.95	--	23.12	--	--	--	--	--	--	--	--	--	--	--	--
11/2/2001	--		41.07	18.25	--	22.82	--	--	--	--	--	--	--	--	--	--	--	--
8/6/2002	--		41.07	17.93	--	23.14	--	--	--	--	--	--	--	--	--	--	--	--
10/16/2002	--		41.07	18.32	--	22.75	--	--	--	--	--	--	--	--	--	--	--	--
1/13/2003	--		41.07	17.31	--	23.76	--	--	--	--	--	--	--	--	--	--	--	--
5/2/2003	--		41.07	17.55	--	23.52	--	--	--	--	--	--	--	--	--	--	--	--

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, 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.																		
7/11/2003	--		41.07	17.80	--	23.27	--	--	--	--	--	--	--	--	--	--	--	--
10/01/2003	--		41.07	17.68	--	23.39	--	--	--	--	--	--	--	--	--	--	--	--
02/11/2004	--		41.07	17.68	--	23.39	--	--	--	--	--	--	--	--	--	--	--	--
07/21/2004	--		41.07	18.06	--	23.01	--	--	--	--	--	--	--	--	--	--	--	--
01/20/2005	--		41.07	17.56	--	23.51	--	--	--	--	--	--	--	--	--	--	--	--
07/19/2005	--		41.07	18.00	--	23.07	--	--	--	--	--	--	--	--	--	--	--	--
01/11/2006	--		41.07	17.17	--	23.90	--	--	--	--	--	--	--	--	--	--	--	--
7/26/2006	--		41.07	17.79	--	23.28	--	--	--	--	--	--	--	--	--	--	--	--
1/11/2007	--		41.07	17.85	--	23.22	--	--	--	--	--	--	--	--	--	--	--	--
7/23/2007	--		41.07	18.10	--	22.97	--	--	--	--	--	--	--	--	--	--	--	--
1/16/2008	--		41.07	17.70	--	23.37	--	--	--	--	--	--	--	--	--	--	--	--
7/17/2008	--		**41.07**	**18.03**	--	**23.04**	--	--	--	--	--	--	--	--	--	--	--	--
MW-2																		
11/4/1992	--	j	40.56	20.16	--	20.40	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
2/24/1994	--	j	40.56	20.12	--	20.44	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	--	--	--
5/12/1994	--	j	40.56	17.49	--	23.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0	7.4	PACE	--	--	--	--
9/9/1994	--	j	40.56	21.12	--	19.44	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.1	PACE	--	--	--	--
11/3/1994	--	j	40.56	19.36	--	21.20	<50	<0.5	<0.5	<0.5	<0.5	<5.0	4.2	PACE	--	--	--	--
3/1/1995	--		40.56	16.83	--	23.73	<50	<0.50	<0.50	<0.50	<1.0	--	2.2	ATI	--	--	--	--
6/6/1995	--		40.56	16.96	--	23.60	--	--	--	--	--	--	--	--	--	--	--	--
9/1/1995	--		40.56	17.54	--	23.02	<50	<0.50	<0.50	<0.50	<1.0	<5.0	7.9	ATI	--	--	--	--
11/29/1995	--		40.56	18.19	--	22.37	--	--	--	--	--	--	--	--	--	--	--	--
3/23/1996	--		40.56	16.35	--	24.21	<50	<0.5	<1	<1	<1	<10	8.5	SPL	--	--	--	--
9/5/1996	--		40.56	17.55	--	23.01	<50	<0.5	<1.0	<1.0	<1.0	<10	3.2	SPL	--	--	--	--
3/11/1997	--		40.56	16.95	--	23.61	<50	<0.5	<1.0	<1.0	<1.0	<10	2.9	SPL	--	--	--	--
12/8/1997	--		40.56	16.01	--	24.55	<50	<0.5	<1.0	<1.0	<1.0	<10	3.0	SPL	--	--	--	--
7/8/1998	--		40.56	16.41	--	24.15	--	--	--	--	--	--	--	--	--	--	--	--
12/7/1998	--		40.56	17.15	--	23.41	--	--	--	--	--	--	--	--	--	--	--	--
1/19/1999	--		40.56	17.15	--	23.41	--	--	--	--	--	--	--	--	--	--	--	--
4/23/1999	--		40.56	16.89	--	23.67	--	--	--	--	--	--	--	--	--	--	--	--

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, 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.																		
7/20/1999	--		40.56	17.25	--	23.31	--	--	--	--	--	--	--	--	--	--	--	--
12/30/1999	--		40.56	17.44	--	23.12	--	--	--	--	--	--	--	--	--	--	--	--
2/29/2000	--		40.56	16.13	--	24.43	--	--	--	--	--	--	--	--	--	--	--	--
4/14/2000	--		40.56	16.88	--	23.68	--	--	--	--	--	--	--	--	--	--	--	--
7/24/2000	--		40.56	17.11	--	23.45	--	--	--	--	--	--	--	--	--	--	--	--
10/30/2000	--		40.56	17.12	--	23.44	--	--	--	--	--	--	--	--	--	--	--	--
1/11/2001	--		40.56	17.28	--	23.28	--	--	--	--	--	--	--	--	--	--	--	--
5/17/2001	--		40.56	17.20	--	23.36	--	--	--	--	--	--	--	--	--	--	--	--
7/2/2001	--		40.56	17.45	--	23.11	--	--	--	--	--	--	--	--	--	--	--	--
11/2/2001	--		40.56	17.62	--	22.94	--	--	--	--	--	--	--	--	--	--	--	--
8/6/2002	--		40.56	17.42	--	23.14	--	--	--	--	--	--	--	--	--	--	--	--
10/16/2002	--		40.56	17.74	--	22.82	--	--	--	--	--	--	--	--	--	--	--	--
1/13/2003	--		40.56	16.74	--	23.82	--	--	--	--	--	--	--	--	--	--	--	--
5/2/2003	--		40.56	17.00	--	23.56	--	--	--	--	--	--	--	--	--	--	--	--
7/11/2003	--		40.56	17.29	--	23.27	--	--	--	--	--	--	--	--	--	--	--	--
10/01/2003	--		40.56	17.59	--	22.97	--	--	--	--	--	--	--	--	--	--	--	--
02/11/2004	--		40.56	17.27	--	23.29	--	--	--	--	--	--	--	--	--	--	--	--
07/21/2004	--		40.56	17.42	--	23.14	--	--	--	--	--	--	--	--	--	--	--	--
01/20/2005	--		40.56	16.77	--	23.79	--	--	--	--	--	--	--	--	--	--	--	--
07/19/2005	--		40.56	17.17	--	23.39	--	--	--	--	--	--	--	--	--	--	--	--
01/11/2006	--		40.56	16.57	--	23.99	--	--	--	--	--	--	--	--	--	--	--	--
7/26/2006	--		40.56	17.07	--	23.49	--	--	--	--	--	--	--	--	--	--	--	--
1/11/2007	--		40.56	17.27	--	23.29	--	--	--	--	--	--	--	--	--	--	--	--
7/23/2007	--		40.56	17.45	--	23.11	--	--	--	--	--	--	--	--	--	--	--	--
1/16/2008	--		40.56	17.02	--	23.54	--	--	--	--	--	--	--	--	--	--	--	--
7/17/2008	--		**40.56**	**17.48**	--	**23.08**	--	--	--	--	--	--	--	--	--	--	--	--
MW-3																		
11/4/1992	--	j	40.45	20.23	--	20.22	760	3.7	15	1.9	57	--	--	PACE	--	--	--	--
2/24/1994	--	j	40.45	20.24	--	20.21	<50	<0.5	<0.5	<0.5	<0.5	30.66	--	PACE	--	--	--	--
5/12/1994	--	j	40.45	17.61	--	22.84	<50	<0.5	<0.5	<0.5	<0.5	7.11	7.3	PACE	--	--	--	--

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, 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.																		
9/9/1994	--	j	40.45	21.22	--	19.23	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.0	PACE	--	--	--	--
11/3/1994	--	j	40.45	19.48	--	20.97	<50	<0.5	<0.5	<0.5	<0.5	10.98	3.6	PACE	--	--	--	--
3/1/1995	--		40.45	17.08	--	23.37	<50	<0.50	<0.50	<0.50	<1.0	--	1.9	ATI	--	--	--	--
6/6/1995	--		40.45	17.21	--	23.24	--	--	--	--	--	--	--	--	--	--	--	--
9/1/1995	--		40.45	17.69	--	22.76	200	2.7	33	7.2	43	<5.0	7.8	ATI	--	--	--	--
9/1/1995	--		40.45	18.29	--	22.16	--	--	--	--	--	--	--	--	--	--	--	--
3/23/1996	--		40.45	16.59	--	23.86	<50	<0.5	<1	<1	<1	<10	7.3	SPL	--	--	--	--
9/5/1996	--		40.45	17.71	--	22.74	<50	<0.5	<1.0	<1.0	<1.0	<10	3.2	SPL	--	--	--	--
3/11/1997	--		40.45	17.17	--	23.28	<50	<0.5	<1.0	<1.0	<1.0	<10	1.5	SPL	--	--	--	--
12/8/1997	--		40.45	16.12	--	24.33	<50	<0.5	<1.0	<1.0	<1.0	<10	1.9	SPL	--	--	--	--
7/8/1998	--		40.45	16.40	--	24.05	--	--	--	--	--	--	--	--	--	--	--	--
12/7/1998	--		40.45	17.32	--	23.13	--	--	--	--	--	--	--	--	--	--	--	--
1/19/1999	--		40.45	17.30	--	23.15	--	--	--	--	--	--	--	--	--	--	--	--
4/23/1999	--		40.45	17.07	--	23.38	--	--	--	--	--	--	--	--	--	--	--	--
7/20/1999	--		40.45	17.47	--	22.98	--	--	--	--	--	--	--	--	--	--	--	--
12/30/1999	--		40.45	17.60	--	22.85	--	--	--	--	--	--	--	--	--	--	--	--
2/29/2000	--		40.45	16.43	--	24.02	--	--	--	--	--	--	--	--	--	--	--	--
4/14/2000	--		40.45	17.09	--	23.36	--	--	--	--	--	--	--	--	--	--	--	--
7/24/2000	--		40.45	17.44	--	23.01	--	--	--	--	--	--	--	--	--	--	--	--
10/30/2000	--		40.45	17.29	--	23.16	--	--	--	--	--	--	--	--	--	--	--	--
1/11/2001	--		40.45	17.49	--	22.96	--	--	--	--	--	--	--	--	--	--	--	--
5/17/2001	--		40.45	17.45	--	23.00	--	--	--	--	--	--	--	--	--	--	--	--
7/2/2001	--		40.45	17.70	--	22.75	--	--	--	--	--	--	--	--	--	--	--	--
11/2/2001	--		40.45	17.82	--	22.63	--	--	--	--	--	--	--	--	--	--	--	--
8/6/2002	--		40.45	17.62	--	22.83	--	--	--	--	--	--	--	--	--	--	--	--
10/16/2002	--		40.45	17.82	--	22.63	--	--	--	--	--	--	--	--	--	--	--	--
1/13/2003	--		40.45	16.95	--	23.50	--	--	--	--	--	--	--	--	--	--	--	--
5/2/2003	--		40.45	17.26	--	23.19	--	--	--	--	--	--	--	--	--	--	--	--
7/11/2003	--		40.45	17.44	--	23.01	--	--	--	--	--	--	--	--	--	--	--	--
10/01/2003	--		40.45	17.72	--	22.73	--	--	--	--	--	--	--	--	--	--	--	--
02/11/2004	--		40.45	17.41	--	23.04	--	--	--	--	--	--	--	--	--	--	--	--

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, 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.																		
07/21/2004	--		40.45	17.60	--	22.85	--	--	--	--	--	--	--	--	--	--	--	--
01/20/2005	--		40.45	16.98	--	23.47	--	--	--	--	--	--	--	--	--	--	--	--
07/19/2005	--		40.45	17.38	--	23.07	--	--	--	--	--	--	--	--	--	--	--	--
01/11/2006	--		40.45	16.80	--	23.65	--	--	--	--	--	--	--	--	--	--	--	--
7/26/2006	--		40.45	17.48	--	22.97	--	--	--	--	--	--	--	--	--	--	--	--
1/11/2007	--		40.45	17.45	--	23.00	--	--	--	--	--	--	--	--	--	--	--	--
7/23/2007	--		40.45	17.63	--	22.82	--	--	--	--	--	--	--	--	--	--	--	--
1/16/2008	--		40.45	17.21	--	23.24	--	--	--	--	--	--	--	--	--	--	--	--
7/17/2008	--		**40.45**	**17.64**	--	**22.81**	--	--	--	--	--	--	--	--	--	--	--	--
MW-4																		
11/4/1992	--	(j)	39.24	19.18	--	20.06	900	150	4.1	0.8	53	--	--	PACE	--	--	--	--
2/24/1994	--	c, d, j	--	--	--	--	310	95	5.3	2.2	17	1,479	--	PACE	--	--	--	--
2/24/1994	--	d, j	39.24	19.22	--	20.02	240	110	3.8	1.8	11	1,433	--	PACE	--	--	--	--
5/12/1994	--	c, d, j	--	--	--	--	430	2.6	1.3	<0.5	<0.5	912	--	PACE	--	--	--	--
5/12/1994	--	d, j	39.24	16.62	--	22.62	<50	2.2	1	<0.5	<0.5	862	7.3	PACE	--	--	--	--
9/9/1994	--	c, j	--	--	--	--	57	1.7	<0.5	<0.5	0.5	83	--	PACE	--	--	--	--
9/9/1994	--	j	39.24	20.27	--	18.97	240	9.1	1.3	0.6	2.5	397	2.2	PACE	--	--	--	--
11/3/1994	--	c, j	--	--	--	--	110	2.4	<0.5	<0.5	<0.5	642	--	PACE	--	--	--	--
11/3/1994	--	j	39.24	18.46	--	20.78	250	3.1	2.8	1	3.3	319	3.2	PACE	--	--	--	--
3/1/1995	--	c	--	--	--	--	7,600	1,700	25	410	370	--	--	ATI	--	--	--	--
3/1/1995	--		39.24	16.15	--	23.09	8,900	1,800	26	450	400	--	2.0	ATI	--	--	--	--
6/6/1995	--	c	--	--	--	--	3,000	530	27	170	92	--	--	ATI	--	--	--	--
6/6/1995	--	e	39.24	16.28	--	22.96	3,100	530	25	170	85	--	--	ATI	--	--	--	--
9/1/1995	--	f	39.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/29/1995	--		39.24	17.31	--	21.93	<50	1.8	<0.50	<0.50	<1.0	440	3.2	ATI	--	--	--	--
11/29/1995	--	c	--	--	--	--	<50	1.5	<0.50	<0.50	<1.0	490	--	ATI	--	--	--	--
3/23/1996	--		39.24	15.74	--	23.50	2,700	480	<25	180	176	13,000	7.8	SPL	--	--	--	--
9/5/1996	--		39.24	16.75	--	22.49	1,100	<12	<25	<25	<25	3,200	4.0	SPL	--	--	--	--
3/11/1997	--		39.24	16.10	--	23.14	2,400	46	<10	66	106	3,400	4.0	SPL	--	--	--	--
12/8/1997	--	c	--	--	--	--	620	11	<1.0	<1.0	<1.0	1,100	--	SPL	--	--	--	--

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, 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-4 Cont.																		
12/8/1997	--		39.24	15.96	--	23.28	590	11	<1.0	<1.0	<1.0	1,200	4.4	SPL	--	--	--	--
7/8/1998	--	c	--	--	--	--	1,600	<0.5	<1.0	<1.0	<1.0	1,100	--	SPL	--	--	--	--
7/8/1998	--		39.24	16.28	--	22.96	1,700	<0.5	<1.0	<1.0	<1.0	1,200	3.9	SPL	--	--	--	--
12/7/1998	--	h	39.24	16.47	--	22.77	530	<2.5	<5.0	<5.0	<5.0	680/910	--	SPL	--	--	--	--
1/19/1999	--		39.24	16.40	--	22.84	570	<1.0	<1.0	<1.0	<1.0	660	--	SPL	--	--	--	--
4/23/1999	--	h	39.24	16.17	--	23.07	<50	<1.0	<1.0	1.8	1.3	1100/810	--	SPL	--	--	--	--
7/20/1999	--		39.24	16.39	--	22.85	<50	<1.0	<1.0	<1.0	<1.0	590/480	--	SPL	--	--	--	--
12/30/1999	--		39.24	16.56	--	22.68	<50	<0.5	<0.5	<0.5	<0.5	280/410	--	PACE	--	--	--	--
2/29/2000	--	i	39.24	15.69	--	23.55	78	2	<0.5	0.77	2.8	870/1200	--	PACE	--	--	--	--
4/14/2000	--		39.24	16.21	--	23.03	300	<0.5	<0.5	<0.5	<0.5	800	--	PACE	--	--	--	--
7/24/2000	--		39.24	16.50	--	22.74	130	<0.5	<0.5	<0.5	<0.5	390/270	--	PACE	--	--	--	--
10/30/2000	--		39.24	16.35	--	22.89	73	<0.5	<0.5	<0.5	<0.5	160/210	--	PACE	--	--	--	--
1/11/2001	--		39.24	16.46	--	22.78	120	<0.5	<0.5	<0.5	<0.5	170/176	--	PACE	--	--	--	--
5/17/2001	--		39.24	16.40	--	22.84	99	<0.5	<0.5	<0.5	<1.5	91/119	--	PACE	--	--	--	--
7/2/2001	--		39.24	16.75	--	22.49	63	<0.5	<0.5	<0.5	<1.5	66/87.6	--	PACE	--	--	--	--
11/2/2001	--		39.24	16.80	--	22.44	56	<0.5	<0.5	<0.5	<1.5	49.6	--	PACE	--	--	--	--
8/6/2002	--		39.24	16.60	--	22.64	<50	<0.5	<0.5	<0.5	<1.5	14.4	--	PACE	--	--	--	--
10/16/2002	--		39.24	16.86	--	22.38	<50	<0.50	<0.50	<0.50	<0.50	16	--	SEQ	--	--	--	--
1/13/2003	--		39.24	16.13	--	23.11	<50	<0.50	<0.50	<0.50	<0.50	21	--	SEQ	--	--	--	--
5/2/2003	--		39.24	16.38	--	22.86	<50	<0.50	<0.50	<0.50	<0.50	7.2	--	SEQ	--	--	--	--
7/11/2003	--		39.24	16.50	--	22.74	<50	<0.50	<0.50	<0.50	<0.50	2.0/2.0	--	SEQ	--	--	--	--
10/01/2003	--		39.24	16.75	--	22.49	<50	<0.50	<0.50	<0.50	<0.50	3.1	--	SEQM	--	--	--	--
02/11/2004	P		39.24	16.35	--	22.89	<50	<0.50	<0.50	<0.50	<0.50	3.3	--	SEQM	6.9	--	--	--
07/21/2004	P		39.24	16.68	--	22.56	<50	<0.50	<0.50	<0.50	<0.50	0.61	--	SEQM	6.9	--	--	--
01/20/2005	P		39.24	16.08	--	23.16	<50	<0.50	<0.50	<0.50	<0.50	1.4	--	SEQM	6.5	--	--	--
07/19/2005	P		39.24	16.50	--	22.74	<50	<0.50	<0.50	<0.50	<0.50	0.57	--	SEQM	7.4	--	--	--
01/11/2006	P		39.24	15.98	--	23.26	<50	<0.50	<0.50	<0.50	<0.50	0.58	--	SEQM	6.9	--	--	--
7/26/2006	P		39.24	16.46	--	22.78	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	TAMC	6.93	--	--	--
1/11/2007	P		39.24	16.54	--	22.70	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.43	TAMC	6.99	--	--	--
7/23/2007	P		39.24	16.68	--	22.56	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.27	TAMC	7.20	--	--	--
1/16/2008	P		39.24	16.32	--	22.92	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.38	TAMC	7.18	--	--	--

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, 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-4 Cont.																		
7/17/2008	**P**		**39.24**	**16.72**	**--**	**22.52**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**1.47**	**CEL**	**7.54**	**--**	**--**	**--**
MW-5																		
6/6/1995	--	(e)	39.07	16.16	--	22.91	1,100	42	<2.5	15	4	--	--	ATI	--	--	--	--
9/1/1995	--	c	--	--	--	--	1,200	64	<2.5	14	3.1	--	--	ATI	--	--	--	--
9/1/1995	--		39.07	16.63	--	22.44	1,600	55	<2.5	15	8	1,200	7.4	ATI	--	--	--	--
11/29/1995	--		39.07	17.19	--	21.88	2,300	140	4	36	11	1,500	4.1	ATI	--	--	--	--
3/23/1996	--		39.07	15.54	--	23.53	90	2.8	<1	<1	<1	1,500	7.5	SPL	--	--	--	--
9/5/1996	--	c	--	--	--	--	2,000	4.9	<1.0	<1.0	<1.0	2,900	--	SPL	--	--	--	--
9/5/1996	--		39.07	16.72	--	22.35	2,300	5.1	<1.0	<1.0	<1.0	3,300	3.2	SPL	--	--	--	--
3/11/1997	--		39.07	16.12	--	22.95	470	<5.0	<5.0	<5.0	<5.0	580	3.0	SPL	--	--	--	--
3/11/1997	--	c	--	--	--	--	460	<5.0	<5.0	<5.0	<5.0	540	--	SPL	--	--	--	--
12/8/1997	--		39.07	15.85	--	23.22	370	<0.5	<1.0	<1.0	<1.0	840	3.0	SPL	--	--	--	--
7/8/1998	--		39.07	16.11	--	22.96	430	<0.5	<1.0	<1.0	<1.0	330	2.5	SPL	--	--	--	--
12/7/1998	--	h	39.07	16.27	--	22.80	220	<0.5	<1.0	<1.0	<1.0	290/410	--	SPL	--	--	--	--
1/19/1999	--	h	39.07	16.31	--	22.76	490	<1.0	<1.0	<1.0	<1.0	490/440	--	SPL	--	--	--	--
4/23/1999	--	h	39.07	16.00	--	23.07	<50	<1.0	<1.0	<1.0	<1.0	310/210	--	SPL	--	--	--	--
7/20/1999	--		39.07	16.36	--	22.71	<50	<1.0	<1.0	<1.0	<1.0	490/470	--	SPL	--	--	--	--
12/30/1999	--		39.07	16.53	--	22.54	<50	<0.5	<0.5	<0.5	<0.5	470/550	--	PACE	--	--	--	--
2/29/2000	--		39.07	15.45	--	23.62	<50	<0.5	<0.5	<0.5	<0.5	190/280	--	PACE	--	--	--	--
4/14/2000	--		39.07	16.10	--	22.97	81	<0.5	<0.5	<0.5	<0.5	200/240	--	PACE	--	--	--	--
7/24/2000	--		39.07	16.50	--	22.57	250	<0.5	<0.5	<0.5	<0.5	630/570	--	PACE	--	--	--	--
10/30/2000	--		39.07	16.23	--	22.84	140	<0.5	0.7	<0.5	1.1	260/360	--	PACE	--	--	--	--
1/11/2001	--		39.07	16.41	--	22.66	420	<0.5	<0.5	<0.5	<0.5	540/585	--	PACE	--	--	--	--
5/17/2001	--		39.07	16.45	--	22.62	360	<0.5	<0.5	<0.5	<1.5	320/419	--	PACE	--	--	--	--
7/2/2001	--		39.07	16.65	--	22.42	210	<0.5	<0.5	<0.5	<1.5	290/264	--	PACE	--	--	--	--
11/2/2001	--		39.07	16.73	--	22.34	130	<0.5	<0.5	<0.5	<1.5	134	--	PACE	--	--	--	--
8/6/2002	--		39.07	16.57	--	22.50	<50	<0.5	<0.5	<0.5	<1.5	57.6	--	PACE	--	--	--	--
10/16/2002	--		39.07	16.73	--	22.34	<50	<0.50	<0.50	<0.50	<0.50	52	--	SEQ	--	--	--	--
1/13/2003	--		39.07	16.01	--	23.06	58	1.2	<0.50	<0.50	1.4	30	--	SEQ	--	--	--	--
5/2/2003	--		39.07	16.27	--	22.80	<50	<0.50	<0.50	<0.50	<0.50	17	--	SEQ	--	--	--	--

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Station #11107, 18501 Hesperian Blvd., San Lorenzo, 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-5 Cont.																		
7/11/2003	--		39.07	16.42	--	22.65	58	<0.50	<0.50	<0.50	<0.50	19/19	--	SEQ	--	--	--	--
10/01/2003	--		39.07	16.65	--	22.42	71	<0.50	<0.50	<0.50	<0.50	17	--	SEQM	--	--	--	--
02/11/2004	P	m	39.22	16.39	--	22.83	130	<0.50	<0.50	<0.50	<0.50	35	--	SEQM	6.8	--	--	--
07/21/2004	NP		39.22	16.73	--	22.49	<50	<0.50	<0.50	<0.50	<0.50	8.3	--	SEQM	6.9	--	--	--
01/20/2005	P		39.22	16.13	--	23.09	<50	<0.50	<0.50	<0.50	<0.50	2.3	--	SEQM	6.5	--	--	--
07/19/2005	P		39.22	16.69	--	22.53	<50	<0.50	<0.50	<0.50	<0.50	0.76	--	SEQM	7.2	--	--	--
01/11/2006	P		39.22	16.21	--	23.01	<50	<0.50	<0.50	<0.50	<0.50	0.61	--	SEQM	6.9	--	--	--
7/26/2006	P		39.22	16.57	--	22.65	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	TAMC	6.81	--	--	--
1/11/2007	P		39.22	16.60	--	22.62	<50	<0.50	<0.50	<0.50	<0.50	0.62	2.08	TAMC	6.80	--	--	--
7/23/2007	P		39.22	16.75	--	22.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.43	TAMC	7.17	--	--	--
1/16/2008	P		39.22	16.31	--	22.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.91	TAMC	7.11	--	--	--
7/17/2008	**P**		**39.22**	**16.78**	**--**	**22.44**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**1.89**	**CEL**	**7.42**	**--**	**--**	**--**
MW-6																		
3/1/1995	--		38.46	15.66	--	22.80	270	11	<0.50	<0.50	<1.0	--	1.6	ATI	--	--	--	--
6/6/1995	--	e	38.46	15.82	--	22.64	220	2.3	<0.50	<0.50	<1.0	--	--	ATI	--	--	--	--
9/1/1995	--		38.46	16.25	--	22.21	780	<2.5	<2.5	<2.5	<5.0	2,800	7.5	ATI	--	--	--	--
11/29/1995	--		38.46	16.80	--	21.66	<50	<0.50	<0.50	<0.50	<1.0	1,100	3.9	ATI	--	--	--	--
3/23/1996	--		38.46	15.27	--	23.19	50	<0.5	<1	<1	<1	910	8.0	SPL	--	--	--	--
9/5/1996	--		38.46	16.30	--	22.16	4,400	<0.5	<1.0	<1.0	<1.0	7,400	3.0	SPL	--	--	--	--
3/11/1997	--		38.46	15.75	--	22.71	1,100	<5.0	<5.0	<5.0	<5.0	2,000	3.1	SPL	--	--	--	--
12/8/1997	--		38.46	15.51	--	22.95	150	<0.5	<1.0	<1.0	<1.0	140	3.4	SPL	--	--	--	--
7/8/1998	--		38.46	15.78	--	22.68	370	<0.5	<1.0	<1.0	<1.0	250	3.6	SPL	--	--	--	--
12/7/1998	--	h	38.46	15.95	--	22.51	440	<1.0	<1.0	<1.0	<1.0	630/820	--	--	--	--	--	--
1/19/1999	--	h	38.46	15.97	--	22.49	950	<1.0	<1.0	<1.0	<1.0	950/810	--	SPL	--	--	--	--
4/23/1999	--	h	38.46	15.74	--	22.72	<50	<1.0	<1.0	<1.0	<1.0	310/220	--	SPL	--	--	--	--
7/20/1999	--		38.46	16.12	--	22.34	<50	<1.0	<1.0	<1.0	<1.0	1400/1300	--	SPL	--	--	--	--
12/30/1999	--		38.46	16.16	--	22.30	<50	<0.5	<0.5	<0.5	<0.5	300/360	--	PACE	--	--	--	--
2/29/2000	--		38.46	15.08	--	23.38	<50	<0.5	<0.5	<0.5	<0.5	240/340	--	PACE	--	--	--	--
4/14/2000	--		38.46	15.82	--	22.64	90	<0.5	<0.5	<0.5	<0.5	200/220	--	PACE	--	--	--	--
7/24/2000	--		38.46	16.03	--	22.43	240	<0.5	<0.5	<0.5	<0.5	600/540	--	PACE	--	--	--	--

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, 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-6 Cont.																		
10/30/2000	--		38.46	15.83	--	22.63	120	<0.5	<0.5	<0.5	<0.5	260/380	--	PACE	--	--	--	--
1/11/2001	--		38.46	16.00	--	22.46	<50	<0.5	<0.5	<0.5	<0.5	2.4/2.69	--	PACE	--	--	--	--
5/17/2001	--		38.46	16.05	--	22.41	140	<0.5	<0.5	<0.5	<1.5	130/169	--	PACE	--	--	--	--
7/2/2001	--		38.46	16.27	--	22.19	70	<0.5	<0.5	<0.5	<1.5	80/91.4	--	PACE	--	--	--	--
11/2/2001	--		38.46	16.31	--	22.15	<50	<0.5	<0.5	<0.5	<1.5	32.3	--	PACE	--	--	--	--
8/6/2002	--		38.46	16.14	--	22.32	<50	<0.5	<0.5	<0.5	<1.5	6.73	--	PACE	--	--	--	--
10/16/2002	--		38.46	16.38	--	22.08	<50	<0.50	<0.50	<0.50	<0.50	<2.50	--	SEQ	--	--	--	--
1/13/2003	--		38.46	15.66	--	22.80	<50	3.6	1.2	1.4	4.8	3.9	--	SEQ	--	--	--	--
5/2/2003	--		38.46	15.89	--	22.57	<50	<0.50	<0.50	<0.50	<0.50	12	--	SEQ	--	--	--	--
7/11/2003	--		38.46	16.03	--	22.43	<50	<0.50	<0.50	<0.50	<0.50	17/17	--	SEQ	--	--	--	--
10/01/2003	--		38.46	15.90	--	22.56	<50	<0.50	<0.50	<0.50	<0.50	3.5	--	SEQM	--	--	--	--
02/11/2004	P		38.46	15.90	--	22.56	<50	<0.50	<0.50	<0.50	<0.50	2.0	--	SEQM	6.9	--	--	--
07/21/2004	P		38.46	16.18	--	22.28	<50	<0.50	<0.50	<0.50	<0.50	3.0	--	SEQM	6.5	--	--	--
01/20/2005	P		38.46	15.67	--	22.79	<50	<0.50	<0.50	<0.50	<0.50	2.4	--	SEQM	6.6	--	--	--
07/19/2005	P		38.46	16.04	--	22.42	<50	<0.50	<0.50	<0.50	<0.50	0.61	--	SEQM	7.4	--	--	--
01/11/2006	P		38.46	15.43	--	23.03	<50	<0.50	<0.50	<0.50	<0.50	1.3	--	SEQM	7.0	--	--	--
7/26/2006	P	k	38.46	16.40	--	22.06	<50	<0.50	<0.50	<0.50	<0.50	0.50	--	TAMC	7.05	--	--	--
1/11/2007	P		38.46	16.06	--	22.40	<50	<0.50	<0.50	<0.50	<0.50	0.91	2.75	TAMC	6.91	--	--	--
7/23/2007	P		38.46	16.20	--	22.26	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.52	TAMC	7.32	--	--	--
1/16/2008	P		38.46	15.81	--	22.65	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.79	TAMC	7.11	--	--	--
7/17/2008	**P**		**38.46**	**16.22**	**--**	**22.24**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**1.59**	**CEL**	**7.11**	**--**	**--**	**--**
MW-7																		
3/1/1995	--		39.50	16.21	--	23.29	1,400	14	<1.0	14	27	--	1.8	ATI	--	--	--	--
6/6/1995	--	e	39.50	16.34	--	23.16	540	5.5	<0.50	15	1.1	--	--	ATI	--	--	--	--
9/1/1995	--		39.50	16.74	--	22.76	190	2.8	<0.50	5	<1.0	10	7.5	ATI	--	--	--	--
11/29/1995	--		39.50	17.33	--	22.17	230	31	<0.50	3.8	1.9	<5.0	4.6	ATI	--	--	--	--
3/23/1996	--	c	--	--	--	--	60	7.6	<1	<1	<1	360	--	SPL	--	--	--	--
3/23/1996	--		39.50	15.86	--	23.64	<50	5	<1	<1	<1	330	7.2	SPL	--	--	--	--
9/5/1996	--		39.50	16.80	--	22.70	200	<0.5	<1.0	<1.0	<1.0	430	3.1	SPL	--	--	--	--
3/11/1997	--		39.50	18.32	--	21.18	120	<0.5	<1.0	<1.0	<1.0	140	4.7	SPL	--	--	--	--

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, 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-7 Cont.																		
12/8/1997	--		39.50	16.02	--	23.48	240	0.8	<1.0	<1.0	<1.0	200	5.2	SPL	--	--	--	--
7/8/1998	--		39.50	16.32	--	23.18	270	<0.5	<1.0	<1.0	<1.0	170	4.8	SPL	--	--	--	--
12/7/1998	--		39.50	16.43	--	23.07	100	<0.5	<1.0	<1.0	<1.0	120	--	SPL	--	--	--	--
1/19/1999	--		39.50	16.41	--	23.09	80	<1.0	<1.0	<1.0	<1.0	80	--	SPL	--	--	--	--
4/23/1999	--		39.50	16.21	--	23.29	<50	<1.0	<1.0	<1.0	<1.0	20	--	SPL	--	--	--	--
7/20/1999	--		39.50	16.54	--	22.96	<50	<1.0	<1.0	<1.0	<1.0	24	--	SPL	--	--	--	--
12/30/1999	--		39.50	16.65	--	22.85	<50	<0.5	<0.5	<0.5	<0.5	12	--	PACE	--	--	--	--
2/29/2000	--		39.50	15.71	--	23.79	<50	<0.5	<0.5	<0.5	<0.5	7	--	PACE	--	--	--	--
4/14/2000	--		39.50	16.25	--	23.25	<50	<0.5	<0.5	<0.5	<0.5	4	--	PACE	--	--	--	--
7/24/2000	--		39.50	16.63	--	22.87	<50	1.1	0.5	<0.5	<0.5	3.1	--	PACE	--	--	--	--
10/30/2000	--		39.50	16.35	--	23.15	<50	<0.5	<0.5	<0.5	1.1	<0.5	--	PACE	--	--	--	--
1/11/2001	--		39.50	16.52	--	22.98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--	--	--	--
5/17/2001	--		39.50	16.58	--	22.92	<50	<0.5	<0.5	<0.5	<1.5	<0.5	--	PACE	--	--	--	--
7/2/2001	--		39.50	16.75	--	22.75	<50	<0.5	<0.5	<0.5	<1.5	0.581	--	PACE	--	--	--	--
11/2/2001	--		39.50	16.89	--	22.61	--	--	--	--	--	--	--	PACE	--	--	--	--
8/6/2002	--		39.50	16.65	--	22.85	--	--	--	--	--	--	--	PACE	--	--	--	--
10/16/2002	--		39.50	16.86	--	22.64	--	--	--	--	--	--	--	--	--	--	--	--
1/13/2003	--		39.50	16.21	--	23.29	--	--	--	--	--	--	--	--	--	--	--	--
5/2/2003	--		39.50	16.37	--	23.13	--	--	--	--	--	--	--	--	--	--	--	--
7/11/2003	--		39.50	16.55	--	22.95	--	--	--	--	--	--	--	--	--	--	--	--
10/01/2003	--		39.50	16.82	--	22.68	--	--	--	--	--	--	--	--	--	--	--	--
02/11/2004	--		39.50	16.40	--	23.10	--	--	--	--	--	--	--	--	--	--	--	--
07/21/2004	--		39.50	16.70	--	22.80	--	--	--	--	--	--	--	--	--	--	--	--
01/20/2005	--		39.50	16.20	--	23.30	--	--	--	--	--	--	--	--	--	--	--	--
07/19/2005	--		39.50	16.47	--	23.03	--	--	--	--	--	--	--	--	--	--	--	--
01/11/2006	--		39.50	16.11	--	23.39	--	--	--	--	--	--	--	--	--	--	--	--
7/26/2006	--		39.50	16.38	--	23.12	--	--	--	--	--	--	--	--	--	--	--	--
1/11/2007	--		39.50	16.55	--	22.95	--	--	--	--	--	--	--	--	--	--	--	--
7/23/2007	--		39.50	16.71	--	22.79	--	--	--	--	--	--	--	--	--	--	--	--
1/16/2008	--		39.50	16.40	--	23.10	--	--	--	--	--	--	--	--	--	--	--	--
7/17/2008	--		**39.50**	**16.75**	--	**22.75**	--	--	--	--	--	--	--	--	--	--	--	--

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, 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-7																		
QC-2																		
11/4/1992	--	g, j	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
2/24/1994	--	g, j	--	--	--	--	--	--	--	--	--	<5.0	--	PACE	--	--	--	--
5/12/1994	--	g, j	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	--	--	--
9/9/1994	--	g, j	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	--	--	--
11/3/1994	--	g, j	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	--	--	--
3/1/1995	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.0	--	--	PACE	--	--	--	--
6/6/1995	--	g	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	--	--	--
9/1/1995	--	g	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	--	--	--
11/29/1995	--	g	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	--	--	--
3/23/1996	--	g	--	--	--	--	<50	<0.5	<1	<1	<1	<10	--	SPL	--	--	--	--

ABBREVIATIONS AND SYMBOLS:
ft bgs = Feet below ground surface
ft MSL = Feet above mean sea level
DRO = Diesel range organics
GRO = Gasoline range organics, range C4-C12
TPH-g = Total petroleum hydrocarbons as gasoline
TPH-d = Total petroleum hydrocarbons as diesel
GWE = Groundwater elevation in ft MSL.
MtBE = Methyl tert-butyl ether, historical data expressed as EPA Methods 8260/8020
HVOC = Halogenated volatile organic compounds
TOG = Total oil and grease
DO = Dissolved oxygen
g/L = Micrograms per liter
mg/L = Milligrams per liter
< = Not detected above reported detection limit
--- = Not measured/analyzed/applicable
PACE = Pace, Inc.
ATI = Analytical Technologies, Inc.
SPL = Southern Petroleum Laboratoriy
SEQ = Sequoia Analytical Laboratory
SEQM = Sequoia Analytical Morgan Hill Laboratory
TAMC = TestAmerica
CEL = Calscience Environmental Laboratories, Inc.
TOC = Top of casing in ft MSL
DTW = Depth to water in ft bgs
P = Well purged prior to sampling
NP = Well not purged prior to sampling

FOOTNOTES:
(c) Blind duplicate.
(d) A copy of the documentation for this data is included in Appendix C of Alisto report 10-060-07-001.
(e) MTBE peak present. See documentation in Appendix C of Alisto report 10-060-07-001.
(f) Well inaccessible.
(g) Travel blank.
(h) MTBE by 8020/8260.
(i) Gasoline does not include MTBE.
(j) A copy of the documentation for this data is included in Blaine Tech Services report 010517-C-4. The MTBE data for the October 22 and 23, 1992 and November 4, 1992 sampling events have been destroyed.
(k) Sample preserved improperly.
(m) TOC raised by +0.15 ft during well repair on January 9, 2004.

NOTES:
During the second quarter of 2002, URS Corporation assumed groundwater monitoring activities for BP. The data within this table collected prior to June 2002 has not been verified by URS.

TOC elevations surveyed relative to an established benchmark with an elevation of 39.95 ft MSL.

Beginning with the third quarter 2003 sampling event (7/11/03), groundwater samples were analyzed by EPA method 8260B for TPH-g, benzene, toluene, ethylbenzene, xylenes, and fuel oxygenates.

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 inclusion of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.

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 #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
10/01/2003	--	--	--	--	--	--	--	--	
02/11/2004	--	--	--	--	--	--	--	--	
07/21/2004	--	--	--	--	--	--	--	--	
01/20/2005	--	--	--	--	--	--	--	--	
07/19/2005	--	--	--	--	--	--	--	--	
01/11/2006	--	--	--	--	--	--	--	--	
7/26/2006	--	--	--	--	--	--	--	--	
MW-2									
10/01/2003	--	--	--	--	--	--	--	--	
02/11/2004	--	--	--	--	--	--	--	--	
07/21/2004	--	--	--	--	--	--	--	--	
01/20/2005	--	--	--	--	--	--	--	--	
07/19/2005	--	--	--	--	--	--	--	--	
01/11/2006	--	--	--	--	--	--	--	--	
7/26/2006	--	--	--	--	--	--	--	--	
MW-3									
10/01/2003	--	--	--	--	--	--	--	--	
02/11/2004	--	--	--	--	--	--	--	--	
07/21/2004	--	--	--	--	--	--	--	--	
01/20/2005	--	--	--	--	--	--	--	--	
07/19/2005	--	--	--	--	--	--	--	--	
01/11/2006	--	--	--	--	--	--	--	--	
7/26/2006	--	--	--	--	--	--	--	--	
MW-4									
7/20/1999	--	<500	590/480	<10	<5.0	<5.0	<1.0	<1.0	
12/30/1999	--	--	280/410	<5.0	<5.0	<5.0	<1.0	<5.0	
2/29/2000	--	--	870/1200	<20	<20	<20	<1.0	<20	
4/14/2000	--	--	730/800	<10	<10	<10	<1.0	<10	
7/24/2000	--	<50	390/270	<5.0	<5.0	<5.0	<1.0	<1.0	
10/30/2000	--	<50	160/210	<5.0	<5.0	<5.0	<1.0	<5.0	

Table 2. Summary of Fuel Additives Analytical Data

Station #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-4 Cont.									
1/11/2001	--	<10	170/176	<1.0	<1.0	<1.0	<1.0	<1.0	
5/17/2001	--	<10	91/119	<1.0	<1.0	<1.0	<1.0	<1.0	
7/2/2001	--	<10	66/87.6	<1.0	<1.0	<1.0	<1.0	<1.0	
7/11/2003	<100	<20	2.0/2.0	<0.50	<0.50	<0.50	--	--	
10/01/2003	<100	<20	3.1	<0.50	<0.50	<0.50	--	--	
02/11/2004	<100	<20	3.3	<0.50	<0.50	<0.50	<0.50	<0.50	
07/21/2004	<100	<20	0.61	<0.50	<0.50	<0.50	<0.50	<0.50	
01/20/2005	<100	<20	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	a
07/19/2005	<100	<20	0.57	<0.50	<0.50	<0.50	<0.50	<0.50	
01/11/2006	<300	<20	0.58	<0.50	<0.50	<0.50	<0.50	<0.50	
7/26/2006	<300	<20	<0.50	<0.50	<0.50	0.71	<0.50	<0.50	
1/11/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
1/16/2008	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/17/2008	**<300**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-5									
7/20/1999	--	<500	490/470	<10	<10	<10	--	--	
12/30/1999	--	--	470/550	<10	<10	<10	--	--	
2/29/2000	--	--	190/280	<5.0	<5.0	<5.0	<5.0	<5.0	
4/14/2000	--	--	200/240	<5.0	<5.0	<5.0	--	--	
7/24/2000	--	<50	630/570	<5.0	<5.0	<5.0	--	--	
10/30/2000	--	<100	260/360	<10	<10	<10	--	--	
1/11/2001	--	110	540/585	<1.0	<1.0	<1.0	<1.0	<1.0	
5/17/2001	--	31	320/419	<1.0	<1.0	<1.0	--	--	
7/2/2001	--	<10	290/264	<1.0	<1.0	<1.0	--	--	
7/11/2003	<100	<20	19/19	<0.50	<0.50	<0.50	--	--	
10/01/2003	<100	<20	17	<0.50	<0.50	<0.50	--	--	
02/11/2004	<100	<20	35	<0.50	<0.50	<0.50	<0.50	<0.50	
07/21/2004	<100	<20	8.3	<0.50	<0.50	<0.50	<0.50	<0.50	
01/20/2005	<100	<20	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	a
07/19/2005	<100	<20	0.76	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data

Station #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-5 Cont.									
01/11/2006	<300	<20	0.61	<0.50	<0.50	<0.50	<0.50	<0.50	
7/26/2006	<300	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	
1/11/2007	<300	<20	0.62	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
1/16/2008	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/17/2008	**<300**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-6									
7/20/1999	--	<500	1400/1300	<10	<10	<10	--	--	
12/30/1999	--	--	300/360	<5.0	<5.0	<5.0	--	--	
2/29/2000	--	--	240/340	<5.0	<5.0	<5.0	<5.0	<5.0	
4/14/2000	--	--	200/220	<5.0	<5.0	<5.0	--	--	
7/24/2000	--	62	600/540	<5.0	<5.0	<5.0	--	--	
10/30/2000	--	<100	260/380	<10	<10	<10	--	--	
1/11/2001	--	<10	2.4/2.69	<1.0	<1.0	<1.0	--	--	
5/17/2001	--	<10	130/169	<1.0	<1.0	<1.0	--	--	
7/2/2001	--	<10	80/91.4	<1.0	<1.0	<1.0	--	--	
7/11/2003	<100	<20	17/17	<0.50	<0.50	<0.50	--	--	
10/01/2003	<100	<20	3.5	<0.50	<0.50	<0.50	--	--	
02/11/2004	<100	<20	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	
07/21/2004	<100	<20	3.0	<0.50	<0.50	<0.50	<0.50	<0.50	
01/20/2005	<100	<20	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	a
07/19/2005	<100	<20	0.61	<0.50	<0.50	<0.50	<0.50	<0.50	
01/11/2006	<300	<20	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
7/26/2006	<300	<20	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
1/11/2007	<300	<20	0.91	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
1/16/2008	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/17/2008	**<300**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-7									
10/01/2003	--	--	--	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Station #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-7 Cont.									
02/11/2004	--	--	--	--	--	--	--	--	
07/21/2004	--	--	--	--	--	--	--	--	
01/20/2005	--	--	--	--	--	--	--	--	
07/19/2005	--	--	--	--	--	--	--	--	
01/11/2006	--	--	--	--	--	--	--	--	
7/26/2006	--	--	--	--	--	--	--	--	

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

FOOTNOTES:
a = Calibration verification was within method limits but outside contract limits for ethanol.
b = Sample preserved improperly.

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 #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
8/6/2002	Northwest	0.004
10/16/2002	West-Northwest	0.003
1/13/2003	Northwest	0.004
5/2/2003	Northwest	0.004
7/11/2003	West-Northwest	0.004
10/1/2003	West-Northwest	0.004
2/11/2004	West-Northwest	0.003
7/21/2004	West-Northwest	0.004
1/20/2005	West-Northwest	0.004
7/19/2005	West-Northwest	0.005
1/11/2006	West-Northwest	0.006
7/26/2006	West	0.006
1/11/2007	West-Northwest	0.004
7/23/2007	West-Northwest	0.004
1/16/2008	West-Northwest	0.004
7/17/2008	**West-Northwest**	**0.004**

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 ENVIRONMENTAL, INC GROUND-WATER SAMPLING DATA PACKAGE (INCLUDES FIELD DATA SHEETS, NON-HAZARDOUS WATE DATA FORMS, FIELD PROCEDURES FOR GROUND-WATER SAMPLING, LABORATORY REPORT AND CHAIN OF CUSTODY DOCUMENTATION)

STRATUS
ENVIRONMENTAL, INC.

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

August 4, 2008

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

Re: Groundwater Sampling Data Package, BP Service Station No. 11107, located at 18501 Hesperian Boulevard, San Lorenzo, California

General Information

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

Sampling Date: July 17, 2008
Arrival: 09:00 *Departure:* 11:00
Weather Conditions: Clear
Unusual Field Conditions: None noted.
Scope of Work Performed: Quarterly monitoring and sampling.
Variations from Work Scope: None noted.

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

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Jay R. Johnson, P.G.
Project Manager

Attachments:

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

cc: Mr. Paul Supple, BP/ARCO

BP Alameda Portfolio

AK-900 DP. 11:00

HYDROLOGIC DATA SHEET

Gauge Date: 5.17.08

Field Technician: Jorge

Project Name: 18501 Hesperian, San Lorenzo

Project Number: 11107

TOC = Top of Well Casing Elevation
TOS = Depth to Top of Screen
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	TOS	DTW	DTB	DIA	ELEV			
MW-1	9:42			18.03	30.45					
MW-2	9:07			17.48	24.85					
MW-3	9:32			17.64	25.00					
MW-4	9:23			16.72	25.10					
MW-5	9:18			16.78	22.65					
MW-6	9:15			16.22	24.80					
MW-7	9:27			16.75	24.31					

FW: Arturo Heimlich

pH/Conductivity/temperature Meter - YSI Model 63

DO Meter - YSI 55 Series (DO is always measured before purge)

Please refer to groundwater sampling field procedures

Calibration Date

pH 7-17-08

Conductivity 7-17-08

DO 7-17-08

BP ALAMEDA PORTFOLIO

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11107 | PURGED BY: JG | WELL I.D.: MW-4

CLIENT NAME: | SAMPLED BY: JC | SAMPLE I.D.: MW-4

LOCATION: San Lorenzo - 18501 Hesperian Blvd. | QA SAMPLES:

DATE PURGED 7-17-08 | START (2400hr) 10:29 | END (2400hr) 10:32

DATE SAMPLED 7.17.08 | SAMPLE TIME (2400hr) 10:35

SAMPLE TYPE: Groundwater x | Surface Water ___ | Treatment Effluent ___ | Other ___

CASING DIAMETER: Casing Volume: (gallons per foot)

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

DEPTH TO BOTTOM (feet) = 25.10 | CASING VOLUME (gal) = 1.4

DEPTH TO WATER (feet) = 16.72 | CALCULATED PURGE (gal) = 4.2

WATER COLUMN HEIGHT (feet) = 8.38 | ACTUAL PURGE (gal) = 5.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
7.17.08	10:30	1.6	20.8	660	7.60	clear	
"	10:31	3.3	20.0	652	7.58	"	
"	10:32	5.0	20.1	652	7.54	"	

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 16.81 | SAMPLE TURBIDITY: Clear

80% RECHARGE: ✓ YES ___ NO | ANALYSES: 5W0

ODOR: NO | SAMPLE VESSEL / PRESERVATIVE: 6 Vom. HCL

PURGING EQUIPMENT

___ Bladder Pump
X Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated ___
Other: ___
Pump Depth: 23

SAMPLING EQUIPMENT

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

WELL INTEGRITY: good | LOCK#: Master

REMARKS: DO 1.47

SIGNATURE:

BP ALAMEDA PORTFOLIO

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11107 PURGED BY: JG WELL I.D.: MW-5

CLIENT NAME: SAMPLED BY: JG SAMPLE I.D.: MW-5

LOCATION: San Lorenzo - 18501 Hesperian Blvd. QA SAMPLES:

DATE PURGED 7.17.08 START (2400hr) 10:11 END (2400hr) 10:14

DATE SAMPLED 7.17.08 SAMPLE TIME (2400hr) 10:18

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

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

Casing Volume: (gallons per foot)

DEPTH TO BOTTOM (feet) = 22.65 CASING VOLUME (gal) = 0.9

DEPTH TO WATER (feet) = 16.78 CALCULATED PURGE (gal) = 2.9

WATER COLUMN HEIGHT (feet) = 5.8 ACTUAL PURGE (gal) = 3.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
7.17.08	10:12	1.1	19.9	647	7.58	clear	
"	10:13	2.3	20.1	660	7.49	"	
"	10:14	3.5	20.3	664	7.42	"	

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 16.81 SAMPLE TURBIDITY: Clear

80% RECHARGE: X YES ___ NO ANALYSES: 5-10

ODOR: None SAMPLE VESSEL / PRESERVATIVE: 6 VOA, HCl

PURGING EQUIPMENT

___ Bladder Pump
X Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
Other: ____

___ Bailer (Teflon)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated ____

Pump Depth: 14

SAMPLING EQUIPMENT

___ Bladder Pump
___ Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
Other: ____

___ Bailer (Teflon)
X Bailer (___ PVC or X disposable)
___ Bailer (Stainless Steel)
___ Dedicated ____

WELL INTEGRITY: Good LOCK#: Master

REMARKS: DO 1.89

SIGNATURE: [signature]

Page ___ of ___

BP ALAMEDA PORTFOLIO

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11107 PURGED BY: JG WELL I.D.: MW-6

CLIENT NAME: SAMPLED BY: JG SAMPLE I.D.: MW-6

LOCATION: San Lorenzo - 18501 Hesperian Blvd. QA SAMPLES:

DATE PURGED 7.17.08 START (2400hr) 953 END (2400hr) 956

DATE SAMPLED 7.17.08 SAMPLE TIME (2400hr) 10:00

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

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

Casing Volume: (gallons per foot)

DEPTH TO BOTTOM (feet) = 24.80 CASING VOLUME (gal) = 1.4

DEPTH TO WATER (feet) = 16.22 CALCULATED PURGE (gal) = 4.3

WATER COLUMN HEIGHT (feet) = 8.5 ACTUAL PURGE (gal) = 5.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
7.17.08	954	1.5	19.5	637	6.82	cloud	
1	955	3.5	18.0	643	7.06	clear	
	956	5.0	19.1	650	7.11	1	

SAMPLE DEPTH TO WATER: 16.28 SAMPLE INFORMATION SAMPLE TURBIDITY: Clear

80% RECHARGE: X YES ___ NO ANALYSES: 5 WO

ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 6 VOA-HCL

PURGING EQUIPMENT

___ Bladder Pump
X Centrifugal Pump
___ Submersible Pump
___ Peristalic Pump
___ Bailer (Teflon)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated ____
Other: ____
Pump Depth: ____

SAMPLING EQUIPMENT

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

WELL INTEGRITY: good LOCK#: MASTER

REMARKS: DO 1.59

SIGNATURE: [signature]

WELLHEAD OBSERVATION FORM

Site Name/Number: 11107 *Date:* 7-17-08 *Technician:* Jerry

Well I.D.	Box in Good Condition? X = Yes Blank = No	Lock Missing? X = Yes (replaced) Blank = No	Water in Wellbox? X = Yes Blank = No	Water Level Relative to Cap? A = Above cap B = Below cap L = Level w/cap	Well Cap? I = Intact M = Missing or Compromised (replaced)	Bolts Missing? X = Yes Blank = No	Bolts Stripped? X = Yes Blank = No	Bolt Holes Stripped? X = Yes Blank = No	Cracked or Broken Lid? X = Yes Blank = No	Cracked or Broken Box? X = Yes Blank = No	Grout Level more than 1ft below TOC? X = Yes Blank = No	Additional Comments (such as missing bit, screens needs replacement, or other - explain)
MW 1	X		X	B	I							
MW 2	X				I	X						
MW 3	X				I							
MW 4	X		X	B	I							
MW 5	X				I							
MW 6	X				I	X						
MW 7	X				I							

DRUM INVENTORY

Drums on site? Yes (No) (circle)

Type and # Steel: _____ Plastic: _____

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

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

GENERAL SITE CONDITIONS

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

NO. 666800

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

SITE:

NAME BP WEST COAST PRODUCTS LLC ARCO # 11107

EPA I.D. NO. NOT REQUIRED

ADDRESS P.O. BOX 80249

RANCHO SANTA MARGARITA

CITY, STATE, ZIP CA 92688

PROFILE NO.

PHONE NO. ( )

CONTAINERS: No. VOLUME 13.5 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.	BESI4		
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

TYPED OR PRINTED FULL NAME & SIGNATURE

5-17-08

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

TRUCK, UNIT, I.D. NO.

Jerry gonzales

TYPED OR PRINTED FULL NAME & SIGNATURE

5-17-08

DATE

TSD FACILITY

NAME INSTRAT, INC

EPA I.D. NO.

DISPOSAL METHOD

ADDRESS 1105 AIRPORT RD #C

☐ LANDFILL ☐ OTHER

CITY, STATE, ZIP RIO VISTA, CA 94571

PHONE NO. 530-753-1829

TYPED OR PRINTED FULL NAME & SIGNATURE

DATE

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

DISCREPANCY

Atlantic Richfield Company

A BP affiliated company

Chain of Custody Record

Project Name: BP 11107

BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > CA > Alameda>11107

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

On-site Time: 900	Temp: 65
Off-site Time: 1100	Temp: 72
Sky Conditions: clear	
Meteorological Events: none	
Wind Speed:	Direction:

Lab Name: Calscience	
Address: 7440 Lincoln Way	
Garden Grove, CA 92841	
Lab PM: Linda Scharpenberg	
Tele/Fax: 714-895-5494 714-895-7501(fax)	
BP/AR PM Contact: Paul Supple	
Address: 2010 Crow Canyon Place, Suite 150	
San Ramon, CA	
Tele/Fax: 925-275-3506	
Lab Bottle Order No:	

BP/AR Facility No.: 11107	
BP/AR Facility Address: 18501 Hesperian Blvd., San Lorenzo	
Site Lat/Long:	
California Global ID #: T 0600101665	
Enfos Project No.: G07TC-0028	
Provision or RCOP (circle one) Provision	
Phase/WBS: 04-Monitoring	
Sub Phase/Task: 03-Analytical	
Cost Element: 01-Contractor labor	

Consultant/Contractor: Stratus Environmental, Inc.	
Address: 3330 Cameron Park Drive, Suite 550	
Cameron Park, CA 95682	
Consultant/Contractor Project No.:	
Consultant/Contractor PM: Jay Johnson	
Tele/Fax: (530) 676-6000 / (530) 676-6005	
Report Type & QC Level: Level 1 with EDF	
E-mail EDD To: shayes@stratusinc.net	
Invoice to: Atlantic Richfield Co.	

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: BTEX/Oxy* by 8260	Requested Analysis: 1,2 DCA	Requested Analysis: Ethanol	Requested Analysis: EDB	Requested Analysis: GRO by 8015m	Sample Point Lat/Long and Comments *Oxy = MTBD, TAME, ETBE, DIPE, TBA
1	MW-4	1035	7/7/06		X			6				X		X	X	X	X	X	
2	MW-5	1018	"		X			6				X		X	X	X	X	X	
3	MW-6	1100	"		X			6				X		X	X	X	X	X	
4	TB 11107 -	600	"		X			2				X		X	X	X	X	X	HOLD
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: Jerry Gonzalez	
Sampler's Company: Doulos ENV	
Shipment Date:	
Shipment Method:	
Shipment Tracking No:	

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time

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

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

Calscience
Environmental
Laboratories, Inc.

July 30, 2008

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

Subject: **Calscience Work Order No.: 08-07-1781**
Client Reference: BP 11107

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/19/2008 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Linda Scharpenberg

Calscience Environmental
Laboratories, Inc.
Linda Scharpenberg
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.		Date Received:	07/19/08
3330 Cameron Park Drive, Suite 550		Work Order No:	08-07-1781
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: BP 11107

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	**08-07-1781-1-E**	**07/17/08 10:35**	**Aqueous**	**GC 4**	**07/22/08**	**07/23/08 11:12**	**080722B02**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	68	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	**08-07-1781-2-E**	**07/17/08 10:18**	**Aqueous**	**GC 4**	**07/22/08**	**07/23/08 11:45**	**080722B02**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	65	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	**08-07-1781-3-D**	**07/17/08 10:00**	**Aqueous**	**GC 4**	**07/23/08**	**07/24/08 01:28**	**080723B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	66	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-695-204**	**N/A**	**Aqueous**	**GC 4**	**07/22/08**	**07/23/08 07:21**	**080722B02**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	65	38-134			

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.	Date Received:	07/19/08
3330 Cameron Park Drive, Suite 550	Work Order No:	08-07-1781
Cameron Park, CA 95682-8861	Preparation:	EPA 5030B
	Method:	EPA 8015B (M)

Project: BP 11107

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-695-205**	**N/A**	**Aqueous**	**GC 4**	**07/23/08**	**07/23/08 22:10**	**080723B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	57	38-134			

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.		Date Received:	07/19/08
3330 Cameron Park Drive, Suite 550		Work Order No:	08-07-1781
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BP 11107			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	**08-07-1781-1-A**	**07/17/08 10:35**	**Aqueous**	**GC/MS Z**	**07/25/08**	**07/25/08 18:16**	**080725L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	99	73-157			Dibromofluoromethane	101	82-142		
Toluene-d8	100	82-112			1,4-Bromofluorobenzene	100	75-105		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	**08-07-1781-2-A**	**07/17/08 10:18**	**Aqueous**	**GC/MS Z**	**07/25/08**	**07/25/08 18:50**	**080725L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	102	73-157			Dibromofluoromethane	102	82-142		
Toluene-d8	100	82-112			1,4-Bromofluorobenzene	99	75-105		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	**08-07-1781-3-A**	**07/17/08 10:00**	**Aqueous**	**GC/MS Z**	**07/25/08**	**07/25/08 19:26**	**080725L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	101	73-157			Dibromofluoromethane	103	82-142		
Toluene-d8	101	82-112			1,4-Bromofluorobenzene	99	75-105		

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.		Date Received:	07/19/08
3330 Cameron Park Drive, Suite 550		Work Order No:	08-07-1781
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BP 11107			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-703-335**	**N/A**	**Aqueous**	**GC/MS Z**	**07/25/08**	**07/25/08 13:44**	**080725L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	104	73-157			Dibromofluoromethane	103	82-142		
Toluene-d8	101	82-112			1,4-Bromofluorobenzene	99	75-105		

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received:	07/19/08
Work Order No:	08-07-1781
Preparation:	EPA 5030B
Method:	EPA 8015B (M)

Project BP 11107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-07-1537-7	**Aqueous**	**GC 4**	**07/22/08**	**07/23/08**	**080722S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	80	82	38-134	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.		Date Received:	07/19/08
3330 Cameron Park Drive, Suite 550		Work Order No:	08-07-1781
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project BP 11107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-07-1784-1	**Aqueous**	**GC 4**	**07/23/08**	**07/24/08**	**080723S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	83	84	38-134	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.	Date Received:	07/19/08
3330 Cameron Park Drive, Suite 550	Work Order No:	08-07-1781
Cameron Park, CA 95682-8861	Preparation:	EPA 5030B
	Method:	EPA 8260B

Project BP 11107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-07-1415-4	**Aqueous**	**GC/MS Z**	**07/25/08**	**07/25/08**	**080725S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	96	98	86-122	2	0-8	
Carbon Tetrachloride	90	90	78-138	1	0-9	
Chlorobenzene	99	100	90-120	0	0-9	
1,2-Dibromoethane	96	95	70-130	1	0-30	
1,2-Dichlorobenzene	99	100	89-119	1	0-10	
1,1-Dichloroethene	93	95	52-142	2	0-23	
Ethylbenzene	104	106	70-130	2	0-30	
Toluene	103	104	85-127	1	0-12	
Trichloroethene	95	96	78-126	1	0-10	
Vinyl Chloride	74	84	56-140	13	0-21	
Methyl-t-Butyl Ether (MTBE)	93	92	64-136	1	0-28	
Tert-Butyl Alcohol (TBA)	90	88	27-183	2	0-60	
Diisopropyl Ether (DIPE)	97	98	78-126	1	0-16	
Ethyl-t-Butyl Ether (ETBE)	91	92	67-133	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	92	93	63-141	1	0-21	
Ethanol	92	86	11-167	6	0-64	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.		Date Received:	N/A
3330 Cameron Park Drive, Suite 550		Work Order No:	08-07-1781
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: BP 11107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-695-204	**Aqueous**	**GC 4**	**07/22/08**	**07/23/08**	**080722B02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	90	87	78-120	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.		Date Received:	N/A
3330 Cameron Park Drive, Suite 550		Work Order No:	08-07-1781
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: BP 11107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-695-205	**Aqueous**	**GC 4**	**07/23/08**	**07/23/08**	**080723B01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	88	89	78-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-07-1781
Preparation: EPA 5030B
Method: EPA 8260B

Project: BP 11107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-703-335	**Aqueous**	**GC/MS Z**	**07/25/08**	**07/25/08**	**080725L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	99	87-117	2	0-7	
Carbon Tetrachloride	91	90	78-132	1	0-8	
Chlorobenzene	99	101	88-118	2	0-8	
1,2-Dibromoethane	94	103	80-120	9	0-20	
1,2-Dichlorobenzene	99	103	88-118	4	0-8	
1,1-Dichloroethene	93	95	71-131	2	0-14	
Ethylbenzene	101	103	80-120	2	0-20	
Toluene	99	101	85-127	2	0-7	
Trichloroethene	98	98	85-121	1	0-11	
Vinyl Chloride	79	80	64-136	1	0-10	
Methyl-t-Butyl Ether (MTBE)	90	99	67-133	9	0-16	
Tert-Butyl Alcohol (TBA)	94	93	34-154	1	0-19	
Diisopropyl Ether (DIPE)	120	96	80-122	22	0-8	BA
Ethyl-t-Butyl Ether (ETBE)	91	96	73-127	5	0-11	
Tert-Amyl-Methyl Ether (TAME)	89	96	69-135	7	0-12	
Ethanol	97	90	34-124	8	0-44	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-07-1781

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	A Marginal Exceedance (ME) is defined as a LCS percent recovery beyond the normal 3 standard deviation Control Limits but still within the marginal exceedance limits (set at 4 standard deviations from the mean)
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
BA	Relative Percent Difference out of control

Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

(1781)

Project Name: BP 11107
BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > CA > Alameda>11107
State or Lead Regulatory Agency:
Requested Due Date (mm/dd/yy):

On-site Time: 900	Temp: 65
Off-site Time: 1500	Temp: 72
Sky Conditions: clear	
Meteorological Events: none	
Wind Speed: 0	Direction: —

Lab Name: Calscience	BP/AR Facility No.: 11107	Consultant/Contractor: Stratus Environmental, Inc.
Address: 7440 Lincoln Way	BP/AR Facility Address: 18501 Hesperian Blvd., San Lorenzo	Address: 3330 Cameron Park Drive, Suite 550
Garden Grove, CA 92841	Site Lat/Long:	Cameron Park, CA 95682
Lab PM: Linda Scharpenberg	California Global ID #: T 0600101665	Consultant/Contractor Project No.:
Tele/Fax: 714-895-5494 714-895-7501(fax)	Enfos Project No.: G07TC-0028	Consultant/Contractor PM: Jay Johnson
BP/AR PM Contact: Paul Supple	Provision or RCOP (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: BTEX/Oxy* by 8260	Requested Analysis: 1,2 DCA	Requested Analysis: Ethanol	Requested Analysis: EDB	Requested Analysis: GRO by 8015m	Sample Point Lat/Long and Comments *Oxy = MTBD, TAME, ETBE, DIPE, TBA
1	MW-4	1035	7-17-08		X			6				X		X	X	X	X	X	
2	MW-5	10:18	"		X			6				X		X	X	X	X	X	
3	MW-6	10:60	"		X			6				X		X	X	X	X	X	
4	TB 11107 -	600	"		X			2				X		X	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				GSO		
Shipment Date:						
Shipment Method:						
Shipment Tracking No: 105723814 PEEL OFF HERE	GSO	7-18-08	10:00	CEL	7-18-08	10:00

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

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

BP COC Rev. 5 10/11/2006

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 07 - 1781

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: ATLANTIC RICHFIELD **DATE:** 07-19-08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature (For Air & Filter only).

___ ___.___ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

8.2 °C Temperature blank.
___ ___.___ °C IR thermometer.
_____ Ambient temperature (For Air & Filter only).

Initial: TD

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: TD

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC		✓	
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation			✓

Initial: TD

COMMENTS:

ATTACHMENT

FIELD PROCEDURES FOR GROUNDWATER SAMPLING

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

Equipment Calibration

Standard groundwater sampling equipment – pH/Conductivity/Temperature meter, and dissolved oxygen (DO) meters are calibrated prior to all field work. All calibration is conducted in accordance with equipment manufacturer's recommended procedure and buffer solutions. MSDS for all buffer solutions are maintained in Stratus vehicles. Calibration is completed everyday prior to field work and also once a week. The pH probe is calibrated for a pH of 7.0 daily and for 4.0, 7.0 and 10.0 weekly. The conductivity probe is calibrated for 1413 µs daily and 1413 µs and 447 µs weekly. The temperature probe is calibrated weekly with a NIST-traceable thermometer. The DO probe is calibrated for 100% oxygen daily and 0% and 100% oxygen weekly. All calibration logs are maintained in the Stratus office.

Groundwater and Liquid-Phase Petroleum Hydrocarbon Depth Assessment

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

Subjective Analysis of Groundwater

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

Monitoring Well Sampling

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

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

A Teflon bailer, electric submersible or bladder pump will be the only equipment used for well sampling. When samples for volatile organic analysis are being collected, the pump flow will be regulated at approximately 100 milliliters per minute to minimize pump effluent turbulence and aeration. Glass bottles of at least 40-milliliters volume and fitted with Teflon-lined septa will be used in sampling for volatile organics. These bottles will be filled completely to prevent air accumulation in the bottle. A positive meniscus forms when the bottle is completely full. A convex Teflon septum will be placed over the positive meniscus to eliminate air. After the bottle is capped, it is inverted and tapped to verify that it contains no air bubbles. The sample containers for other parameters will be filled, filtered as required, and capped. Glass and plastic bottles used by Stratus to collect groundwater samples are supplied by the laboratory.

Groundwater Sample Labeling and Preservation

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

Sample Identification and Chain-of-Custody Procedures

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

A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquishes the samples by signing the chain-of-custody form and noting the time. The sample-control officer at the laboratory verifies sample integrity and confirms that the samples are collected in the proper containers, preserved correctly, and

contain adequate volumes for analysis. These conditions are noted on a Laboratory Sample Receipt Checklist that becomes part of the laboratory report upon request.

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

Equipment Cleaning

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

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATION

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

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

Submittal Type:	**GEO_WELL**
Submittal Title:	**3Q08 GEO_WELL 11107**
Facility Global ID:	**T0600101665**
Facility Name:	**BP #11107**
File Name:	**GEO_WELL.zip**
Organization Name:	**Broadbent & Associates, Inc.**
Username:	**BROADBENT-C**
IP Address:	**67.118.40.90**
Submittal Date/Time:	**9/25/2008 11:13:50 AM**
Confirmation Number:	**2580715358**

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

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

Submittal Type:	**GWM_R**
Submittal Title:	**3Q08 GW Monitoring**
Facility Global ID:	**T0600101665**
Facility Name:	**BP #11107**
File Name:	**08071781.zip**
Organization Name:	**Broadbent & Associates, Inc.**
Username:	**BROADBENT-C**
IP Address:	**67.118.40.90**
Submittal Date/Time:	**9/25/2008 11:16:10 AM**
Confirmation Number:	**9695879876**

VIEW QC REPORT

VIEW DETECTIONS REPORT