Atlantic Richfield Company
(a BP affiliated company)

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

23 January 2009

Re: Fourth Quarter 2008 Ground-Water Monitoring Report
Atlantic Richfield Company (a BP affiliated company) Station #608
17601 Hesperian Boulevard
San Lorenzo, California
ACEH Case #RO0000255

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct."

Submitted by:

Paul Supple
Environmental Business Manger

Fourth Quarter 2008 Ground-Water Monitoring Report
Atlantic Richfield Company Station #608
17601 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

23 January 2009

Project No. 06-08-606

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

23 January 2009

Project No. 06-08-606

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

Attn.: Mr. Paul Supple

Re: Fourth Quarter 2008 Ground-Water Monitoring Report, Atlantic Richfield Company (a BP affiliated company) Station #608, 17601 Hesperian Blvd., San Lorenzo, Alameda County, California; ACEH Case #RO0000255

Dear Mr. Supple:

Provided herein is the *Fourth Quarter 2008 Ground-Water Monitoring Report* for Atlantic Richfield Company Station #608 located at 17601 Hesperian Boulevard, San Lorenzo, California (Site). This report presents results of ground-water monitoring conducted at the Site during the Fourth Quarter of 2008.

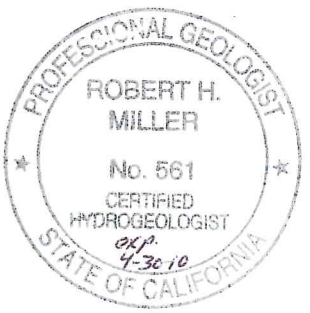
Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas A. Venus, P.E.
Senior Engineer

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



Enclosures

cc: Mr. Paresh Khatri, Alameda County Environmental Health (Submitted via ACEH ftp site)
Electronic copy uploaded to GeoTracker

STATION #608 QUARTERLY GROUND-WATER MONITORING REPORT

Facility: #608 Address:	17601 Hesperian Boulevard, San Lorenzo
Environmental Business Manager:	Mr. Paul Supple
Consulting Co./Contact Persons:	Broadbent & Associates, Inc.(BAI)/Rob Miller & Tom Venus (530) 566-1400
Consultant Project No.:	06-08-606
Primary Agency/Regulatory ID No.:	Alameda County Environmental Health (ACEH) ACEH Case #RO0000255
Facility Permits/Permitting Agency:	Oro Loma Sanitary District Permit #SDP-037

WORK PERFORMED THIS QUARTER (Fourth Quarter 2008):

1. Prepared and submitted *Third Quarter 2008 Ground-Water Monitoring Report* (BAI, 10/30/2008).
2. Conducted ground-water monitoring/sampling for Fourth Quarter 2008. Work performed on 2 December 2008 by Stratus Environmental, Inc (Stratus).
3. Conducted soil and water investigation on 12-13 November 2008 by Stratus
4. Prepared and submitted *Soil & Water Investigation Report with Private Well Status Update* (BAI, 12/15/2008).

WORK PROPOSED FOR NEXT QUARTER (First Quarter 2009):

1. Prepare and submit *Fourth Quarter 2008 Ground-Water Monitoring Report* (provided herein).
2. Conduct ground-water monitoring/sampling for First Quarter 2009.
3. Pursue case closure.

QUARTERLY RESULTS SUMMARY:

Current phase of project:	**Ground-water monitoring/sampling**
Frequency of ground-water monitoring:	**Quarterly: E-1A, MW-5, MW-8, MW-9, MW-10, MW-11, MW-14, MW-15, MW-16, MW-18, MW-21, MW-22, MW-23, MW-25, MW-26**
Frequency of ground-water sampling:	**See Schedule in Table 4**
Is free product (FP) present on-site:	**No**
Current remediation techniques:	**NA**
Depth to ground water (below TOC):	**9.64 ft (MW-14) to 12.26 ft (MW-5)**
General ground-water flow direction:	**West**
Approximate hydraulic gradient:	**0.003 ft/ft**

DISCUSSION:

Fourth Quarter 2008 ground-water monitoring and sampling was conducted at Station #608 on 2 December 2008 by Stratus personnel. Water levels were gauged in each of the fifteen wells associated with the Site. No irregularites were noted during water level gauging. Depth-to-water measurements ranged from 9.64 ft at MW-14 to 12.26 ft at MW-5. Resulting ground-water surface elevations ranged from 24.54 ft above mean sea level (msl) in well MW-25 to 20.53 ft above msl in wells MW-21 and MW-22. Water level elevations were between historic minimum and maximum ranges for each monitoring well gauged, as summarized in Table 1. Water level elevations yielded a potentiometric ground-water flow direction and gradient to the west at approximately 0.003 ft/ft, consistent with historical data. Historical ground-water flow directions and gradients are presented in Table 3. Ground-

water monitoring field data sheets are provided within Appendix A. Measured depths to ground-water and respective ground-water elevations are summarized in Table 1. Potentiometric ground-water elevation contours are presented in Drawing 1.

Consistent with the current sampling schedule presented in Table 4, water samples were collected from wells E-1A and MW-10. Well E-1A purged dry before three casing volumes were removed. No other irregularities were reported during sampling this quarter. Samples were submitted under chain-of-custody protocol to Calscience Environmental Laboratories, Inc. (Garden Grove, California), for analysis of Gasoline Range Organics (GRO, C6-12) by EPA Method 8015B; 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. No significant irregularities were encountered during laboratory analysis of the samples. Ground-water sampling field data sheets and the laboratory analytical report, including chain-of-custody documentation, are provided in Appendix A.

Gasoline range organics (GRO) were detected above the laboratory reporting limits in one of the two wells sampled at a concentration of 530 micrograms per liter (µg/L) in well MW-10. MTBE was detected above the laboratory reporting limit in each of the two wells sampled at concentrations of 0.92 µg/L in well E-1A and 5.6 µg/L in well MW-10. The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the two wells sampled this quarter. Detected analyte concentrations were within the historic minimum and maximum ranges recorded for each well. 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:

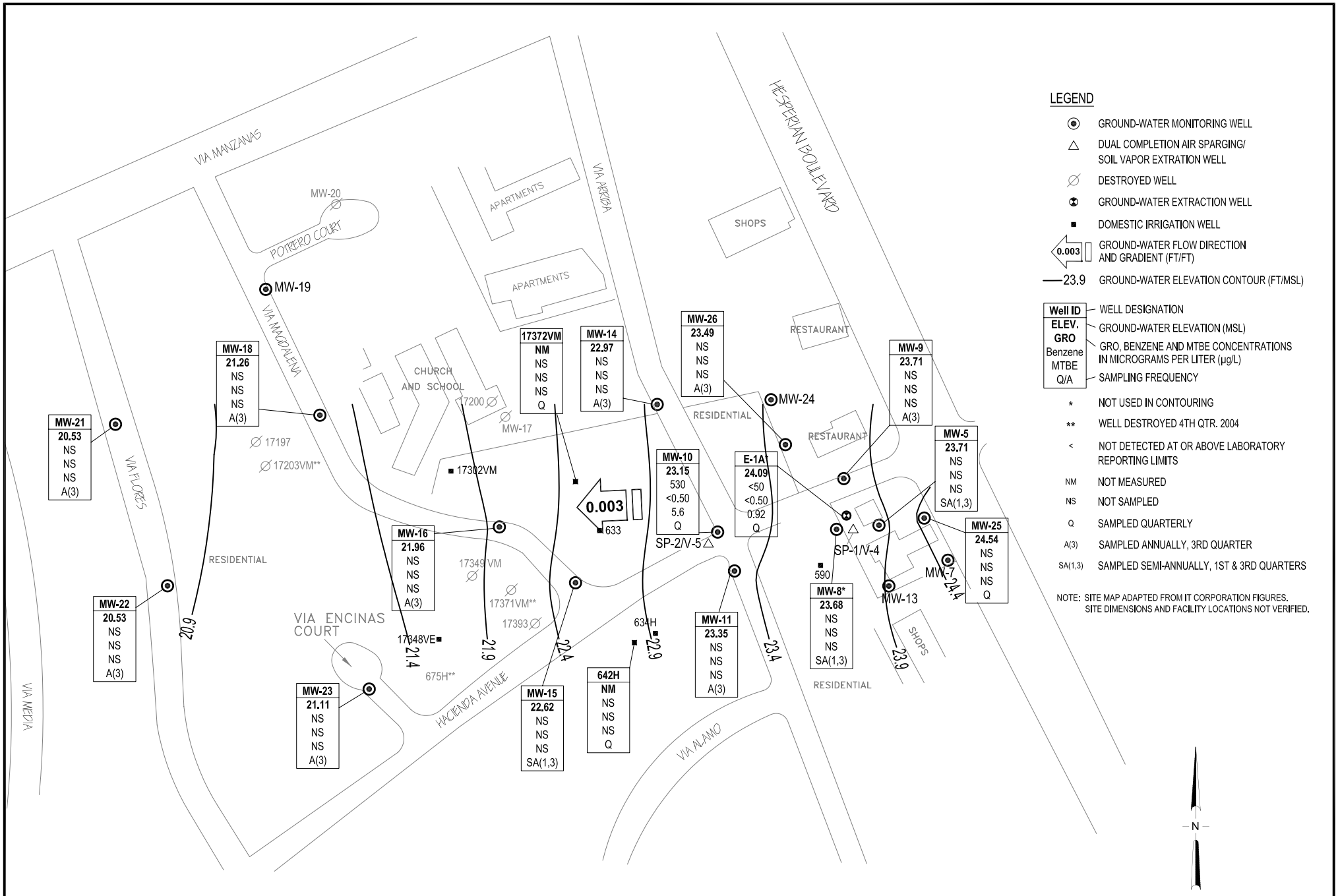
The findings presented in this report are based upon: observations of Stratus field personnel (see Appendix A), the points investigated, and results of laboratory tests performed by Calscience Environmental Laboratories, Inc. (Garden Grove, California). Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of Atlantic Richfield Company. It is possible that variations in soil or ground-water conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

ATTACHMENTS:

Drawing 1. Ground-Water Elevations and Analytical Summary Map, 2 December 2008, ARCO Service Station #608, 17601 Hesperian Boulevard, San Lorenzo, California

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #608, 17601 Hesperian Blvd., San Lorenzo, California

Table 2. Summary of Fuel Additives Analytical Data, Station #608, 17601 Hesperian Boulevard, San Lorenzo, California



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SCALE (ft)

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, California 95926
Project No.: 06-08-606 Date: 1/16/09

ARCO Service Station #608
17601 Hesperian Boulevard
San Lorenzo, California

Ground-Water Elevation Contours and Analytical Summary Map
2 December 2008

Drawing
1

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

Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
17349 VM															
3/13/2002	--		--	--	--	--	--	<50	1	<0.50	<0.50	<0.50	49	--	--
6/28/2002	--	l	--	--	--	--	--	66	0.50	<0.50	<0.50	<0.50	47/45	--	--
9/20/2002	--	k	--	--	--	--	--	--	--	--	--	--	--	--	--
17372 VM															
3/13/2002	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
6/28/2002	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
9/20/2002	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
12/30/2002	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
3/27/2003	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
9/15/2003	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
12/04/2003	NP		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.7	7.2
03/10/2004	--	m	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
06/10/2004	NP	m	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.1	6.9
09/22/2004	NP	m	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.6	7.2
12/13/2004	NP	m	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.76	7.6
03/10/2005	NP	m	--	--	--	--	--	<100	<0.50	<0.50	<0.50	<4.0	<0.50	7.5	8.0
06/29/2005	--	o	--	--	--	--	--	--	--	--	--	--	--	--	--
09/14/2005	--	o	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2005	--	o	--	--	--	--	--	--	--	--	--	--	--	--	--
03/20/2006	--	o	--	--	--	--	--	--	--	--	--	--	--	--	--
6/22/2006	--	o	--	--	--	--	--	--	--	--	--	--	--	--	--
9/22/2006	--	o	--	--	--	--	--	--	--	--	--	--	--	--	--
12/7/2006	--	j	--	--	--	--	--	--	--	--	--	--	--	--	--
642 H															
3/13/2002	--	j	--	--	--	--	--	--	--	--	--	--	--	--	--
6/28/2002	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
9/20/2002	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
12/30/2002	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
3/27/2003	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--

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

Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
642 H Cont.															
6/30/2003	--	j	--	--	--	--	--	--	--	--	--	--	--	--	--
9/15/2003	--		--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
12/04/2003	NP		--	--	--	14.75	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.2	7.1
06/10/2004	--	n	--	--	--	--	--	--	--	--	--	--	--	7.9	--
09/22/2004	--	o	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2004	--	o	--	--	--	--	--	--	--	--	--	--	--	--	--
03/10/2005	--	n	--	--	--	--	--	--	--	--	--	--	--	--	--
06/29/2005	--	n	--	--	--	--	--	--	--	--	--	--	--	--	--
09/14/2005	--	n	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2005	--	o	--	--	--	--	--	--	--	--	--	--	--	--	--
03/20/2006	--	o	--	--	--	--	--	--	--	--	--	--	--	--	--
6/22/2006	--	j	--	--	--	--	--	--	--	--	--	--	--	--	--
9/22/2006	--	j	--	--	--	--	--	--	--	--	--	--	--	--	--
12/7/2006	--	j	--	--	--	--	--	--	--	--	--	--	--	--	--
E-1A															
3/13/2002	--	a	33.06	--	--	21.75	11.31	200	<0.50	<0.50	<0.50	<0.50	310	--	--
6/28/2002	--	b	33.06	--	--	11.22	21.84	260	<0.50	11	1.2	1.2	150	--	--
9/20/2002	--		33.06	--	--	11.80	21.26	250	1.18	0.52	<0.5	<1.5	218	--	--
12/30/2002	--	c, e	33.06	--	--	16.33	16.73	190	<1.2	<1.2	<1.2	<1.2	190	--	--
3/27/2003	--	g	33.06	--	--	13.63	19.43	96	<0.50	<0.50	<0.50	<0.50	60	--	--
6/30/2003	P	h	33.06	--	--	9.60	23.46	140	<0.50	<0.50	<0.50	<0.50	37	--	--
9/15/2003	P	g	33.06	--	--	17.80	15.26	83	<0.50	<0.50	<0.50	<0.50	49	--	--
12/04/2003	NP	g	33.06	--	--	18.73	14.33	<50	<0.50	<0.50	<0.50	<0.50	19	4.3	7.0
03/10/2004	NP	g	34.30	--	--	16.78	17.52	<100	<1.0	<1.0	<1.0	<1.0	38	4.9	7.2
06/10/2004	NP	g, p	34.30	--	--	16.67	17.63	74	<0.50	<0.50	<0.50	<0.50	46	2.0	6.7
09/22/2004	NP		34.30	--	--	18.46	15.84	<50	<0.50	<0.50	<0.50	<0.50	17	--	7.0
12/13/2004	NP		34.30	--	--	17.56	16.74	<50	<0.50	<0.50	<0.50	<0.50	15	7.13	6.9
03/10/2005	NP		34.30	--	--	14.60	19.70	<100	<0.50	<0.50	<0.50	<4.0	22	6.6	8.0
06/29/2005	NP		34.30	--	--	15.13	19.17	<50	<0.50	0.91	<0.50	<0.50	14	6.73	7.3
09/14/2005	NP		34.30	--	--	16.90	17.40	<50	<0.50	<0.50	<0.50	<0.50	13	5.4	6.7

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

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								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
E-1A Cont.															
12/13/2005	NP		34.30	--	--	18.84	15.46	<50	<0.50	<0.50	<0.50	<0.50	12	8.3	7.1
03/20/2006	--	h	34.30	--	--	13.55	20.75	--	--	--	--	--	--	--	--
6/22/2006	NP		34.30	--	--	13.82	20.48	<50	<0.50	<0.50	<0.50	<0.50	13	5.2	7.5
9/22/2006	P		34.30	--	--	14.22	20.08	<50	<0.50	<0.50	<0.50	<0.50	12	2.65	7.7
12/7/2006	--	j	34.30	--	--	--	--	--	--	--	--	--	--	--	--
3/12/2007	P		34.30	--	--	11.72	22.58	61	<0.50	<0.50	<0.50	<0.50	5.6	--	--
6/20/2007	NP		34.30	--	--	18.71	15.59	<50	<0.50	<0.50	<0.50	<0.50	6.8	3.40	7.35
9/20/2007	NP		34.30	--	--	10.20	24.10	<50	<0.50	<0.50	<0.50	<0.50	0.80	1.21	7.47
12/14/2007	P		34.30	--	--	9.77	24.53	<50	<0.50	<0.50	<0.50	<0.50	2.0	2.87	7.27
3/10/2008	NP		34.30	--	--	9.00	25.30	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.43	7.11
3/26/2008	P	s	34.30	--	--	9.21	25.09	<50	<0.50	<0.50	<0.50	<0.50	0.89	4.20	7.26
6/13/2008	--	j	--	--	--	--	--	--	--	--	--	--	--	--	--
9/2/2008	P		34.30	--	--	10.72	23.58	<50	<0.50	<0.50	<0.50	<0.50	1.3	0.75	7.54
12/2/2008	**P**		**34.30**	**--**	**--**	**10.21**	**24.09**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**0.92**	**2.49**	**7.30**
MW-1															
3/15/1996	--		175.04	--	--	14.24	160.80	--	--	--	--	--	--	--	--
MW-5															
3/13/2002	--		33.99	--	--	11.46	22.53	530	<2.5	<2.5	<2.5	<2.5	230	--	--
6/28/2002	--	b	33.99	--	--	11.75	22.24	180	<1.0	2.6	<1.0	1.2	230	--	--
9/20/2002	--		33.99	--	--	12.15	21.84	<50	<0.50	<0.50	<0.50	<1.50	333	--	--
12/30/2002	--		33.99	--	--	9.73	24.26	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
3/27/2003	--		33.99	--	--	11.24	22.75	100	<0.50	<0.50	<0.50	<0.50	59	--	--
6/30/2003	--		33.99	--	--	11.62	22.37	91	<0.50	<0.50	<0.50	<0.50	58	--	--
9/15/2003	--		33.99	--	--	12.13	21.86	<250	<2.5	<2.5	<2.5	<2.5	61	--	--
12/04/2003	P		33.99	--	--	11.85	22.14	81	<0.50	<0.50	<0.50	<0.50	42	1.7	7.0
03/10/2004	P		35.97	--	--	10.34	25.63	<50	<0.50	<0.50	<0.50	<0.50	9.5	1.2	6.6
06/10/2004	P		35.97	--	--	11.65	24.32	55	<0.50	<0.50	<0.50	<0.50	31	1.3	7.0
09/22/2004	P		35.97	--	--	12.23	23.74	<50	<0.50	<0.50	<0.50	<0.50	15	0.8	6.8
12/13/2004	P		35.97	--	--	11.16	24.81	<50	<0.50	<0.50	<0.50	<0.50	5.4	3.76	6.8

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

Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-5 Cont.															
03/10/2005	P		35.97	--	--	9.90	26.07	<100	<0.50	<0.50	<0.50	<4.0	3.3	2.6	7.7
06/29/2005	P		35.97	--	--	11.35	24.62	<50	<0.50	<0.50	<0.50	<0.50	6.7	0.93	6.6
09/14/2005	P		35.97	--	--	11.80	24.17	<50	<0.50	0.91	<0.50	0.68	13	0.8	6.9
12/13/2005	--		35.97	--	--	11.60	24.37	--	--	--	--	--	--	--	--
03/20/2006	P		35.97	--	--	10.04	25.93	<50	<0.50	<0.50	<0.50	<0.50	3.8	0.8	7.1
6/22/2006	--		35.97	--	--	11.33	24.64	--	--	--	--	--	--	--	--
9/22/2006	P		35.97	--	--	11.57	24.40	<50	<0.50	<0.50	<0.50	<0.50	12	1.12	7.1
12/7/2006	--		35.97	--	--	11.71	24.26	--	--	--	--	--	--	--	--
3/12/2007	P		35.97	--	--	10.86	25.11	<50	<0.50	0.60	<0.50	<0.50	5.8	2.55	7.17
6/20/2007	--		35.97	--	--	11.82	24.15	--	--	--	--	--	--	--	--
9/20/2007	NP		35.97	--	--	12.20	23.77	<50	<0.50	0.77	<0.50	<0.50	4.3	1.18	7.30
12/14/2007	--		35.97	--	--	12.27	23.70	--	--	--	--	--	--	--	--
3/10/2008	P		35.97	--	--	11.00	24.97	110	<0.50	<0.50	<0.50	<0.50	2.8	0.95	6.95
9/2/2008	P		35.97	--	--	12.39	23.58	190	0.53	1.9	<0.50	<0.50	11	1.35	7.06
12/2/2008	--		**35.97**	--	--	**12.26**	**23.71**	--	--	--	--	--	--	--	--
MW-8															
3/13/2002	--		32.79	--	--	10.30	22.49	500	<2.5	<2.5	<2.5	<2.5	1,100	--	--
6/28/2002	--	b	32.79	--	--	10.30	22.49	150	<0.50	2.9	0.54	1.5	130	--	--
9/20/2002	--		32.79	--	--	10.84	21.95	<50	<0.50	<0.50	<0.50	<1.50	273	--	--
12/30/2002	--		32.79	--	--	8.31	24.48	<50	<0.50	<0.50	<0.50	<0.50	5.5	--	--
3/27/2003	--		32.79	--	--	9.85	22.94	63	<0.50	<0.50	<0.50	<0.50	33	--	--
6/30/2003	--		32.79	--	--	10.20	22.59	<50	<0.50	<0.50	<0.50	<0.50	15	--	--
9/15/2003	--		32.79	--	--	10.69	22.10	59	<0.50	<0.50	<0.50	<0.50	41	--	--
12/04/2003	P		32.79	--	--	10.43	22.36	<50	<0.50	<0.50	<0.50	<0.50	24	1.0	7.0
03/10/2004	P		34.47	--	--	9.04	25.43	<50	<0.50	<0.50	<0.50	<0.50	2.4	0.9	6.8
06/10/2004	P		34.47	--	--	10.40	24.07	<50	<0.50	<0.50	<0.50	<0.50	2.1	0.6	7.0
09/22/2004	P		34.47	--	--	10.74	23.73	84	<0.50	<0.50	<0.50	<0.50	18	0.9	6.9
12/13/2004	P		34.47	--	--	9.73	24.74	<50	<0.50	<0.50	<0.50	<0.50	7.1	0.95	6.8
03/10/2005	P		34.47	--	--	8.17	26.30	<100	<0.50	<0.50	<0.50	<4.0	1.4	2.0	7.4
06/29/2005	P		34.47	--	--	9.93	24.54	<50	<0.50	<0.50	<0.50	<0.50	1.7	1.72	7.0

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

Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-8 Cont.															
09/14/2005	P		34.47	--	--	10.35	24.12	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.9	7.0
12/13/2005	--		34.47	--	--	10.18	24.29	--	--	--	--	--	--	--	--
03/20/2006	P		34.47	--	--	8.65	25.82	<50	<0.50	<0.50	<0.50	<0.50	0.60	1.8	7.1
6/22/2006	--		34.47	--	--	9.91	24.56	--	--	--	--	--	--	--	--
9/22/2006	P		34.47	--	--	10.25	24.22	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.10	7.0
12/7/2006	--		34.47	--	--	10.21	24.26	--	--	--	--	--	--	--	--
3/12/2007	P		34.47	--	--	9.46	25.01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.96	7.54
6/20/2007	--		34.47	--	--	10.39	24.08	--	--	--	--	--	--	--	--
9/20/2007	P		34.47	--	--	10.75	23.72	<50	<0.50	<0.50	<0.50	<0.50	13	2.19	7.49
12/14/2007	--		34.47	--	--	10.71	23.76	--	--	--	--	--	--	--	--
3/10/2008	P		34.47	--	--	9.62	24.85	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.67	7.08
9/2/2008	P		34.47	--	--	10.95	23.52	<50	<0.50	<0.50	<0.50	<0.50	8.6	1.03	7.37
12/2/2008	--		**34.47**	--	--	**10.79**	**23.68**	--	--	--	--	--	--	--	--
MW-9															
3/13/2002	--		32.11	--	--	9.49	22.62	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
6/28/2002	--		32.11	--	--	9.78	22.33	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
9/20/2002	--		32.11	--	--	10.29	21.82	<50	<0.50	<0.50	<0.50	<1.50	<0.500	--	--
12/30/2002	--		32.11	--	--	7.60	24.51	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
3/27/2003	--		32.11	--	--	9.14	22.97	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
6/30/2003	--	u	32.11	--	--	9.64	22.47	--	--	--	--	--	--	--	--
9/15/2003	--		32.11	--	--	10.12	21.99	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
12/04/2003	--	u	32.11	--	--	--	--	--	--	--	--	--	--	--	--
03/10/2004	P		34.00	--	--	8.46	25.54	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	7.3
06/10/2004	--	u	34.00	--	--	9.88	24.12	--	--	--	--	--	--	--	--
09/22/2004	P		34.00	--	--	10.05	23.95	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	7.0
12/13/2004	--	u	34.00	--	--	9.17	24.83	--	--	--	--	--	--	--	--
03/10/2005	P		34.00	--	--	8.17	25.83	<100	<0.50	<0.50	<0.50	<4.0	<0.50	2.2	7.7
06/29/2005	--		34.00	--	--	9.28	24.72	--	--	--	--	--	--	--	--
09/14/2005	P		34.00	--	--	9.70	24.30	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	6.8
12/13/2005	--		34.00	--	--	9.64	24.36	--	--	--	--	--	--	--	--

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Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-9 Cont.															
03/20/2006	--		34.00	--	--	8.23	25.77	--	--	--	--	--	--	--	--
6/22/2006	--		34.00	--	--	9.37	24.63	--	--	--	--	--	--	--	--
9/22/2006	P		34.00	--	--	9.74	24.26	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.38	7.2
12/7/2006	--		34.00	--	--	9.67	24.33	--	--	--	--	--	--	--	--
3/12/2007	--		34.00	--	--	8.93	25.07	--	--	--	--	--	--	--	--
6/20/2007	--		34.00	--	--	9.88	24.12	--	--	--	--	--	--	--	--
9/20/2007	P		34.00	--	--	10.21	23.79	<50	<0.50	<0.50	<0.50	<0.50	<0.50	10.67	7.25
12/14/2007	--		34.00	--	--	10.28	23.72	--	--	--	--	--	--	--	--
3/10/2008	--		34.00	--	--	9.10	24.90	--	--	--	--	--	--	--	--
12/2/2008	--		**34.00**	--	--	**10.29**	**23.71**	--	--	--	--	--	--	--	--
MW-10															
3/13/2002	--		31.67	--	--	9.68	21.99	680	<5.0	<5.0	<5.0	<5.0	570	--	--
6/28/2002	--	b	31.67	--	--	9.84	21.83	820	<2.0	<2.0	<2.0	<2.0	1,200	--	--
9/20/2002	--		31.67	--	--	10.37	21.30	194	<0.50	<0.50	<0.50	<1.50	575	--	--
12/30/2002	--		31.67	--	--	7.70	23.97	<50	<0.50	<0.50	<0.50	<0.50	490	--	--
3/27/2003	--		31.67	--	--	9.33	22.34	530	<5.0	<5.0	<5.0	<5.0	330	--	--
6/30/2003	--		31.67	--	--	9.75	21.92	<1,000	<10	<10	<10	<10	750	--	--
9/15/2003	P		31.67	--	--	10.17	21.50	<500	<5.0	<5.0	<5.0	<5.0	430	--	--
12/04/2003	P		31.67	--	--	9.95	21.72	<250	<2.5	<2.5	<2.5	<2.5	110	--	6.9
03/10/2004	P		33.50	--	--	8.57	24.93	420	<2.5	<2.5	<2.5	<2.5	140	1.2	6.5
06/10/2004	--		33.50	--	--	9.95	23.55	600	<5.0	<5.0	<5.0	<5.0	410	--	6.9
09/22/2004	P		33.50	--	--	10.23	23.27	560	<0.50	<0.50	<0.50	<0.50	87	0.8	6.9
12/13/2004	P		33.50	--	--	9.28	24.22	290	<1.0	<1.0	<1.0	<1.0	110	1.6	6.5
03/10/2005	P		33.50	--	--	7.97	25.53	280	<0.50	<0.50	<0.50	<4.0	86	3.2	7.3
06/29/2005	P		33.50	--	--	9.45	24.05	<250	<2.5	<2.5	<2.5	<2.5	160	1.13	6.8
09/14/2005	P		33.50	--	--	9.92	23.58	340	<2.5	<2.5	<2.5	<2.5	140	0.7	6.9
12/13/2005	P		33.50	--	--	9.73	23.77	270	<0.50	<0.50	<0.50	<0.50	47	1.8	6.5
03/20/2006	P		33.50	--	--	8.17	25.33	270	<0.50	<0.50	<0.50	<0.50	34	1.1	6.9
6/22/2006	P		33.50	--	--	9.42	24.08	250	<0.50	<0.50	<0.50	<0.50	21	1.74	7.0
9/22/2006	P		33.50	--	--	9.88	23.62	270	<0.50	<0.50	<0.50	<0.50	11	1.39	7.0

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								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-10 Cont.															
12/7/2006	P		33.50	--	--	9.78	23.72	360	<0.50	<0.50	<0.50	<0.50	10	0.89	7.10
3/12/2007	P		33.50	--	--	9.00	24.50	300	<0.50	<0.50	<0.50	<0.50	18	0.98	7.25
6/20/2007	P		33.50	--	--	9.94	23.56	300	<0.50	<0.50	<0.50	<0.50	5.9	6.47	7.18
9/20/2007	P		33.50	--	--	10.24	23.26	250	<0.50	<0.50	<0.50	<0.50	4.6	2.46	7.29
12/14/2007	P		33.50	--	--	9.90	23.60	280	<0.50	<0.50	<0.50	<0.50	6.9	1.80	6.98
3/10/2008	P		33.50	--	--	9.18	24.32	330	<0.50	<0.50	<0.50	<0.50	13	0.27	6.88
6/13/2008	P		33.50	--	--	10.05	23.45	410	<0.50	<0.50	<0.50	<0.50	5.8	0.79	7.15
9/2/2008	P		33.50	--	--	10.46	23.04	840	<0.50	<0.50	<0.50	<0.50	6.5	1.59	7.15
12/2/2008	**P**		**33.50**	**--**	**--**	**10.35**	**23.15**	**530**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**5.6**	**1.67**	**6.94**
MW-11															
3/13/2002	--		32.54	--	--	10.38	22.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
6/28/2002	--		32.54	--	--	10.74	21.80	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
9/20/2002	--		32.54	--	--	11.27	21.27	<50	<0.50	<0.50	<0.50	<1.50	<0.500	--	--
12/30/2002	--		32.54	--	--	8.73	23.81	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
3/27/2003	--		32.54	--	--	10.25	22.29	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
6/30/2003	--		32.54	--	--	10.65	21.89	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
9/15/2003	--		32.54	--	--	11.03	21.51	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
12/04/2003	P		32.54	--	--	10.84	21.70	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	7.0
03/10/2004	P		34.55	--	--	9.41	25.14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	6.9
06/10/2004	--		34.55	--	--	10.82	23.73	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	6.9
09/22/2004	P		34.55	--	--	11.10	23.45	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	6.9
12/13/2004	P		34.55	--	--	10.19	24.36	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.83	6.6
03/10/2005	P		34.55	--	--	8.87	25.68	<100	<0.50	<0.50	<0.50	<4.0	<0.50	2.3	7.7
06/29/2005	P		34.55	--	--	10.37	24.18	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.83	6.3
09/14/2005	P		34.55	--	--	10.78	23.77	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.8	6.9
12/13/2005	--		34.55	--	--	10.62	23.93	--	--	--	--	--	--	--	--
03/20/2006	--		34.55	--	--	9.04	25.51	--	--	--	--	--	--	--	--
6/22/2006	--		34.55	--	--	10.33	24.22	--	--	--	--	--	--	--	--
9/22/2006	P		34.55	--	--	10.75	23.80	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.53	7.2
12/7/2006	--		34.55	--	--	10.68	23.87	--	--	--	--	--	--	--	--

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Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-11 Cont.															
3/12/2007	--		34.55	--	--	9.89	24.66	--	--	--	--	--	--	--	--
6/20/2007	--		34.55	--	--	10.84	23.71	--	--	--	--	--	--	--	--
9/20/2007	P		34.55	--	--	11.15	23.40	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.32	7.26
12/14/2007	--		34.55	--	--	11.10	23.45	--	--	--	--	--	--	--	--
3/10/2008	--		34.55	--	--	10.05	24.50	--	--	--	--	--	--	--	--
12/2/2008	--		**34.55**	--	--	**11.20**	**23.35**	--	--	--	--	--	--	--	--
MW-14															
3/13/2002	--		30.46	--	--	8.56	21.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
6/28/2002	--	q	30.46	--	--	9.12	21.34	--	--	--	--	--	--	--	--
9/20/2002	--	q	30.46	--	--	9.79	20.67	--	--	--	--	--	--	--	--
12/30/2002	--	q	30.46	--	--	7.13	23.33	--	--	--	--	--	--	--	--
3/27/2003	--		30.46	--	--	8.53	21.93	<50	<0.50	0.86	<0.50	<0.50	<0.50	--	--
6/30/2003	--	q	30.46	--	--	9.05	21.41	--	--	--	--	--	--	--	--
9/15/2003	--	q	30.46	--	--	9.47	20.99	--	--	--	--	--	--	--	--
12/04/2003	--	q	30.46	--	--	9.20	21.26	--	--	--	--	--	--	--	--
03/10/2004	--	q	32.61	--	--	7.90	24.71	--	--	--	--	--	--	--	--
06/10/2004	--	q	32.61	--	--	9.25	23.36	--	--	--	--	--	--	--	--
09/22/2004	P		32.61	--	--	9.55	23.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	--
12/13/2004	--		32.61	--	--	8.46	24.15	--	--	--	--	--	--	--	--
03/10/2005	--		32.61	--	--	7.32	25.29	--	--	--	--	--	--	--	--
06/29/2005	--		32.61	--	--	8.77	23.84	--	--	--	--	--	--	--	--
09/14/2005	P		32.61	--	--	9.20	23.41	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.9	6.9
12/13/2005	--		32.61	--	--	8.96	23.65	--	--	--	--	--	--	--	--
03/20/2006	--		32.61	--	--	7.51	25.10	--	--	--	--	--	--	--	--
6/22/2006	--		32.61	--	--	8.75	23.86	--	--	--	--	--	--	--	--
9/22/2006	P		32.61	--	--	9.19	23.42	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.70	7.2
12/7/2006	--		32.61	--	--	9.05	23.56	--	--	--	--	--	--	--	--
3/12/2007	--		32.61	--	--	8.35	24.26	--	--	--	--	--	--	--	--
6/20/2007	--		32.61	--	--	9.33	23.28	--	--	--	--	--	--	--	--
9/20/2007	P		32.61	--	--	9.60	23.01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.24	7.42

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								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-14 Cont.															
12/14/2007	--		32.61	--	--	9.53	23.08	--	--	--	--	--	--	--	--
3/10/2008	--		32.61	--	--	8.50	24.11	--	--	--	--	--	--	--	--
12/2/2008	--		**32.61**	--	--	**9.64**	**22.97**	--	--	--	--	--	--	--	--
MW-15															
3/13/2002	--		31.41	--	--	10.03	21.38	<50	<0.50	<0.50	<0.50	<0.50	21	--	--
6/28/2002	--		31.41	--	--	10.41	21.00	<50	<0.50	<0.50	<0.50	<0.50	8.7	--	--
9/20/2002	--		31.41	--	--	11.00	20.41	<50	<0.50	<0.50	<0.50	<1.50	21.6	--	--
12/30/2002	--		31.41	--	--	8.33	23.08	<50	<0.50	<0.50	<0.50	<0.50	67	--	--
3/27/2003	--		31.41	--	--	9.83	21.58	<50	<0.50	<0.50	<0.50	<0.50	17	--	--
6/30/2003	--		31.41	--	--	10.00	21.41	<50	<0.50	<0.50	<0.50	<0.50	12	--	--
9/15/2003	--		31.41	--	--	10.67	20.74	<50	<0.50	<0.50	<0.50	<0.50	10	--	--
12/04/2003	P		31.41	--	--	10.47	20.94	<50	<0.50	<0.50	<0.50	<0.50	6.4	2.6	7.0
03/10/2004	P		33.49	--	--	9.09	24.40	<50	<0.50	<0.50	<0.50	<0.50	11	1.5	6.9
06/10/2004	P		33.49	--	--	10.50	22.99	<50	<0.50	<0.50	<0.50	<0.50	5.7	0.5	6.9
09/22/2004	--	r	33.49	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2004	--	r	33.49	--	--	--	--	--	--	--	--	--	--	--	--
03/10/2005	P		33.49	--	--	8.50	24.99	<100	<0.50	<0.50	<0.50	<4.0	5.4	2.7	7.7
06/29/2005	--	r	33.49	--	--	--	--	--	--	--	--	--	--	--	--
09/14/2005	--	r	33.49	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2005	--		33.49	--	--	10.16	23.33	--	--	--	--	--	--	--	--
03/20/2006	P		33.49	--	--	8.72	24.77	<50	<0.50	<0.50	<0.50	<0.50	15	3.1	7.3
6/22/2006	--		33.49	--	--	10.00	23.49	--	--	--	--	--	--	--	--
9/22/2006	--	j	--	--	--	--	--	--	--	--	--	--	--	--	--
12/7/2006	--		33.49	--	--	10.32	23.17	--	--	--	--	--	--	--	--
3/12/2007	--	j	33.49	--	--	9.60	23.89	--	--	--	--	--	--	--	--
6/20/2007	--		33.49	--	--	10.52	22.97	--	--	--	--	--	--	--	--
9/20/2007	P		33.49	--	--	10.83	22.66	<50	<0.50	<0.50	<0.50	<0.50	11	0.64	7.19
12/14/2007	--		33.49	--	--	10.78	22.71	--	--	--	--	--	--	--	--
3/10/2008	P		33.49	--	--	9.75	23.74	<50	<0.50	<0.50	<0.50	<0.50	19	0.72	6.88
9/2/2008	--	r	33.49	--	--	--	--	--	--	--	--	--	--	--	--

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Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-15 Cont.															
12/2/2008	--		**33.49**	--	--	**10.87**	**22.62**	--	--	--	--	--	--	--	--
MW-16															
3/13/2002	--		31.39	--	--	10.51	20.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
6/28/2002	--		31.39	--	--	10.96	20.43	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
9/20/2002	--		31.39	--	--	10.47	20.92	<50	<0.50	<0.50	<0.50	<1.50	1.67	--	--
12/30/2002	--		31.39	--	--	--	--	--	--	--	--	--	--	--	--
3/27/2003	--		31.39	--	--	10.28	21.11	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
6/30/2003	--	i, q	31.39	--	--	10.87	20.52	--	--	--	--	--	--	--	--
9/15/2003	--		31.39	--	--	11.25	20.14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
12/04/2003	--	u	31.39	--	--	10.99	20.40	--	--	--	--	--	--	--	--
03/10/2004	P		33.41	--	--	9.66	23.75	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.1	6.5
06/10/2004	--		33.41	--	--	11.06	22.35	--	--	--	--	--	--	--	--
09/22/2004	P		33.41	--	--	11.40	22.01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	7.0
12/13/2004	--		33.41	--	--	10.27	23.14	--	--	--	--	--	--	--	--
03/10/2005	P		33.41	--	--	9.03	24.38	<100	<0.50	<0.50	<0.50	<4.0	<0.50	3.9	7.0
06/29/2005	--		33.41	--	--	10.60	22.81	--	--	--	--	--	--	--	--
09/14/2005	P		33.41	--	--	11.02	22.39	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.9	7.0
12/13/2005	--		33.41	--	--	10.79	22.62	--	--	--	--	--	--	--	--
03/20/2006	--		33.41	--	--	9.25	24.16	--	--	--	--	--	--	--	--
6/22/2006	--	r	33.41	--	--	--	--	--	--	--	--	--	--	--	--
9/22/2006	P		33.41	--	--	10.95	22.46	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.69	7.3
12/7/2006	--	r	33.41	--	--	--	--	--	--	--	--	--	--	--	--
3/12/2007	--		33.41	--	--	10.18	23.23	--	--	--	--	--	--	--	--
6/20/2007	--		33.41	--	--	11.10	22.31	--	--	--	--	--	--	--	--
9/20/2007	P		33.41	--	--	11.44	21.97	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.55	7.30
12/14/2007	--		33.41	--	--	11.41	22.00	--	--	--	--	--	--	--	--
3/10/2008	--		33.41	--	--	10.35	23.06	--	--	--	--	--	--	--	--
9/2/2008	P		33.41	--	--	11.61	21.80	<50	<0.50	<0.50	<0.50	<0.50	0.63	1.27	7.30
12/2/2008	--		**33.41**	--	--	**11.45**	**21.96**	--	--	--	--	--	--	--	--

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								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-18															
3/13/2002	--		29.70	--	--	9.46	20.24	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
6/28/2002	--	q	29.70	--	--	10.05	19.65	--	--	--	--	--	--	--	--
9/20/2002	--	q	29.70	--	--	10.67	19.03	--	--	--	--	--	--	--	--
12/30/2002	--	q	29.70	--	--	7.98	21.72	--	--	--	--	--	--	--	--
3/27/2003	--		29.70	--	--	9.18	20.52	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
6/30/2003	--	q	29.70	--	--	9.68	20.02	--	--	--	--	--	--	--	--
9/15/2003	--	q	29.70	--	--	10.30	19.40	--	--	--	--	--	--	--	--
12/04/2003	--	q	29.70	--	--	9.99	19.71	--	--	--	--	--	--	--	--
03/10/2004	--	q	31.87	--	--	8.78	23.09	--	--	--	--	--	--	--	--
06/10/2004	--	q	31.87	--	--	10.12	21.75	--	--	--	--	--	--	--	--
09/22/2004	P		31.87	--	--	10.45	21.42	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	6.9
12/13/2004	--		31.87	--	--	9.25	22.62	--	--	--	--	--	--	--	--
03/10/2005	--		31.87	--	--	8.35	23.52	--	--	--	--	--	--	--	--
06/29/2005	--		31.87	--	--	9.65	22.22	--	--	--	--	--	--	--	--
09/14/2005	P		31.87	--	--	10.10	21.77	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	6.9
12/13/2005	--		31.87	--	--	9.90	21.97	--	--	--	--	--	--	--	--
03/20/2006	--		31.87	--	--	8.54	23.33	--	--	--	--	--	--	--	--
6/22/2006	--		31.87	--	--	9.68	22.19	--	--	--	--	--	--	--	--
9/22/2006	P		31.87	--	--	9.96	21.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.23	7.2
12/7/2006	--		31.87	--	--	--	--	--	--	--	--	--	--	--	--
3/12/2007	--		31.87	--	--	9.28	22.59	--	--	--	--	--	--	--	--
6/20/2007	--		31.87	--	--	10.15	21.72	--	--	--	--	--	--	--	--
9/20/2007	P		31.87	--	--	10.45	21.42	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.14	7.22
12/14/2007	--		31.87	--	--	10.47	21.40	--	--	--	--	--	--	--	--
3/10/2008	--		31.87	--	--	9.42	22.45	--	--	--	--	--	--	--	--
12/2/2008	--		**31.87**	--	--	**10.61**	**21.26**	--	--	--	--	--	--	--	--
MW-21															
3/13/2002	--		28.72	--	--	9.40	19.32	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--
6/28/2002	--	q	28.72	--	--	9.80	18.92	--	--	--	--	--	--	--	--
9/20/2002	--	q	28.72	--	--	10.27	18.45	--	--	--	--	--	--	--	--

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								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-21 Cont.															
12/30/2002	--	q	28.72	--	--	7.70	21.02	--	--	--	--	--	--	--	--
3/27/2003	--		28.72	--	--	9.05	19.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
6/30/2003	--	q	28.72	--	--	9.48	19.24	--	--	--	--	--	--	--	--
9/15/2003	--	q	28.72	--	--	10.06	18.66	--	--	--	--	--	--	--	--
12/04/2003	--	q	28.72	--	--	9.69	19.03	--	--	--	--	--	--	--	--
03/10/2004	--	q	30.67	--	--	8.60	22.07	--	--	--	--	--	--	--	--
06/10/2004	--	q	30.67	--	--	9.85	20.82	--	--	--	--	--	--	--	--
09/22/2004	P		30.67	--	--	10.17	20.50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.2	6.9
12/13/2004	--		30.67	--	--	8.92	21.75	--	--	--	--	--	--	--	--
03/10/2005	--		30.67	--	--	8.10	22.57	--	--	--	--	--	--	--	--
06/29/2005	--		30.67	--	--	9.48	21.19	--	--	--	--	--	--	--	--
09/14/2005	P		30.67	--	--	9.88	20.79	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.8	6.9
12/13/2005	--		30.67	--	--	9.57	21.10	--	--	--	--	--	--	--	--
03/20/2006	--		30.67	--	--	8.26	22.41	--	--	--	--	--	--	--	--
6/22/2006	--		30.67	--	--	9.47	21.20	--	--	--	--	--	--	--	--
9/22/2006	P		30.67	--	--	9.83	20.84	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.88	5.9
12/7/2006	--		30.67	--	--	9.76	20.91	--	--	--	--	--	--	--	--
3/12/2007	--		30.67	--	--	9.08	21.59	--	--	--	--	--	--	--	--
6/20/2007	--		30.67	--	--	9.89	20.78	--	--	--	--	--	--	--	--
9/20/2007	P		30.67	--	--	10.20	20.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.28	7.56
12/14/2007	--		30.67	--	--	10.18	20.49	--	--	--	--	--	--	--	--
3/10/2008	--		30.67	--	--	9.23	21.44	--	--	--	--	--	--	--	--
12/2/2008	--		**30.67**	--	--	**10.14**	**20.53**	--	--	--	--	--	--	--	--
MW-22															
3/13/2002	--		29.29	--	--	9.86	19.43	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
6/28/2002	--		29.29	--	--	10.65	18.64	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
9/20/2002	--		29.29	--	--	11.05	18.24	<50	<0.50	<0.50	<0.50	<1.50	<0.500	--	--
12/30/2002	--		29.29	--	--	8.28	21.01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
3/27/2003	--		29.29	--	--	9.85	19.44	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
6/30/2003	--	i, q	29.29	--	--	10.20	19.09	--	--	--	--	--	--	--	--

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								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-22 Cont.															
9/15/2003	--		29.29	--	--	10.81	18.48	<500	<5.0	<5.0	<5.0	<5.0	<5.0	--	--
12/04/2003	--		29.29	--	--	10.49	18.80	--	--	--	--	--	--	--	--
03/10/2004	P		31.43	--	--	9.24	22.19	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	6.6
06/10/2004	--		31.43	--	--	10.60	20.83	--	--	--	--	--	--	--	--
09/22/2004	P		31.43	--	--	10.94	20.49	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.9	7.0
12/13/2004	--		31.43	--	--	9.73	21.70	--	--	--	--	--	--	--	--
03/10/2005	P		31.43	--	--	8.65	22.78	<100	<0.50	<0.50	<0.50	<4.0	<0.50	3.3	7.4
06/29/2005	--		31.43	--	--	10.25	21.18	--	--	--	--	--	--	--	--
09/14/2005	P		31.43	--	--	10.65	20.78	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	7.0
12/13/2005	--		31.43	--	--	10.39	21.04	--	--	--	--	--	--	--	--
03/20/2006	--		31.43	--	--	8.89	22.54	--	--	--	--	--	--	--	--
6/22/2006	--		31.43	--	--	10.21	21.22	--	--	--	--	--	--	--	--
9/22/2006	P		31.43	--	--	10.62	20.81	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.13	7.2
12/7/2006	--		31.43	--	--	10.44	20.99	--	--	--	--	--	--	--	--
3/12/2007	--		31.43	--	--	9.75	21.68	--	--	--	--	--	--	--	--
6/20/2007	--		31.43	--	--	10.64	20.79	--	--	--	--	--	--	--	--
9/20/2007	P		31.43	--	--	10.95	20.48	<50	<0.50	<0.50	<0.50	<0.50	<0.50	10.88	7.40
12/14/2007	--		31.43	--	--	11.03	20.40	--	--	--	--	--	--	--	--
3/10/2008	--		31.43	--	--	9.90	21.53	--	--	--	--	--	--	--	--
12/2/2008	--		**31.43**	--	--	**10.90**	**20.53**	--	--	--	--	--	--	--	--
MW-23															
3/13/2002	--		30.99	--	--	11.01	19.98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
6/28/2002	--	q	30.99	--	--	11.59	19.40	--	--	--	--	--	--	--	--
9/20/2002	--	q	30.99	--	--	12.00	18.99	--	--	--	--	--	--	--	--
12/30/2002	--	q	30.99	--	--	9.42	21.57	--	--	--	--	--	--	--	--
3/27/2003	--		30.99	--	--	11.00	19.99	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
6/30/2003	--	q	30.99	--	--	11.47	19.52	--	--	--	--	--	--	--	--
9/15/2003	--	q	30.99	--	--	11.84	19.15	--	--	--	--	--	--	--	--
12/04/2003	--	q	30.99	--	--	11.61	19.38	--	--	--	--	--	--	--	--
03/10/2004	--	q	33.16	--	--	10.24	22.92	--	--	--	--	--	--	--	--

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								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-23 Cont.															
06/10/2004	--	q	33.16	--	--	11.60	21.56	--	--	--	--	--	--	--	--
09/22/2004	P		33.16	--	--	11.95	21.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	6.9
12/13/2004	--		33.16	--	--	10.88	22.28	--	--	--	--	--	--	--	--
03/10/2005	--		33.16	--	--	9.63	23.53	--	--	--	--	--	--	--	--
06/29/2005	--		33.16	--	--	11.28	21.88	--	--	--	--	--	--	--	--
09/14/2005	P		33.16	--	--	11.70	21.46	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	6.9
12/13/2005	--		33.16	--	--	11.44	21.72	--	--	--	--	--	--	--	--
03/20/2006	--		33.16	--	--	9.81	23.35	--	--	--	--	--	--	--	--
6/22/2006	--		33.16	--	--	11.25	21.91	--	--	--	--	--	--	--	--
9/22/2006	P		33.16	--	--	11.52	21.64	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.71	7.3
12/7/2006	--		33.16	--	--	11.50	21.66	--	--	--	--	--	--	--	--
3/12/2007	--		33.16	--	--	10.76	22.40	--	--	--	--	--	--	--	--
6/20/2007	--		33.16	--	--	11.68	21.48	--	--	--	--	--	--	--	--
9/20/2007	P		33.16	--	--	11.95	21.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.96	7.19
12/14/2007	--		33.16	--	--	12.05	21.11	--	--	--	--	--	--	--	--
3/10/2008	--		33.16	--	--	10.92	22.24	--	--	--	--	--	--	--	--
12/2/2008	--		**33.16**	--	--	**12.05**	**21.11**	--	--	--	--	--	--	--	--
MW-25															
3/13/2002	--		33.81	--	--	10.99	22.82	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
6/28/2002	--		33.81	--	--	11.26	22.55	<50	<0.50	<0.50	<0.50	<0.50	36	--	--
9/20/2002	--		33.81	--	--	11.65	22.16	117	<0.50	<0.50	<0.50	<1.50	259	--	--
12/30/2002	--	d, f	33.81	--	--	9.33	24.48	95	13	<0.50	<0.50	<0.50	98	--	--
3/27/2003	--		33.81	--	--	10.82	22.99	150	<0.50	<0.50	<0.50	<0.50	90	--	--
6/30/2003	--		33.81	--	--	11.20	22.61	<500	<5.0	<5.0	<5.0	<5.0	130	--	--
9/15/2003	--		33.81	--	--	11.62	22.19	220	<1.0	<1.0	<1.0	<1.0	140	--	--
12/04/2003	P		33.81	--	--	11.41	22.40	81	<0.50	<0.50	<0.50	<0.50	36	1.2	7.0
03/10/2004	P		36.33	--	--	10.04	26.29	<50	<0.50	<0.50	<0.50	<0.50	14	1.2	6.7
06/10/2004	P		36.33	--	--	11.40	24.93	<50	<0.50	<0.50	<0.50	<0.50	17	0.8	7.1
09/22/2004	P		36.33	--	--	11.74	24.59	<50	<0.50	<0.50	<0.50	<0.50	29	1.1	7.0
12/13/2004	P		36.33	--	--	10.72	25.61	<50	<0.50	<0.50	<0.50	<0.50	44	1.22	6.9

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

Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-25 Cont.															
03/10/2005	P		36.33	--	--	9.45	26.88	<100	<0.50	<0.50	<0.50	<4.0	7.4	2.0	7.7
06/29/2005	P		36.33	--	--	10.91	25.42	<50	<0.50	<0.50	<0.50	<0.50	20	0.97	6.9
09/14/2005	P		36.33	--	--	11.35	24.98	<50	<0.50	<0.50	<0.50	<0.50	8.0	1.2	6.9
12/13/2005	P		36.33	--	--	11.14	25.19	<50	<0.50	<0.50	<0.50	<0.50	13	0.8	6.8
03/20/2006	P		36.33	--	--	9.71	26.62	<50	<0.50	<0.50	<0.50	<0.50	5.4	1.0	6.9
6/22/2006	P		36.33	--	--	10.89	25.44	<50	<0.50	<0.50	<0.50	<0.50	3.5	1.62	7.0
9/22/2006	P		36.33	--	--	11.33	25.00	<50	<0.50	<0.50	<0.50	<0.50	18	1.22	7.1
12/7/2006	P		36.33	--	--	11.22	25.11	<50	<0.50	<0.50	<0.50	<0.50	14	0.71	7.20
3/12/2007	P		36.33	--	--	10.47	25.86	<50	<0.50	<0.50	<0.50	<0.50	7.3	2.77	7.28
6/20/2007	P		36.33	--	--	11.40	24.93	<50	<0.50	<0.50	<0.50	<0.50	2.8	0.66	7.24
9/20/2007	P		36.33	--	--	11.74	24.59	<50	<0.50	<0.50	<0.50	<0.50	4.7	1.94	7.29
12/14/2007	P		36.33	--	--	11.36	24.97	<50	<0.50	<0.50	<0.50	<0.50	5.2	1.61	6.98
3/10/2008	P		36.33	--	--	10.65	25.68	<50	<0.50	<0.50	<0.50	<0.50	6.0	1.03	6.94
6/13/2008	P		36.33	--	--	11.50	24.83	<50	<0.50	<0.50	<0.50	<0.50	2.2	0.77	7.15
9/2/2008	P		36.33	--	--	11.93	24.40	<50	<0.50	<0.50	<0.50	<0.50	0.76	1.29	7.21
12/2/2008	--		**36.33**	--	--	**11.79**	**24.54**	--	--	--	--	--	--	--	--
MW-26															
3/13/2002	--		33.71	--	--	11.27	22.44	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
6/28/2002	--	q	33.71	--	--	11.70	22.01	--	--	--	--	--	--	--	--
9/20/2002	--	q	33.71	--	--	12.10	21.61	--	--	--	--	--	--	--	--
12/30/2002	--	q	33.71	--	--	9.60	24.11	--	--	--	--	--	--	--	--
3/27/2003	--		33.71	--	--	11.15	22.56	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
6/30/2003	--	q	33.71	--	--	11.61	22.10	--	--	--	--	--	--	--	--
9/15/2003	--	q	33.71	--	--	12.01	21.70	--	--	--	--	--	--	--	--
12/04/2003	--	q	33.71	--	--	11.78	21.93	--	--	--	--	--	--	--	--
03/10/2004	--	q	35.70	--	--	10.45	25.25	--	--	--	--	--	--	--	--
06/10/2004	--	q	35.70	--	--	11.82	23.88	--	--	--	--	--	--	--	--
09/22/2004	P		35.70	--	--	12.05	23.65	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	7.0
12/13/2004	--		35.70	--	--	11.08	24.62	--	--	--	--	--	--	--	--
03/10/2005	--		35.70	--	--	9.80	25.90	--	--	--	--	--	--	--	--

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

Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-26 Cont.															
06/29/2005	--		35.70	--	--	11.30	24.40	--	--	--	--	--	--	--	--
09/14/2005	P		35.70	--	--	11.55	24.15	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	6.8
12/13/2005	--		35.70	--	--	11.54	24.16	--	--	--	--	--	--	--	--
03/20/2006	--		35.70	--	--	10.06	25.64	--	--	--	--	--	--	--	--
6/22/2006	--		35.70	--	--	11.29	24.41	--	--	--	--	--	--	--	--
9/22/2006	P		35.70	--	--	11.63	24.07	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.10	7.2
12/7/2006	--		35.70	--	--	11.11	24.59	--	--	--	--	--	--	--	--
3/12/2007	--		35.70	--	--	10.87	24.83	--	--	--	--	--	--	--	--
6/20/2007	--		35.70	--	--	11.80	23.90	--	--	--	--	--	--	--	--
9/20/2007	P		35.70	--	--	12.13	23.57	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	7.21
12/14/2007	--		35.70	--	--	12.14	23.56	--	--	--	--	--	--	--	--
3/10/2008	--		35.70	--	--	11.05	24.65	--	--	--	--	--	--	--	--
12/2/2008	--		**35.70**	--	--	**12.21**	**23.49**	--	--	--	--	--	--	--	--

SYMBOLS & ABBREVIATIONS:
-- = Not analyzed/applicable/measured/available
< = Not detected at or above laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in ft bgs
ft bgs = feet below ground surface
ft MSL = feet above mean sea level
GRO = Gasoline range organics, range C4-C12
GWE = Groundwater elevation measured in ft MSL
mg/L = Milligrams per liter
MTBE = Methyl tert butyl ether
NP = Well not purged prior to sampling
P = Well purged prior to sampling
TOC = Top of casing measured in ft MSL
TPH-g = Total petroleum hydrocarbons as gasoline
µg/L = Micrograms per liter

NOTES:
a = Well elevation data obtained from Quarterly Groundwater Monitoring and Site Status Report, Fourth Quarter 1994.
b = GRO/TPH-g Chromatogram Pattern: Unidentified Hydrocarbons C6-C10
c = Hydrocarbon pattern for GRO/TPH-g is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
d = GRO/TPH-g Chromatogram Pattern: C6-C10
e = This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
f = The continuing calibration was outside the acceptance criteria. This should be considered in evaluating the result for its intended purpose.
g = Groundwater extraction system pumping; inaccurate DTW.
h = Groundwater extraction system not pumping.
i = Sampling frequency changed from quarterly to annually per recommendations in first quarter 2003 groundwater monitoring report.
j = Well not accessible this quarter.
k = Well destroyed.
l = MTBE confirmed by EPA Method 8260B (Method 8260B result is the second value.)
m = No gauging port. Sample taken from spigot.
n = Well inaccessible as homeowner not available.
o = Pump not working or well dry.
p = Gauged with pump in well. Opened cam lock fitting at wellhead.
q = Well sampled annually.
r = Well inaccessible--car parked over well.
s = Well resampled on 3/26/2008; the initial sample on 3/10/2008 was meant to be purged.
u = Well sampled semi-annually.

NOTES:
Site surveyed to NAVD'88 datum on March 2, 2004.
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 DO and pH were obtained through field measurements.

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

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

Table 2. Summary of Fuel Additives Analytical Data

Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
17372 VM									
3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
9/15/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
12/04/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
03/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
06/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
12/13/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/10/2005	<100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
642 H									
3/13/2002	<100	<20	--	<0.50	<0.50	<0.50	--	--	
3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
6/30/2003	--	--	--	--	--	--	--	--	a
9/15/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
12/04/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
E-1A									
3/27/2003	<100	<20	60	<0.50	<0.50	2.3	--	--	
6/30/2003	<100	<20	37	<0.50	<0.50	1.6	<0.50	<0.50	
9/15/2003	<100	<20	49	<0.50	<0.50	2.4	<0.50	<0.50	
12/04/2003	<100	<20	19	<0.50	<0.50	0.89	--	--	
03/10/2004	<200	<40	38	<1.0	<1.0	2.3	<1.0	<1.0	
06/10/2004	<100	<20	46	<0.50	<0.50	2.2	<0.50	<0.50	
09/22/2004	<100	<20	17	<0.50	<0.50	0.98	<0.50	<0.50	
12/13/2004	<100	<20	15	<0.50	<0.50	0.75	<0.50	<0.50	
03/10/2005	<100	<10	22	<0.50	<0.50	0.95	<0.50	<0.50	
06/29/2005	<100	<20	14	<0.50	<0.50	0.74	<0.50	<0.50	
09/14/2005	<100	<20	13	<0.50	<0.50	<0.50	<0.50	<0.50	c
12/13/2005	<100	<20	12	<0.50	<0.50	0.61	<0.50	<0.50	
6/22/2006	<300	<20	13	<0.50	<0.50	<0.50	<0.50	<0.50	
9/22/2006	<300	<20	12	<0.50	<0.50	<0.50	<0.50	<0.50	
3/12/2007	<300	<20	5.6	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data

Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
E-1A Cont.									
6/20/2007	<300	<20	6.8	<0.50	<0.50	<0.50	<0.50	<0.50	
9/20/2007	<300	<20	0.80	<0.50	<0.50	<0.50	<0.50	<0.50	
12/14/2007	<300	<20	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	c
3/10/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/26/2008	<300	<10	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	d
9/2/2008	<300	<10	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
12/2/2008	**<300**	**<10**	**0.92**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-5									
3/27/2003	<100	24	59	<0.50	<0.50	2.2	--	--	
6/30/2003	<100	22	58	<0.50	<0.50	2.1	<0.50	<0.50	
9/15/2003	<500	<100	61	<2.5	<2.5	2.5	--	--	
12/04/2003	<100	<20	42	<0.50	<0.50	1.9	--	--	
03/10/2004	<100	<20	9.5	<0.50	<0.50	<0.50	<0.50	<0.50	
06/10/2004	<100	<20	31	<0.50	<0.50	1.0	<0.50	<0.50	
09/22/2004	<100	<20	15	<0.50	<0.50	<0.50	<0.50	<0.50	
12/13/2004	<100	<20	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	
03/10/2005	<100	<10	3.3	<0.50	<0.50	<0.50	<0.50	<0.50	b
06/29/2005	<100	<20	6.7	<0.50	<0.50	<0.50	<0.50	<0.50	
09/14/2005	<100	<20	13	<0.50	<0.50	<0.50	<0.50	<0.50	c
03/20/2006	<300	<20	3.8	<0.50	<0.50	<0.50	<0.50	<0.50	
9/22/2006	<300	<20	12	<0.50	<0.50	<0.50	<0.50	<0.50	
3/12/2007	<300	<20	5.8	<0.50	<0.50	<0.50	<0.50	<0.50	
9/20/2007	<300	<20	4.3	<0.50	<0.50	<0.50	<0.50	<0.50	
3/10/2008	<300	<10	2.8	<0.50	<0.50	<0.50	<0.50	<0.50	
9/2/2008	<300	<10	11	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-8									
3/27/2003	<100	<20	33	<0.50	<0.50	0.53	--	--	
6/30/2003	<100	<20	15	<0.50	<0.50	0.85	<0.50	<0.50	
9/15/2003	<100	<20	41	<0.50	<0.50	5.3	--	--	
12/04/2003	<100	<20	24	<0.50	<0.50	3.7	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-8 Cont.									
03/10/2004	<100	<20	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	
06/10/2004	<100	<20	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	
09/22/2004	<100	<20	18	<0.50	<0.50	1.5	<0.50	<0.50	
12/13/2004	<100	<20	7.1	<0.50	<0.50	0.78	<0.50	<0.50	
03/10/2005	<100	<10	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	b
06/29/2005	<100	<20	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	
09/14/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	c
03/20/2006	<300	<20	0.60	<0.50	<0.50	<0.50	<0.50	<0.50	
9/22/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/12/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/20/2007	<300	<20	13	<0.50	<0.50	1.2	<0.50	<0.50	
3/10/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/2/2008	<300	<10	8.6	<0.50	<0.50	0.63	<0.50	<0.50	
MW-9									
3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
9/15/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/10/2005	<100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
09/14/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	c
9/22/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/20/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-10									
3/27/2003	<1,000	<200	330	<5.0	<5.0	15	--	--	
6/30/2003	<2,000	<400	750	<10	<10	28	<10	<10	
9/15/2003	<1,000	<200	430	<5.0	<5.0	15	<5.0	<5.0	
12/04/2003	<500	<100	110	<2.5	<2.5	4.8	--	--	
03/10/2004	<500	120	140	<2.5	<2.5	<2.5	<2.5	<2.5	
06/10/2004	<1,000	<200	410	<5.0	<5.0	11	<5.0	<5.0	
09/22/2004	<100	54	87	<0.50	<0.50	3.8	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data

Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-10 Cont.									
12/13/2004	<200	220	110	<1.0	<1.0	4.5	<1.0	<1.0	
03/10/2005	<100	50	86	<0.50	<0.50	2.2	<0.50	<0.50	
06/29/2005	<500	110	160	<2.5	<2.5	4.6	<2.5	<2.5	
09/14/2005	<500	300	140	<2.5	<2.5	3.5	<2.5	<2.5	c
12/13/2005	<100	190	47	<0.50	<0.50	1.9	<0.50	<0.50	
03/20/2006	<300	72	34	<0.50	<0.50	0.85	<0.50	<0.50	
6/22/2006	<300	130	21	<0.50	<0.50	0.56	<0.50	<0.50	c
9/22/2006	<300	51	11	<0.50	<0.50	<0.50	<0.50	<0.50	
12/7/2006	<300	24	10	<0.50	<0.50	<0.50	<0.50	<0.50	
3/12/2007	<300	46	18	<0.50	<0.50	<0.50	<0.50	<0.50	
6/20/2007	<300	<20	5.9	<0.50	<0.50	<0.50	<0.50	<0.50	
9/20/2007	<300	<20	4.6	<0.50	<0.50	<0.50	<0.50	<0.50	
12/14/2007	<300	<20	6.9	<0.50	<0.50	<0.50	<0.50	<0.50	c
3/10/2008	<300	22	13	<0.50	<0.50	<0.50	<0.50	<0.50	
6/13/2008	<300	<10	5.8	<0.50	<0.50	<0.50	<0.50	<0.50	
9/2/2008	<300	<10	6.5	<0.50	<0.50	<0.50	<0.50	<0.50	
12/2/2008	**<300**	**<10**	**5.6**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-11									
3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
6/30/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/15/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
12/04/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
03/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
06/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
12/13/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/10/2005	<100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
06/29/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/14/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	c
9/22/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/20/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data

Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-14									
3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
03/10/2004	--	--	--	--	--	--	--	--	Not Sampled
09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/14/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/22/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/20/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-15									
3/27/2003	<100	<20	17	<0.50	<0.50	<0.50	--	--	
6/30/2003	<100	<20	12	<0.50	<0.50	<0.50	<0.50	<0.50	
9/15/2003	<100	<20	10	<0.50	<0.50	<0.50	<0.50	<0.50	
12/04/2003	<100	<20	6.4	<0.50	<0.50	<0.50	--	--	
03/10/2004	<100	<20	11	<0.50	<0.50	<0.50	<0.50	<0.50	
06/10/2004	<100	<20	5.7	<0.50	<0.50	<0.50	<0.50	<0.50	
03/10/2005	<100	<10	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	b
03/20/2006	<300	<20	15	<0.50	<0.50	<0.50	<0.50	<0.50	
9/20/2007	<300	<20	11	<0.50	<0.50	<0.50	<0.50	<0.50	
3/10/2008	<300	<10	19	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-16									
3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
9/15/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/10/2005	<100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
09/14/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/22/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/20/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/2/2008	<300	<10	0.63	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-18									
3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
03/10/2004	--	--	--	--	--	--	--	--	Not Sampled

Table 2. Summary of Fuel Additives Analytical Data

Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-18 Cont.									
09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/14/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/22/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/20/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-21									
3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
03/10/2004	--	--	--	--	--	--	--	--	Not Sampled
09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/14/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/22/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/20/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-22									
3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
9/15/2003	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
03/10/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/10/2005	<100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
09/14/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/22/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/20/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-23									
3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
03/10/2004	--	--	--	--	--	--	--	--	Not Sampled
09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/14/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/22/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/20/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-25									
3/27/2003	<100	<20	90	<0.50	<0.50	40	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-25 Cont.									
6/30/2003	<1,000	<200	130	<5.0	<5.0	81	<5.0	<5.0	
9/15/2003	<200	<40	140	<1.0	<1.0	71	<1.0	<1.0	
12/04/2003	<100	<20	36	<0.50	<0.50	17	--	--	
03/10/2004	<100	<20	14	<0.50	<0.50	6.5	<0.50	<0.50	
06/10/2004	<100	<20	17	<0.50	<0.50	7.2	<0.50	<0.50	
09/22/2004	<100	<20	29	<0.50	<0.50	18	<0.50	<0.50	
12/13/2004	<100	45	44	<0.50	<0.50	18	<0.50	<0.50	
03/10/2005	<100	<10	7.4	<0.50	<0.50	2.3	<0.50	<0.50	b
06/29/2005	<100	<20	20	<0.50	<0.50	12	<0.50	<0.50	
09/14/2005	<100	<20	8.0	<0.50	<0.50	4.1	<0.50	<0.50	
12/13/2005	<100	<20	13	<0.50	<0.50	5.5	<0.50	<0.50	
03/20/2006	<300	<20	5.4	<0.50	<0.50	2.4	<0.50	<0.50	
6/22/2006	<300	<20	3.5	<0.50	<0.50	1.7	<0.50	<0.50	c
9/22/2006	<300	<20	18	<0.50	<0.50	7.3	<0.50	<0.50	
12/7/2006	<300	<20	14	<0.50	<0.50	6.1	<0.50	<0.50	
3/12/2007	<300	<20	7.3	<0.50	<0.50	2.9	<0.50	<0.50	
6/20/2007	<300	<20	2.8	<0.50	<0.50	1.3	<0.50	<0.50	
9/20/2007	<300	<20	4.7	<0.50	<0.50	1.9	<0.50	<0.50	
12/14/2007	<300	<20	5.2	<0.50	<0.50	1.8	<0.50	<0.50	c
3/10/2008	<300	<10	6.0	<0.50	<0.50	1.7	<0.50	<0.50	
6/13/2008	<300	<10	2.2	<0.50	<0.50	0.58	<0.50	<0.50	
9/2/2008	<300	<10	0.76	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-26									
3/27/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
03/10/2004	--	--	--	--	--	--	--	--	Not Sampled
09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/14/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/22/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/20/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

SYMBOLS & ABBREVIATIONS:
-- = Not analyzed/applicable/measured/available
< = Not detected at or above the 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 = Well was not accessible this quarter.
b = Possible high bias due to CCV falling outside acceptance criteria for TBA.
c = Calibration verification was within method limits but outside the contract limits for ethanol.
d = Well resampled on 3/26/2008; the initial sample on 3/10/2008 was meant to be purged.

NOTES:
Well E-1A was previously named MW-12.

All volatile organic compounds analyzed using EPA Method 8260B.

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

Table 3. Historical Ground-Water Flow Direction and Gradient

Station #608, 17601 Hesperian Boulevard, San Lorenzo, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
6/28/2002	West	0.003
9/20/2002	West	0.00196
12/30/2002	West	0.003
3/27/2003	West	0.002
6/30/2003	West-Southwest	0.001
9/15/2003	West	0.003
12/4/2003	West-Southwest	0.003
3/10/2004	West	0.003
6/10/2004	West	0.006
9/22/2004	West	0.006
12/13/2004	West-Southwest	0.003
3/10/2005	West-Southwest	0.003
6/29/2005	West-Southwest	0.003
9/14/2005	West-Southwest	0.003
12/13/2005	West	0.003
3/20/2006	West-Southwest	0.003
6/22/2006	West-Southwest	0.003
9/22/2006	West-Southwest	0.003
12/7/2006	West	0.004
3/12/2007	West	0.003
6/20/2007	West	0.004
9/20/2007	West	0.003
12/14/2007	West	0.004
3/10/2008	West	0.004
6/13/2008	--	--
9/2/2008	West	0.004
12/2/2008	**West**	**0.003**

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 4.
Ground-Water Sampling Schedule
Atlantic Richfield Company Station #608
17601 Hesperian Boulevard, San Lorenzo, California

Well Number	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Sampling Frequency
Groundwater Monitoring Wells					
MW-5	X		X		Semiannually (1st and 3rd Quarter)
MW-7	----------Removed from Progam----------				
MW-8	X		X		Semiannually (1st and 3rd Quarter)
MW-9	----------Removed from Progam----------				
MW-10	X	X	X	X	Quarterly
MW-11	----------Removed from Progam----------				
E-1A	X	X	X	X	Quarterly
MW-13	----------Removed from Program----------				
MW-14	----------Removed from Progam----------				
MW-15	X		X		Semiannually (1st and 3rd Quarter)
MW-16			X		Annually (3rd Quarter)
MW-17	----------Destroyed----------				
MW-18	----------Removed from Program----------				
MW-19	----------Removed from Program----------				
MW-20	----------Destroyed----------				
MW-21	----------Removed from Program----------				
MW-22	----------Removed from Program----------				
MW-23	----------Removed from Program----------				
MW-24	----------Removed from Program----------				
MW-25	X		X		Semiannually (1st and 3rd Quarter)
MW-26	----------Removed from Program----------				
Domestic Irrigation Wells					
590H	----------Destroyed----------				
633H	Destroyed				
634H	----------Pump Not Functional, Well Not in Use----------				
642H	----------Removed from Program----------				
675H	----------Destroyed----------				
17197 VM	----------Destroyed----------				
17200 VM	----------Destroyed----------				
17203 VM	Destroyed				
17302 VM	----------Pump Not Functional, Well Not in Use----------				
17348 VE	----------Pump Not Functional, Well Not in Use----------				
17349 VM	----------Destroyed----------				
17371 VM	----------Destroyed----------				
17372 VM	----------Removed from Program----------				
17393 VM	----------Destroyed----------				

APPENDIX A

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

STRATUS
ENVIRONMENTAL, INC.

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

December 22, 2008

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

Re: Groundwater Sampling Data Package, BP Service Station No. 608, located at 17601 Hesperian Boulevard, San Lorenzo, California.

General Information

Data Submittal Prepared / Reviewed by: Becky Carroll / Jay Johnson
Phone Number: (530) 676-6004
On-Site Supplier Representatives: Greg Wilkins

Sampling Date: December 2, 2008
Arrival: 05:43 *Departure:* 08:29
Weather Conditions: Overcast
Unusual Field Conditions: None noted.
Scope of Work Performed: Quarterly monitoring and sampling.
Variations from Work Scope: Well E-1A purged dry before three casing volumes could be removed.

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

STRATUS ENVIRONMENTAL, INC.

Site Address 17601 Hesperian Blvd.
City San Lorenzo CA
Sampled by: C. Wilkins
Signature

Site Number ARCO 608
Project Number E608
Project PM J. Johnson
DATE 12-02-08

ORIGINAL

onsite 0543 off 0829

Water Level Data					Purge Volume Calculations					Purge Method				Sample Record			Field Data
Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Bailer	Pump	other	DTW at sample time (feet)	Sample I.D	Sample Time	DO (mg/L)
MW-5	0559		12.26	13.40						X							
MW-8	0607		10.79	20.72						X							
MW-9	0613		10.29	18.09						X							
MW-10	0658		10.35	22.23	11.88	3	1	11.88	12		X			10.36	MW-10	0729	1.67
MW-11	0627		11.20	18.60						X							
MW-14	0624		9.64	22.88						X							
MW-15	0631		10.87	23.02						X							
MW-16	0634		11.45	22.90						X							
MW-18	0637		10.61	21.30						X							
MW-21	0650		10.14	21.36						X							
MW-22	0645		10.90	21.30						X							
MW-23	0641		12.05	21.50						X							
MW-25	0555		11.79	18.24						X							
MW-26	0617		12.21	19.24						X							
E-1A	0604		10.21	22.63	12.42	6	4.4	54.65	28	Dry@28g	X			12.30	E-1A	0804	2.49
TB608120208																	
																0812	

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

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

CALIBRATION DATE
pH 11-20-08
Conductivity
DO

STRATUS ENVIRONMENTAL, INC.

Site Address 17601 Hesperian Blvd
City San Lorenzo CA
Site Sampled by G. Wilkins

Site Number ARCO 608
Project No. E608
Project PM J. Johnson
Date Sampled 12-02-08

ORIGINAL

Well ID MW-10			0729	
purge start time	Bailer		Odor	
	Temp C	pH	cond	gallons
time	19.4	6.71	722	0
time	20.0	6.85	674	6
time	19.5	6.94	662	12
time				
purge stop time				

Well ID E-1A				0804
purge start time	0752		No Odor	
	Temp C	pH	cond	gallons
time	20.1	7.71	680	~~0~~
time	Dry @ 28 gal			
time	19.6	7.30	657	28
time				
pugre stop time				

Well ID				
purge start time				
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time				

Well ID				
purge start time				
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time				

Well ID				
purge start time				
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time				

Well ID				
purge start time				
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time				

Well ID				
purge start time				
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time				

Well ID				
purge start time				
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time				

WELLHEAD OBSERVATION FORM

STRATUS ENVIRONMENTAL, INC.

Site Name/Number: ARCO 608 *Date:* 12-03-08 *Technican:* G. Williams

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 lid, concrete needs replacement, or other - explain)
MW-5	X											
8	X											
9			X	B								
10	X											
11	X											
E-1A	X											
MW-14	X											
15	X											
16	X											
18	X											
21			X	B								
22	X											
23	X											
25			X	A		1		2				
26								2				

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):

_____

_____

(updated 3-28-08, SS)

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. 674041

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

SITE:

EPA I.D. NO. NOT REQUIRED

NAME BP WEST COAST PRODUCTS LLC ARCO # [illegible]

PROFILE NO.

ADDRESS P.O. BOX 80249

RANCHO SANTA MARGARITA

CITY, STATE, ZIP CA 92688

PHONE NO. ( )

CONTAINERS: No. ______ VOLUME [illegible] 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.	RESI#		
4.				8.			

PROPERTIES: 7-10 pH ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER ______

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PROTECTIVE CLOTHING

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

Larry Monthart RESI for BP

TYPED OR PRINTED FULL NAME & SIGNATURE

12-02-12

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. 530-676-2021

TRUCK, UNIT, I.D. NO.

[illegible signature]

TYPED OR PRINTED FULL NAME & SIGNATURE

[illegible]

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
bp
A BP affiliated company

Chain of Custody Record

ORIGINAL

Project Name: ARCO 608
BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 608
State or Lead Regulatory Agency:
Requested Due Date (mm/dd/yy): Std

On-site Time:	0543	Temp:	50's
Off-site Time:	0829	Temp:	50's
Sky Conditions:	overcast		
Meteorological Events:	Fog		
Wind Speed:	—	Direction:	—

Lab Name: Cal Science	BP/AR Facility No.: 608	Consultant/Contractor: Stratus Environmental, Inc.
Address: 7440 Lincoln Way	BP/AR Facility Address: 17601 Hesperian Boulevard, San Lorenzo	Address: 3330 Cameron Park Drive, Suite 550
Garden Grove Ca. 92841-1427	Site Lat/Long:	Cameron Park, CA 95682
Lab PM: Linda Scharpenberg	California Global ID No.: T0600100085	Consultant/Contractor Project No.: E608-03
Tele/Fax: 714-895-5494 714-895-7401 (fax)	Enfos Project No.: G0C24-0027	Consultant/Contractor PM: Jay Johnson
BP/AR PM Contact: Paul Supple	Provision or OOC (circle one) Provision	Tele/Fax: (530) 676-6000 / (530) 676-6005
Address: 2010 Crow Canyon Place, Suite 150	Phase/WBS: 04-Monitoring	Report Type & QC Level: Level 1 with EDF
San Ramon, CA	Sub Phase/Task: 03-Analytical	E-mail EDD To: bcarroll@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 2008	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: 6RO	Requested Analysis: BTEX	Requested Analysis: 5oxy's	Requested Analysis: EDB	Requested Analysis: 1,2DCA	Requested Analysis: Ethanol	Sample Point Lat/Long and Comments (*Oxy= MTBE,TAME,ETBE,DIPE,TBA)
1	MW-10	0729	12/02		X			6				X		X	X	X	X	X	X	*All by 8260
2	E-1A	0804	12/02		X			6				X		X	X	X	X	X	X	
3																				
4																				
5	TB608120222008	0812	12/02		X			2				X		—	—	—	—	—	—	ON HOLD
6																				
7																				
8																				
9																				
10																				

Sampler's Name: G.Wilkins	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Stratus Environmental, Inc.		12/2/08	0932	CEC	12-2-08	0932
Shipment Date: 12-02-08						
Shipment Method: Stratus						
Shipment Tracking No:						

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.

December 12, 2008

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

Subject: **Calscience Work Order No.: 08-12-0221**
Client Reference: ARCO 608

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/3/2008 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,

Calscience Environmental
Laboratories, Inc.
Richard Villafania
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.	Date Received:	12/03/08
3330 Cameron Park Drive, Suite 550	Work Order No:	08-12-0221
Cameron Park, CA 95682-8861	Preparation:	EPA 5030B
	Method:	EPA 8015B (M)

Project: ARCO 608

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	**08-12-0221-1-E**	**12/02/08 07:29**	**Aqueous**	**GC 4**	**12/04/08**	**12/04/08 17:31**	**081204B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	530	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	84	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
E-1A	**08-12-0221-2-E**	**12/02/08 08:04**	**Aqueous**	**GC 4**	**12/04/08**	**12/04/08 18:04**	**081204B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	75	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-695-358**	**N/A**	**Aqueous**	**GC 4**	**12/04/08**	**12/04/08 13:07**	**081204B01**

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

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 12/03/08
Work Order No: 08-12-0221
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ARCO 608

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	**08-12-0221-1-B**	**12/02/08 07:29**	**Aqueous**	**GC/MS BB**	**12/10/08**	**12/10/08 13:01**	**081210L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	5.6	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	103	73-157			Dibromofluoromethane	101	82-142		
Toluene-d8	99	82-112			1,4-Bromofluorobenzene	101	75-105		

E-1A	**08-12-0221-2-B**	**12/02/08 08:04**	**Aqueous**	**GC/MS BB**	**12/10/08**	**12/10/08 12:31**	**081210L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	0.92	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	99	82-142		
Toluene-d8	100	82-112			1,4-Bromofluorobenzene	91	75-105		

Method Blank	**099-12-703-597**	**N/A**	**Aqueous**	**GC/MS BB**	**12/10/08**	**12/10/08 12:01**	**081210L01**

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	110	73-157			Dibromofluoromethane	98	82-142		
Toluene-d8	100	82-112			1,4-Bromofluorobenzene	91	75-105		

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.		Date Received:	12/03/08
3330 Cameron Park Drive, Suite 550		Work Order No:	08-12-0221
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project ARCO 608

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-12-0253-3	**Aqueous**	**GC 4**	**12/04/08**	**12/04/08**	**081204S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	94	98	38-134	4	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.	Date Received:	12/03/08
3330 Cameron Park Drive, Suite 550	Work Order No:	08-12-0221
Cameron Park, CA 95682-8861	Preparation:	EPA 5030B
	Method:	EPA 8260B

Project ARCO 608

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
E-1A	**Aqueous**	**GC/MS BB**	**12/10/08**	**12/10/08**	**081210S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	104	86-122	1	0-8	
Carbon Tetrachloride	107	107	78-138	0	0-9	
Chlorobenzene	103	103	90-120	0	0-9	
1,2-Dibromoethane	105	102	70-130	3	0-30	
1,2-Dichlorobenzene	104	104	89-119	0	0-10	
1,1-Dichloroethene	107	108	52-142	1	0-23	
Ethylbenzene	101	101	70-130	1	0-30	
Toluene	103	102	85-127	1	0-12	
Trichloroethene	104	102	78-126	1	0-10	
Vinyl Chloride	95	93	56-140	2	0-21	
Methyl-t-Butyl Ether (MTBE)	107	104	64-136	2	0-28	
Tert-Butyl Alcohol (TBA)	106	103	27-183	2	0-60	
Diisopropyl Ether (DIPE)	108	106	78-126	2	0-16	
Ethyl-t-Butyl Ether (ETBE)	103	101	67-133	3	0-21	
Tert-Amyl-Methyl Ether (TAME)	99	96	63-141	3	0-21	
Ethanol	84	86	11-167	3	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: 08-12-0221
Cameron Park, CA 95682-8861	Preparation: EPA 5030B
	Method: EPA 8015B (M)

Project: ARCO 608

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-695-358	**Aqueous**	**GC 4**	**12/04/08**	**12/04/08**	**081204B01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	100	99	78-120	1	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:	08-12-0221
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: ARCO 608

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-703-597	Aqueous	GC/MS BB	12/10/08	12/10/08	081210L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	105	103	87-117	82-122	2	0-7	
Carbon Tetrachloride	106	106	78-132	69-141	0	0-8	
Chlorobenzene	104	104	88-118	83-123	0	0-8	
1,2-Dibromoethane	102	106	80-120	73-127	4	0-20	
1,2-Dichlorobenzene	106	102	88-118	83-123	3	0-8	
1,1-Dichloroethene	107	107	71-131	61-141	1	0-14	
Ethylbenzene	104	103	80-120	73-127	2	0-20	
Toluene	104	102	85-127	78-134	3	0-7	
Trichloroethene	105	104	85-121	79-127	1	0-11	
Vinyl Chloride	95	96	64-136	52-148	1	0-10	
Methyl-t-Butyl Ether (MTBE)	101	106	67-133	56-144	5	0-16	
Tert-Butyl Alcohol (TBA)	103	104	34-154	14-174	1	0-19	
Diisopropyl Ether (DIPE)	103	105	80-122	73-129	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	98	101	73-127	64-136	3	0-11	
Tert-Amyl-Methyl Ether (TAME)	96	98	69-135	58-146	1	0-12	
Ethanol	85	84	34-124	19-139	2	0-44	

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

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-12-0221

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

Work Order Number: 08-12-0221

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

Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

0221

Page 1 of 1

Project Name: ARCO 608
BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 608
State or Lead Regulatory Agency:
Requested Due Date (mm/dd/yy): Std

On-site Time:	0543	Temp:	50's
Off-site Time:	0829	Temp:	50's
Sky Conditions:	overcast		
Meteorological Events:	Fog		
Wind Speed:	—	Direction:	—

Lab Name: Cal Science	BP/AR Facility No.: 608	Consultant/Contractor: Stratus Environmental, Inc.
Address: 7440 Lincoln Way	BP/AR Facility Address: 17601 Hesperian Boulevard, San Lorenzo	Address: 3330 Cameron Park Drive, Suite 550
Garden Grove Ca. 92841-1427	Site Lat/Long:	Cameron Park, CA 95682
Lab PM: Linda Scharpenberg	California Global ID No.: T0600100085	Consultant/Contractor Project No.: E608-03
Tele/Fax: 714-895-5494 714-895-7401 (fax)	Enfos Project No.: G0C24-0027	Consultant/Contractor PM: Jay Johnson
BP/AR PM Contact: Paul Supple	Provision or OOC (circle one) Provision	Tele/Fax: (530) 676-6000 / (530) 676-6005
Address: 2010 Crow Canyon Place, Suite 150	Phase/WBS: 04-Monitoring	Report Type & QC Level: Level 1 with EDF
San Ramon, CA	Sub Phase/Task: 03-Analytical	E-mail EDD To: bcarroll@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 2008	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: 6RO	Requested Analysis: BTEX	Requested Analysis: 5oxy's	Requested Analysis: EDB	Requested Analysis: 12DCA	Requested Analysis: Ethanol	Sample Point Lat/Long and Comments *Oxy= MTBE,TAME,ETBE,DIPE,TBA
1	MW-10	0729	12/02		X			6				X		X	X	X	X	X	X	*All by 8260
2	E-1A	0804	12/02		X			6				X		X	X	X	X	X	X	
3																				
4																				
5	TB608120222008	0812	12/02		X			2				X		—	—	—	—	—	—	ON HOLD
6																				
7																				
8																				
9																				
10																				

Sampler's Name: G.Wilkins	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Stratus Environmental, Inc.		12/2/08	0932	CEC	12-2-08	0932
Shipment Date: 12-02-08	to GSO	12-2-08	1730			
Shipment Method: Stratus						
Shipment Tracking No: 5108 37050					12/3/08	1030

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 #: 08-12-0221

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Stratus

DATE: 12/03/08

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

Temperature 3.1 °C - 0.2 °C (CF) = 2.9 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

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

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

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** JP

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A **Initial:** JP

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** RB

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on sample label(s)	☑	☐	☐
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: RB

Reviewed by: WSC

Scanned by: RB

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

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

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 CONFIRMATIONS

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:	**4Q08 GEO_WELL 608**
Facility Global ID:	**T0600100085**
Facility Name:	**ARCO #00608**
File Name:	**GEO_WELL.zip**
Organization Name:	**Broadbent & Associates, Inc.**
Username:	**BROADBENT-C**
IP Address:	**67.118.40.90**
Submittal Date/Time:	**1/15/2009 3:37:46 PM**
Confirmation Number:	**6241497218**

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

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

Submittal Type:	**EDF - Monitoring Report - Quarterly**
Submittal Title:	**4Q08 GW Monitoring**
Facility Global ID:	**T0600100085**
Facility Name:	**ARCO #00608**
File Name:	**08120221.zip**
Organization Name:	**Broadbent & Associates, Inc.**
Username:	**BROADBENT-C**
IP Address:	**67.118.40.90**
Submittal Date/Time:	**1/15/2009 3:40:23 PM**
Confirmation Number:	**3137047886**

VIEW QC REPORT

VIEW DETECTIONS REPORT