Shell Oil Products US

September 22, 2003

Scott Seery
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: **Shell-branded Service Station**
29 Wildwood Avenue
Piedmont, California

Dear Mr. Seery:

Attached for your review and comment is a copy of the *Third Quarter 2003 Monitoring Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna

Karen Petryna
Sr. Environmental Engineer

P.O. Box 7869 Burbank, CA 91510-7869 Phone (559) 645-9306 Facsimile (559) 645-5643

CAMBRIA

September 22, 2003

Scott Seery
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Third Quarter 2003 Monitoring Report**
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, California
Incident #98995822
Cambria Project# 245-0687-002

Dear Mr. Seery:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

THIRD QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California measured dissolved oxygen (DO) concentrations, gauged and sampled all site wells, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a previously submitted well survey/vicinity map (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

May 15, 2003 Agency Letter: The Alameda County Health Care Services Agency's (ACHCSA's) May 15, 2003 letter to Shell reviewed the historic fuel leak case file; requested completion of a preferential pathway study including a conduit/utility survey, well search, and site conceptual model for the site; and set a schedule for the new requested reports and quarterly groundwater monitoring reports. In addition, the letter denied Shell's request to implement Cambria's proposed sampling frequency reductions.

Cambria Environmental Technology, Inc.

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

Cambria submitted the requested conduit study/utility survey with the July 9, 2003 *Second Quarter 2003 Monitoring Report and Agency Response.* Cambria submitted the *Well Survey and Site Conceptual Model* report on August 14, 2003.

May 16, 2003 Agency Letter: The ACHCSA's May 16, 2003 letter directed Shell to continue analyzing all groundwater monitoring samples for the fuel oxygenates methyl tertiary butyl ether (MTBE), tert amyl methyl ether (TAME), ethyl tert butyl ether (ETBE), di-isopropyl ether (DIPE), and tert butyl alcohol (TBA) by EPA Method 8260 until further notice. During this quarter, samples from all wells were analyzed for these target analytes. Cambria has tabulated all historical oxygenate analytical data (Table 1). Results of all oxygenate analyses to date indicate that TAME and TBA were previously detected only in the October 2002 samples from well MW-3, at concentrations of 7.4 parts per billion (ppb) and 300 ppb, respectively. The current results indicate TBA is present in wells MW-2 and MW-3 only, at concentrations of 8.6 ppb and 72 ppb, respectively.

The October 2001 and July 2003 samples from wells MW-2 and MW-3 were also analyzed for ethanol, and ethanol was detected only in MW-2. The MW-2 ethanol results were 150,000 ppb in October 2001 and 7,000 ppb in July 2003. The October 2002 samples from all wells were analyzed for the lead scavengers 1,2-dichlorethane (1,2-DCA) and ethylene dibromide (EDB). 1,2-DCA and EDB were below reporting limits for all samples.

ANTICIPATED FOURTH QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine will measure DO, gauge and sample all site wells, and tabulate the data. Cambria will submit a monitoring report by April 15, 2004.

Additional Oxygenate Analysis: Groundwater samples from all monitoring wells will be analyzed for four additional oxygenates (TAME, ETBE, DIPE, TBA) in addition to the regular analysis for total petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, total xylenes, and MTBE. Samples from wells MW-2 and MW-3 will also be analyzed for ethanol. The results will be included in the monitoring report.

Cambria Environmental Technology, Inc.

5900 Hollis Street
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Emeryville, CA 94608
Tel (510) 420-0700
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CLOSING

We appreciate the opportunity to work with you on this project. Please call Matt Derby at (510) 420-3332 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Anni Kreml
Senior Staff Scientist

Matthew W. Derby, P.E.
Senior Project Manager

Figures: 1 - Vicinity Map
2 - Groundwater Elevation Contour Map

Table: 1 - Groundwater Analytical Data - Oxygenates

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869

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Cambria Environmental Technology, Inc.

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
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08/18/03

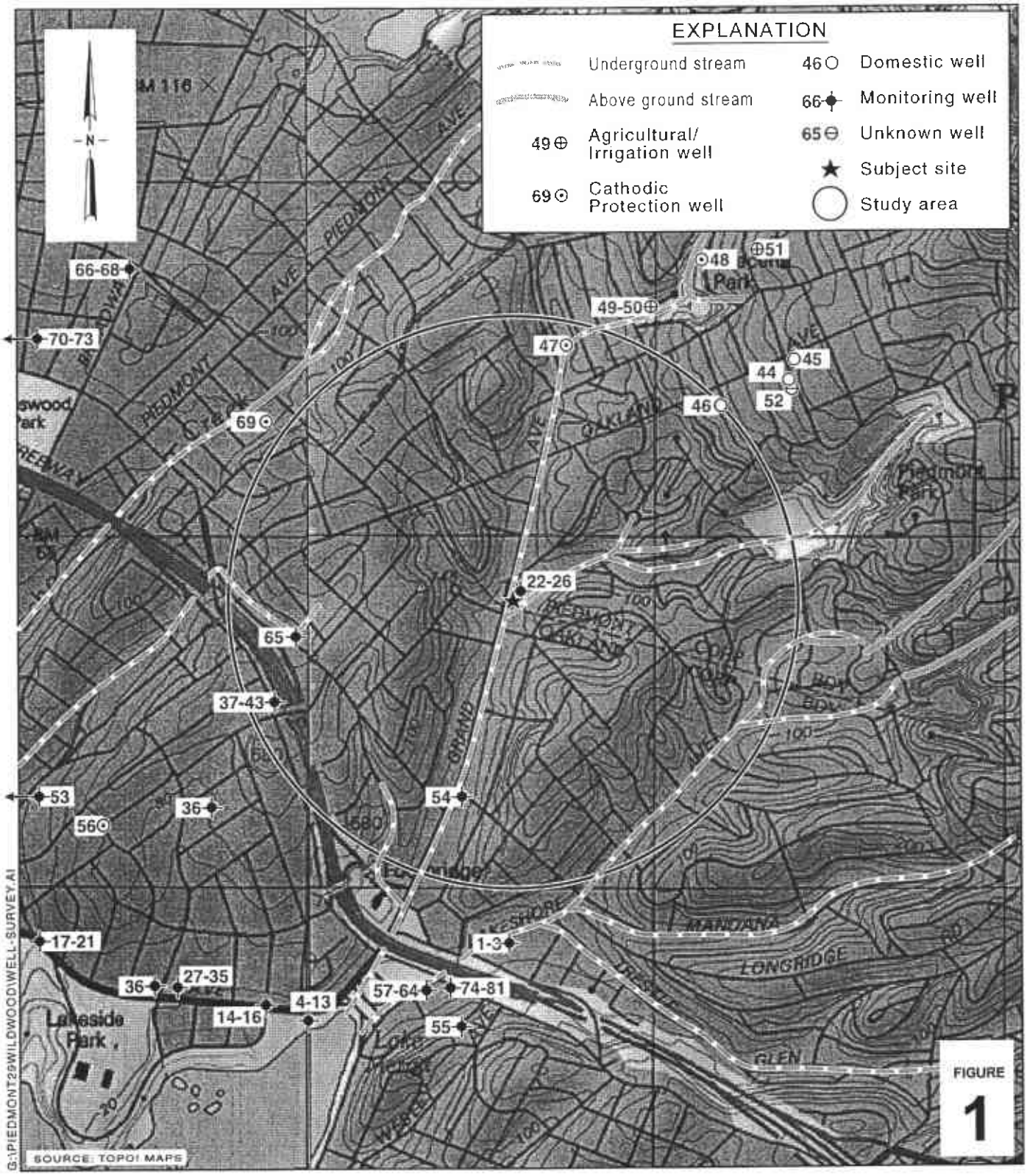

FIGURE 1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Shell-branded Service Station
29 Wildwood Avenue
Piedmont, California
Incident #98995822

CAMBRIA

Vicinity/Area Well Survey Map

1/2 Mile Radius

08/27/03

Groundwater Elevation Contour Map

July 14, 2003

CAMBRIA

Groundwater Flow Direction
(2Q99 through 3Q03)

EXPLANATION

- MW-1 — Monitoring well
- E-4 — Destroyed flowing artesian monitoring well
- Groundwater flow direction
- XX.XX — Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred
- Well designation
- ELEV — Groundwater elevation, in feet above msl
- Benzene / MTBE — Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260.
- Storm drain line (SD)
- Storm drain line (SD) (boxed culvert)
- Sanitary sewer line (SS)
- Water line (W)
- Gas line (G)
- Electrical line (E)
- Overhead electrical line (OE)
- Telephone, TV cable (T)
- Utility pole
- Electrical vault
- Electrical transformer
- Manhole
- Flow direction
- Storm drain inlet

MW-5 29.79 <0.50 <0.50

MW-4 32.97 <0.50 <0.50

MW-3 33.92 20 360

MW-2 34.37 1.2 60

MW-1 37.79 <0.50 1.4

E-4

JEAN STREET

GRAND AVENUE

WILDWOOD AVENUE

BOULEVARD WAY

Shell-branded Service Station
29 Wildwood

USTs

dispensers

W/O UST

businesses

residential

0 15 30 60
SCALE 1:30 FEET

FIGURE 2

Shell-branded Service Station
29 Wildwood Avenue
Piedmont, California
Incident #98995822

G:\PIEDMONT29WILDWOOD\FIGURES\3QM03-MP.AI

Table 1. **Groundwater Analytical Data - Oxygenates** - Former Shell Service Station, Incident #98995822, 29 Wildwood Avenue, Piedmont, California

Sample ID	Date Sampled	MTBE	DIPE	ETBE	TAME	TBA	Ethanol	1,2-DCA	EDB
		← (Concentrations in ppb) →							
MW-1	10/23/02	<0.50	<2.0	<2.0	<2.0	<50	--	<2.0	<2.0
	07/14/03	**1.4**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	--	--	--
MW-2	10/31/01	<100	<100	<100	<100	<1,000	150,000	--	--
	10/23/02	140	<2.0	<2.0	<2.0	<50	--	<2.0	<2.0
	07/14/03	**60**	**<2.0**	**<2.0**	**<2.0**	**8.6**	**7,000**	--	--
MW-3	10/31/01	31	<2.0	<2.0	<2.0	<50	<500	--	--
	10/23/02	1,400	<5.0	<5.0	7.4	300	--	<5.0	<5.0
	07/14/03	**360**	**<10**	**<10**	**<10**	**72**	**<250**	--	--
MW-4	10/23/02	<0.50	<2.0	<2.0	<2.0	<50	--	<2.0	<2.0
	07/14/03	**<0.50**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	--	--	--
MW-5	10/23/02	<0.50	<2.0	<2.0	<2.0	<50	--	<2.0	<2.0
	07/14/03	**<0.50**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	--	--	--

Abbreviations & Notes:

MTBE = Methyl tert-butyl ether, analyzed by EPA Method 8260
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260
ETBE = Ethyl tert-butyl ether, analyzed by EPA Method 8260
TAME = Tert-amyl methyl ether, analyzed by EPA Method 8260
TBA = Tert-butyl alcohol, analyzed by EPA Method 8260
Ethanol analyzed by EPA Method 8260
1,2-DCA = 1,2-Dichloroethane, analyzed by EPA Method 8260
EDB = 1,2-Dibromoethane, analyzed by EPA Method 8260
ppb = Parts per billion

ATTACHMENT A

Blaine Groundwater Monitoring Report and Field Notes

BLAINE
TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

July 31, 2003

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

Third Quarter 2003 Groundwater Monitoring at
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

Monitoring performed on July 14, 2003

Groundwater Monitoring Report **030714-SS-2**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses. Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/ad

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Anni Kreml
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Oakland, CA 94608

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	07/12/1989	<50	<0.5	<1	<1	<3	NA	NA	37.96	2.76	35.20	NA
MW-1	01/30/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.10	34.86	NA
MW-1	04/27/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.24	34.72	NA
MW-1	07/31/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	4.26	33.70	NA
MW-1	10/30/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	4.25	33.71	NA
MW-1	01/31/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.66	34.30	NA
MW-1	04/30/1991	<50	0.8	<0.5	0.6	1.2	NA	NA	37.96	3.46	34.50	NA
MW-1	07/30/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	4.14	33.82	NA
MW-1	10/29/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.96	34.00	NA
MW-1	01/20/1992	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	37.96	3.59	34.37	NA
MW-1	04/14/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.18	31.71	NA
MW-1	07/21/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	4.17	33.79	NA
MW-1	10/02/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	4.29	33.67	NA
MW-1	01/20/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	2.32	35.64	NA
MW-1	05/03/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.50	34.46	1.9
MW-1	06/28/1993	NA	NA	NA	NA	NA	NA	NA	37.96	3.76	34.20	NA
MW-1	07/21/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	4.09	33.87	4.6
MW-1	10/19/1993	50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.58	34.38	4.3
MW-1	01/20/1994	Well inaccessible		NA	NA	NA	NA	NA	37.96	NA	NA	NA
MW-1	04/12/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.60	34.36	7.5
MW-1	07/20/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	4.10	33.86	3.2
MW-1	10/06/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	4.30	33.66	3.2
MW-1	01/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	2.94	35.02	10.6
MW-1	07/06/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.68	34.28	NA
MW-1	01/24/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	2.12	35.84	NA
MW-1	07/12/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	37.96	3.58	34.38	2.7

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	01/16/1997	120	14	10	3.6	14	<2.5	NA	37.96	2.30	35.66	3
MW-1	10/24/1997	<50	<0.50	<0.50	<0.50	<0.50	8.6	NA	37.96	3.66	34.30	4.5
MW-1	05/13/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	37.96	2.81	35.15	5.1
MW-1	10/01/1998	<50	<0.50c	<0.50c	<0.50c	<0.50c	<2.5c	NA	37.96	3.75	34.21	5.0
MW-1	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	37.96	3.52	34.44	4.1
MW-1	11/01/1999	<50.0	<0.500	<0.500	<0.500	<0.500	5.03	NA	37.96	4.05	33.91	3.6
MW-1	04/05/2000	<50.0	<0.500	<0.500	<0.500	<0.500	3.22	NA	37.96	3.74	34.22	4.2
MW-1	10/30/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	37.96	2.19	35.77	4.1
MW-1	04/27/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	37.96	4.43	33.53	1.9
MW-1	10/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	37.96	4.34	33.62	2.4
MW-1	05/09/2002	Well inaccessible		NA	NA	NA	NA	NA	37.96	NA	NA	NA
MW-1	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	37.96	3.53	34.43	1.2
MW-1	10/23/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	40.94	3.68	37.26	3.5
MW-1	01/22/2003	Well inaccessible		NA	NA	NA	NA	NA	40.94	NA	NA	NA
MW-1	01/29/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	40.94	3.25	37.69	3.7
MW-1	04/30/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	40.94	2.76	38.18	3.6
MW-1	**07/14/2003**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**1.4**	**40.94**	**3.15**	**37.79**	**0.5**
MW-2	07/12/1989	60	2.7	<1	<1	<3	NA	NA	34.89	3.66	31.23	NA
MW-2	01/30/1990	<50	6.6	<0.5	0.54	0.93	NA	NA	34.89	3.49	31.40	NA
MW-2	04/27/1990	60	2.1	<0.5	<0.5	<0.5	NA	NA	34.89	3.79	31.10	NA
MW-2	07/31/1990	70	1.5	<0.5	<0.5	<0.5	NA	NA	34.89	4.03	30.86	NA
MW-2	10/30/1990	70	<0.5	0.7	<0.5	1.6	NA	NA	34.89	4.21	30.68	NA
MW-2	01/31/1991	80	<0.5	<0.5	0.9	1.9	NA	NA	34.89	4.09	30.80	NA
MW-2	04/30/1991	100	5.9	0.6	0.7	2	NA	NA	34.89	3.95	30.94	NA
MW-2	07/30/1991	<50	<0.5	<0.7	<0.5	<0.5	NA	NA	34.89	4.07	30.82	NA
MW-2	10/29/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.89	4.11	30.78	NA

WELL CONCENTRATIONS
Shell-branded Service Station
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Piedmont, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	01/20/1992	<30	0.84	<0.3	<0.41	<0.48	NA	NA	34.89	3.86	31.03	NA
MW-2	04/14/1992	70	16	<0.5	3.1	2.1	NA	NA	34.89	3.66	34.30	NA
MW-2	07/21/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.89	3.92	30.97	NA
MW-2	10/02/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.89	4.45	30.44	NA
MW-2	01/20/1993	<50	3.8	<0.5	0.52	<0.5	NA	NA	34.89	3.74	31.15	NA
MW-2	05/03/1993	680a	2.8	<0.5	<0.5	<0.5	NA	NA	34.89	3.77	31.12	0.9
MW-2	06/28/1993	NA	NA	NA	NA	NA	NA	NA	34.89	3.96	30.93	NA
MW-2	07/21/1993	<50	8	1.2	1.8	7.9	NA	NA	34.89	4.39	30.50	5.9
MW-2	10/19/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.89	3.92	30.97	5.7
MW-2	01/20/1994	<50	1.5	<0.5	<0.5	<0.5	NA	NA	34.89	4.45	30.44	3.2
MW-2	04/12/1994	<50	2.9	<0.5	<0.5	<0.5	NA	NA	34.89	4.72	30.17	11.4
MW-2	07/20/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.89	5.32	29.57	2.4
MW-2	10/06/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.89	4.03	30.86	2.9
MW-2	01/20/1995	290	28	<0.5	<0.5	<0.5	NA	NA	34.89	3.89	31.00	4.6
MW-2	07/06/1995	120	3	<0.5	<0.5	<0.5	NA	NA	34.89	8.84	26.05	NA
MW-2	01/24/1996	70	3.1	<0.5	0.8	1.5	NA	NA	34.89	3.80	31.09	NA
MW-2 (D)	01/24/1996	70	3.2	0.5	0.7	1.5	NA	NA	34.89	NA	NA	NA
MW-2	07/12/1996	<50	0.68	<0.5	<0.5	<0.5	270	NA	34.89	3.85	31.04	3.8
MW-2	01/16/1997	230	34	1.6	1.6	4.2	460	NA	34.89	3.84	31.05	NA
MW-2	10/24/1997	<50	<0.50	<0.50	<0.50	<0.50	54	NA	34.89	3.75	31.14	2.9
MW-2	05/13/1998	NA	NA	NA	NA	NA	NA	NA	34.89	3.78	31.11	NA
MW-2	10/01/1998	<50	<0.50c	<0.50c	<0.50c	<0.50c	100	NA	34.89	4.90	29.99	3.0
MW-2	04/29/1999	NA	NA	NA	NA	NA	NA	NA	34.89	4.69	30.20	NA
MW-2	11/01/1999	<50.0	<0.500	1.29	0.669	4.52	7.21	NA	34.89	5.24	29.65	2.9
MW-2	04/05/2000	376d	68.1d	3.10d	2.88d	5.35d	729d	NA	34.89	3.43	31.46	3.6
MW-2	10/30/2000	5,790	59.2	315	162	1320	346	NA	34.89	2.35	32.54	2.8
MW-2	04/27/2001	2,720	90.8	22.8	18.1	165	512	578	34.89	4.67	30.22	0.9

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	10/31/2001	<10,000	<100	<100	<100	<100	NA	<100	34.89	3.68	31.21	1.3
MW-2	05/09/2002	490	1.5	7.8	2.1	14	NA	200	34.89	3.18	31.71	1.1
MW-2	07/25/2002	1,200	1.0	3.3	1.3	8.3	NA	45	34.89	3.30	31.59	0.4
MW-2	10/23/2002	1,100	0.85	3.8	1.3	7.9	NA	140	37.87	3.87	34.00	0.8
MW-2	01/22/2003	730	<0.50	100	0.96	5.4	NA	230	37.87	2.68	35.19	1.5
MW-2	04/30/2003	<500	<5.0	23	<5.0	<10	NA	410	37.87	3.42	34.45	0.1
MW-2	**07/14/2003**	**<800**	**1.2**	**59**	**1.4**	**9.8**	**NA**	**60**	**37.87**	**3.50**	**34.37**	**1.1**
MW-3	07/12/1989	3,900	380	41	99	30	NA	NA	35.00	3.83	31.17	NA
MW-3	01/30/1990	5,500	440	35	79	130	NA	NA	35.00	3.24	31.76	NA
MW-3	04/27/1990	4,500	310	26	37	110	NA	NA	35.00	4.02	30.98	NA
MW-3	07/31/1990	3,500	210	17	8.4	62	NA	NA	35.00	4.31	30.69	NA
MW-3	10/30/1990	2,300	610	<0.5	<0.5	28	NA	NA	35.00	4.52	30.48	NA
MW-3	01/31/1991	4,100	300	20	19	81	NA	NA	35.00	4.33	30.67	NA
MW-3	04/30/1991	3,800	370	19	8.6	60	NA	NA	35.00	3.79	31.21	NA
MW-3	07/30/1991	3,300	160	13	15	87	NA	NA	35.00	4.37	30.63	NA
MW-3	10/29/1991	1,000	35	2.8	2.9	8.1	NA	NA	35.00	4.00	31.00	NA
MW-3	01/20/1992	6,900	380	18	47	48	NA	NA	35.00	3.87	31.13	NA
MW-3	04/14/1992	6,000	480	38	41	55	NA	NA	35.00	3.15	31.85	NA
MW-3	07/21/1992	3,700	330	13	30	23	NA	NA	35.00	4.17	30.83	NA
MW-3	10/02/1992	4,200	260	10	13	12	NA	NA	35.00	4.43	30.57	NA
MW-3	01/20/1993	4,200	360	15	32	26	NA	NA	35.00	2.20	32.80	NA
MW-3 (D)	01/20/1993	3,900	370	15	32	26	NA	NA	35.00	NA	NA	NA
MW-3	05/03/1993	12,000	290	520	120	620	NA	NA	35.00	3.50	31.50	0.6
MW-3	06/28/1993	NA	NA	NA	NA	NA	NA	NA	35.00	4.08	30.92	NA
MW-3	07/21/1993	2,000	170	12	<10	11	NA	NA	35.00	4.12	30.88	4.3
MW-3 (D)	07/21/1993	2,000	170	10	<10	14	NA	NA	35.00	NA	NA	NA

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MW-3	10/19/1993	2,000	240	<0.5	<0.5	<0.5	NA	NA	35.00	4.20	30.80	5.7
MW-3	01/20/1994	4,200	280	<10	<10	<10	NA	NA	35.00	4.08	30.92	4.1
MW-3 (D)	01/20/1994	3,800	250	<10	<10	<10	NA	NA	35.00	NA	NA	4.1
MW-3	04/12/1994	4,700	380	<10	<10	<10	NA	NA	35.00	3.70	31.30	10.6
MW-3 (D)	04/12/1994	3,400	370	<25	<25	<25	NA	NA	35.00	NA	NA	NA
MW-3	07/20/1994	5,100	320	77	15	34	NA	NA	35.00	4.26	30.74	2.3
MW-3 (D)	07/20/1994	4,400	250	14	13	32	NA	NA	35.00	NA	NA	NA
MW-3	10/06/1994	4,300	280	9.7	4	15	NA	NA	35.00	4.31	30.69	2.3
MW-3	01/20/1995	4,600	180	18	16	10	NA	NA	35.00	3.00	32.00	11.1
MW-3 (D)	01/20/1995	4,300	170	12	15	7.2	NA	NA	35.00	NA	NA	NA
MW-3	07/06/1995	3,900	310	<0.5	7.6	13	NA	NA	35.00	3.75	31.25	NA
MW-3 (D)	07/06/1995	4,100	330	<0.5	7.9	2.4	NA	NA	35.00	NA	NA	NA
MW-3	01/24/1996	5,000	210	14	14	12	NA	NA	35.00	3.26	31.74	NA
MW-3	07/12/1996	2,700	210	<0.5	<0.5	<0.5	3,600	NA	35.00	3.77	31.23	2.4
MW-3 (D)	07/12/1996	2,800	210	<0.5	<0.5	<0.5	3,400	NA	35.00	NA	NA	2.4
MW-3	01/16/1997	4,200	130	19	10	34	4,400	4,600	35.00	2.38	32.62	2.3
MW-3	10/24/1997	4,100	270	9	5.1	8.8	2,000	NA	35.00	4.12	30.88	1.9
MW-3 (D)	10/24/1997	1,700	220	<5.0	<5.0	<5.0	1,500	NA	35.00	NA	NA	1.9
MW-3	05/13/1998	NA	NA	NA	NA	NA	NA	NA	35.00	3.22	31.78	NA
MW-3	10/01/1998	1,400	84c	<5.0c	<5.0c	<5.0c	2,300	NA	35.00	4.15	30.85	2.0
MW-3 (D)	10/01/1998	2,100	100c	<10c	<10c	<10c	2,600	NA	35.00	NA	NA	2.0
MW-3	04/29/1999	NA	NA	NA	NA	NA	NA	NA	35.00	4.27	30.73	NA
MW-3	11/01/1999	1,850	94.3	6.09	<5.00	6.67	4,140	NA	35.00	4.65	30.35	2.2
MW-3	04/05/2000	3,070	96.9	12.1	<10.0	<10.0	1,050	NA	35.00	3.50	31.50	2.7
MW-3	10/30/2000	1,570	56.8	1.91	1.39	3.06	572	524	35.00	3.40	31.60	3.1
MW-3	04/27/2001	2,420	103	12.6	<5.00	15.6	314	NA	35.00	3.67	31.33	0.9
MW-3	10/31/2001	<50	0.71	<0.50	<0.50	<0.50	NA	31	35.00	3.79	31.21	1.6

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MW-3	05/09/2002	2,000	52	<10	<10	<10	NA	4,100	35.00	3.76	31.24	0.9
MW-3	07/25/2002	1,800	50	<5.0	<5.0	<5.0	NA	1,900	35.00	4.17	30.83	3.7
MW-3	10/23/2002	1,700	27	<5.0	<5.0	<5.0	NA	1,400	37.97	4.36	33.61	1.6
MW-3	01/22/2003	1,800	38	2.4	1.5	2.4	NA	390	37.97	3.09	34.88	1.3
MW-3	04/30/2003	3,300	56	5.2	<5.0	<10	NA	540	37.97	3.39	34.58	1.5
MW-3	**07/14/2003**	**1,000**	**20**	**2.7**	**<2.5**	**<5.0**	**NA**	**360**	**37.97**	**4.05**	**33.92**	**1.5**
MW-4	01/30/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.50	29.23	NA
MW-4	04/27/1990	130a	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.62	30.11	NA
MW-4	07/31/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.19	29.54	NA
MW-4	10/30/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.19	29.54	NA
MW-4	01/31/1991	50a	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.49	29.24	NA
MW-4	04/30/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.02	29.71	NA
MW-4	07/30/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.39	29.34	NA
MW-4	10/29/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.75	29.98	NA
MW-4	01/20/1992	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	33.73	3.94	29.79	NA
MW-4	04/14/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.71	30.02	NA
MW-4	07/21/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.02	29.71	NA
MW-4	10/02/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.13	29.60	NA
MW-4	01/20/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.10	30.63	NA
MW-4	05/03/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.70	30.03	1.7
MW-4	06/28/1993	NA	NA	NA	NA	NA	NA	NA	33.73	3.81	29.92	NA
MW-4	07/21/1993	<50	0.56	<0.5	<0.5	<0.5	NA	NA	33.73	3.81	29.92	4.5
MW-4	10/19/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.94	29.79	5.8
MW-4	01/20/1994	<50	0.71	<0.5	<0.5	<0.5	NA	NA	33.73	4.00	29.73	4.4
MW-4	04/12/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.01	29.72	7.3
MW-4	07/20/1994	160	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.91	29.82	6.4

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MW-4	10/06/1994	410	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.99	29.74	5.0
MW-4	01/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.56	30.17	4.9
MW-4	07/06/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.85	29.88	NA
MW-4	01/24/1996	<50	<0.5	<0.5	0.6	1.8	NA	NA	33.73	2.56	31.17	NA
MW-4	07/12/1996	<50	<0.5	<0.5	<0.5	<0.5	b	NA	33.73	3.36	30.37	2.7
MW-4	01/16/1997	Well inaccessible		NA	NA	NA	NA	NA	33.73	NA	NA	NA
MW-4	10/24/1997	Well inaccessible		NA	NA	NA	NA	NA	33.73	NA	NA	NA
MW-4	05/13/1998	Well inaccessible		NA	NA	NA	NA	NA	33.73	NA	NA	NA
MW-4	10/01/1998	<50	<0.50c	<0.50c	<0.50c	0.74c	8.1	NA	33.73	3.90	29.83	2.5
MW-4	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	5.7	NA	33.73	3.97	29.76	2.1
MW-4	11/01/1999	Well inaccessible		NA	NA	NA	NA	NA	33.73	NA	NA	NA
MW-4	04/05/2000	<50.0	<0.500	<0.500	<0.500	<0.500	3.64	NA	33.73	3.63	30.10	2.1
MW-4	10/30/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	33.73	3.33	30.40	3.0
MW-4	04/27/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	33.73	3.48	30.25	2.2
MW-4	10/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	33.73	3.58	30.15	2.8
MW-4	05/09/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	33.73	3.74	29.99	2.0
MW-4	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	33.73	3.71	30.02	1.3
MW-4	10/23/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	36.72	3.93	32.79	2.6
MW-4	01/22/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	36.72	3.67	33.05	3.1
MW-4	04/30/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	36.72	3.46	33.26	2.8
MW-4	**07/14/2003**	**56 a**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**36.72**	**3.75**	**32.97**	**2.4**
MW-5	01/30/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	7.12	24.26	NA
MW-5	04/27/1990	210a	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.19	27.19	NA
MW-5	07/31/1990	90	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.09	27.29	NA
MW-5	10/30/1990	100	0.8	0.7	0.6	1.4	NA	NA	31.38	4.39	26.99	NA
MW-5	01/31/1991	80a	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.49	26.89	NA

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MW-5	04/30/1991	90	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.27	27.11	NA
MW-5	07/30/1991	90	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.32	27.06	NA
MW-5	10/29/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	3.79	27.59	NA
MW-5	01/20/1992	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	31.38	4.09	27.29	NA
MW-5	04/14/1992	<50a	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.12	27.26	NA
MW-5	07/21/1992	74a	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.13	27.25	NA
MW-5	10/02/1992	76a	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.30	27.08	NA
MW-5	01/20/1993	72a	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	3.12	28.26	NA
MW-5	05/03/1993	70a	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.07	27.31	1.6
MW-5 (D)	05/04/1993	80a	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	NA	NA	NA
MW-5	06/28/1993	NA	NA	NA	NA	NA	NA	NA	31.38	4.08	27.30	NA
MW-5	07/21/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.05	27.33	3.5
MW-5	10/19/1993	51	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.20	27.18	3.8
MW-5	01/20/1994	90	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.40	26.98	4.2
MW-5	04/12/1994	67	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.18	27.20	NA
MW-5	07/20/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.06	27.32	3.2
MW-5	10/06/1994	80	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.01	27.37	2.1
MW-5 (D)	10/06/1994	60	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	NA	NA	NA
MW-5	01/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	3.49	27.89	3.2
MW-5	07/06/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.06	27.32	NA
MW-5	01/24/1996	70	<0.5	<0.5	0.8	2.9	NA	NA	31.38	2.90	28.48	NA
MW-5	07/12/1996	62	<0.5	<0.5	<0.5	<0.5	b	NA	31.38	4.02	27.36	1.9
MW-5	01/16/1997	66	0.91	0.89	<0.50	1.7	<2.5	NA	31.38	2.59	28.79	2.2
MW-5 (D)	01/16/1997	<50	0.7	0.78	<0.50	1.3	<2.5	NA	31.38	NA	NA	2.2
MW-5	10/24/1997	59	<0.50	<0.50	<0.50	<0.50	17	NA	31.38	4.15	27.23	4.6
MW-5	05/13/1998	72	<0.50	<0.50	<0.50	<0.50	<2.5	NA	31.38	3.64	27.74	2.1
MW-5 (D)	05/13/1998	70	<0.50	<0.50	<0.50	<0.50	<2.5	NA	31.38	NA	NA	2.1

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MW-5	10/01/1998	57	<0.50c	<0.50c	<0.50c	0.62c	20	NA	31.38	4.25	27.13	2.2
MW-5	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	16	NA	31.38	4.56	26.82	2.0
MW-5	11/01/1999	<50.0	<0.500	<0.500	<0.500	<0.500	3.06	NA	31.38	4.19	27.19	2.2
MW-5	04/05/2000	<50.0	<0.500	<0.500	<0.500	<0.500	22.5	NA	31.38	4.34	27.04	2.2
MW-5	10/30/2000	<50.0	<0.500	<0.500	<0.500	<0.500	19.3	NA	31.38	3.25	28.13	4.0
MW-5	04/27/2001	51.5	<0.500	<0.500	<0.500	<0.500	4.29	NA	31.38	4.07	27.31	1.0
MW-5	10/31/2001	210	<0.50	<0.50	<0.50	<0.50	NA	<5.0	31.38	4.02	27.36	1.5
MW-5	05/09/2002	280	0.71	<0.50	<0.50	<0.50	NA	<5.0	31.38	4.31	27.07	1.7
MW-5	07/25/2002	410	<0.50	<0.50	<0.50	<0.50	NA	<5.0	31.38	4.32	27.06	0.7
MW-5	10/23/2002	290	<0.50	<0.50	<0.50	<0.50	NA	<0.50	34.36	4.37	29.99	2.3
MW-5	01/22/2003	260	<0.50	<0.50	<0.50	<0.50	NA	<5.0	34.36	4.12	30.24	2.4
MW-5	04/30/2003	90 e	<0.50	<0.50	<0.50	<1.0	NA	<5.0	34.36	3.88	30.48	1.5
MW-5	**07/14/2003**	**72 a**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**34.36**	**4.57**	**29.79**	**1.0**
E-4	07/12/1989	<50	<0.5	<1	<1	<3	NA	NA	34.63	NA	>39.13	NA
E-4	01/30/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	04/27/1990	120a	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	07/31/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	10/30/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	01/31/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	04/30/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	07/30/1991	<50	<0.5	0.6	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	10/29/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	01/20/1992	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	34.63	NA	>34.63	NA
E-4	04/14/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	07/21/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	10/02/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
E-4	01/20/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	05/03/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	0.6
E-4	06/28/1993	NA	NA	NA	NA	NA	NA	NA	34.63	NA	>34.63	NA
E-4	07/21/1993	<50	5.4	0.72	1	4.4	NA	NA	34.63	NA	>34.63	5.4
E-4	10/19/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	5.6
E-4	01/20/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	04/12/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	9.4
E-4	07/20/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	2.0
E-4	10/06/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	1.3
E-4	01/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	3.7
E-4	05/16/1995	Well abandoned		NA	NA	NA	NA	NA	NA	NA	NA	NA

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to October 31, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to October 31, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

NA = Not applicable

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)

Notes:

a = Chromatogram pattern indicated an unidentified hydrocarbon/ hydrocarbon reported does not match pattern of laboratory's standard.

b = Due to coelution with early eluters, no result could be determined for MTBE

c = Laboratory reported 1.3 ug/L benzene, 11 ug/L toluene, 0.98 ug/L ethyl benzene, and 6.5 ug/L total xylenes in the equipment blank.

d = Result reported was generated out of hold time.

e = Hydrocarbon reported in the gasoline range does not match STL's gasoline standard.

Well E-4 is a flowing artesian well; potentiometric surface above top-of-casing elevation.

Site surveyed March 5, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

SEVERN TRENT STL

Submission#: 2003-07-0443

Blaine Tech Services, Inc.

July 28, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

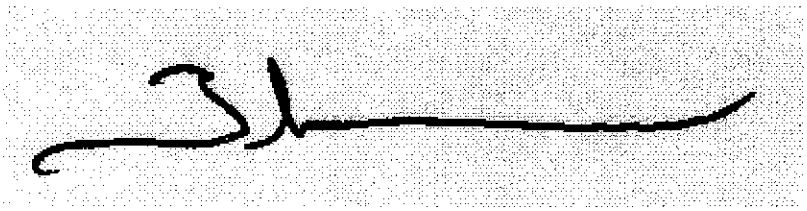
Project#: 030714-SS2
Project: 98995822
Site: 29 Wildwood Avenue, Piedmont

Dear Mr.Gearhart,

Attached is our report for your samples received on 07/15/2003 16:23
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/29/2003 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030714-SS2
98995822

Received: 07/15/2003 16:23

Site: 29 Wildwood Avenue, Piedmont

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	07/14/2003 13:00	Water	1
MW-2	07/14/2003 13:08	Water	2
MW-3	07/14/2003 13:15	Water	3
MW-4	07/14/2003 12:00	Water	4
MW-5	07/14/2003 12:20	Water	5

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030714-SS2
98995822

Received: 07/15/2003 16:23

Site: 29 Wildwood Avenue, Piedmont

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-1**	Lab ID:	2003-07-0443 - 1
Sampled:	07/14/2003 13:00	Extracted:	7/23/2003 20:28
Matrix:	Water	QC Batch#:	2003/07/23-1B.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/23/2003 20:28	
Benzene	ND	0.50	ug/L	1.00	07/23/2003 20:28	
Toluene	ND	0.50	ug/L	1.00	07/23/2003 20:28	
Ethylbenzene	ND	0.50	ug/L	1.00	07/23/2003 20:28	
Total xylenes	ND	1.0	ug/L	1.00	07/23/2003 20:28	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/23/2003 20:28	
Methyl tert-butyl ether (MTBE)	1.4	0.50	ug/L	1.00	07/23/2003 20:28	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	07/23/2003 20:28	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	07/23/2003 20:28	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	07/23/2003 20:28	
Surrogates(s)						
1,2-Dichloroethane-d4	94.1	76-130	%	1.00	07/23/2003 20:28	
Toluene-d8	101.5	78-115	%	1.00	07/23/2003 20:28	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030714-SS2
98995822

Received: 07/15/2003 16:23

Site: 29 Wildwood Avenue, Piedmont

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-2**	Lab ID:	2003-07-0443 - 2
Sampled:	07/14/2003 13:08	Extracted:	7/23/2003 21:57 7/24/2003 23:49 7/24/2003 23:49
Matrix:	Water	QC Batch#:	2003/07/23-02.65 2003/07/23-02.65 2003/07/24-02.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	800	50	ug/L	1.00	07/24/2003 23:49	
Benzene	1.2	0.50	ug/L	1.00	07/24/2003 23:49	
Toluene	59	0.50	ug/L	1.00	07/24/2003 23:49	
Ethylbenzene	1.4	0.50	ug/L	1.00	07/24/2003 23:49	
Total xylenes	9.8	1.0	ug/L	1.00	07/24/2003 23:49	
tert-Butyl alcohol (TBA)	8.6	5.0	ug/L	1.00	07/24/2003 23:49	
Methyl tert-butyl ether (MTBE)	60	0.50	ug/L	1.00	07/24/2003 23:49	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	07/24/2003 23:49	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	07/24/2003 23:49	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	07/24/2003 23:49	
Ethanol	7000	1000	ug/L	20.00	07/23/2003 21:57	
Surrogates(s)						
1,2-Dichloroethane-d4	107.7	76-130	%	1.00	07/24/2003 23:49	
1,2-Dichloroethane-d4	102.0	76-130	%	1.00	07/23/2003 21:57	
Toluene-d8	103.4	78-115	%	1.00	07/24/2003 23:49	
Toluene-d8	105.1	78-115	%	1.00	07/23/2003 21:57	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 030714-SS2
98995822

Received: 07/15/2003 16:23

Site: 29 Wildwood Avenue, Piedmont

Prep(s): 5030B
Test(s): 8260FAB
Sample ID: **MW-3**
Lab ID: 2003-07-0443-3
Sampled: 07/14/2003 13:15
Extracted: 7/23/2003 22:20
Matrix: Water
QC Batch#: 2003/07/23-02.65
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1000	250	ug/L	5.00	07/23/2003 22:20	
Benzene	20	2.5	ug/L	5.00	07/23/2003 22:20	
Toluene	2.7	2.5	ug/L	5.00	07/23/2003 22:20	
Ethylbenzene	ND	2.5	ug/L	5.00	07/23/2003 22:20	
Total xylenes	ND	5.0	ug/L	5.00	07/23/2003 22:20	
tert-Butyl alcohol (TBA)	72	25	ug/L	5.00	07/23/2003 22:20	
Methyl tert-butyl ether (MTBE)	360	2.5	ug/L	5.00	07/23/2003 22:20	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	5.00	07/23/2003 22:20	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	07/23/2003 22:20	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	07/23/2003 22:20	
Ethanol	ND	250	ug/L	5.00	07/23/2003 22:20	
Surrogates(s)						
1,2-Dichloroethane-d4	101.2	76-130	%	5.00	07/23/2003 22:20	
Toluene-d8	103.5	78-115	%	5.00	07/23/2003 22:20	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

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Project: 030714-SS2
98995822

Received: 07/15/2003 16:23

Site: 29 Wildwood Avenue, Piedmont

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-4**	Lab ID:	2003-07-0443 - 4
Sampled:	07/14/2003 12:00	Extracted:	7/23/2003 22:42
Matrix:	Water	QC Batch#:	2003/07/23-02.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	56	50	ug/L	1.00	07/23/2003 22:42	g
Benzene	ND	0.50	ug/L	1.00	07/23/2003 22:42	
Toluene	ND	0.50	ug/L	1.00	07/23/2003 22:42	
Ethylbenzene	ND	0.50	ug/L	1.00	07/23/2003 22:42	
Total xylenes	ND	1.0	ug/L	1.00	07/23/2003 22:42	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/23/2003 22:42	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/23/2003 22:42	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	07/23/2003 22:42	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	07/23/2003 22:42	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	07/23/2003 22:42	
Surrogates(s)						
1,2-Dichloroethane-d4	119.0	76-130	%	1.00	07/23/2003 22:42	
Toluene-d8	103.7	78-115	%	1.00	07/23/2003 22:42	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030714-SS2
98995822

Received: 07/15/2003 16:23

Site: 29 Wildwood Avenue, Piedmont

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-5**	Lab ID:	2003-07-0443 - 5
Sampled:	07/14/2003 12:20	Extracted:	7/23/2003 15:04
Matrix:	Water	QC Batch#:	2003/07/23-1B.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	72	50	ug/L	1.00	07/23/2003 15:04	g
Benzene	ND	0.50	ug/L	1.00	07/23/2003 15:04	
Toluene	ND	0.50	ug/L	1.00	07/23/2003 15:04	
Ethylbenzene	ND	0.50	ug/L	1.00	07/23/2003 15:04	
Total xylenes	ND	1.0	ug/L	1.00	07/23/2003 15:04	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/23/2003 15:04	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/23/2003 15:04	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	07/23/2003 15:04	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	07/23/2003 15:04	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	07/23/2003 15:04	
Surrogates(s)						
1,2-Dichloroethane-d4	118.9	76-130	%	1.00	07/23/2003 15:04	
Toluene-d8	101.9	78-115	%	1.00	07/23/2003 15:04	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030714-SS2
98995822

Received: 07/15/2003 16:23

Site: 29 Wildwood Avenue, Piedmont

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/07/23-02.65**

MB: 2003/07/23-02.65-035 — Date Extracted: 07/23/2003 21:35

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/23/2003 21:35	
Benzene	ND	0.5	ug/L	07/23/2003 21:35	
Toluene	ND	0.5	ug/L	07/23/2003 21:35	
Ethylbenzene	ND	0.5	ug/L	07/23/2003 21:35	
Total xylenes	ND	1.0	ug/L	07/23/2003 21:35	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/23/2003 21:35	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/23/2003 21:35	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	07/23/2003 21:35	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	07/23/2003 21:35	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	07/23/2003 21:35	
Ethanol	ND	50	ug/L	07/23/2003 21:35	
Surrogates(s)					
1,2-Dichloroethane-d4	92.5	76-130	%	07/23/2003 21:35	
Toluene-d8	105.1	78-115	%	07/23/2003 21:35	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030714-SS2
98995822

Received: 07/15/2003 16:23

Site: 29 Wildwood Avenue, Piedmont

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/07/23-1B.65**

MB: 2003/07/23-1B.65-029 — Date Extracted: 07/23/2003 10:29

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/23/2003 10:29	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/23/2003 10:29	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/23/2003 10:29	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	07/23/2003 10:29	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	07/23/2003 10:29	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	07/23/2003 10:29	
Benzene	ND	0.5	ug/L	07/23/2003 10:29	
Toluene	ND	0.5	ug/L	07/23/2003 10:29	
Ethylbenzene	ND	0.5	ug/L	07/23/2003 10:29	
Total xylenes	ND	1.0	ug/L	07/23/2003 10:29	
Ethanol	ND	50	ug/L	07/23/2003 10:29	
Surrogates(s)					
1,2-Dichloroethane-d4	93.3	76-130	%	07/23/2003 10:29	
Toluene-d8	101.7	78-115	%	07/23/2003 10:29	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030714-SS2
98995822

Received: 07/15/2003 16:23

Site: 29 Wildwood Avenue, Piedmont

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/07/24-02.64**

MB: 2003/07/24-02.64-020 — Date Extracted: 07/24/2003 22:20

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/24/2003 22:20	
Benzene	ND	0.5	ug/L	07/24/2003 22:20	
Toluene	ND	0.5	ug/L	07/24/2003 22:20	
Ethylbenzene	ND	0.5	ug/L	07/24/2003 22:20	
Total xylenes	ND	1.0	ug/L	07/24/2003 22:20	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/24/2003 22:20	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/24/2003 22:20	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	07/24/2003 22:20	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	07/24/2003 22:20	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	07/24/2003 22:20	
Ethanol	ND	50	ug/L	07/24/2003 22:20	
Surrogates(s)					
1,2-Dichloroethane-d4	102.4	76-130	%	07/24/2003 22:20	
Toluene-d8	105.0	78-115	%	07/24/2003 22:20	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030714-SS2
98995822

Received: 07/15/2003 16:23

Site: 29 Wildwood Avenue, Piedmont

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Laboratory Control Spike — **Water** — **QC Batch # 2003/07/23-02.65**

LCS 2003/07/23-02.65-051 — Extracted: 07/23/2003 — Analyzed: 07/23/2003 20:51

LCSD 2003/07/23-02.65-013 — Extracted: 07/23/2003 — Analyzed: 07/23/2003 21:13

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	19.8	19.3	25.0	79.2	77.2	2.6	69-129	20		
Toluene	19.8	19.9	25.0	79.2	79.6	0.5	70-130	20		
Methyl tert-butyl ether (MTBE)	18.5	18.1	25.0	74.0	72.4	2.2	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	490	478	500	98.0	95.6		76-130			
Toluene-d8	525	526	500	105.0	105.2		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030714-SS2
98995822

Received: 07/15/2003 16:23

Site: 29 Wildwood Avenue, Piedmont

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Laboratory Control Spike — **Water** — **QC Batch # 2003/07/23-1B.65**

LCS 2003/07/23-1B.65-044 — Extracted: 07/23/2003 — Analyzed: 07/23/2003 09:44

LCSD 2003/07/23-1B.65-006 — Extracted: 07/23/2003 — Analyzed: 07/23/2003 10:06

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	18.4	20.2	25	73.6	80.8	9.3	65-165	20		
Benzene	21.7	21.9	25	86.8	87.6	0.9	69-129	20		
Toluene	21.8	22.2	25	87.2	88.8	1.8	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	467	472	500	93.4	94.4		76-130			
Toluene-d8	531	502	500	106.2	100.4		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030714-SS2
98995822

Received: 07/15/2003 16:23

Site: 29 Wildwood Avenue, Piedmont

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Laboratory Control Spike — **Water** — **QC Batch # 2003/07/24-02.64**

LCS 2003/07/24-02.64-036 — Extracted: 07/24/2003 — Analyzed: 07/24/2003 21:36

LCSD 2003/07/24-02.64-058 — Extracted: 07/24/2003 — Analyzed: 07/24/2003 21:58

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	19.4	19.7	25.0	77.6	78.8	1.5	69-129	20		
Toluene	20.4	20.8	25.0	81.6	83.2	1.9	70-130	20		
Methyl tert-butyl ether (MTBE)	23.2	24.5	25.0	92.8	98.0	5.5	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	541	545	500	108.2	109.0		76-130			
Toluene-d8	534	523	500	106.8	104.6		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

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1680 Rogers Avenue
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Project: 030714-SS2
98995822

Received: 07/15/2003 16:23

Site: 29 Wildwood Avenue, Piedmont

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

SHELL Chain Of Custody Record T6649

Lab Identification (if necessary):
Address:
City, State, Zip:

Shell Project Manager to be Invoiced:

- [x] SCIENCE & ENGINEERING
- [ ] TECHNICAL SERVICES
- [ ] CRMT HOUSTON

Karen Petryna

2003-07-0443

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 8 2 2

SAP or CRMT NUMBER (TS/CRMT):

DATE: 7/14/03

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS (Street and City): 29 Wildwood Avenue, Piedmont

GLOBAL ID NO.: T0600101246

ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112

EDF DELIVERABLE TO (Responsible Party or Designee): Anni Kreml

PHONE NO.: 510-420-3335

E-MAIL: ShellOaklandEDF@cambria-env.com

CONSULTANT PROJECT NO.: BTS # 030714-SS2

PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart

TELEPHONE: 408-573-0555

FAX: 408-573-7771

E-MAIL: lgearhart@blainetech.com

SAMPLER NAME(S) (Print): Sucheon Sung

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): [ ] 10 DAYS [ ] 5 DAYS [ ] 72 HOURS [ ] 48 HOURS [ ] 24 HOURS [ ] LESS THAN 24 HOURS

[ ] LA - RWQCB REPORT FORMAT [ ] UST AGENCY: ______

GC/MS MTBE CONFIRMATION: HIGHEST ______ HIGHEST per BORING ______ ALL ______

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED [ ]

REQUESTED ANALYSIS

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°: 4.7°C

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)		TPH - Diesel, Extractable (8015m)									Field Notes
	MW-1	7/14/03	1300	GW	3	X	X			X															
	MW-2	↓	1308	↓	↓	X	X			X															
	MW-3	↓	1315	↓	↓	X	X			X															
	MW-4	↓	1200	↓	↓	X	X			X															
	MW-5	↓	1220	↓	↓	X	X			X															

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Alex Talosizi	7/15/03	1623
Alex Talosizi	[signature] STL SF	7/15/03	17:30

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

WELL GAUGING DATA

Project # 030714-552 Date 7/14/03 Client 98995822

Site 29 WILDWOOD AVE. PIEDMONT

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	4					3.15	13.07		
MW-2	4					3.50	11.40		
MW-3	4					4.05	8.95		
MW-4	4					3.75	13.08		
MW-5	4					4.57	15.98	↓	
GAUGED w/ ORC IN WELL									

SHELL WELL MONITORING DATA SHEET

BTS #: 030714-557	Site: 9899 5822
Sampler: Scott	Date: 7/14/03
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 13.01	Depth to Water (DTW): 3.15
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.13	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other ____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ____

1 Case Volume		Specified Volumes		Calculated Volume
6.5	(Gals.) X	3	=	19.5 Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1232	71.0	6.9	718	22	6.5	clear
1233	69.5	6.8	746	15	13.0	"
well dewatered @ 13 gal.						DTW = 10.00
1300	72.3	7.0	801	>200	----------	meas'd

Did well dewater? (Yes) No Gallons actually evacuated: 13

Sampling Date: 7/14/03 Sampling Time: 1300 Depth to Water: 3.95

Sample I.D.: MW-1 Laboratory: (STL) Other ____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: OXY's(5) BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	0.5 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030714-SS2	Site: 9899 5822
Sampler: Scott	Date: 7/14/03
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 11.40	Depth to Water (DTW): 3.50
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.08	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

5.1 (Gals.) X 3 = 15.3 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
1214	74.7	5.9	2654	>200	5.1	grey/micro gas odor
WELL DEWATERED @ 5.1 gal.						DTW = 9.00
1308	75.8	6.6	2713	>200	----	GREY

Did well dewater? (Yes) No Gallons actually evacuated: 5.1

Sampling Date: 7/14/03 Sampling Time: 1308 Depth to Water: 8.20 @ SITE DEPART.

Sample I.D.: MW-2 Laboratory: (STL) Other_____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: OXY's(5) BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	1.1 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030714-557	Site: 9899 5822
Sampler: Scott	Date: 7/14/03
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 8.95	Depth to Water (DTW): 4.05
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.03	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, (Electric Submersible), Waterra Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: _____

1 Case Volume	Specified Volumes	Calculated Volume
3.2 (Gals.) X	3	= 9.6 Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1255	75.8	8.7	1199	>200	3.5	Brown/cloudy
well DEWATERED @			3.5 gal.			DTW=5.93
1315	77.7	7.8	1146	>200	———	TURBID

Did well dewater? (Yes) No Gallons actually evacuated: 3.5

Sampling Date: 7/14/03 Sampling Time: 1315 Depth to Water: 4.22

Sample I.D.: MW-3 Laboratory: (STL) Other_____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: OXY's(5) BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	1.5	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030714-557	Site: 9899 5822
Sampler: Scott	Date: 7/14/03
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 13.08	Depth to Water (DTW): 3.75
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.62	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:____

6.1 (Gals.) X 3 = 18.3 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1156	73.4	7.0	500	87	6.1	clear
1157	WELL DEWATERED @ 6.5 gal.					DTW = 10.01
1200	73.5	7.0	478	>200	———	cloudy

Did well dewater? (Yes) No — Gallons actually evacuated: 6.5

Sampling Date: 7/14/03 — Sampling Time: 1200 — Depth to Water: 9.90 (TRAFFIC)

Sample I.D.: MW-4 — Laboratory: (STL) Other____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: OXY's(5) BY 8260

EB I.D. (if applicable): @ Time — Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	2.4	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030714-557	Site: 9899 5822
Sampler: Scott	Date: 7/14/03
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 15.98	Depth to Water (DTW): 4.57
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.85	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: _____

1 Case Volume	Specified Volumes	Calculated Volume
7.4 (Gals.) X	3	= 22.2 Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1212	71.8	7.0	719	17	7.5	CLEAR
1214	70.8	6.9	749	11	15.0	"
1216	71.5	6.9	757	11	22.5	"

Did well dewater? Yes (No) Gallons actually evacuated: 22.5

Sampling Date: 7/14/03 Sampling Time: 1220 Depth to Water: 7.39 (TRAFFIC)

Sample I.D.: MW-5 Laboratory: (STL) Other_____

Analyzed for: (TPH-G BTEX) MTBE TPH-D Other: OXY's(5) BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	1.0 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV