



2003
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Denis L. Brown

June 13, 2005

Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Shell Oil Products US
HSE – Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Re: First Quarter 2005 Monitoring Report
Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, California
SAP Code 135676
Incident No. 98995741

Dear Mr. Wickham:

Attached for your review and comment is a copy of the *First Quarter 2005 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.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

Denis L. Brown
Sr. Environmental Engineer

June 13, 2005

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

Re: **First Quarter 2005 Monitoring Report**
Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, California
Incident # 98995741
Cambria Project # 247-0902-002
ACHCSA Case #3673



Dear Mr. Wickham:

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.

FIRST QUARTER 2005 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled all site wells, calculated groundwater elevations, and compiled the analytical data. Cambria coordinated groundwater monitoring with the adjacent Oakland Auto Works site at 240 West MacArthur. Cambria prepared a site vicinity map that includes previously submitted well survey information (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, presenting the analytical laboratory reports, is included as Attachment A. Attachment B includes data that Stellar Environmental Solutions of Berkeley, California provided for 240 West MacArthur.

Additional Oxygenate Sampling: At Shell's request, during the first quarter 2005 monitoring event, wells MW-1 and MW-3 were also analyzed for di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), and tertiary butyl alcohol (TBA). DIPE, ETBE, and TAME were not detected in either of the samples. TBA was not detected in the sample from well MW-1, but was detected at a concentration of 37 parts per billion in the sample from well MW-3.

**Cambria
Environmental
Technology, Inc.**

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

Fuel System Upgrade: In April, 2005, the station's fuel system was upgraded. Cambria's June 27, 2005 *Dispenser and Piping Upgrade and Limited Over-Excavation Soil Sampling Report* describes and results of sampling conducted during station upgrade activities.

ANTICIPATED SECOND QUARTER 2005 ACTIVITIES

Groundwater Monitoring: Blaine will gauge all wells, sample selected wells, and tabulate the data. Cambria will coordinate monitoring with the adjacent Oakland Auto Works site at 240 West MacArthur Boulevard. Cambria will prepare a monitoring report that includes a groundwater contour map based on the coordinated monitoring data.



CLOSING

We appreciate the opportunity to work with you on this project. Please call David Gibbs at (510) 420-3363 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

David M. Gibbs, P.G.
Project Geologist

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



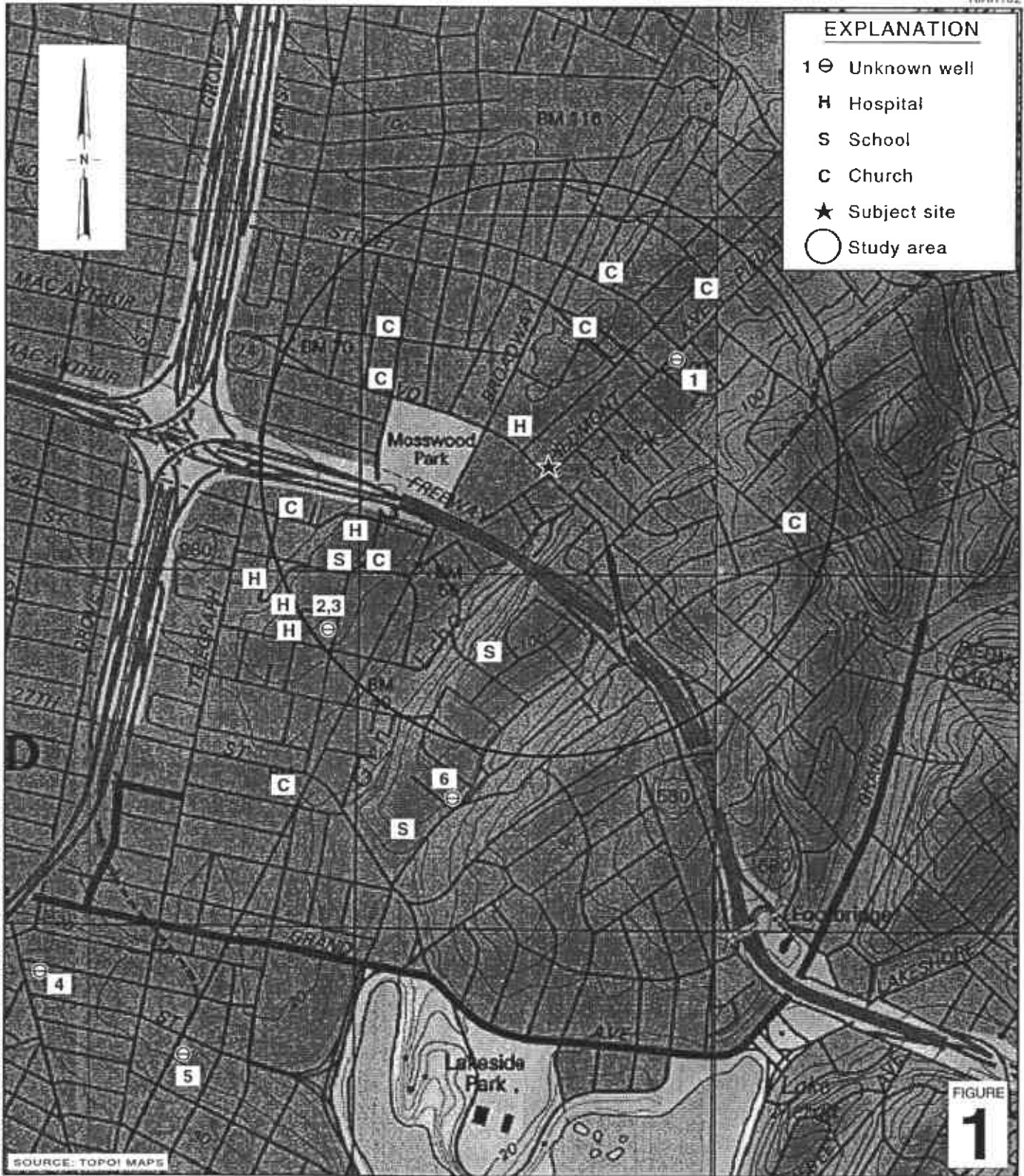
- Figures: 1 - Vicinity/Area Well Survey Map
 2 - Groundwater Elevation Contour Map

- Attachments: A - Blaine Groundwater Monitoring Report
 B - Groundwater Monitoring Data – 240 West MacArthur

cc: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810
 Bruce Ruttger, Stellar Environmental Solutions, 2198 6th Street, Berkeley, CA 94710

EXPLANATION

- 1 ⊖ Unknown well
- H Hospital
- S School
- C Church
- ★ Subject site
- Study area



0 1/8 1/4 1/2 1
SCALE : 1" = 1/4 MILE

Shell-branded Service Station

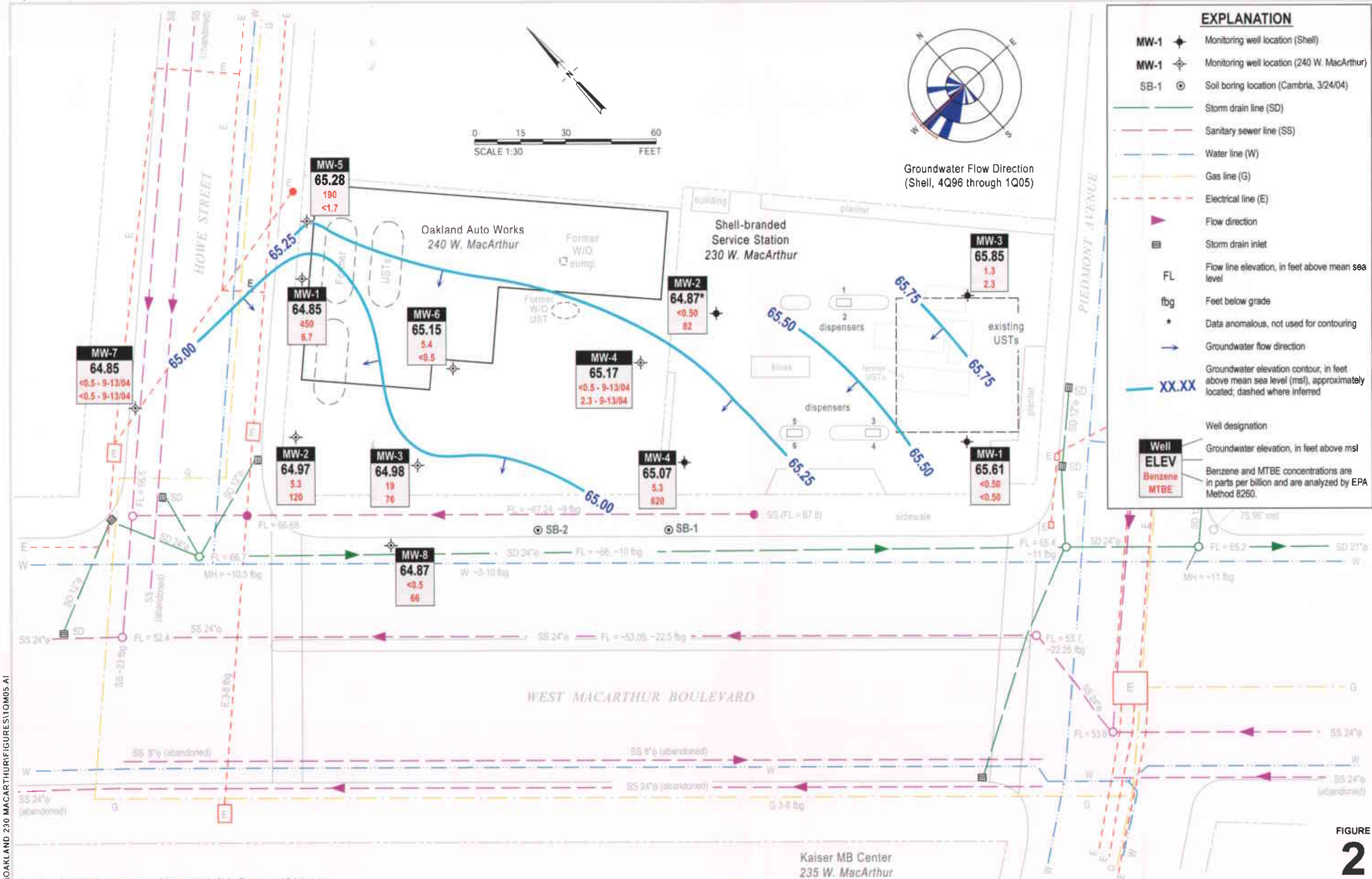
230 West MacArthur Boulevard
Oakland, California
Incident #98995741



C A M B R I A

Vicinity/Area Well Survey Map

(1/2-Mile Radius)



EXPLANATION

- MW-1 ◆ Monitoring well location (Shell)
- MW-1 ◆ Monitoring well location (240 W. MacArthur)
- SB-1 ○ Soil boring location (Cambria, 3/24/04)
- Storm drain line (SD)
- - - Sanitary sewer line (SS)
- Water line (W)
- Gas line (G)
- - - Electrical line (E)
- ▶ Flow direction
- Storm drain inlet
- FL Flow line elevation, in feet above mean sea level
- fbg Feet below grade
- * Data anomalous, not used for contouring
- Groundwater flow direction
- XX.XX Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred

Well designation

Well	ELEV	Benzene	MTBE
		in parts per billion	and are analyzed by EPA Method 8260.

Groundwater Elevation Contour Map

March 3, 2005



C A M B R I A

Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, California
Incident #98995741

FIGURE
2

G:\OAKLAND 230 MACARTHUR\FIGURES\10M05.A1

Site features for 240 W. MacArthur based on figure provided by Stellar Environmental Solutions, Inc.

Kaiser MB Center
235 W. MacArthur

ATTACHMENT A
Blaine Groundwater Monitoring Report

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

March 31, 2005

Karen Petryna
Shell Oil Products US
20945 South Wilmington Avenue
Carson, CA 90810

First Quarter 2005 Groundwater Monitoring at
Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, CA

Monitoring performed on March 3, 2005

Groundwater Monitoring Report 050303-DW-1

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/cl

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

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

WELL CONCENTRATIONS
Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, 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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	07/14/1988	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.30	60.59
MW-1	10/04/1988	ND	8	4.3	ND	9	NA	NA	NA	NA	NA	NA	73.89	13.65	60.24
MW-1	11/10/1988	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.55	60.34
MW-1	12/09/1988	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.22	60.67
MW-1	01/10/1989	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	73.89	12.86	61.03
MW-1	01/20/1989	ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	73.89	12.91	60.98
MW-1	02/06/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	12.94	60.95
MW-1	03/10/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	12.59	61.30
MW-1	06/06/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.05	59.84
MW-1	09/07/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.92	58.97
MW-1	12/18/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.88	59.01
MW-1	03/08/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.08	59.81
MW-1	06/07/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.89	60.00
MW-1	09/05/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.83	59.06
MW-1	12/03/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	15.05	58.84
MW-1	03/01/1991	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.34	59.55
MW-1	06/03/1991	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.16	59.73
MW-1	09/04/1991	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.60	59.29
MW-1	03/13/1992	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.40	60.49
MW-1	06/03/1992	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.76	60.13
MW-1	08/19/1992	87	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.57	59.32
MW-1	11/16/1992	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.78	59.11
MW-1	02/18/1993	59a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	12.14	61.75
MW-1	06/01/1993	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.30	60.59
MW-1	08/30/1993	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.32	59.57
MW-1	12/13/1993	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.06	59.83
MW-1	03/03/1994	100	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.12	60.77

WELL CONCENTRATIONS
Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, 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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	06/06/1994	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.20	59.69
MW-1	09/12/1994	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	15.72	58.17
MW-1	12/15/1994	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	12.98	60.91
MW-1	3/13/1995 b	60	4.7	9.8	ND	2.9	NA	NA	NA	NA	NA	NA	73.89	11.74	62.15
MW-1	04/21/1995	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	NA	NA
MW-1	06/26/1995	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.00	60.89
MW-1	09/12/1995	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.14	59.75
MW-1	03/21/1996	<50	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	NA	NA	73.89	11.03	62.86
MW-1	06/28/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	73.89	13.53	60.36
MW-1	09/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	73.89	14.33	59.56
MW-1	12/19/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.89	13.20	60.69
MW-1	12/05/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.89	12.39	61.50
MW-1	12/24/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.89	13.59	60.30
MW-1	12/23/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.89	15.63	58.26
MW-1	12/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.89	15.36	58.53
MW-1	12/27/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.89	12.09	61.80
MW-1	03/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.89	12.33	61.56
MW-1	03/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	73.89	12.08	61.81
MW-1	06/13/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.89	13.47	60.42
MW-1	09/09/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.92	14.30	62.62
MW-1	12/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.92	14.48	62.44
MW-1	03/10/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	76.92	12.76	64.16
MW-1	06/10/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.92	13.17	63.75
MW-1	09/16/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.92	14.10	62.82
MW-1	12/03/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.92	13.93	62.99
MW-1	03/11/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	76.92	12.04	64.88
MW-1	06/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.92	13.75	63.17
MW-1	09/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.92	14.47	62.45

WELL CONCENTRATIONS
Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, 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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-1	12/07/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.92	13.04	63.88
MW-1	03/03/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	76.92	11.31	65.61

MW-2	07/14/1988	ND	7.9	2.6	1.1	4	NA	NA	NA	NA	NA	NA	75.24	15.18	60.06
MW-2	10/04/1988	90	ND	1.3	2.3	12	NA	NA	NA	NA	NA	NA	75.24	15.30	59.94
MW-2	11/10/1988	ND	ND	ND	ND	2	NA	NA	NA	NA	NA	NA	75.24	15.17	60.07
MW-2	12/09/1988	ND	ND	0.6	ND	3	NA	NA	NA	NA	NA	NA	75.24	14.82	60.42
MW-2	01/20/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	14.54	60.70
MW-2	02/06/1989	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	14.59	60.65
MW-2	03/10/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	14.88	60.36
MW-2	06/06/1989	ND	ND	0.5	ND	ND	NA	NA	NA	NA	NA	NA	75.24	15.30	59.94
MW-2	09/07/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.76	58.48
MW-2	12/18/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.65	58.59
MW-2	03/08/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	15.92	59.32
MW-2	06/07/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.10	59.14
MW-2	09/05/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.61	58.63
MW-2	12/03/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	17.06	58.18
MW-2	03/01/1991	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.62	58.62
MW-2	06/03/1991	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.65	58.59
MW-2	09/04/1991	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.57	58.67
MW-2	03/13/1992	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	14.66	60.58
MW-2	06/03/1992	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	15.90	59.34
MW-2	08/19/1992	67	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.72	58.52
MW-2	11/16/1992	50	ND	ND	ND	1.2	NA	NA	NA	NA	NA	NA	75.24	16.66	58.58
MW-2	02/18/1993	52a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	13.88	61.36
MW-2 (D)	02/18/1993	52a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	13.88	61.36
MW-2	06/01/1993	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	14.74	60.50
MW-2	08/30/1993	70a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	15.85	59.39

WELL CONCENTRATIONS
Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, 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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	12/13/1993	68a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	15.83	59.41
MW-2	03/03/1994	280a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	14.80	60.44
MW-2	06/06/1994	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.65	58.59
MW-2	09/12/1994	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.72	58.52
MW-2	12/15/1994	230a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	15.25	59.99
MW-2	03/13/1995	ND	2.9	6.3	ND	2.7	NA	NA	NA	NA	NA	NA	75.24	15.32	59.92
MW-2	04/21/1995	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	NA	NA
MW-2	06/26/1995	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	14.65	60.59
MW-2	09/12/1995	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	15.78	59.46
MW-2	03/21/1996	<50	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	NA	NA	75.24	12.72	62.52
MW-2	06/28/1996	<50	<0.5	<0.5	<0.5	<0.5	160	NA	NA	NA	NA	NA	75.24	14.95	60.29
MW-2	09/19/1996	<50	<0.5	<0.5	<0.5	<0.5	27	NA	NA	NA	NA	NA	75.24	15.64	59.60
MW-2	12/19/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75.24	14.47	60.77
MW-2	12/05/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75.24	14.22	61.02
MW-2	12/24/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75.24	14.97	60.27
MW-2	12/23/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75.24	16.07	59.17
MW-2	12/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75.24	15.78	59.46
MW-2	12/27/2001	NA	NA	NA	NA	NA	NA	95	NA	NA	NA	NA	75.24	14.25	60.99
MW-2	03/14/2002	120	<0.50	<0.50	<0.50	<0.50	NA	31	NA	NA	NA	NA	75.24	14.59	60.65
MW-2	06/13/2002	100	<0.50	<0.50	<0.50	<0.50	NA	32	NA	NA	NA	NA	75.24	14.58	60.66
MW-2	09/09/2002	90	<0.50	<0.50	<0.50	<0.50	NA	54	NA	NA	NA	NA	78.25	15.49	62.76
MW-2	12/12/2002	92	<0.50	<0.50	<0.50	<0.50	NA	21	NA	NA	NA	NA	78.25	16.21	62.04
MW-2	03/10/2003	110	<0.50	<0.50	<0.50	<0.50	NA	33	NA	NA	NA	NA	78.25	14.33	63.92
MW-2	06/10/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	49	NA	NA	NA	NA	78.25	14.48	63.77
MW-2	09/16/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	39	NA	NA	NA	NA	78.25	15.45	62.80
MW-2	12/03/2003	56 a	<0.50	<0.50	<0.50	<1.0	NA	3.6	NA	NA	NA	NA	78.25	15.60	62.65
MW-2	03/11/2004	58 a	<0.50	<0.50	<0.50	<1.0	NA	67	NA	NA	NA	NA	78.25	13.78	64.47
MW-2	06/17/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	40	NA	NA	NA	NA	78.25	14.87	63.38

WELL CONCENTRATIONS
Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, 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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	09/13/2004	68 d	<0.50	<0.50	<0.50	<1.0	NA	44	<2.0	<2.0	<2.0	<5.0	78.25	15.85	62.40
MW-2	12/07/2004	<50 e	<0.50	<0.50	<0.50	<1.0	NA	54	NA	NA	NA	NA	78.25	15.17	63.08
MW-2	03/03/2005	110 e	<0.50	<0.50	<0.50	<1.0	NA	82	NA	NA	NA	NA	78.25	13.38	64.87
MW-3	07/14/1988	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.05	60.63
MW-3	10/04/1988	ND	ND	ND	ND	5	NA	NA	NA	NA	NA	NA	74.68	14.60	60.08
MW-3	11/10/1988	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.35	60.33
MW-3	12/09/1988	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.04	60.64
MW-3	01/10/1989	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	74.68	13.70	60.98
MW-3	01/20/1989	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	13.72	60.96
MW-3	02/06/1989	70	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	13.75	60.93
MW-3	03/10/1989	150	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	13.42	61.26
MW-3	06/06/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.52	60.16
MW-3	09/07/1989	ND	0.65	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	15.52	59.16
MW-3	12/18/1989	46	1.3	ND	0.44	0.66	NA	NA	NA	NA	NA	NA	74.68	19.59	55.09
MW-3	03/08/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.72	59.96
MW-3	06/07/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.65	60.03
MW-3	09/05/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	15.51	59.17
MW-3	12/03/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.85	59.83
MW-3	03/01/1991	1.9	59	ND	22	ND	NA	NA	NA	NA	NA	NA	74.68	14.92	59.76
MW-3	06/03/1991	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.75	59.93
MW-3	09/04/1991	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	15.14	59.54
MW-3	03/13/1992	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	13.50	61.18
MW-3	06/03/1992	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.39	60.29
MW-3	08/19/1992	92	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	15.08	59.60
MW-3 (D)	08/19/1992	76	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	15.08	59.60
MW-3	11/16/1992	200a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	15.43	59.25
MW-3 (D)	11/16/1992	140a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	15.43	59.25

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MW-3	02/18/1993	680a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	12.96	61.72
MW-3	06/01/1993	160a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	13.98	60.70
MW-3 (D)	06/01/1993	150a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	13.98	60.70
MW-3	08/30/1993	110a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.82	59.86
MW-3	12/13/1993	140a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.70	59.98
MW-3 (D)	12/13/1993	110a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.70	59.98
MW-3	03/03/1994	61a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	13.92	60.76
MW-3	06/06/1994	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.73	59.95
MW-3	09/12/1994	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	15.42	59.26
MW-3	12/15/1994	ND	ND	0.9	ND	0.6	NA	NA	NA	NA	NA	NA	74.68	13.80	60.88
MW-3	03/13/1995	100a	7.9	17	0.7	6.1	NA	NA	NA	NA	NA	NA	74.68	12.41	62.27
MW-3	04/21/1995	60	0.9	1.1	ND	1	NA	NA	NA	NA	NA	NA	74.68	NA	NA
MW-3	06/26/1995	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	13.79	60.89
MW-3	09/12/1995 b	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.77	59.91
MW-3	03/21/1996	<50	<0.5	<0.5	<0.5	<0.5	17	NA	NA	NA	NA	NA	74.68	11.80	62.88
MW-3	06/28/1996	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	74.68	14.19	60.49
MW-3	09/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	74.68	14.85	59.83
MW-3	12/19/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.68	13.61	61.07
MW-3	12/05/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.68	13.16	61.52
MW-3	12/24/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.68	14.08	60.60
MW-3	12/23/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.68	15.92	58.76
MW-3	12/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.68	15.31	59.37
MW-3	12/27/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.68	12.84	61.84
MW-3	03/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.68	12.54	62.14
MW-3	03/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	40	NA	NA	NA	NA	74.68	12.78	61.90
MW-3	06/13/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.68	14.06	60.62
MW-3	09/09/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.69	14.77	62.92
MW-3	12/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.69	15.11	62.58

WELL CONCENTRATIONS
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Oakland, CA

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MW-3	03/10/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	5.4	NA	NA	NA	NA	77.69	13.52	64.17
MW-3	06/10/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.69	13.82	63.87
MW-3	09/16/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.69	14.60	63.09
MW-3	12/03/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.69	14.53	63.16
MW-3	03/11/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	3.5	NA	NA	NA	NA	77.69	12.38	65.31
MW-3	06/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.69	14.28	63.41
MW-3	09/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.69	14.78	62.91
MW-3	12/07/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.69	13.77	63.92
MW-3	03/03/2005	120	1.3	<0.50	<0.50	2.7	NA	2.3	<2.0	<2.0	<2.0	37	77.69	11.84	65.85

MW-4	01/23/1990	1,600	100	10	30	20	NA	NA	NA	NA	NA	NA	73.83	14.68	59.15
MW-4	03/08/1990	4,200	260	18	88	39	NA	NA	NA	NA	NA	NA	73.83	14.38	59.45
MW-4	06/07/1990	2,000	150	6.9	14	17	NA	NA	NA	NA	NA	NA	73.83	14.27	59.56
MW-4	09/05/1990	1,700	130	10	7.2	19	NA	NA	NA	NA	NA	NA	73.83	15.40	58.43
MW-4	12/03/1990	2,600	108	41	17	59	NA	NA	NA	NA	NA	NA	73.83	15.90	57.93
MW-4	06/03/1991	2,800	160	15	8.8	32	NA	NA	NA	NA	NA	NA	73.83	14.60	59.23
MW-4	09/04/1991	Sheen	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.83	15.25	58.58
MW-4	03/13/1992	2,700	180	70	5.9	29	NA	NA	NA	NA	NA	NA	73.83	12.72	61.11
MW-4	06/03/1992	1,700	190	ND	30	23	NA	NA	NA	NA	NA	NA	73.83	14.33	59.50
MW-4	08/19/1992	170	4.2	ND	0.6	1	NA	NA	NA	NA	NA	NA	73.83	15.18	58.65
MW-4	11/16/1992	2,600	92	49	50	81	NA	NA	NA	NA	NA	NA	73.83	15.39	58.44
MW-4	02/18/1993	7,400	120	38	51	87	NA	NA	NA	NA	NA	NA	73.83	12.62	61.21
MW-4	06/01/1993	7,000	1,800	1,700	1,600	1,700	NA	NA	NA	NA	NA	NA	73.83	13.68	60.15
MW-4	08/30/1993	2,100	80	11	ND	11	NA	NA	NA	NA	NA	NA	73.83	14.83	59.00
MW-4 (D)	08/30/1993	2,100	77	5.6	ND	5.5	NA	NA	NA	NA	NA	NA	73.83	14.83	59.00
MW-4	12/13/1993	2,000a	20	ND	21	52	NA	NA	NA	NA	NA	NA	73.83	14.50	59.33
MW-4	03/03/1994	3,500	150	86	85	90	NA	NA	NA	NA	NA	NA	73.83	13.48	60.35
MW-4 (D)	03/03/1994	3,200	130	73	74	76	NA	NA	NA	NA	NA	NA	73.83	13.48	60.35

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MW-4	06/06/1994	590	25	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.83	14.26	59.57
MW-4 (D)	06/06/1994	400	16	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.83	14.26	59.57
MW-4	09/12/1994	1,800	42	ND	3.7	4.7	NA	NA	NA	NA	NA	NA	73.83	15.42	58.41
MW-4 (D)	09/12/1994	2,000	40	ND	5.7	8	NA	NA	NA	NA	NA	NA	73.83	15.42	58.41
MW-4	12/15/1994	2,900	78	14	94	17	NA	NA	NA	NA	NA	NA	73.83	13.43	60.40
MW-4 (D)	12/15/1994	2,900	90	7	96	18	NA	NA	NA	NA	NA	NA	73.83	13.43	60.40
MW-4	03/13/1995	2,700	240	24	99	34	NA	NA	NA	NA	NA	NA	73.83	12.13	61.70
MW-4 (D)	03/13/1995	2,500	300	24	140	28	NA	NA	NA	NA	NA	NA	73.83	12.13	61.70
MW-4	06/25/1995	2,100	87	10	67	25	NA	NA	NA	NA	NA	NA	73.83	13.26	60.57
MW-4 (D)	06/25/1995	2,300	92	12	74	26	NA	NA	NA	NA	NA	NA	73.83	13.26	60.57
MW-4	09/12/1995 b	1,300	33	13	9.3	15	NA	NA	NA	NA	NA	NA	73.83	14.64	59.19
MW-4 (D)	09/12/1995 b	1,500	2.1	16	11	17	NA	NA	NA	NA	NA	NA	73.83	14.64	59.19
MW-4	03/21/1996	2,100	50	3.2	40	5.4	ND	NA	NA	NA	NA	NA	73.83	11.55	62.28
MW-4 (D)	03/21/1996	1,700	24	<0.5	39	7.2	740	NA	NA	NA	NA	NA	73.83	11.55	62.28
MW-4	06/28/1996	1,300	61	6.2	53	11	1,000	NA	NA	NA	NA	NA	73.83	13.86	59.97
MW-4 (D)	06/28/1996	1,200	29	6.2	50	8.3	1,000	NA	NA	NA	NA	NA	73.83	13.86	59.97
MW-4	09/19/1996	820	12	<2.5	2.8	4.3	720	NA	NA	NA	NA	NA	73.83	14.72	59.11
MW-4 (D)	09/19/1996	580	9.6	<2.5	<2.5	<2.5	760	1,200	NA	NA	NA	NA	73.83	14.72	59.11
MW-4	12/19/1996	1,200	28	<5.0	<5.0	<5.0	<25	NA	NA	NA	NA	NA	73.83	13.06	60.77
MW-4	12/05/1997	1,900	36	9	16	18	630	NA	NA	NA	NA	NA	73.83	12.89	60.94
MW-4	12/24/1998	1,100	23	5.3	38	7.9	1,100	NA	NA	NA	NA	NA	73.83	13.92	59.91
MW-4	12/17/1999	1,100	22	21	13	11	3,800	3,200	NA	NA	NA	NA	73.83	14.28	59.55
MW-4	12/23/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.83	16.24	57.59
MW-4	12/11/2000	975	25.0	11.3	<5.00	<5.00	1960	1730c	NA	NA	NA	NA	73.83	14.15	59.68
MW-4	12/27/2001	2,000	9.9	<5.0	18	<5.0	NA	1,400	NA	NA	NA	NA	73.83	12.61	61.22
MW-4	03/14/2002	1,700	6.6	<2.0	2.1	2.1	NA	1,100	NA	NA	NA	NA	73.83	12.35	61.48
MW-4	06/13/2002	1,200	4.7	<2.0	<2.0	<2.0	NA	1,100	NA	NA	NA	NA	73.83	13.72	60.11
MW-4	09/09/2002	620	3.7	<2.0	<2.0	<2.0	NA	760	NA	NA	NA	NA	76.82	14.56	62.26

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MW-4	12/12/2002	1,500	3.9	<2.0	<2.0	<2.0	NA	880	NA	NA	NA	NA	76.82	14.82	62.00
MW-4	03/10/2003	2,300	5.7	0.95	3.8	0.63	NA	1,200	NA	NA	NA	NA	76.82	13.63	63.19
MW-4	06/10/2003	2,200	5.3	<5.0	<5.0	<10	NA	880	NA	NA	NA	NA	76.82	13.68	63.14
MW-4	09/16/2003	1,400	<5.0	<5.0	<5.0	<10	NA	420	NA	NA	NA	NA	76.82	14.35	62.47
MW-4	12/03/2003	2,600	5.0	<5.0	<5.0	<10	NA	840	NA	NA	NA	NA	76.82	14.27	62.55
MW-4	03/11/2004	1900 a	6.3	<5.0	<5.0	<10	NA	800	NA	NA	NA	NA	76.82	12.62	64.20
MW-4	06/17/2004	1,000	7.4	<2.5	<2.5	<5.0	NA	460	NA	NA	NA	NA	76.82	13.90	62.92
MW-4	09/13/2004	1,100	4.6	<2.5	<2.5	<5.0	NA	300	<10	<10	<10	160	76.82	14.67	62.15
MW-4	12/07/2004	2,200	4.6	<2.5	<2.5	<5.0	NA	430	NA	NA	NA	NA	76.82	13.92	62.90
MW-4	03/03/2005	2,500	5.3	<2.5	<2.5	<5.0	NA	620	NA	NA	NA	NA	76.82	11.75	65.07

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to December 27, 2001, by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to December 27, 2001, by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B

ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B

TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

(D) = Duplicate sample

ND = Not detected at or above the quantitative limit.

NA = Not applicable

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Notes:

a = Chromatogram pattern indicates the presence of an unidentified hydrocarbon/Hydrocarbon does not match pattern of laboratory's standard.

b = The laboratory noted the sample was analyzed after the method specified holding time.

c = This sample was analyzed outside of EPA recommended hold time.

d = Sample contains discrete peak in gasoline range.

e = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.

Site surveyed January 30, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

Blaine Tech Services, Inc.

March 21, 2005

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: BTS#050303-DW-1
Project: 98995741
Site: 230 W. MacArthur Blvd., Oakland

Dear Mr. Gearhart,

Attached is our report for your samples received on 03/04/2005 13:20
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
04/18/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,



Melissa Brewer
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) 573-7771Project: BTS#050303-DW-1
98995741

Received: 03/04/2005 13:20

Site: 230 W. MacArthur Blvd., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	03/03/2005 10:18	Water	1
MW-2	03/03/2005 10:08	Water	2
MW-3	03/03/2005 10:25	Water	3
MW-4	03/03/2005 10:34	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

03/21/2005 17:34

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: BTS#050303-DW-1

98995741

Received: 03/04/2005 13:20

Site: 230 W. MacArthur Blvd., Oakland

Prep(s): 5030B Test(s): 8260B
 Sample ID: MW-1 Lab ID: 2005-03-0232 - 1
 Sampled: 03/03/2005 10:18 Extracted: 3/16/2005 22:34
 Matrix: Water QC Batch#: 2005/03/16-2D.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	03/16/2005 22:34	
Benzene	ND	0.50	ug/L	1.00	03/16/2005 22:34	
Toluene	ND	0.50	ug/L	1.00	03/16/2005 22:34	
Ethylbenzene	ND	0.50	ug/L	1.00	03/16/2005 22:34	
Total xylenes	ND	1.0	ug/L	1.00	03/16/2005 22:34	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	03/16/2005 22:34	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	03/16/2005 22:34	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	03/16/2005 22:34	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	03/16/2005 22:34	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	03/16/2005 22:34	
Surrogate(s)						
1,2-Dichloroethane-d4	121.6	73-130	%	1.00	03/16/2005 22:34	
Toluene-d8	115.7	81-114	%	1.00	03/16/2005 22:34	S7

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: BTS#050303-DW-1
98995741

Received: 03/04/2005 13:20

Site: 230 W. MacArthur Blvd., Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-2	Lab ID: 2005-03-0232 - 2
Sampled: 03/03/2005 10:08	Extracted: 3/16/2005 23:26
Matrix: Water	QC Batch#: 2005/03/16-2D.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	110	50	ug/L	1.00	03/16/2005 23:26	Q6
Benzene	ND	0.50	ug/L	1.00	03/16/2005 23:26	
Toluene	ND	0.50	ug/L	1.00	03/16/2005 23:26	
Ethylbenzene	ND	0.50	ug/L	1.00	03/16/2005 23:26	
Total xylenes	ND	1.0	ug/L	1.00	03/16/2005 23:26	
Methyl tert-butyl ether (MTBE)	82	0.50	ug/L	1.00	03/16/2005 23:26	
Surrogate(s)						
1,2-Dichloroethane-d4	123.3	73-130	%	1.00	03/16/2005 23:26	
Toluene-d8	110.3	81-114	%	1.00	03/16/2005 23:26	

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

Blaine Tech Services, Inc.

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Project: BTS#050303-DW-1
98995741

Received: 03/04/2005 13:20

Site: 230 W. MacArthur Blvd., Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-3	Lab ID: 2005-03-0232 - 3
Sampled: 03/03/2005 10:25	Extracted: 3/17/2005 11:07
Matrix: Water	QC Batch#: 2005/03/17-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	120	50	ug/L	1.00	03/17/2005 11:07	
Benzene	1.3	0.50	ug/L	1.00	03/17/2005 11:07	
Toluene	ND	0.50	ug/L	1.00	03/17/2005 11:07	
Ethylbenzene	ND	0.50	ug/L	1.00	03/17/2005 11:07	
Total xylenes	2.7	1.0	ug/L	1.00	03/17/2005 11:07	
tert-Butyl alcohol (TBA)	37	5.0	ug/L	1.00	03/17/2005 11:07	
Methyl tert-butyl ether (MTBE)	2.3	0.50	ug/L	1.00	03/17/2005 11:07	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	03/17/2005 11:07	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	03/17/2005 11:07	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	03/17/2005 11:07	
Surrogate(s)						
1,2-Dichloroethane-d4	116.7	73-130	%	1.00	03/17/2005 11:07	
Toluene-d8	106.6	81-114	%	1.00	03/17/2005 11:07	

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: BTS#050303-DW-1
98995741

Received: 03/04/2005 13:20

Site: 230 W. MacArthur Blvd., Oakland

Prep(s): 5030B Test(s): 8260B
Sample ID: MW-4 Lab ID: 2005-03-0232 - 4
Sampled: 03/03/2005 10:34 Extracted: 3/17/2005 11:33
Matrix: Water QC Batch#: 2005/03/17-1B.62
Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	2500	250	ug/L	5.00	03/17/2005 11:33	
Benzene	5.3	2.5	ug/L	5.00	03/17/2005 11:33	
Toluene	ND	2.5	ug/L	5.00	03/17/2005 11:33	
Ethylbenzene	ND	2.5	ug/L	5.00	03/17/2005 11:33	
Total xylenes	ND	5.0	ug/L	5.00	03/17/2005 11:33	
Methyl tert-butyl ether (MTBE)	620	2.5	ug/L	5.00	03/17/2005 11:33	
Surrogate(s)						
1,2-Dichloroethane-d4	120.8	73-130	%	5.00	03/17/2005 11:33	
Toluene-d8	106.6	81-114	%	5.00	03/17/2005 11:33	

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: BTS#050303-DW-1
98995741

Received: 03/04/2005 13:20

Site: 230 W. MacArthur Blvd., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/03/16-2D.68

MB: 2005/03/16-2D.68-009

Date Extracted: 03/16/2005 17:09

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	03/16/2005 17:09	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	03/16/2005 17:09	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	03/16/2005 17:09	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	03/16/2005 17:09	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	03/16/2005 17:09	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	03/16/2005 17:09	
Benzene	ND	0.5	ug/L	03/16/2005 17:09	
Toluene	ND	0.5	ug/L	03/16/2005 17:09	
Ethylbenzene	ND	0.5	ug/L	03/16/2005 17:09	
Total xylenes	ND	1.0	ug/L	03/16/2005 17:09	
Surrogates(s)					
1,2-Dichloroethane-d4	85.4	73-130	%	03/16/2005 17:09	
Toluene-d8	112.4	81-114	%	03/16/2005 17:09	

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: BTS#050303-DW-1
98995741

Received: 03/04/2005 13:20

Site: 230 W. MacArthur Blvd., Oakland

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/03/17-1B.62-053

Water

Test(s): 8260B

QC Batch # 2005/03/17-1B.62

Date Extracted: 03/17/2005 07:53

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	03/17/2005 07:53	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	03/17/2005 07:53	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	03/17/2005 07:53	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	03/17/2005 07:53	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	03/17/2005 07:53	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	03/17/2005 07:53	
Benzene	ND	0.5	ug/L	03/17/2005 07:53	
Toluene	ND	0.5	ug/L	03/17/2005 07:53	
Ethylbenzene	ND	0.5	ug/L	03/17/2005 07:53	
Total xylenes	ND	1.0	ug/L	03/17/2005 07:53	
Surrogates(s)					
1,2-Dichloroethane-d4	104.2	73-130	%	03/17/2005 07:53	
Toluene-d8	110.6	81-114	%	03/17/2005 07:53	

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: BTS#050303-DW-1
98995741

Received: 03/04/2005 13:20

Site: 230 W. MacArthur Blvd., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/03/16-2D.68

LCS 2005/03/16-2D.68-051
LCSD

Extracted: 03/16/2005

Analyzed: 03/16/2005 16:51

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	17.0		25	68.0			65-165	20		
Benzene	25.5		25	102.0			69-129	20		
Toluene	26.7		25	106.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	400		500	80.0			73-130			
Toluene-d8	568		500	113.6			81-114			

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

Blaine Tech Services, Inc.

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

Project: BTS#050303-DW-1
98995741

Received: 03/04/2005 13:20

Site: 230 W. MacArthur Blvd., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/03/17-1B.62

LCS 2005/03/17-1B.62-027

Extracted: 03/17/2005

Analyzed: 03/17/2005 07:27

LCSD

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.4		25	89.6			65-165	20		
Benzene	22.1		25	88.4			69-129	20		
Toluene	23.0		25	92.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	484		500	96.8			73-130			
Toluene-d8	502		500	100.4			81-114			

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

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Project: BTS#050303-DW-1
98995741

Received: 03/04/2005 13:20

Site: 230 W. MacArthur Blvd., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/03/16-2D.68

MW-1 >> MS

Lab ID: 2005-03-0232 - 001

MS: 2005/03/16-2D.68-052

Extracted: 03/16/2005

Analyzed: 03/16/2005 22:51

Dilution: 1.00

MSD: 2005/03/16-2D.68-023

Extracted: 03/16/2005

Analyzed: 03/16/2005 23:09

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	24.7	31.5	ND	25	98.8	126.0	24.2	65-165	20		R1
Benzene	23.9	28.3	ND	25	95.6	113.2	16.9	69-129	20		
Toluene	24.3	29.8	ND	25	97.2	119.2	20.3	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	531	539		500	106.2	107.8		73-130			
Toluene-d8	580	566		500	116.0	113.2		81-114		S7	

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: BTS#050303-DW-1
98995741

Received: 03/04/2005 13:20

Site: 230 W. MacArthur Blvd., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/03/17-1B.62

MS/MSD

Lab ID: 2005-03-0213 - 001

MS: 2005/03/17-1B.62-056

Extracted: 03/17/2005

Analyzed: 03/17/2005 08:56

Dilution: 1.00

MSD: 2005/03/17-1B.62-022

Extracted: 03/17/2005

Analyzed: 03/17/2005 09:22

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	23.4	23.2	ND	25	93.6	92.8	0.9	65-165	20		
Benzene	24.2	23.7	ND	25	96.8	94.8	2.1	69-129	20		
Toluene	22.9	24.6	ND	25	91.6	98.4	7.2	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	493	545		500	98.6	109.0		73-130			
Toluene-d8	522	545		500	104.3	108.9		81-114			

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: BTS#050303-DW-1
98995741

Received: 03/04/2005 13:20

Site: 230 W. MacArthur Blvd., Oakland

Legend and Notes

Analysis Flag

L2

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

Result Flag

Q6

The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

R1

Analyte RPD was out of QC limits.

S7

Surrogate recoveries higher than acceptance limits.

LAB: 216

SHELL Chain Of Custody Record

103191

Lab Identification (if necessary):

Address:

City, State, Zip




Shell Project Manager to be Invoiced:
 SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CAMBRIAN
2005-02-0232
 Karen Petryna

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 4 1

SAP or CRMT NUMBER (TS/CRMT)

DATE: 3-3-05
 PAGE: 1 of 1

SAMPLING COMPANY Blaine Tech Services <small>ADDRESS:</small> 1880 Rogers Avenue, San Jose, CA 95112 <small>PHONE CONTACT (Printed or PDF Report to)</small> Leon Gearhart <small>TELEPHONE:</small> 408-573-0555 <small>FAX:</small> 408-573-7771 <small>E-MAIL:</small> lgearhart@blainetech.com			<small>LOG CODE:</small> BTSS		<small>SITE ADDRESS (Street and City):</small> 230 W. MacArthur Blvd., Oakland							<small>INTERNAL ID:</small> T0600101240											
<small>REP. DELIVERABLE TO (Responsible Party or Company):</small> Anni Kraml <small>SAMPLER NAME(S) (Print)</small> Dave Walter					<small>PHONE NO:</small> (510) 420-3335				<small>E-MAIL:</small> ShellOaklandEDF@cambria-env.com			<small>COMPLIANT PROJECT NO:</small> 050305-RW-1 <small>BTS #</small>											
<small>TURNAROUND TIME (BUSINESS DAYS)</small> <input checked="" type="checkbox"/> 10 DAYS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS <input type="checkbox"/> LA - RWQCB REPORT FORMAT <input type="checkbox"/> UST AGENCY: _____ <small>GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____</small> <small>SPECIAL INSTRUCTIONS OR NOTES:</small> CHECK BOX IF EDD IS NOT NEEDED <input type="checkbox"/>										REQUESTED ANALYSIS													
<small>LAB USE ONLY</small>	Field Sample Identification				SAMPLING		MATRIX	NO. OF CONT.	<small>TPH - Gas, Purgeable</small>	<small>BTEX</small>	<small>MTBE (8021B - 5ppb RL)</small>	<small>MTBE (8260B - 0.5ppb RL)</small>	<small>Oxygenates (57 by 18260B)</small>	<small>Ethanol (8290B)</small>	<small>Methanol</small>	<small>EDB & 1,2-DCA (8260B)</small>	<small>_____</small>	<small>_____</small>	<small>_____</small>	<small>_____</small>	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes		
			<small>DATE</small> <small>TIME</small>																				<small>TEMPERATURE ON RECEIPT °C</small> 2
	MW-1 ✓		3-3 1019		W	3	X	X					X										
	MW-2 ✓		↓ 1008		↓	↓	X	X				X											
	MW-3 ✓		↓ 1025		↓	↓	X	X					X										
MW-4 ✓		↓ 1034		↓	↓	X	X				X												
<small>Fielded by (Signature):</small> David C. Walt					<small>Received by (Signature):</small> 					<small>Date:</small> 3-4-5				<small>Time:</small> 1320									
<small>Repacked by (Signature):</small> 					<small>Received by (Signature):</small> 					<small>Date:</small> 3-4-5				<small>Time:</small> 1850									
<small>Repacked by (Signature):</small>					<small>Received by (Signature):</small>					<small>Date:</small>				<small>Time:</small>									

ATTACHMENT B
Groundwater Monitoring Data
240 West MacArthur

Table 1
Groundwater Monitoring Well Construction and Groundwater Elevation Data
240 W. MacArthur Boulevard, Oakland, California

Well	Well Depth (feet bgs)	Well Screened Interval		Groundwater Level Depth ^(a) March 3, 2005	Groundwater Elevation ^(b) March 3, 2005
		Depth (feet)	Elevation (feet)		
MW-1	25	19.5 to 24.5	54.5 to 49.5	14.30	64.85
MW-2	25	14.5 to 24.5	64.2 to 54.2	13.48	64.97
MW-3	25	14.5 to 24.5	63.4 to 53.4	12.60	64.98
MW-4	25	14.5 to 24.5	63.6 to 53.6	12.57	65.17
MW-5	20	9 to 19	70.6 to 60.6	14.08	65.28
MW-6	20	9 to 19	69.7 to 59.7	13.28	65.15
MW-7	20	9 to 19	69.6 to 59.6	13.42	64.85
MW-8	20	9 to 19	67.7 to 57.7	11.52	64.87

Notes:

^(a) Pre-purge measurement, feet below top of well casing.

^(b) Pre-purge measurement, feet above mean sea level.

Table 2
Groundwater Sample Analytical Results – March 3, 2005
Hydrocarbons, BTEX, and MTBE ^(a)
240 W. MacArthur Boulevard, Oakland, California

Well	TVHg	TEHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-1	4,700	3,500	450	28	42	97	6.7
MW-2	2,300	420	5.3	< 1.0	3.7	< 1.0	120
MW-3	4,700	2,000	19	1.1	9.9	3.7	76
MW-4	< 50	NA	NA	NA	NA	NA	NA
MW-5	6,300	4,600	190	28	42	280	< 1.7
MW-6	300	980	5.4	< 0.5	3.3	2.3	< 0.5
MW-7	< 50	NA	NA	NA	NA	NA	NA
MW-8	270	120	< 0.5	< 0.5	< 0.5	< 1.0	66
Environmental Screening Levels ^(b)							
	NLP	NLP	1.0	40	30	20	5.0
Drinking Water Standards ^(c)							
	100	100	1.0 ^(d)	40	30	13	5.0

Notes:

^(a) All concentrations in micrograms per liter (µg/L), equivalent to parts per billion (ppb).

^(b) For commercial/industrial sites where a known or potential drinking water resource is threatened.

^(c) Drinking water standards are State of California Secondary Maximum Contaminant Levels (MCLs) – Proposed, unless specified otherwise.

^(d) State of California Primary MCL.

MTBE = Methyl *tertiary*-butyl ether

TEHd = Total extractable hydrocarbons - diesel range

TVHg = Total volatile hydrocarbons - gasoline range

NA = Not analyzed for this contaminant.

NLP = No level published.

Table 3
Groundwater Sample Analytical Results – March 3, 2005
Lead Scavengers and Fuel Oxygenates ^(a)
240 W. MacArthur Boulevard, Oakland, California

Well	EDC	DIPE	Well	EDC	DIPE
MW-1	< 0.5	< 0.5	MW-6	20	0.52
MW-2	< 1.0	1.3	MW-8	< 0.5	0.59
MW-3	< 1.0	1.1	Drinking Water Standards ^(b)	NLP	NLP
MW-5	< 1.7	< 1.7	ESLs ^(c)	0.5	NLP

Notes:

^(a) All concentrations in micrograms per liter (µg/L), equivalent to parts per billion (ppb).

^(b) Drinking water standards are State of California Secondary Maximum Contaminant Levels (MCLs) – Proposed, unless specified otherwise.

^(c) For commercial/industrial sites where known/potential drinking water resource is threatened.

DIPE – Isopropyl Ether.

EDC = Ethylene dichloride (1,2-dichloroethane).

NLP = No level published.

Table includes only detected fuel oxygenates. Contaminants analyzed for and not detected include EDB, TBA, ETBE, and TAME.