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July 31, 2003

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

Alameda County
AUG 06 2003
Environmental Health

Subject: Shell-branded Service Station
5755 Broadway
Oakland, California

Dear Ms. Drogos:

Attached for your review and comment is a copy of the *Second 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
Sr. Environmental Engineer

July 31, 2003

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

Re: **Second Quarter 2003 Monitoring Report**
Shell-branded Service Station
5755 Broadway
Oakland, California
Incident #98995756
Cambria Project #245-0483-002



Dear Ms. Drogos:

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

HISTORICAL REMEDIATION SUMMARY

The site location is shown on Figures 1 and 2. Mobile groundwater extraction (GWE) using a vacuum truck was conducted periodically at the site from April to November 2000. A single dual-phase vacuum extraction (DVE) event was performed at the site on February 7, 2001, and monthly mobile DVE was conducted at the site from May to November 2001. GWE and DVE have collectively extracted approximately 20,038 gallons of groundwater from wells S-2, H-1, and T-2, and removed 0.46 pounds of methyl tertiary-butyl ether (MTBE). Subsequent to Alameda County Health Care Services Agency notification in our November 7, 2001 *Third Quarter 2001 Monitoring Report*, Cambria suspended monthly DVE from wells S-2 and H-1 due to the low influent volume of groundwater from S-2 and the low influent MTBE concentrations from H-1.

**Cambria
Environmental
Technology, Inc.**

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

SECOND QUARTER 2003 ACTIVITIES

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

GWE System Design and Permitting: Cambria submitted an *Interim Remedial Work Plan* dated March 14, 2003 describing installation of a GWE system. We submitted the zoning application to the City of Oakland planning department on January 31, 2003 and the building permit application on April 15, 2003. The planning department has provided a letter of approval for our zoning application. We submitted this approval letter to the building department on June 30, 2003 to clear them to review and approve our building permit. The permit is presently still under review with the city building department.

ANTICIPATED THIRD QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine will gauge and sample selected site wells, including the horizontal well (without purging), and tabulate the data. A groundwater monitoring report will be prepared.

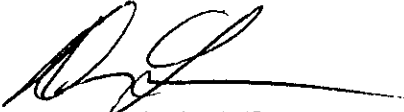
GWE System Design and Permitting: Cambria will proceed with completing the permitting process for the fixed system. Due to the localized nature of the groundwater impact, before proceeding with installation of the system, we will first install a temporary system to pump from well S-2. This system will consist of a pump and associated controls to extract groundwater from the well, which will discharge to a Baker tank located on site. Water will be periodically offhauled from the Baker tank.

Data from subsequent sampling events will be evaluated to determine whether installation of the permanent GWE system is warranted.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Diane Lundquist at (510) 420-3334 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc



Diane Lundquist, P.E.
Principal Engineer



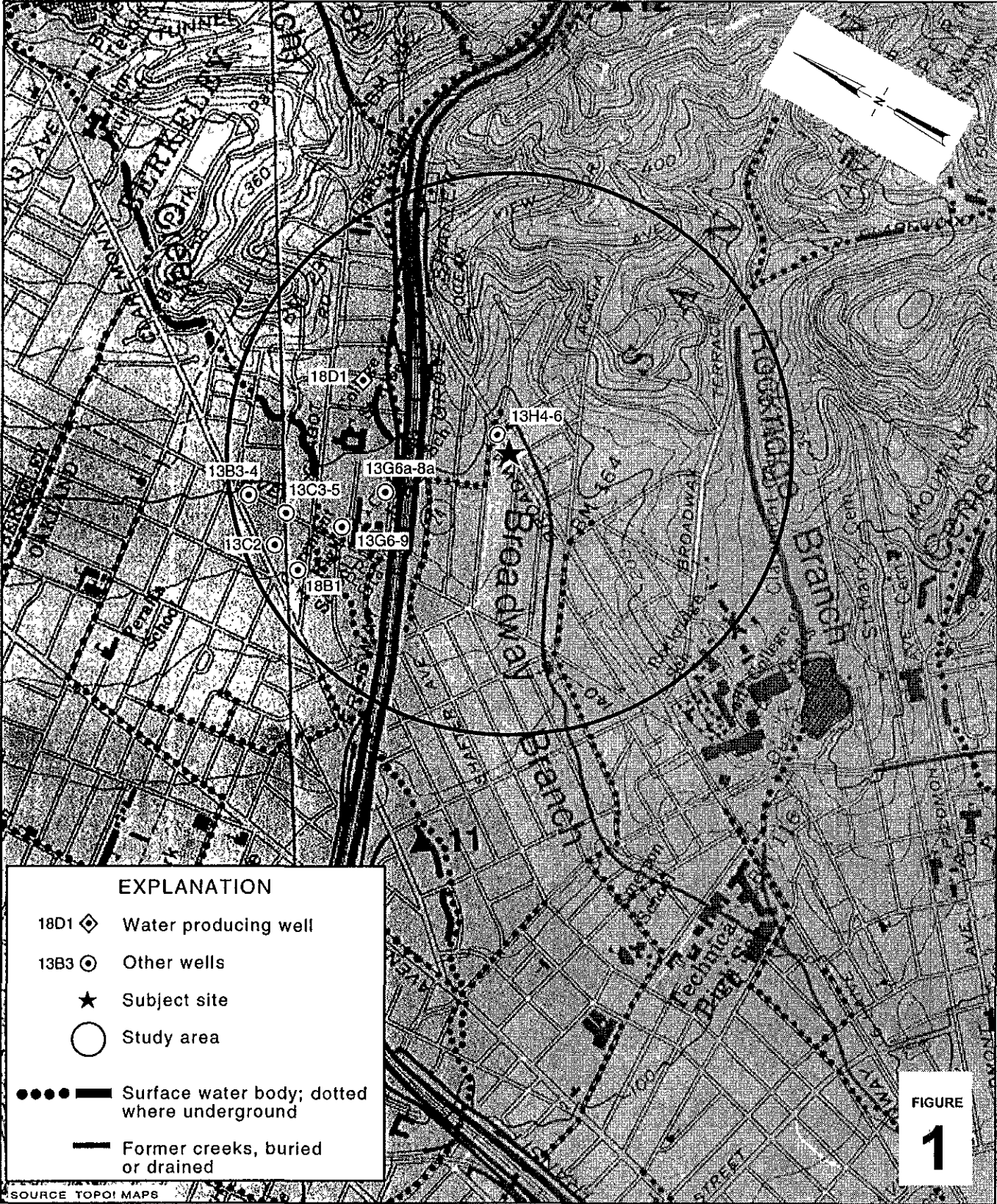
Figures: 1 - Vicinity/Well Survey Map
2 - Groundwater Elevation Contour Map

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

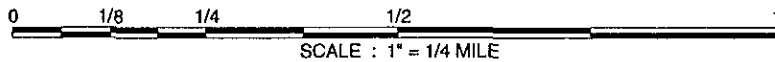
cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA, 91510-7869
Thrifty Oil Company, c/o Mr. Raymond Fredricksen, PO Box 2128, Santa Fe Springs, CA 90670

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SOURCE TOPOI MAPS



Shell-branded Service Station

5755 Broadway
 Oakland, California
 Incident #98995756



C A M B R I A

Vicinity / Well Survey Map

(1/2-Mile Radius)

FIGURE

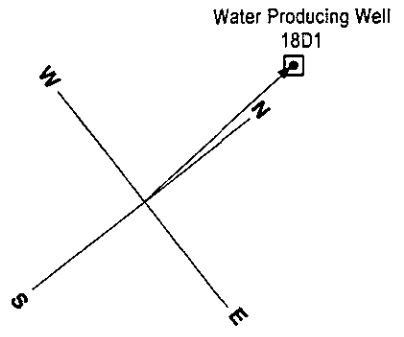
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07/18/03
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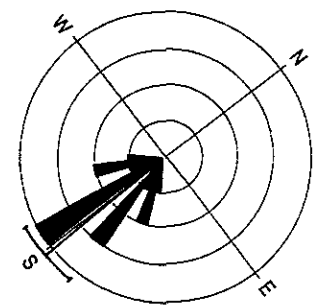
EXPLANATION

- S-1 Monitoring well location
- T-1 Tank backfill well location
- T-3 Pre-pack monitoring well location
- H-1 Horizontal extraction well location
- B-1 Soil boring location (Miller-Brooks, 8/6-7/02)
- Groundwater flow direction
- Groundwater elevation contour, in feet above mean sea level (msl), approximately located

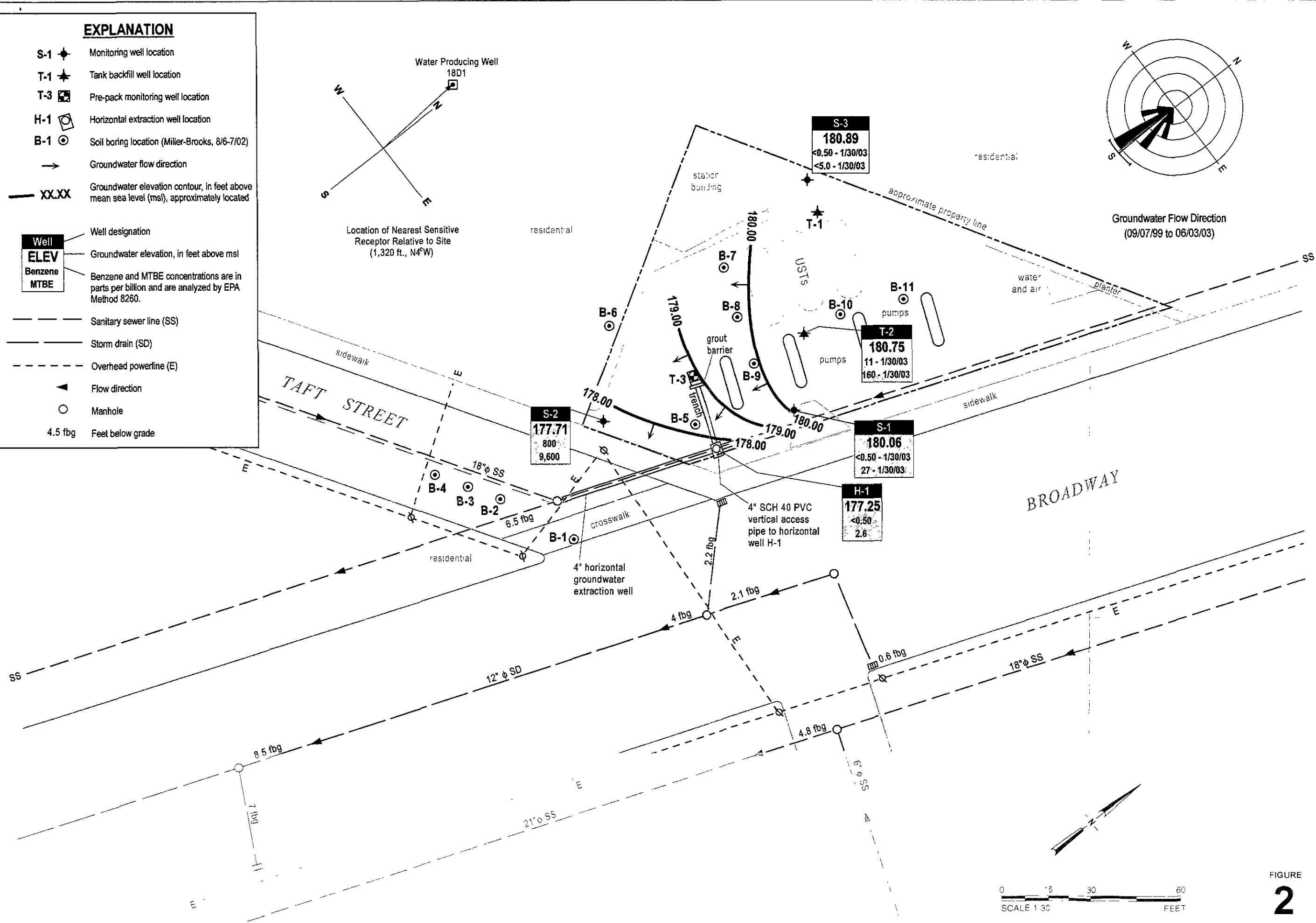
- | Well | Well designation |
|---------|---|
| ELEV | Groundwater elevation, in feet above msl |
| Benzene | Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260. |
| MTBE | |
- Sanitary sewer line (SS)
 - Storm drain (SD)
 - Overhead powerline (E)
 - Flow direction
 - Manhole
 - 4.5 fbg Feet below grade



Location of Nearest Sensitive Receptor Relative to Site (1,320 ft., N4°W)



Groundwater Flow Direction (09/07/99 to 06/03/03)



Groundwater Elevation Contour Map

June 3, 2003

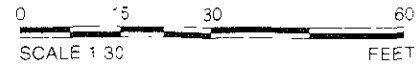


C A M B R I A

Shell-branded Service Station

5755 Broadway
Oakland, California
Incident #98995756

FIGURE 2



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 7, 2003

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

Second Quarter 2003 Groundwater Monitoring at
Shell-branded Service Station
5755 Broadway
Oakland, CA

Monitoring performed on June 3, 2003

Groundwater Monitoring Report 030603-DA-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. Purge water (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/cm

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
5755 Broadway
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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	01/25/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	100.00	3.88	96.12	NA
S-1	06/03/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	100.00	3.51	96.49	NA
S-1	08/30/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	100.00	4.24	95.76	NA
S-1	11/22/1991	<30	2.3	<0.46	0.3	<0.65	NA	NA	100.00	4.29	95.71	NA
S-1	03/13/1992	<30	<0.52	<0.3	<0.3	<0.3	NA	NA	100.00	2.87	97.13	NA
S-1	05/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.79	96.21	NA
S-1	08/19/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	4.43	95.57	NA
S-1	11/18/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	4.34	95.66	NA
S-1	02/10/1993	51	1.4	<0.5	<0.5	<0.5	NA	NA	100.00	4.20	95.80	NA
S-1 (D)	02/10/1993	<50	1.2	<0.5	<0.5	<0.5	NA	NA	100.00	4.20	95.80	NA
S-1	06/11/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.39	96.61	NA
S-1	08/03/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.69	96.31	NA
S-1	11/02/1993	70a	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	4.26	95.74	NA
S-1	12/16/1993	NA	NA	NA	NA	NA	NA	NA	100.00	2.73	97.27	NA
S-1	02/01/1994	60a	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.38	96.62	NA
S-1	05/04/1994	<50	1.1	<0.5	<0.5	<0.5	NA	NA	100.00	3.00	97.00	NA
S-1	08/18/1994	<50	0.6	<0.5	<0.5	<0.5	NA	NA	100.00	3.70	96.30	NA
S-1 (D)	08/18/1994	60a	0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.70	96.30	NA
S-1	11/09/1994	<50	4	<0.5	<0.5	<0.5	NA	NA	100.00	2.52	97.48	NA
S-1	02/22/1995	50	0.8	0.7	<0.5	1.3	NA	NA	100.00	4.08	95.92	NA
S-1	05/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	2.58	97.42	NA
S-1	08/30/1995	<50	1.7	<0.5	<0.5	<0.5	NA	NA	100.00	3.48	96.52	NA
S-1	11/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.99	96.01	NA
S-1	02/02/1996	<50	11	<0.5	0.9	<0.5	NA	NA	100.00	2.00	98.00	NA
S-1	03/09/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.38	99.62	NA
S-1	08/22/1996	<50	1.5	<0.5	<0.5	<0.5	130	NA	100.00	3.43	96.57	NA
S-1	11/07/1996	<50	<0.5	<0.5	<0.5	<0.5	57	NA	100.00	3.70	96.30	4.33

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	02/20/1997	<50	0.64	<0.50	<0.50	1.6	6.5	NA	100.00	3.60	96.40	2
S-1	05/30/1997	<50	<0.50	<0.50	<0.50	<0.50	46	NA	100.00	3.47	96.53	7
S-1 (D)	05/30/1997	<50	<0.50	<0.50	<0.50	<0.50	47	NA	100.00	3.47	96.53	7
S-1	08/21/1997	<50	<0.50	<0.50	<0.50	0.84	26	NA	100.00	3.01	96.99	3.1
S-1	11/03/1997	<50	<0.50	1.1	<0.50	1.3	190	NA	100.00	3.66	96.34	2
S-1	01/20/1998	110	7.9	2.8	4.4	13	53	NA	100.00	1.84	98.16	4.6
S-1 (D)	01/20/1998	130	9.2	6.9	5.2	15	93	NA	100.00	1.84	98.16	4.6
S-1	02/16/1999	<50	<0.50	<0.50	<0.50	<0.50	8.6	NA	100.00	2.43	97.57	2.2
S-1	09/07/1999	NA	NA	NA	NA	NA	NA	NA	100.00	2.84	97.16	NA
S-1	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	202	NA	100.00	3.10	96.90	2.1
S-1	04/26/2000	NA	NA	NA	NA	NA	NA	NA	100.00	2.91	97.09	NA
S-1	07/25/2000	<50.0	<0.500	<0.500	<0.500	<0.500	811	NA	100.00	3.21	96.79	1.8
S-1	11/15/2000	NA	NA	NA	NA	NA	NA	NA	100.00	3.18	96.82	NA
S-1	02/12/2001	<50.0	<0.500	<0.500	<0.500	<0.500	209	NA	100.00	1.34	98.66	2.2
S-1	06/07/2001	NA	NA	NA	NA	NA	NA	NA	100.00	1.27	98.73	NA
S-1	08/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	100.00	3.16	96.84	4.0
S-1	12/05/2001	NA	NA	NA	NA	NA	NA	2.6	100.00	1.90	98.10	NA
S-1	01/31/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	100.00	2.67	97.33	NA
S-1	06/04/2002	NA	NA	NA	NA	NA	NA	NA	100.00	1.87	98.13	NA
S-1	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	100.00	2.01	97.99	NA
S-1	11/07/2002	NA	NA	NA	NA	NA	NA	NA	181.89	3.01	178.88	NA
S-1	11/14/2002	NA	NA	NA	NA	NA	NA	NA	181.89	3.40	178.49	NA
S-1	01/30/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	27	181.89	2.12	179.77	NA
S-1	06/03/2003	NA	NA	NA	NA	NA	NA	NA	181.89	1.83	180.06	NA
S-2	01/25/1991	450	140	1.8	6.2	15	NA	NA	98.92	4.52	94.40	NA
S-2	06/03/1991	490	150	2.7	8.2	7	NA	NA	98.92	4.02	94.90	NA
S-2	08/30/1991	70	0.37	<0.3	<0.3	<0.3	NA	NA	98.92	4.70	94.22	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
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)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
S-2	11/22/1991	1,600	110	9.3	29	150	NA	NA	98.92	4.72	94.20	NA
S-2	03/13/1992	1,300	210	5.7	34	79	NA	NA	98.92	3.47	95.45	NA
S-2	05/28/1992	100	28	<0.5	<0.5	<0.5	NA	NA	98.92	4.45	94.45	NA
S-2	08/19/1992	470	42	<0.5	8.3	4	NA	NA	98.92	4.84	94.08	NA
S-2	11/18/1992	490	43	39	17	29	NA	NA	98.92	4.73	94.19	NA
S-2	02/10/1993	19,000	710	760	80	370	NA	NA	98.92	4.83	94.09	NA
S-2	06/11/1993	33,000	3,100	1,600	370	1,100	NA	NA	98.92	3.74	95.18	NA
S-2	08/03/1993	18,000	1,400	130	81	130	NA	NA	98.92	4.23	94.69	NA
S-2 (D)	08/03/1993	19,000	1,400	140	86	150	NA	NA	98.92	4.23	94.69	NA
S-2	11/02/1993	12,000a	470	47	31	92	NA	NA	98.92	4.72	94.20	NA
S-2 (D)	11/02/1993	13,000a	530	47	35	96	NA	NA	98.92	4.72	94.20	NA
S-2	12/16/1993	NA	NA	NA	NA	NA	NA	NA	98.92	3.00	95.92	NA
S-2	02/01/1994	31,000a	430	46	50	130	NA	NA	98.92	3.48	95.44	NA
S-2 (D)	02/01/1994	31,000a	300	33	30	100	NA	NA	98.92	3.48	95.44	NA
S-2	05/04/1994	3,900	1,200	31	53	71	NA	NA	98.92	3.26	95.66	NA
S-2 (D)	05/04/1994	4,500	1,200	37	57	110	NA	NA	98.92	3.26	95.66	NA
S-2	08/18/1994	24,000	600	8.3	15	27	NA	NA	98.92	3.98	94.94	NA
S-2	11/09/1994	1,400a	240	9.3	13	20	NA	NA	98.92	3.10	95.82	NA
S-2 (D)	11/09/1994	1,800	260	8.5	13	21	NA	NA	98.92	3.10	95.82	NA
S-2	02/22/1995	29,000	550	18	12	63	NA	NA	98.92	4.02	94.90	NA
S-2 (D)	02/22/1995	28,000	530	17	10	60	NA	NA	98.92	4.02	94.90	NA
S-2	05/02/1995	4,400	1,000	25	38	77	NA	NA	98.92	2.86	96.06	NA
S-2 (D)	05/02/1995	4,400	1,000	26	41	83	NA	NA	98.92	2.86	96.06	NA
S-2	08/30/1995	800	350	20	6.7	16	NA	NA	98.92	4.06	94.86	NA
S-2 (D)	08/30/1995	960	220	22	12	48	NA	NA	98.92	4.06	94.86	NA
S-2	11/28/1995	2,000	230	220	50	230	NA	NA	98.92	4.48	94.44	NA
S-2 (D)	11/28/1995	2,100	240	230	51	230	NA	NA	98.92	4.48	94.44	NA
S-2	02/02/1996	18,000	540	18	12	22	NA	NA	98.92	1.99	96.93	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
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)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
S-2 (D)	02/02/1996	11,000	600	18	13	28	NA	NA	98.92	1.99	96.93	NA
S-2	03/09/1996	3,800	1,500	27	30	58	NA	NA	98.92	3.27	95.65	NA
S-2 (D)	03/09/1996	3,500	1,300	24	21	53	NA	NA	98.92	3.27	95.65	NA
S-2	08/22/1996	<20,000	490	<200	<200	<200	43,000	NA	98.92	3.85	95.07	NA
S-2 (D)	08/22/1996	<20,000	570	<200	<200	<200	59,000	51,000	98.92	3.85	95.07	NA
S-2	11/07/1996	<5,000	290	<50	<50	<50	32,000	NA	98.92	4.00	94.92	3.51
S-2 (D)	11/07/1996	<5,000	290	<50	<50	<50	32,000	NA	98.92	4.00	94.92	3.51
S-2	02/20/1997	<10,000	520	<100	<100	<100	28,000	NA	98.92	3.20	95.72	1
S-2 (D)	02/20/1997	<10,000	520	<100	<100	<100	35,000	NA	98.92	3.20	95.72	1
S-2	05/30/1997	150	15	11	3.5	15	11	NA	98.92	3.87	95.05	6
S-2	08/21/1997	1,600	220	<10	20	<10	18,000	NA	98.92	3.29	95.63	3.3
S-2 (D)	08/21/1997	1,500	180	<10	16	<10	21,000	NA	98.92	3.29	95.63	3.3
S-2	11/03/1997	1,000	94	<10	<10	<10	<50	NA	98.92	4.02	94.90	1.8
S-2	01/20/1998	590	110	8.3	18	23	7,800	NA	98.92	1.54	97.38	3.2
S-2	07/23/1998	2,600	840	<10	44	22	15,000	NA	98.92	2.89	96.03	NA
S-2	02/16/1999	680	140	6.1	10	18	19,000	NA	98.92	1.86	97.06	2.0
S-2	09/07/1999	<2,000	248	<20.0	<20.0	<20.0	22,800	NA	98.92	3.66	95.26	1.8
S-2	02/02/2000	103	0.825	<0.500	<0.500	<0.500	11,700	10,500	98.92	4.02	94.90	2.0
S-2	04/26/2000	4,040	799	<20.0	40.9	255	19,000	17,100b	98.92	2.63	96.29	2.3
S-2	07/25/2000	1,120	195	5.94	5.62	11.3	26,600	21,100	98.92	3.42	95.50	0.6
S-2b	11/15/2000	613	35.6	<5.00	<5.00	7.36	18,100	17,800	98.92	3.31	95.61	1.8
S-2	02/12/2001	9,010	1,430	<20.0	219	848	28,300	17,000	98.92	1.47	97.45	2.0
S-2	06/07/2001	31,000	1,000	<25	630	3,200	NA	17,000	98.92	3.43	95.49	10.4
S-2	08/31/2001	50,000	950	<20	1,500	6,000	NA	17,000	98.92	4.72	94.20	0.9
S-2	12/05/2001	49,000	590	7.2	1,400	4,900	NA	11,000	98.92	1.53	97.39	NA
S-2	01/31/2002	37,000	860	<25	1,100	4,000	NA	14,000	98.92	2.13	96.79	NA
S-2	06/04/2002	150,000	800	<20	1,200	4,000	NA	9,200	98.92	2.24	96.68	NA
S-2	07/25/2002	37,000	350	<20	660	2,400	NA	10,000	98.92	2.03	96.89	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
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)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
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S-2	11/14/2002	25,000	510	<25	590	2,000	NA	10,000	180.79	3.17	177.62	NA
S-2	01/02/2003	NA	710	<25	560	2,074	NA	NA	180.79	2.15	178.64	NA
S-2	01/30/2003	21,000	670	<20	360	1,200	NA	9,300	180.79	2.09	178.70	NA
S-2	06/03/2003	42,000	800	<50	660	1,500	NA	9,600	180.79	3.08	177.71	NA

S-3	01/25/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	101.67	3.84	97.83	NA
S-3	06/03/1991	<30	<0.3	0.3	0.3	0.3	NA	NA	101.67	3.25	98.42	NA
S-3	08/03/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	101.67	4.73	96.94	NA
S-3	11/22/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	101.67	4.81	96.86	NA
S-3	03/13/1992	<30	<0.3	0.3	0.3	0.3	NA	NA	101.67	2.29	99.38	NA
S-3	05/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.62	98.05	NA
S-3	08/19/1992	<50	<0.5	<0.5	<0.5	0.5	NA	NA	101.67	4.66	97.01	NA
S-3	11/18/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	4.51	97.16	NA
S-3	02/10/1993	30	1.9	3.2	2.4	5.6	NA	NA	101.67	4.36	97.31	NA
S-3	06/11/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.91	98.76	NA
S-3 (D)	06/11/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.91	98.76	NA
S-3	08/03/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.70	97.97	NA
S-3	11/02/1993	Well inaccessible		NA	NA	NA	NA	NA	101.67	NA	NA	NA
S-3	12/16/1993	NA	NA	NA	NA	NA	NA	NA	101.67	2.12	99.55	NA
S-3	02/01/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.90	98.77	NA
S-3	05/04/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.54	99.13	NA
S-3	08/18/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.51	98.16	NA
S-3	11/09/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.44	99.23	NA
S-3	02/22/1995	80	<0.5	0.5	<0.5	0.5	NA	NA	101.67	4.12	97.55	NA
S-3	05/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.83	98.84	NA
S-3	08/30/1995	<50	0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.16	98.51	NA
S-3	11/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.87	97.80	NA
S-3	02/02/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.24	99.43	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
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)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
S-3	03/09/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.05	98.62	NA
S-3	08/22/1996	<50	0.8	<0.5	<0.5	<0.5	<2.5	NA	101.67	2.85	98.82	4.6
S-3	11/07/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	101.67	3.35	98.32	4.6
S-3	02/20/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	101.67	3.00	98.67	1
S-3	05/30/1997	140	14	10	3.3	14	8.6	NA	101.67	3.00	98.67	8
S-3	08/21/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	101.67	2.94	98.73	3.3
S-3	11/03/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	101.67	3.36	98.31	2.4
S-3 (D)	11/03/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	101.67	3.36	98.31	2.4
S-3	01/20/1998	Well inaccessible		NA	NA	NA	NA	NA	101.67	NA	NA	NA
S-3	07/23/1998	NA	NA	NA	NA	NA	NA	NA	101.67	2.69	98.98	NA
S-3	02/16/1999	<50	<0.50	0.92	0.59	3.9	3.7	NA	101.67	2.20	99.47	2.8
S-3	09/07/1999	NA	NA	NA	NA	NA	NA	NA	101.67	2.81	98.86	NA
S-3	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	101.67	3.97	97.70	2.7
S-3	04/26/2000	NA	NA	NA	NA	NA	NA	NA	101.67	2.96	98.71	NA
S-3	07/25/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	101.67	3.00	98.67	0.8
S-3	11/15/2000	NA	NA	NA	NA	NA	NA	NA	101.67	2.86	98.81	NA
S-3	02/12/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	101.67	2.47	99.20	2.3
S-3	06/07/2001	NA	NA	NA	NA	NA	NA	NA	101.67	2.78	98.89	NA
S-3	08/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	101.67	3.94	97.73	0.5
S-3	12/05/2001	NA	NA	NA	NA	NA	NA	NA	101.67	2.05	99.62	NA
S-3	01/31/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	101.67	2.29	99.38	NA
S-3	06/04/2002	NA	NA	NA	NA	NA	NA	NA	101.67	2.56	99.11	NA
S-3	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	101.67	2.70	98.97	NA
S-3	11/14/2002	NA	NA	NA	NA	NA	NA	NA	183.54	3.43	180.11	NA
S-3	01/30/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	183.54	2.16	181.38	NA
S-3	01/30/2003	NA	NA	NA	NA	NA	NA	NA	183.54	2.65	180.89	NA
H-1	12/05/2001	150	<0.50	8.3	1.6	16	NA	52	NA	1.43	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
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)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
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H-1	01/31/2002	3,200	12	<0.50	5.7	3.7	NA	650	NA	2.34	NA	NA
H-1	06/04/2002	280,000	<10	150	62	9,500	NA	<100	NA	2.56	NA	NA
H-1	07/25/2002	8,200	2.2	46	5.3	99	NA	<10	NA	2.83	NA	NA
H-1	11/14/2002	1,700	2.1	2.6	1.5	14	NA	380	180.63	3.74	176.89	NA
H-1	01/02/2003	NA	1.1	<0.50	<0.50	3.6	NA	NA	180.63	1.45	179.18	NA
H-1	01/30/2003	630	0.99	2.0	1.6	12	NA	21	180.63	2.10	178.53	NA
H-1	06/03/2003	55	<0.50	1.3	<0.50	2.4	NA	2.6	180.63	3.38	177.25	NA

T-1	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	2.65	NA	NA
T-1	08/21/1997	NA	NA	NA	NA	NA	NA	NA	NA	2.69	NA	NA
T-1	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	3.09	NA	NA
T-1	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	0.61	NA	NA
T-1	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	2.32	NA	NA
T-1	02/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	1.95	NA	NA
T-1	09/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	2.48	NA	NA
T-1	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	2.66	NA	2.5
T-1	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	2.56	NA	NA
T-1	07/25/2000	NA	NA	NA	NA	NA	NA	NA	NA	2.60	NA	NA
T-1	11/15/2000	NA	NA	NA	NA	NA	NA	NA	NA	2.47	NA	NA
T-1	02/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	1.20	NA	NA
T-1	06/07/2001	NA	NA	NA	NA	NA	NA	NA	NA	2.36	NA	NA
T-1	08/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	3.45	NA	NA
T-1	01/09/2002 c	NA	NA	NA	NA	NA	NA	NA	183.08	NA	NA	NA

T-2	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	1.81	NA	NA
T-2	08/21/1997	NA	NA	NA	NA	NA	NA	NA	NA	1.89	NA	NA
T-2	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	2.25	NA	NA
T-2	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	0.55	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
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)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
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T-2	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	1.21	NA	NA
T-2	02/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	1.08	NA	NA
T-2	09/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	0.72	NA	NA
T-2	02/02/2000	1,540	53.4	20.8	11.4	21.8	1,330	NA	NA	0.98	NA	3.0
T-2	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	1.02	NA	NA
T-2	07/25/2000	815	17.6	10.8	1.63	3.47	133	NA	NA	1.80	NA	0.8
T-2	11/15/2000	NA	NA	NA	NA	NA	NA	NA	NA	1.68	NA	NA
T-2	02/12/2001	310	7.48	7.76	0.693	2.28	301	NA	NA	1.45	NA	1.6
T-2	06/07/2001	NA	NA	NA	NA	NA	NA	NA	NA	1.57	NA	NA
T-2	08/31/2001	720	30	0.67	<0.50	2.3	NA	540	NA	2.69	NA	0.8
T-2	12/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	0.58	NA	NA
T-2	01/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	1.32	NA	NA
T-2	02/04/2002	1,000	41	30	4.6	20	NA	1,200	NA	1.46	NA	NA
T-2	06/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	1.50	NA	NA
T-2	07/25/2002	660	11	0.59	<0.50	2.6	NA	97	NA	1.53	NA	NA
T-2	11/14/2002	NA	NA	NA	NA	NA	NA	NA	182.30	2.39	179.91	NA
T-2	01/30/2003	560	11	<0.50	<0.50	0.53	NA	160	182.30	1.01	181.29	NA
T-2	06/03/2003	NA	NA	NA	NA	NA	NA	NA	182.30	1.55	180.75	NA

T-3	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	2.31	NA	NA
T-3	08/21/1997	NA	NA	NA	NA	NA	NA	NA	NA	1.57	NA	NA
T-3	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	3.50	NA	NA
T-3	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	0.76	NA	NA
T-3	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	0.82	NA	NA
T-3	02/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	0.55	NA	NA
T-3	09/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	2.89	NA	NA
T-3	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	3.02	NA	2.9
T-3	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	2.81	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
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)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
T-3	07/25/2000	NA	NA	NA	NA	NA	NA	NA	NA	3.00	NA	NA
T-3	11/15/2000	NA	NA	NA	NA	NA	NA	NA	NA	1.70	NA	NA
T-3	02/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	2.11	NA	NA
T-3	06/07/2001	NA	NA	NA	NA	NA	NA	NA	NA	1.68	NA	NA
T-3	08/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	3.14	NA	NA
T-3	01/09/2002 c	NA	NA	NA	NA	NA	NA	NA	180.95	NA	NA	NA

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 7, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 7, 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

Notes:

a = Chromatogram pattern indicated an unidentified hydrocarbon.

b = This sample analyzed outside of EPA recommended hold time.

c = Survey date only.

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
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)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
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Site surveyed January 9, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

Blaine Tech Services, Inc.

June 17, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 030603-DA2
Project: 98995756
Site: 5755 Broadway, Oakland

Dear Mr. Gearhart,

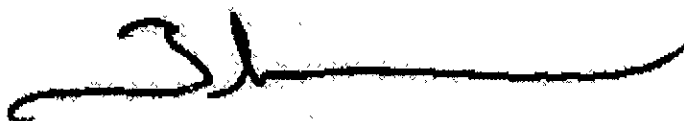
Attached is our report for your samples received on 06/04/2003 15:00
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
07/19/2003 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/MTBE 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: 030603-DA2

98995756

Received: 06/04/2003 15:00

Site: 5755 Broadway, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-2	06/03/2003 11:05	Water	1
H-1	06/03/2003 10:53	Water	2

Gas/BTEX/MTBE 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: 030603-DA2

98995756

Received: 06/04/2003 15:00

Site: 5755 Broadway, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	S-2	Lab ID:	2003-06-0119 - 1
Sampled:	06/03/2003 11:05	Extracted:	6/14/2003 19:25
Matrix:	Water	QC Batch#:	2003/06/14-1g.64
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	42000	5000	ug/L	100.00	06/14/2003 19:25	
Benzene	800	50	ug/L	100.00	06/14/2003 19:25	
Toluene	ND	50	ug/L	100.00	06/14/2003 19:25	
Ethylbenzene	660	50	ug/L	100.00	06/14/2003 19:25	
Total xylenes	1500	100	ug/L	100.00	06/14/2003 19:25	
Methyl tert-butyl ether (MTBE)	9600	50	ug/L	100.00	06/14/2003 19:25	
Surrogates(s)						
1,2-Dichloroethane-d4	113.4	76-130	%	100.00	06/14/2003 19:25	
Toluene-d8	101.1	78-115	%	100.00	06/14/2003 19:25	

Gas/BTEX/MTBE 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: 030603-DA2

98995756

Received: 06/04/2003 15:00

Site: 5755 Broadway, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: H-1	Lab ID: 2003-06-0119 - 2
Sampled: 06/03/2003 10:53	Extracted: 6/14/2003 19:47
Matrix: Water	QC Batch#: 2003/06/14-1g.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	55	50	ug/L	1.00	06/14/2003 19:47	
Benzene	ND	0.50	ug/L	1.00	06/14/2003 19:47	
Toluene	1.3	0.50	ug/L	1.00	06/14/2003 19:47	
Ethylbenzene	ND	0.50	ug/L	1.00	06/14/2003 19:47	
Total xylenes	2.4	1.0	ug/L	1.00	06/14/2003 19:47	
Methyl tert-butyl ether (MTBE)	2.6	0.50	ug/L	1.00	06/14/2003 19:47	
Surrogates(s)						
1,2-Dichloroethane-d4	103.0	76-130	%	1.00	06/14/2003 19:47	
Toluene-d8	102.3	78-115	%	1.00	06/14/2003 19:47	

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

06/16/2003 18:54

Gas/BTEX/MTBE 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: 030603-DA2

98995756

Received: 06/04/2003 15:00

Site: 5755 Broadway, Oakland

Batch QC Report					
Prep(s): 5030B			Test(s): 8260FAB		
Method Blank			Water		
MB: 2003/06/14-1g.64-021			QC Batch # 2003/06/14-1g.64		
			Date Extracted: 06/14/2003 12:03		
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/14/2003 12:03	
Benzene	ND	0.5	ug/L	06/14/2003 12:03	
Toluene	ND	0.5	ug/L	06/14/2003 12:03	
Ethylbenzene	ND	0.5	ug/L	06/14/2003 12:03	
Total xylenes	ND	1.0	ug/L	06/14/2003 12:03	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/14/2003 12:03	
Surrogates(s)					
1,2-Dichloroethane-d4	98.6	76-130	%	06/14/2003 12:03	
Toluene-d8	103.2	78-115	%	06/14/2003 12:03	

Gas/BTEX/MTBE 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: 030603-DA2
98995756

Received: 06/04/2003 15:00

Site: 5755 Broadway, Oakland

Batch QC Report										
Prep(s): 5030B					Test(s): 8260FAB					
Laboratory Control Spike			Water			QC Batch # 2003/06/14-1g.64				
LCS	2003/06/14-1g.64-020		Extracted: 06/14/2003			Analyzed: 06/14/2003 11:19				
LCSD	2003/06/14-1g.64-001		Extracted: 06/14/2003			Analyzed: 06/14/2003 11:41				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	25.5	24.3	25	102.0	97.2	4.8	69-129	20		
Toluene	25.0	24.7	25	100.0	98.8	1.2	70-130	20		
Methyl tert-butyl ether (MTBE)	28.9	27.1	25	115.6	108.4	6.4	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	539	511	500	107.8	102.2		76-130			
Toluene-d8	526	535	500	105.2	107.0		78-115			

Gas/BTEX/MTBE 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

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98995756

Received: 06/04/2003 15:00

Site: 5755 Broadway, Oakland

Legend and Notes

Analysis Flag

o

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

LAB: STL

SHELL Chain Of Custody Record

74794

Lab Identification (if necessary)

Address

City, State, Zip

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Karen Petryna

2003-06-0119

INCIDENT NUMBER (S&E ONLY):

9 8 9 9 5 7 5 6

SAP or CRMT NUMBER (TS/CRMT)

DATE: 6/3/03

PAGE: 1 of 1

SAMPLED COMPANY Blaine Tech Services	LOG CODE BTSS	SITE ADDRESS (Street and City): 5755 Broadway, Oakland	GLOBAL ID NO. T0600101270
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ADDRESS 1680 Rogers Avenue, San Jose, CA 95112	EDF DELIVERABLE TO (Responsible Party or Designee) Anni Kraml	PHONE NO. (510) 420-3335	EMAIL ShellOaklandEDF@cambria-env.com	CONSULTANT PROJECT NO. 030603-DA2
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PROJECT CONTACT (Name, Title or PDF Report ID) Leon Gearhart	SAMPLED NAME(S) (P/P) David Atibut	LAB USE ONLY
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TURNAROUND TIME (BUSINESS DAYS):
 30 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT LIST AGENCY: _____

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORM (g) _____ ALL _____

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

TPH - Gas, Purgable	BTX	MTBE (8260B - 0.5ppb RL)	Oxygenates (S) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (9016m)
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LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgable	BTX	MTBE (8260B - 0.5ppb RL)	Oxygenates (S) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (9016m)	TEMPERATURE ON RECEIPT
		DATE	TIME												
	S-2	6/3/03	1105	w	3	X	X	X							
	H-1	↓	1653	↓	↓	X	X	X							

FIELD NOTES:
 Container/Preservative
 or PID Readings
 or Laboratory Notes:
2.3 °C

Requested by (Signature) <i>David Atibut</i>	Received by (Signature) <i>[Signature]</i>	Date <u>6/4/03</u>	Time <u>1500</u>
Requested by (Signature) <i>[Signature]</i>	Received by (Signature) <i>[Signature]</i>	Date <u>6/4/03</u>	Time <u>1600</u>

DISTRIBUTION: White with this report, Green to PIs, Yellow and Pink to Client

10/16/00 Revision

D&C Graphics (714) 952-9702

WELL GAUGING DATA

Project # 030603-DA2 Date 6/3/03 Client Shell

Site 5755 Broadway Oakland, CA

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	
S-1	3					1.83	11.43	TOC	
S-2	4					3.08	9.51	↓	S
S-3	4					2.65	9.58		
H-1	4					3.38	12.06		S(NP)
T-2	12		No SPH detected			1.55	13.02		
* Checked for SPH w/interface probe									

SHELL WELL MONITORING DATA SHEET

BTS #: 030603-DA2	Site: 5755 Broadway Oakland, CA
Sampler: OA	Date: 6/3/03
Well I.D.: 5-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 9.51	Depth to Water (DTW): 3.08
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.37	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Middleburg Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing
 Other: _____

4.1 (Gals.) X 3 = 12.3 Gals.
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	<u>4"</u>	0.65
2"	0.16	6"	1.17
3"	0.37	Other:	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1056	67.1	6.7	855	16	4.5	clear, odor
1056	67.3	6.9	886	16	9	"
1100	67.1	6.9	909	15	12.5	"
					* Sheen in vials	

Did well dewater? Yes ~~NO~~ Gallons actually evacuated: 12.5

Sampling Date: 6/3/03 Sampling Time: 1105 Depth to Water: 7.27 @ site departure

Sample I.D.: 5-2 Laboratory: Kiff SPL Other: STL

Analyzed for: ~~VOC~~ ~~BTEX~~ ~~MTBE~~ TPH-D Other:

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

SHELL WELL MONITORING DATA SHEET

BTS #: <u>030603-DA2</u>	Site: <u>5755 Broadway Oakland, CA</u>
Sampler: <u>DA</u>	Date: <u>6/3/03</u>
Well I.D.: <u>H-1</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth (TD): <u>12.06</u>	Depth to Water (DTW): <u>3.38</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>MVD</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u> </u>	

Purge Method: <u>Bailer</u>	Water: <u>Peristaltic</u>	Sampling Method: <u>Bailer</u>
<u>Disposable Bailer</u>	<u>Extraction Pump</u>	<input checked="" type="checkbox"/> <u>Disposable Bailer</u>
<u>Middleburg</u>	<u>Other: _____</u>	<u>Extraction Port</u>
<u>Electric Submersible</u>		<u>Dedicated Tubing</u>

$\frac{\text{I Case Volume (Gals.)} \times \text{No Purge}}{\text{Specified Volumes}} = \text{Calculated Volume Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius³ * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ³ * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ³ * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1050	71.5	6.8	224	7200	<u>0</u>	dark organic matter

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 6/3/03 Sampling Time: 1053 Depth to Water:

Sample I.D.: H-1 Laboratory: Kiff SPL Other STL

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

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