R026

Denis L. Brown

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

July 20, 2005

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

Re: First and Second Quarter 2005 Monitoring Report
Shell-branded Service Station
5755 Broadway
Oakland, California
SAP Code 135699
Incident #98995756

Dear Mr. Wickham:

Attached for your review and comment is a copy of the *First and Second 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

CAMBRIA

July 20, 2005

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

Re: **First and Second Quarter 2005 Monitoring Report**
Shell-branded Service Station
5755 Broadway
Oakland, California
Incident #98995756
ACHCSA Case # RO-0026
Cambria Project #247-0483-002

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.

HISTORICAL REMEDIATION SUMMARY

Figures 1 and 2 show the site location. 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 notifying the Alameda County Health Care Services Agency 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.

As described in our *Second Quarter 2003 Monitoring Report*, plans for installing a fixed GWE system were put on hold due to the localized nature of the groundwater impact, and plans for installing a temporary GWE system pumping from well S-2 were initiated. Installation of this temporary system was completed, and operation began on October 28, 2003.

Cambria Environmental Technology, Inc.

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

A pump is installed in well S-2, and extracted water is stored on site in a Baker tank. Water is periodically off hauled from the tank using a vacuum truck. Measurements of transported water are used to assess system production. Through November 10, 2004, a total of 18,355 gallons of water had been produced, equating to a flow rate of approximately 0.03 gallons per minute since system operation began. A total of 0.49 pounds of MTBE has been recovered. Table 1 summarizes mass removal data from the temporary GWE system.

FIRST AND SECOND QUARTER 2005 ACTIVITIES

Groundwater Monitoring: During the first quarter 2005, Blaine Tech Services, Inc. (Blaine) of San Jose, California was unable to access wells S-1, S-2 or S-3 due to interference from fuel system upgrade activities at the site. During the second quarter 2005, Blaine gauged and sampled the 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.

Temporary GWE System: Due to site interference from fuel system upgrade activities, the temporary GWE system did not operate during the first and second quarters of 2005.

Underground Storage Tank (UST) and Piping Upgrades: Upgrades to the USTs and piping were initiated during November 2004. On November 19, 2004, a water line was apparently damaged during the construction activities. On November 20, 2004, station personnel discovered that water leaking from the broken line had entered the tank backfill in sufficient volume to cause the uncovered tanks to float out of the tank hole. Cambria and Shell personnel responded to this situation and temporarily secured the tanks. Piping had been disconnected from the tanks prior to this incident. A small amount of fuel observed to be dripping from one of the tank sumps was contained in a bucket until the sump was secured. Absorbent cloths removed an estimated 10 to 50 milliliters of fuel released into water within the tank backfill. Shell filed an Underground Storage Tank Unauthorized Release (leak) Contamination Site Report dated November 22, 2004 with the Oakland Fire Department and the Regional Water Quality Control Board which describes this incident.

Once the floated USTs were removed on January 31, 2005, Cambria collected a total of eight soil samples at approximately 14 feet below grade (fbg) from beneath the former tank pit locations (samples collected on January 31 and February 9, 2005).

After UST removal, Fillner uncovered visibly hydrocarbon-impacted soil or fill material in the northeast corner of the tank pit while digging in the tank pit with an excavator. Based on the soil type, this material appears to be non-native fill. In order to investigate the possibility of an abandoned tank in the area, Cambria sampled the material, reviewed the site history, and scheduled NORCAL Geophysical Consultants, Inc. to conduct a geophysical survey of the area. Over-excavation in this area was not feasible because of the risk of undermining the structural integrity of the adjacent UST pit. To avoid further delays to the fuel system upgrade project, Cambria agreed to evaluate the possible existence of an additional UST in this area after normal station operations resume.

On February 17, 2005, Cambria collected a total of seven soil samples from beneath the dispenser and fuel piping locations at approximately 2 fbg. To remove some fuel-impacted soil, Fillner completed limited over-excavation in this area on February 24, 2005, and Cambria collected a total of seven confirmation soil samples at the original sample locations at depths ranging from 4 to 6 fbg. All sampling events have been coordinated with and (except for the February 2, 2005 tank pit sampling) supervised by Keith Matthews of the Oakland Fire Department.

Fuel system upgrade activities continued throughout the first and second quarters of 2005, including expansion of the UST pit and installation of new USTs, replacement of fuel piping, and re-grading and paving of the site. Cambria collected additional soil samples to profile the waste generated during grading of the site. In the process of grading, the T-3 well box was removed and reinstalled at a higher elevation. Cambria will coordinate re-surveying of site wells. In the process of replacing the UST, tank backfill wells T-1 and T-2 were removed.

Since groundwater is shallow at this site (approximately 2 to 5 fbg, historically), a significant amount of water was removed throughout the project to facilitate work in the tank pit area. Cambria has estimated hydrocarbon recovery associated water removal during fuel system upgrade activities, based on the last sample collected from tank backfill well T-2, during the third quarter 2004. Cambria estimates that a total of 291,077 gallons of groundwater were removed over the course of fuel system upgrade activities. Approximately 0.08 pounds of MTBE were recovered. Volume removal totals and mass removal calculations are presented in Table 1.

ANTICIPATED THIRD QUARTER 2005 ACTIVITIES

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

Temporary GWE System: MTBE concentrations in groundwater samples collected from the site during the second quarter 2005 indicate a significant decrease since discontinuing temporary GWE system operation. This may be attributed, in part, to MTBE recovery associated with the significant volume of water removed from the site to facilitate fuel system upgrade activities. The MTBE concentration in the GWE system pumping well (S-2) was 3.3 parts per billion (ppb) on May 16, 2005, compared to 1,300 ppb on November 8, 2004. Current MTBE concentrations at the site do not warrant operating the temporary GWE system. Therefore, the system will remain off, pending evaluation of the third quarter 2005 groundwater sampling results.

UST and Piping Upgrades: Cambria will submit under separate cover a report documenting the fuel system upgrade, soil over-excavation, and geophysical survey activities.

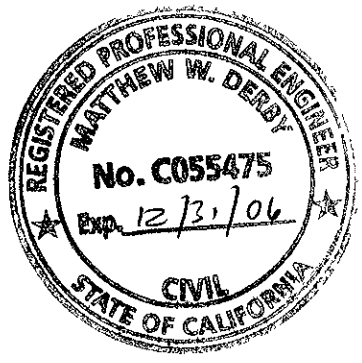
CLOSING

We appreciate the opportunity to work with you on this project. Please call Cynthia Vasko at (510) 420-3344 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Cynthia Vasko
Project Engineer

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



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

Table: 1 - Groundwater Extraction System Mass Removal Data

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810
Thrifty Oil Company, c/o Mr. Raymond Fredricksen, PO Box 2128, Santa Fe Springs, CA 90670 (property owner)

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02/13/02

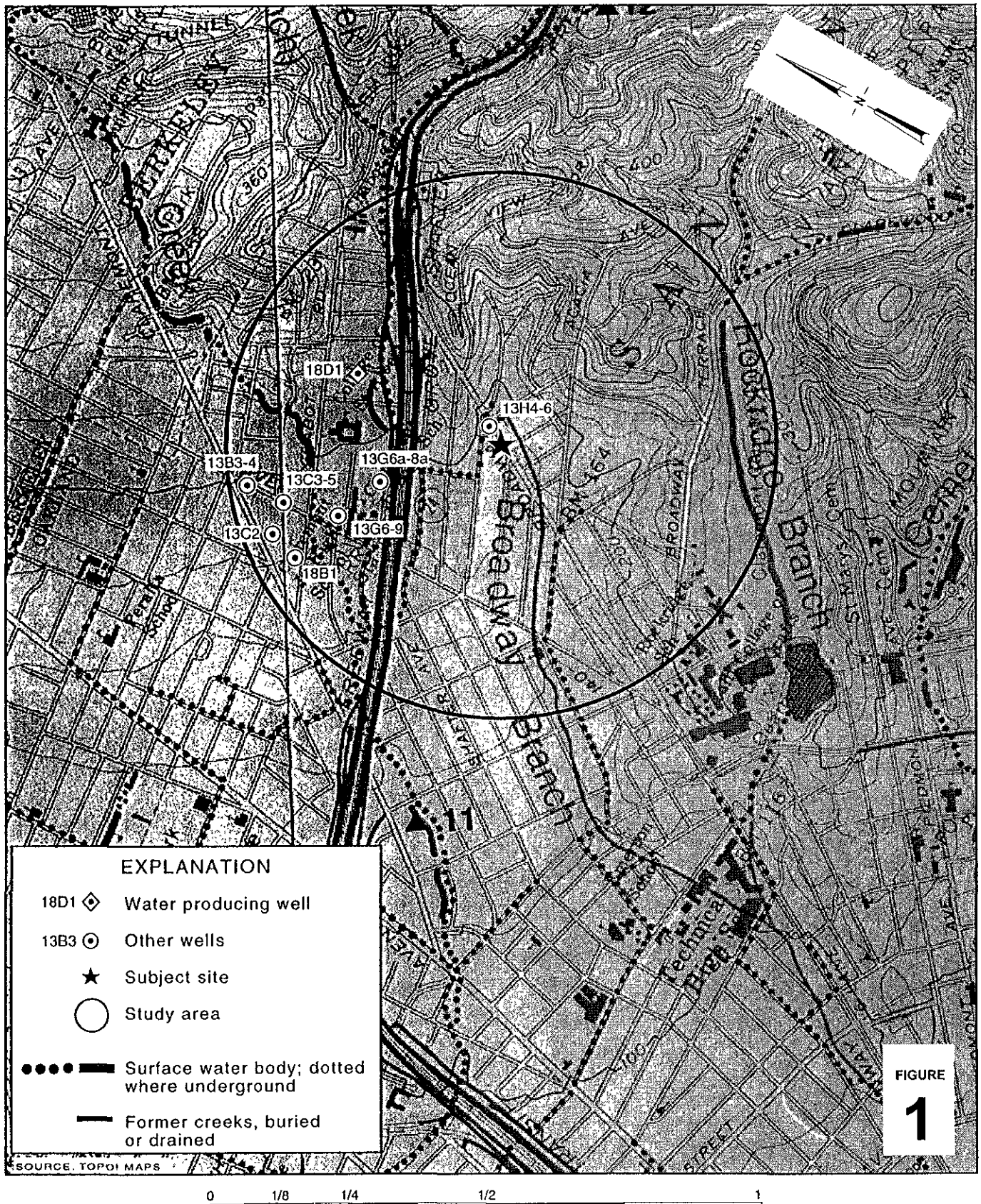

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FIGURE 1

Shell-branded Service Station

5755 Broadway

Oakland, California

Incident #98995756

CAMBRIA

Vicinity / Well Survey Map

(1/2-Mile Radius)

06/23/05

EXPLANATION

- S-1 — Monitoring well location
- S-2 — Groundwater monitoring well used for extraction
- T-1 — Destroyed 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
- XX.XX — Groundwater elevation contour, in feet above mean sea level (msl), approximately located

Well
ELEV
Benzene
MTBE

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

Water Producing Well
18D1

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

Groundwater Flow Direction
(09/07/99 to 05/16/05)

S-3
180.49
<0.50
<0.50

S-2
177.46
<0.50
3.3

S-1
178.79
<0.50
4.9

H-1
176.47
<0.50
48

T-1, T-2, T-3

B-1, B-2, B-3, B-4, B-5, B-6, B-7, B-8, B-9, B-10, B-11

180.00, 179.00, 178.00, 177.00

station building

residential

Temporary Groundwater Extraction Equipment

USTs

dispensers

approximate property line

water and air

planter

grout barrier

trench

sidewalk

TAFT STREET

BROADWAY

crosswalk

18"ϕ SS

12" ϕ SD

SS

E

6.5 fbg

4" horizontal groundwater extraction well

4" SCH 40 PVC vertical access pipe to horizontal well H-1

2.2 fbg

2.1 fbg

4 fbg

0.6 fbg

4.8 fbg

9.5 fbg

SCALE 1"=30'

FEET

FIGURE
2

Groundwater Elevation Contour Map

May 16, 2005

CAMBRIA

Shell-branded Service Station
5755 Broadway
Oakland, California
Incident No 98995756

G:\OAKLAND 5755 BROADWAY\FIGURES\5755QM05.AI

Table 1. Groundwater Extraction System Mass Removal Data, Shell-branded Service Station, Incident #98995756, 5755 Broadway, California

Date Baker Tank Purged	Period Volume (gal)	Cumulative Volume Pumped (gal)	Estimated System Flow Rate (gpm)	Sample Date	TPHg Concentration (ppb)	TPHg Removed (pounds)	Cumulative TPHg Removed (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Cumulative Benzene Removed (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	Cumulative MTBE Removed (pounds)
Water Removed by Temporary GWE System. [1]													
10/28/03	0	0	0.00	08/27/03	31,000	0.000	0.000	630	0.000	0.000	15,000	0.000	0.000
11/25/03	2,701	2.701	0.07	11/25/03	8,400	0.189	0.189	<50	0.001	0.001	4,500	0.101	0.101
12/19/03	963	3,664	0.03	12/19/03	<5,000	0.020	0.209	<50	0.000	0.001	2,600	0.021	0.122
Not Purged	0	3,664	NM	01/08/04	<2,500	0.000	0.209	180	0.000	0.001	3,000	0.000	0.122
Not Purged	0	3,664	NM	02/03/04	<2,500	0.000	0.209	80	0.000	0.001	3,200	0.000	0.122
02/04/04	3,727	7,391	0.06	02/03/04	<2,500	0.039	0.248	80	0.002	0.003	3,200	0 100	0.222
Not Purged	0	7,391	NM	02/10/04	<2,500	0.000	0.248	130	0.000	0.003	3,800	0.000	0.222
Not Purged	0	7,391	NM	04/13/04	4,400	0.000	0.248	520	0.000	0.003	6,500	0.000	0.222
04/14/04	3,693	11,084	0.04	04/13/04	4,400	0.136	0.384	520	0.016	0.019	6,500	0.200	0.422
Not Purged	0	11,084	NM	05/14/04	<2,500	0.000	0.384	38	0.000	0.019	2,900	0.000	0.422
Not Purged	0	11,084	NM	06/08/04	<2,500	0.000	0.384	82	0 000	0.019	2,400	0.000	0.422
Not Purged	0	11,084	NM	07/06/04	<1,000	0.000	0.384	110	0.000	0.019	1,500	0.000	0.422
Not Purged	0	11,084	NM	08/04/04	1,200	0.000	0.384	82	0.000	0.019	1,400	0.000	0.422
08/07/04	3,983	15,067	0.02	08/04/04	1,200	0.040	0.424	82	0.003	0.022	1,400	0.047	0.469
09/03/04	0	15,067	NM	09/03/04	<1,000	0.000	0.424	25	0.000	0.022	1,200	0.000	0.469
10/07/04	0	15,067	NM	10/07/04	7,200	0.000	0.424	170	0.000	0.022	940	0.000	0.469
11/10/04	3,288	18,355	0.02	11/10/04	4,400	0.121	0.544	71	0.002	0.024	880	0.024	0.493
Water removed during 2004-2005 Fuel System Upgrade Project. [2]													
11/17/04 - 2/14/05	154,430	154,430	1.20	08/12/04	450	0.580	0.580	<0.50	0.000	0.000	33	0.043	0.043
3/2/05 - 4/19/05	111,646	266,076	1.62	08/12/04	450	0.419	0.999	<0.50	0.000	0.001	33	0.031	0.073
5/31/05 - 6/1/05	25,001	291,077	17.36	08/12/04	450	0.094	1.093	<0.50	0.000	0.001	33	0.007	0.080
Total Gallons Extracted:	**309,432**				**Total Pounds Removed:**	**1.64**				**0.025**			**0.573**
Average GWE System Flow Rate:	**0.03**				**Total Gallons Removed:**	**0.269**				**0.003**			**0.093**

Table 1. Groundwater Extraction System Mass Removal Data, Shell-branded Service Station, Incident #98995756, 5755 Broadway, California

Abbreviations & Notes:

TPHg = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tertiary butyl ether

ppb = Parts per billion, equivalent to µg/L

Not Purged = The baker tank is emptied as needed when full. Volume is measured based on periodic baker tank pumpouts. Tank is not pumped during every sampling event.

NM = If baker tank is not emptied, no new period volume is calculated. Therefore, period flow rate is not calculated for every sampling event.

µg = Micrograms

L = Liter

gal = Gallon

g = Gram

TPHg and benzene analyzed by EPA Method 8015/8020 or equivalent.

MTBE analyzed by EPA Method 8260.

When constituents are not detected, the concentration is assumed to be equal to half the detection limit in subsequent calculations.

Mass removed (pounds) based on the formula volume(gal) x concentration(µg/L) x ($g/10^6 \mu g$) x (pound/453.6g) x (3.785 L/gal)

Volume removed (gallons) based on the formula: {mass(pounds) x 453.6(g/pound) x (gal/3.785L) x ($L/1000cm^3$)} / density(g/cm^3)

Density inputs: TPHg = 0 73 g/cm^3, benzene = 0.88 g/cm^3, MTBE = 0.74 g/cm^3

1. Groundwater is extracted from well S-2 using a submersible groundater pump, and contained in a 6,500 gallon baker tank. The baker tank is periodically emptied using vacuum trucks provided by Onyx Industrial. The water is disposed of at Shell's Martinez facility. Concentrations based on most recent groundwater monitoring results for well S-2.

2. Groundwater was removed from former tank backfill well and/or open tank pit excavation, as part of dewatering operations to facilitate fuel system upgrades. At times, one or more baker tanks were used to temporarily store groundwater, before transport to Shell's Martinez refinery using vacuum trucks. Concentrations based on last sample collected from backfill well T-2.

ATTACHMENT A

Blaine Groundwater Monitoring Report and Field Notes

BLAINE
TECH SERVICES INC

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

June 3, 2005

Denis Brown
Shell Oil Products US
20945 South Wilmington Avenue
Carson, CA 90810

Second Quarter 2005 Groundwater Monitoring at
Shell-branded Service Station
5755 Broadway
Oakland, CA

Monitoring performed on May 16, 2005

Groundwater Monitoring Report **050516-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/ks

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
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	NA	NA	100.00	4.26	95.74	NA
S-1	12/16/1993	NA	NA	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	NA	NA	100.00	3.70	96.30	NA
S-1	11/09/1994	<50	4	<0.5	<0.5	<0.5	NA	NA	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	NA	NA	100.00	3.99	96.01	NA
S-1	02/02/1996	<50	11	<0.5	0.9	<0.5	NA	NA	NA	NA	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	NA	NA	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	NA	NA	NA	NA	100.00	3.43	96.57	NA
S-1	11/07/1996	<50	<0.5	<0.5	<0.5	<0.5	57	NA	NA	NA	NA	NA	100.00	3.70	96.30	4.33
S-1	02/20/1997	<50	0.64	<0.50	<0.50	1.6	6.5	NA	NA	NA	NA	NA	100.00	3.60	96.40	2

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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	05/30/1997	<50	<0.50	<0.50	<0.50	<0.50	46	NA	NA	NA	NA	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	NA	NA	NA	NA	100.00	3.47	96.53	7
S-1	08/21/1997	<50	<0.50	<0.50	<0.50	0.84	26	NA	NA	NA	NA	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	NA	NA	NA	NA	100.00	3.66	96.34	2
S-1	01/20/1998	110	7.9	2.8	4.4	13	53	NA	NA	NA	NA	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	NA	NA	NA	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	NA	NA	NA	NA	100.00	2.43	97.57	2.2
S-1	09/07/1999	NA	NA	NA	NA	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	NA	NA	NA	NA	100.00	3.10	96.90	2.1
S-1	04/26/2000	NA	NA	NA	NA	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	NA	NA	NA	NA	100.00	3.21	96.79	1.8
S-1	11/15/2000	NA	NA	NA	NA	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	NA	NA	NA	NA	100.00	1.34	98.66	2.2
S-1	06/07/2001	NA	NA	NA	NA	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	NA	NA	NA	NA	100.00	3.16	96.84	4.0
S-1	12/05/2001	NA	NA	NA	NA	NA	NA	2.6	NA	NA	NA	NA	100.00	1.90	98.10	NA
S-1	01/31/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	100.00	2.67	97.33	NA
S-1	06/04/2002	NA	NA	NA	NA	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	NA	NA	NA	NA	100.00	2.01	97.99	NA
S-1	11/07/2002	NA	NA	NA	NA	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	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	NA	NA	NA	NA	181.89	2.12	179.77	NA
S-1	06/03/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	181.89	1 83	180.06	NA
S-1	08/27/2003	<50	0.50	1.5	<0.50	2.0	NA	130	NA	NA	NA	NA	181.89	3.32	178.57	NA
S-1	11/25/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	181.89	3 28	178.61	NA
S-1	02/05/2004	270	2.4	6.4	5.8	19	NA	8.3	NA	NA	NA	NA	181.89	2.09	179.80	NA
S-1	04/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	181.89	2.61	179.28	NA
S-1	08/12/2004	<500	<5.0	<5.0	<5.0	<10	NA	1,100	<20	<20	<20	<50	181.89	3.70	178.19	NA

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S-1	11/08/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	181.89	3.04	178.85	NA
S-1	**05/16/2005**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**4.9**	**NA**	**NA**	**NA**	**NA**	**181.89**	**3.10**	**178.79**	**NA**
S-2	01/25/1991	450	140	1.8	6.2	15	NA	NA	NA	NA	NA	NA	98.92	4.52	94.40	NA
S-2	06/03/1991	490	150	2.7	8.2	7	NA	NA	NA	NA	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	NA	NA	NA	NA	98.92	4.70	94.22	NA
S-2	11/22/1991	1,600	110	9.3	29	150	NA	NA	NA	NA	NA	NA	98.92	4.72	94.20	NA
S-2	03/13/1992	1,300	210	5.7	34	79	NA	NA	NA	NA	NA	NA	98.92	3.47	95.45	NA
S-2	05/28/1992	100	28	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.92	4.45	94.45	NA
S-2	08/19/1992	470	42	<0.5	8.3	4	NA	NA	NA	NA	NA	NA	98.92	4.84	94.08	NA
S-2	11/18/1992	490	43	39	17	29	NA	NA	NA	NA	NA	NA	98.92	4.73	94.19	NA
S-2	02/10/1993	19,000	710	760	80	370	NA	NA	NA	NA	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	NA	NA	NA	NA	98.92	3.74	95.18	NA
S-2	08/03/1993	18,000	1,400	130	81	130	NA	NA	NA	NA	NA	NA	98.92	4.23	94.69	NA
S-2 (D)	08/03/1993	19,000	1,400	140	86	150	NA	NA	NA	NA	NA	NA	98.92	4.23	94.69	NA
S-2	11/02/1993	12,000a	470	47	31	92	NA	NA	NA	NA	NA	NA	98.92	4.72	94.20	NA
S-2 (D)	11/02/1993	13,000a	530	47	35	96	NA	NA	NA	NA	NA	NA	98.92	4.72	94.20	NA
S-2	12/16/1993	NA	NA	NA	NA	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	NA	NA	NA	NA	98.92	3.48	95.44	NA
S-2 (D)	02/01/1994	31,000a	300	33	30	100	NA	NA	NA	NA	NA	NA	98.92	3.48	95.44	NA
S-2	05/04/1994	3,900	1,200	31	53	71	NA	NA	NA	NA	NA	NA	98.92	3.26	95.66	NA
S-2 (D)	05/04/1994	4,500	1,200	37	57	110	NA	NA	NA	NA	NA	NA	98.92	3.26	95.66	NA
S-2	08/18/1994	24,000	600	8.3	15	27	NA	NA	NA	NA	NA	NA	98.92	3.98	94.94	NA
S-2	11/09/1994	1,400a	240	9.3	13	20	NA	NA	NA	NA	NA	NA	98.92	3.10	95.82	NA
S-2 (D)	11/09/1994	1,800	260	8.5	13	21	NA	NA	NA	NA	NA	NA	98.92	3.10	95.82	NA
S-2	02/22/1995	29,000	550	18	12	63	NA	NA	NA	NA	NA	NA	98.92	4.02	94.90	NA
S-2 (D)	02/22/1995	28,000	530	17	10	60	NA	NA	NA	NA	NA	NA	98.92	4.02	94.90	NA
S-2	05/02/1995	4,400	1,000	25	38	77	NA	NA	NA	NA	NA	NA	98.92	2.86	96.06	NA

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S-2 (D)	05/02/1995	4,400	1,000	26	41	83	NA	NA	NA	NA	NA	NA	98.92	2.86	96.06	NA
S-2	08/30/1995	800	350	20	6.7	16	NA	NA	NA	NA	NA	NA	98.92	4.06	94.86	NA
S-2 (D)	08/30/1995	960	220	22	12	48	NA	NA	NA	NA	NA	NA	98.92	4.06	94.86	NA
S-2	11/28/1995	2,000	230	220	50	230	NA	NA	NA	NA	NA	NA	98.92	4.48	94.44	NA
S-2 (D)	11/28/1995	2,100	240	230	51	230	NA	NA	NA	NA	NA	NA	98.92	4.48	94.44	NA
S-2	02/02/1996	18,000	540	18	12	22	NA	NA	NA	NA	NA	NA	98.92	1.99	96.93	NA
S-2 (D)	02/02/1996	11,000	600	18	13	28	NA	NA	NA	NA	NA	NA	98.92	1.99	96.93	NA
S-2	03/09/1996	3,800	1,500	27	30	58	NA	NA	NA	NA	NA	NA	98.92	3.27	95.65	NA
S-2 (D)	03/09/1996	3,500	1,300	24	21	53	NA	NA	NA	NA	NA	NA	98.92	3.27	95.65	NA
S-2	08/22/1996	<20,000	490	<200	<200	<200	43,000	NA	NA	NA	NA	NA	98.92	3.85	95.07	NA
S-2 (D)	08/22/1996	<20,000	570	<200	<200	<200	59,000	51,000	NA	NA	NA	NA	98.92	3.85	95.07	NA
S-2	11/07/1996	<5,000	290	<50	<50	<50	32,000	NA	NA	NA	NA	NA	98.92	4.00	94.92	3.51
S-2 (D)	11/07/1996	<5,000	290	<50	<50	<50	32,000	NA	NA	NA	NA	NA	98.92	4.00	94.92	3.51
S-2	02/20/1997	<10,000	520	<100	<100	<100	28,000	NA	NA	NA	NA	NA	98.92	3.20	95.72	1
S-2 (D)	02/20/1997	<10,000	520	<100	<100	<100	35,000	NA	NA	NA	NA	NA	98.92	3.20	95.72	1
S-2	05/30/1997	150	15	11	3.5	15	11	NA	NA	NA	NA	NA	98.92	3.87	95.05	6
S-2	08/21/1997	1,600	220	<10	20	<10	18,000	NA	NA	NA	NA	NA	98.92	3.29	95.63	3.3
S-2 (D)	08/21/1997	1,500	180	<10	16	<10	21,000	NA	NA	NA	NA	NA	98.92	3.29	95.63	3.3
S-2	11/03/1997	1,000	94	<10	<10	<10	<50	NA	NA	NA	NA	NA	98.92	4.02	94.90	1.8
S-2	01/20/1998	590	110	8.3	18	23	7,800	NA	NA	NA	NA	NA	98.92	1.54	97.38	3.2
S-2	07/23/1998	2,600	840	<10	44	22	15,000	NA	NA	NA	NA	NA	98.92	2.89	96.03	NA
S-2	02/16/1999	680	140	6.1	10	18	19,000	NA	NA	NA	NA	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	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	98.92	1.47	97.45	2.0

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S-2	06/07/2001	31,000	1,000	<25	630	3,200	NA	17,000	NA	NA	NA	NA	98.92	3.43	95.49	10.4
S-2	08/31/2001	50,000	950	<20	1,500	6,000	NA	17,000	NA	NA	NA	NA	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	NA	NA	NA	NA	98.92	1.53	97.39	NA
S-2	01/31/2002	37,000	860	<25	1,100	4,000	NA	14,000	NA	NA	NA	NA	98.92	2.13	96.79	NA
S-2	06/04/2002	150,000	800	<20	1,200	4,000	NA	9,200	NA	NA	NA	NA	98.92	2.24	96.68	NA
S-2	07/25/2002	37,000	350	<20	660	2,400	NA	10,000	NA	NA	NA	NA	98.92	2.03	96.89	NA
S-2	11/14/2002	25,000	510	<25	590	2,000	NA	10,000	NA	NA	NA	NA	180.79	3.17	177.62	NA
S-2	01/02/2003	NA	710	<25	560	2,074	NA	NA	NA	NA	NA	NA	180.79	2.15	178.64	NA
S-2	01/30/2003	21,000	670	<20	360	1,200	NA	9,300	NA	NA	NA	NA	180.79	2.09	178.70	NA
S-2	06/03/2003	42,000	800	<50	660	1,500	NA	9,600	NA	NA	NA	NA	180.79	3.08	177.71	NA
S-2	08/27/2003	31,000	630	<100	510	1,200	NA	15,000	NA	NA	NA	NA	180.79	2.55	178.24	NA
S-2	11/25/2003 d	8,400 a	<50	<50	<50	<100	NA	4,500	NA	NA	NA	NA	180.79	NA	NA	NA
S-2	02/05/2004	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	180.79	NA	NA	NA
S-2	02/10/2004 d	<2,500	130	<25	<25	<50	NA	3,800	NA	NA	NA	NA	180.79	NA	NA	NA
S-2	04/21/2004	4,700	100	<25	<25	<50	NA	2,900	NA	NA	NA	NA	180.79	7.38	173.41	NA
S-2	08/12/2004	2,600	63	<13	<13	<25	NA	1,400	<50	<50	<50	1,200	180.79	e	NA	NA
S-2	11/08/2004	3,600	<25	<25	<25	<50	NA	1,300	NA	NA	NA	NA	180.79	f	NA	NA
S-2	**05/16/2005**	**73 g**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**3.3**	**NA**	**NA**	**NA**	**NA**	**180.79**	**3.33**	**177.46**	**NA**
S-3	01/25/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	NA	NA	101.67	4.36	97.31	NA

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S-3	06/11/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	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	NA	NA	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	NA	NA	NA	NA	101.67	3.70	97.97	NA
S-3	11/02/1993	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	101.67	NA	NA	NA
S-3	12/16/1993	NA	NA	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	NA	NA	101.67	2.24	99.43	NA
S-3	03/09/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	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	NA	NA	NA	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	NA	NA	NA	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	NA	NA	NA	NA	101.67	3.00	98.67	1
S-3	05/30/1997	140	14	10	3.3	14	8.6	NA	NA	NA	NA	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	NA	NA	NA	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	NA	NA	NA	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	NA	NA	NA	NA	101.67	3.36	98.31	2.4
S-3	01/20/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	101.67	NA	NA	NA
S-3	07/23/1998	NA	NA	NA	NA	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	NA	NA	NA	NA	101.67	2.20	99.47	2.8
S-3	09/07/1999	NA	NA	NA	NA	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	NA	NA	NA	NA	101.67	3.97	97.70	2.7
S-3	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.67	2.96	98.71	NA

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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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-3	07/25/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	101.67	3.00	98.67	0.8
S-3	11/15/2000	NA	NA	NA	NA	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	NA	NA	NA	NA	101.67	2.47	99.20	2.3
S-3	06/07/2001	NA	NA	NA	NA	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	NA	NA	NA	NA	101.67	3.94	97.73	0.5
S-3	12/05/2001	NA	NA	NA	NA	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	NA	NA	NA	NA	101.67	2.29	99.38	NA
S-3	06/04/2002	NA	NA	NA	NA	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	NA	NA	NA	NA	101.67	2.70	98.97	NA
S-3	11/14/2002	NA	NA	NA	NA	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	NA	NA	NA	NA	183.54	2.16	181.38	NA
S-3	01/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	183.54	2.65	180.89	NA
S-3	08/27/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	0.55	NA	NA	NA	NA	183.54	2.75	180.79	NA
S-3	11/25/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	183.54	2.85	180.69	NA
S-3	02/05/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	183.54	2.04	181.50	NA
S-3	04/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	183.54	2.50	181.04	NA
S-3	08/12/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	183.54	3.91	179.63	NA
S-3	11/08/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	183.54	2.84	180.70	NA
S-3	**05/16/2005**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**NA**	**NA**	**NA**	**NA**	**183.54**	**3.05**	**180.49**	**NA**
H-1	12/05/2001	150	<0.50	8.3	1.6	16	NA	52	NA	NA	NA	NA	NA	1.43	NA	NA
H-1	01/31/2002	3,200	12	<0.50	5.7	3.7	NA	650	NA	NA	NA	NA	NA	2.34	NA	NA
H-1	06/04/2002	280,000	<10	150	62	9,500	NA	<100	NA	NA	NA	NA	NA	2.56	NA	NA
H-1	07/25/2002	8,200	2.2	46	5.3	99	NA	<10	NA	NA	NA	NA	NA	2.83	NA	NA
H-1	11/14/2002	1,700	2.1	2.6	1.5	14	NA	380	NA	NA	NA	NA	180.63	3.74	176.89	NA
H-1	01/02/2003	NA	1.1	<0.50	<0.50	3.6	NA	NA	NA	NA	NA	NA	180.63	1.45	179.18	NA
H-1	01/30/2003	630	0.99	2.0	1.6	12	NA	21	NA	NA	NA	NA	180.63	2.10	178.53	NA
H-1	06/03/2003	55	<0.50	1.3	<0.50	2.4	NA	2.6	NA	NA	NA	NA	180.63	3.38	177.25	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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
H-1	08/27/2003	<50	0.55	<0.50	<0.50	1.2	NA	2.8	NA	NA	NA	NA	180.63	4.10	176.53	NA
H-1	11/25/2003	77 a	9.7	<0.50	<0.50	<1.0	NA	21	NA	NA	NA	NA	180.63	3.72	176.91	NA
H-1	02/05/2004	380	41	1.2	5.1	8.0	NA	21	NA	NA	NA	NA	180.63	1.69	178.94	NA
H-1	04/21/2004	640	27	0.63	2.0	2.3	NA	33	NA	NA	NA	NA	180.63	2.14	178.49	NA
H-1	08/12/2004	340	18	0.75	<0.50	1.7	NA	43	NA	NA	NA	NA	180.63	4.78	175.85	NA
H-1	11/08/2004	1,500	29	<1.0	1.7	<2.0	NA	57	NA	NA	NA	NA	180.63	4.17	176.46	NA
H-1	**05/16/2005**	**150 g**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**48**	**NA**	**NA**	**NA**	**NA**	**180.63**	**4.16**	**176.47**	**NA**
T-1	05/30/1997	NA	NA	NA	NA	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	NA	NA	NA	NA	2.69	NA	NA
T-1	11/03/1997	NA	NA	NA	NA	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	NA	NA	NA	NA	0.61	NA	NA
T-1	07/23/1998	NA	NA	NA	NA	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	NA	NA	NA	NA	1.95	NA	NA
T-1	09/07/1999	NA	NA	NA	NA	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	NA	NA	NA	NA	2.66	NA	2.5
T-1	04/26/2000	NA	NA	NA	NA	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	NA	NA	NA	NA	2.60	NA	NA
T-1	11/15/2000	NA	NA	NA	NA	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	NA	NA	NA	NA	1.20	NA	NA
T-1	06/07/2001	NA	NA	NA	NA	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	NA	NA	NA	NA	3.45	NA	NA
T-1	01/09/2002 c	NA	NA	NA	NA	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	NA	NA	NA	NA	1.81	NA	NA
T-2	08/21/1997	NA	NA	NA	NA	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	NA	NA	NA	NA	2.25	NA	NA
T-2	01/20/1998	NA	NA	NA	NA	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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
T-2	07/23/1998	NA	NA	NA	NA	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	NA	NA	NA	NA	1.08	NA	NA
T-2	09/07/1999	NA	NA	NA	NA	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	NA	NA	NA	NA	0.98	NA	3.0
T-2	04/26/2000	NA	NA	NA	NA	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	NA	NA	NA	NA	1.80	NA	0.8
T-2	11/15/2000	NA	NA	NA	NA	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	NA	NA	NA	NA	1.45	NA	1.6
T-2	06/07/2001	NA	NA	NA	NA	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	NA	NA	NA	NA	2.69	NA	0.8
T-2	12/05/2001	NA	NA	NA	NA	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	NA	NA	NA	NA	1.32	NA	NA
T-2	02/04/2002	1,000	41	30	4.6	20	NA	1,200	NA	NA	NA	NA	NA	1.46	NA	NA
T-2	06/04/2002	NA	NA	NA	NA	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	NA	NA	NA	NA	1.53	NA	NA
T-2	11/14/2002	NA	NA	NA	NA	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	NA	NA	NA	NA	182.30	1.01	181.29	NA
T-2	06/03/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	182.30	1.55	180.75	NA
T-2	08/27/2003	180 a	1.6	<0.50	<0.50	<1.0	NA	10	NA	NA	NA	NA	182.30	1.60	180.70	NA
T-2	11/25/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	182.30	1.64	180.66	NA
T-2	02/05/2004	940	110	10	2.4	14	NA	67	NA	NA	NA	NA	182.30	0.66	181.64	NA
T-2	04/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	182.30	1.50	180.80	NA
T-2	08/12/2004	450	<0.50	<0.50	<0.50	<1.0	NA	33	NA	NA	NA	NA	182.30	2.72	179.58	NA
T-2	11/08/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	182.30	1.72	180.58	NA
T-3	05/30/1997	NA	NA	NA	NA	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	NA	NA	NA	NA	1.57	NA	NA
T-3	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.50	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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
T-3	01/20/1998	NA	NA	NA	NA	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	NA	NA	NA	NA	0.82	NA	NA
T-3	02/16/1999	NA	NA	NA	NA	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	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	NA	NA	NA	NA	3.02	NA	2.9
T-3	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.81	NA	NA
T-3	07/25/2000	NA	NA	NA	NA	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	NA	NA	NA	NA	1.70	NA	NA
T-3	02/12/2001	NA	NA	NA	NA	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	NA	NA	NA	NA	1.68	NA	NA
T-3	08/31/2001	NA	NA	NA	NA	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	NA	NA	NA	NA	180.95	NA	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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)

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

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

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
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)

Notes:

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

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

c = Survey date only.

d = Sampled by client; Cambria Environmental.

e = Unable to gauge depth to water due to extraction tubing.

f = Unable to gauge.

g = Quantity of unknown hydrocarbon(s) in sample based on gasoline.

Site surveyed January 9, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

SEVERN TRENT STL

Submission#: 2005-05-0503

Blaine Tech Services, Inc.

May 31, 2005

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 050516-DW-1
Project: 98995756
Site: 5755 Broadway, Oakland

Dear Mr.Gearhart,

Attached is our report for your samples received on 05/17/2005 14:35
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 07/01/2005 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

Melissa Brewer
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: 050516-DW-1
98995756

Received: 05/17/2005 14:35

Site: 5755 Broadway, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-1	05/16/2005 10:27	Water	1
S-2	05/16/2005 10:35	Water	2
S-3	05/16/2005 10:18	Water	3
H-1	05/16/2005 10:01	Water	4

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: 050516-DW-1
98995756

Received: 05/17/2005 14:35

Site: 5755 Broadway, Oakland

Prep(s): 5030B
Sample ID: **S-1**
Sampled: 05/16/2005 10:27
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-05-0503 - 1
Extracted: 5/26/2005 00:30
QC Batch#: 2005/05/25-2C.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	05/26/2005 00:30	
Benzene	ND	0.50	ug/L	1.00	05/26/2005 00:30	
Toluene	ND	0.50	ug/L	1.00	05/26/2005 00:30	
Ethylbenzene	ND	0.50	ug/L	1.00	05/26/2005 00:30	
Total xylenes	ND	1.0	ug/L	1.00	05/26/2005 00:30	
Methyl tert-butyl ether (MTBE)	4.9	0.50	ug/L	1.00	05/26/2005 00:30	
Surrogate(s)						
1,2-Dichloroethane-d4	98.2	73-130	%	1.00	05/26/2005 00:30	
Toluene-d8	97.3	81-114	%	1.00	05/26/2005 00:30	

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: 050516-DW-1
98995756

Received: 05/17/2005 14:35

Site: 5755 Broadway, Oakland

Prep(s): 5030B

Test(s): 8260B

Sample ID: **S-2**

Lab ID: 2005-05-0503 - 2

Sampled: 05/16/2005 10:35

Extracted: 5/26/2005 00:47

Matrix: Water

QC Batch#: 2005/05/25-2C.68

pH: <2

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	73	50	ug/L	1.00	05/26/2005 00:47	Q1
Benzene	ND	0.50	ug/L	1.00	05/26/2005 00:47	
Toluene	ND	0.50	ug/L	1.00	05/26/2005 00:47	
Ethylbenzene	ND	0.50	ug/L	1.00	05/26/2005 00:47	
Total xylenes	ND	1.0	ug/L	1.00	05/26/2005 00:47	
Methyl tert-butyl ether (MTBE)	3.3	0.50	ug/L	1.00	05/26/2005 00:47	
Surrogate(s)						
1,2-Dichloroethane-d4	97.9	73-130	%	1.00	05/26/2005 00:47	
Toluene-d8	96.3	81-114	%	1.00	05/26/2005 00:47	

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: 050516-DW-1
98995756

Received: 05/17/2005 14:35

Site: 5755 Broadway, Oakland

Prep(s): 5030B
Sample ID: **S-3**
Sampled: 05/16/2005 10:18
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-05-0503 - 3
Extracted: 5/26/2005 01:04
QC Batch#: 2005/05/25-2C.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	05/26/2005 01:04	
Benzene	ND	0.50	ug/L	1.00	05/26/2005 01:04	
Toluene	ND	0.50	ug/L	1.00	05/26/2005 01:04	
Ethylbenzene	ND	0.50	ug/L	1.00	05/26/2005 01:04	
Total xylenes	ND	1.0	ug/L	1.00	05/26/2005 01:04	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/26/2005 01:04	
Surrogate(s)						
1,2-Dichloroethane-d4	93.5	73-130	%	1.00	05/26/2005 01:04	
Toluene-d8	97.1	81-114	%	1.00	05/26/2005 01:04	

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: 050516-DW-1
98995756

Received: 05/17/2005 14:35

Site: 5755 Broadway, Oakland

Prep(s): 5030B
Sample ID: **H-1**
Sampled: 05/16/2005 10:01
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-05-0503 - 4
Extracted: 5/25/2005 20:51
QC Batch#: 2005/05/25-2A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	150	50	ug/L	1.00	05/25/2005 20:51	Q1
Benzene	ND	0.50	ug/L	1.00	05/25/2005 20:51	
Toluene	ND	0.50	ug/L	1.00	05/25/2005 20:51	
Ethylbenzene	ND	0.50	ug/L	1.00	05/25/2005 20:51	
Total xylenes	ND	1.0	ug/L	1.00	05/25/2005 20:51	
Methyl tert-butyl ether (MTBE)	48	0.50	ug/L	1.00	05/25/2005 20:51	
Surrogate(s)						
1,2-Dichloroethane-d4	107.0	73-130	%	1.00	05/25/2005 20:51	
Toluene-d8	102.0	81-114	%	1.00	05/25/2005 20:51	

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: 050516-DW-1
98995756

Received: 05/17/2005 14:35

Site: 5755 Broadway, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2005/05/25-2A.69**

MB: 2005/05/25-2A.69-024 — Date Extracted: 05/25/2005 18:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	05/25/2005 18:24	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/25/2005 18:24	
Benzene	ND	0.5	ug/L	05/25/2005 18:24	
Toluene	ND	0.5	ug/L	05/25/2005 18:24	
Ethylbenzene	ND	0.5	ug/L	05/25/2005 18:24	
Total xylenes	ND	1.0	ug/L	05/25/2005 18:24	
Surrogates(s)					
1,2-Dichloroethane-d4	102.0	73-130	%	05/25/2005 18:24	
Toluene-d8	102.4	81-114	%	05/25/2005 18:24	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.
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Project: 050516-DW-1
98995756

Received: 05/17/2005 14:35

Site: 5755 Broadway, Oakland

Batch QC Report

Prep(s): 5030B
Test(s): 8260B

Method Blank **Water** **QC Batch # 2005/05/25-2C.68**

MB: 2005/05/25-2C.68-016
Date Extracted: 05/25/2005 18:16

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	05/25/2005 18:16	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/25/2005 18:16	
Benzene	ND	0.5	ug/L	05/25/2005 18:16	
Toluene	ND	0.5	ug/L	05/25/2005 18:16	
Ethylbenzene	ND	0.5	ug/L	05/25/2005 18:16	
Total xylenes	ND	1.0	ug/L	05/25/2005 18:16	
Surrogates(s)					
1,2-Dichloroethane-d4	87.4	73-130	%	05/25/2005 18:16	
Toluene-d8	98.6	81-114	%	05/25/2005 18:16	

Gas/BTEX/MTBE by 8260B (C6-C12)

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Project: 050516-DW-1
98995756

Received: 05/17/2005 14:35

Site: 5755 Broadway, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/05/25-2A.69**

LCS 2005/05/25-2A.69-006 Extracted: 05/25/2005 Analyzed: 05/25/2005 18:06
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.6		25	98.4			65-165	20		
Benzene	23.7		25	94.8			69-129	20		
Toluene	23.1		25	92.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	494		500	98.8			73-130			
Toluene-d8	511		500	102.2			81-114			

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

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Project: 050516-DW-1
98995756

Received: 05/17/2005 14:35

Site: 5755 Broadway, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/05/25-2C.68**

LCS 2005/05/25-2C.68-059 Extracted: 05/25/2005 Analyzed: 05/25/2005 17:59

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	23.0		25	92.0			65-165	20		
Benzene	25.3		25	101.2			69-129	20		
Toluene	26.6		25	106.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	373		500	74.6			73-130			
Toluene-d8	496		500	99.2			81-114			

Gas/BTEX/MTBE 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: 050516-DW-1
98995756

Received: 05/17/2005 14:35

Site: 5755 Broadway, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/05/25-2A.69**

MS/MSD

Lab ID: 2005-05-0594 - 006

MS: 2005/05/25-2A.69-022 Extracted: 05/25/2005 Analyzed: 05/25/2005 22:22
Dilution: 1.00

MSD: 2005/05/25-2A.69-040 Extracted: 05/25/2005 Analyzed: 05/25/2005 22:40
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	42.6	41.3	26.4	25	64.8	59.6	8.4	65-165	20	M5	M5
Benzene	128	116	136	25	-32.0	-80.0	-85.	69-129	20	M5	M5,R1
Toluene	37.8	35.1	19.3	25	74.0	63.2	15.7	70-130	20		M5
Surrogate(s)											
1,2-Dichloroethane-d4	458	462		500	91.6	92.4		73-130			
Toluene-d8	530	535		500	106.0	107.0		81-114			

Gas/BTEX/MTBE 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: 050516-DW-1
98995756

Received: 05/17/2005 14:35

Site: 5755 Broadway, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/05/25-2C.68**

MS/MSD

Lab ID: 2005-05-0555 - 002

MS: 2005/05/25-2C.68-010 Extracted: 05/25/2005

Analyzed: 05/25/2005 20:10

Dilution: 1.00

MSD: 2005/05/25-2C.68-027 Extracted: 05/25/2005

Analyzed: 05/25/2005 20:27

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	297	322	265	25	128.0	228.0	56.2	65-165	20		R1
Benzene	26.3	27.3	ND	25	105.2	109.2	3.7	69-129	20		
Toluene	25.8	26.6	ND	25	103.2	106.4	3.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	388	401		500	77.6	80.2		73-130			
Toluene-d8	479	502		500	95.8	100.4		81-114			

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: 050516-DW-1
98995756

Received: 05/17/2005 14:35

Site: 5755 Broadway, Oakland

Legend and Notes

Result Flag

M5

MS/MSD spike recoveries were below acceptance limits.
See blank spike (LCS).

Q1

Quantit. of unknown hydrocarbon(s) in sample based on gasoline.

R1

Analyte RPD was out of QC limits.

SHELL Chain Of Custody Record

115161

Lab Identification (if necessary)

Address

City, State, Zip

Shell Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

Denis Brown

2005-05-0503

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 7 5 6

SAP or CRMT NUMBER (TS/CRMT):

DATE 5-16-05

PAGE 1 of 1

SAMPLING COMPANY	LOG CODE	SITE ADDRESS (Street and City)	GLOBAL ID NO.
Blaine Tech Services	BTSS	5755 Broadway, Oakland	T0600101270

ADDRESS	CSF DELIVERABLE TO (Person to Be Paid or Designee)	PHONE NO.	E-MAIL	CONSULTANT PROJECT NO.
1680 Rogers Avenue, San Jose, CA 95112	Anni Kreml	(510) 420-3335	ShellOaklandEDF@cambria-env.com	050516-DW-1 BTS #

PROJECT CONTACT (Hardcopy or PDF Report To)	TELEPHONE	FAX	E-MAIL
Leon Gearhart	408-573-0555	408-573-7771	lgearhart@blainetech.com

SAMPLER NAME(S) (Print): Dave Walter

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:

GCMS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

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

REQUESTED ANALYSIS

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)
	S-1	5-16	1027	W	3	X	X		X						
	S-2	"	1035	"	"	X	X		X						
	S-3	"	1018	"	"	X	X		X						
	H-1	"	1001	"	"	X	X		X						

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

TEMPERATURE ON RECEIPT C°

Relinquished by (Signature)	Received by (Signature)	Date	Time
David C. Scott		5/17/05	1435
Relinquished by (Signature)	Received by (Signature)	Date	Time
5/17/05 1707		5/17/05	1707
Relinquished by (Signature)	Received by (Signature)	Date	Time

Send report, Green to File

CRG Graphics (714) 898-9762

WELL GAUGING DATA

Project # 050516-DW-1 Date 5-16-05 Client Shell

Site 5755 Broadway Oakland

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					3.10	11.13		
S-2	4					3.33	9.42		
S-3	4					3.05	9.57		
H-1	4					4.16	11.98		

SHELL WELL MONITORING DATA SHEET

BTS #: 050516-DW-1	Site: 5755 Broadway
Sampler: DW	Date: 5-16-05
Well I.D.: S-1	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth (TD): 11.13	Depth to Water (DTW): 3.10
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]: 4.70	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ____

3 (Gals.) X	3	=	9 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
0955	66.2	7.3	610	329	3	
0956	64.9	7.2	572	233	6	
	well	dewatered @	6 gl.	DTW = 9.25		
1027	65.0	7.6	613	594	—	

Did well dewater? (Yes) No Gallons actually evacuated: 6

Sampling Date: 5-16-05 Sampling Time: 1027 Depth to Water: 9.10 (site dep.)

Sample I.D.: S-1 Laboratory: (STL) Other____

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

SHELL WELL MONITORING DATA SHEET

BTS #: 050516-DW-1	Site: 5755 Broadway
Sampler: DW	Date: 5-16-05
Well I.D.: S-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 9.42	Depth to Water (DTW): 3.33
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]: 4.54	

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

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

4 (Gals.) X 3 = 12 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
1009	65.0	10.4	396	260	4	
	well dewatered @ 5 gl. DTW= 7.55					
1035	65.0	8.2	449	261	—	

Did well dewater? (Yes) No Gallons actually evacuated: 5

Sampling Date: 5-16-05 Sampling Time: 1035 Depth to Water: 3.56

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 050516-DW-1	Site: 5755 Broadway
Sampler: DW	Date: 5-16-05
Well I.D.: S-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 9.52	Depth to Water (DTW): 3.05
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]: 4.34	

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

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other:_____

4.2 (Gals.) X	3	=	12.6 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
0942	66.3	7.2	882	25	4.2	
	well dewatered @ 6 gl. DTW=				7.65	
1018	64.5	7.4	880	65	—	

Did well dewater? (Yes) No Gallons actually evacuated: 6

Sampling Date: 5-16-05 Sampling Time: 1018 Depth to Water: 5.30 (Site Lp)

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 050516-DW-1	Site: 5755 Broadway
Sampler: DW	Date: 5-16-05
Well I.D.: H-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD):	Depth to Water (DTW):
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]:	

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

Sampling Method: ✕ Bailer
Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

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

_____ (Gals.) X no purge = _____ Gals.
1 Case Volume / Specified Volumes / Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1001	66.5	7.0	585	16	—	

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Date: 5-16-05 Sampling Time: 1061 Depth to Water:

Sample I.D.: H-1 Laboratory: (STL) Other_____

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