Shell Oil Products US

RO433

July 10, 2003

Alameda County

JUL 13 2003

Environmental Health

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

Subject: **Former Shell Service Station**
1230 14th Street
Oakland, California

Dear Mr. Chan:

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

Karen Petryna
Sr. Environmental Engineer

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

CAMBRIA

July 10, 2003

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

Re: **Second Quarter 2003 Monitoring Report**
Former Shell Service Station
1230 14th Street
Oakland, California
Incident #97088250
Cambria Project #245-0233-002

Dear Mr. Chan:

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.

SECOND QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled all site wells, measured dissolved oxygen (DO) concentrations, calculated groundwater elevations, and compiled the collected data. Cambria prepared an area vicinity map which includes previously submitted well survey information (Figure 1) and a groundwater elevation contour map (Figure 2). In addition to the April 23, 2003 quarterly monitoring and sampling event, Blaine collected pre-remediation groundwater samples from selected wells on March 13, 2003. Blaine also collected interim remediation verification samples on May 13, and June 13, 2003. Blaine's report, with supporting field notes and laboratory reports, is included as Attachment A.

Groundwater Extraction (GWE): As proposed in the May 23, 2002 *Subsurface Investigation Work Plan*, semi-monthly mobile GWE using MW-5 began on June 11, 2002 in an attempt to reduce hydrocarbon concentrations in groundwater in the suspected source area. GWE has removed approximately 5.1 pounds of hydrocarbons.

Cambria Environmental Technology, Inc.

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

Dual Phase Vapor Extraction (DVE): DVE is the process of applying high vacuum through an airtight well seal to simultaneously extract soil vapors from the vadose zone and enhance GWE from the saturated zone. Cambria substituted semi-monthly DVE for GWE beginning on September 19, 2002. DVE was discontinued on March 4, 2003. DVE removed approximately 4.1 pounds of vapor phase hydrocarbons from the subsurface.

Corrective Action Implementation: From March 17 through 20, 2003, Fast-Tek Engineering Support Services (Fast-Tek) of Point Richmond, California conducted in-situ field testing of hydrogen peroxide injection proposed in Cambria's August 26, 2002 *Subsurface Investigation Report and Corrective Action Plan*, September 12, 2002 *Subsurface Investigation Report and Corrective Action Plan Addendum*, and November 18, 2002 *Subsurface Investigation Report and Corrective Action Plan – Addendum 2*. Fast-Tek injected approximately 3,500 gallons of the proposed 10,000 gallons of 15% hydrogen peroxide into 16 borings at depths ranging from 19.5 to 3.5 feet below grade. As noted above, Blaine collected pre-remediation samples on March 13, 2003 and interim remediation verification samples on April 23, May 13, and June 13, 2003. Blaine's report is included as Attachment A. Cambria is currently evaluating the effectiveness of this phase of the remediation effort. Based on our experience, we are developing a more effective technique to deliver the peroxide to the subsurface.

Groundwater Analysis for Chromium: Groundwater samples collected during the April 23, 2003 interim remediation verification sampling event were additionally analyzed for hexavalent chromium using EPA Method 7196A and for total chromium using EPA Method 6010B. Analytical results are summarized in Table 1. Certified laboratory results are included in Attachment A.

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring: Blaine will gauge and sample all wells, measure DO concentrations, and tabulate the data. Groundwater samples are collected semi-annually in the second and fourth quarters. Cambria will prepare a monitoring report.

Corrective Action Implementation: As noted above Cambria is reviewing alternate means of delivering hydrogen peroxide to the subsurface. Cambria will proceed with the proposed corrective action in the third quarter of 2003.

Remediation Report and Verification Sampling Work Plan: Upon completion of the in-situ field test of hydrogen peroxide/Fenton's reagent, Cambria will prepare a report of the field activities and verification sampling.

DVE: Cambria will reinstate monthly DVE using MW-5 until peroxide injection is resumed.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Melody Munz at (510) 420-3324 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Melody Munz
Project Engineer

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

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

Table: 1 - Total Chromium and Hexavalent Chromium Concentrations in Groundwater

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869
Tom Saberi, 1045 Airport Boulevard, Suite 12, South San Francisco, CA 94080
Matthew Dudley, Sedgwick, Detert, Moran, & Arnold, 1 Embarcadero Center, 16th Floor, San Francisco, CA 94111-3628
Ms. Ellen Wyrick-Parkinson, 1420 Magnolia Street, Oakland, CA 94607

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07/10/02

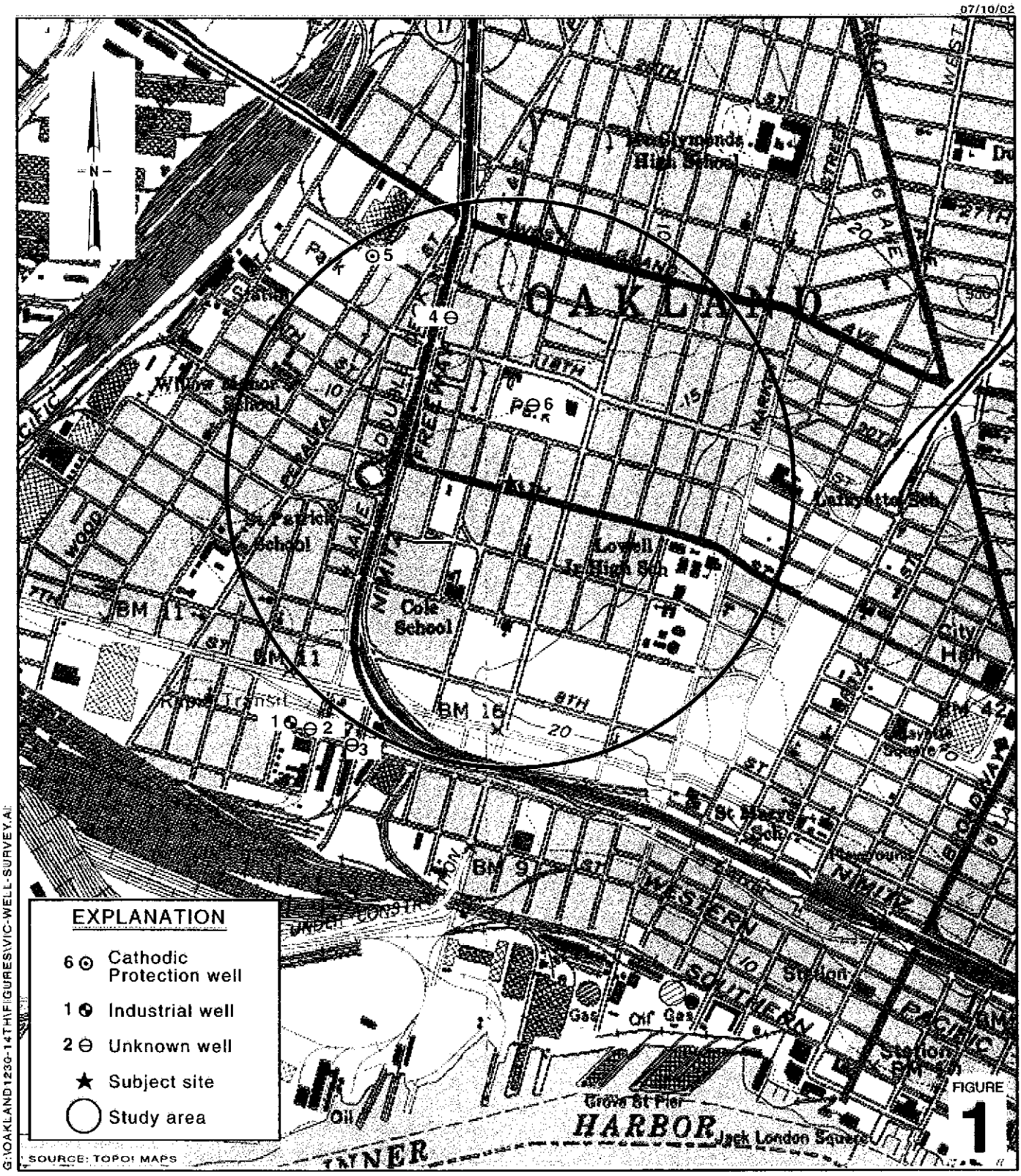


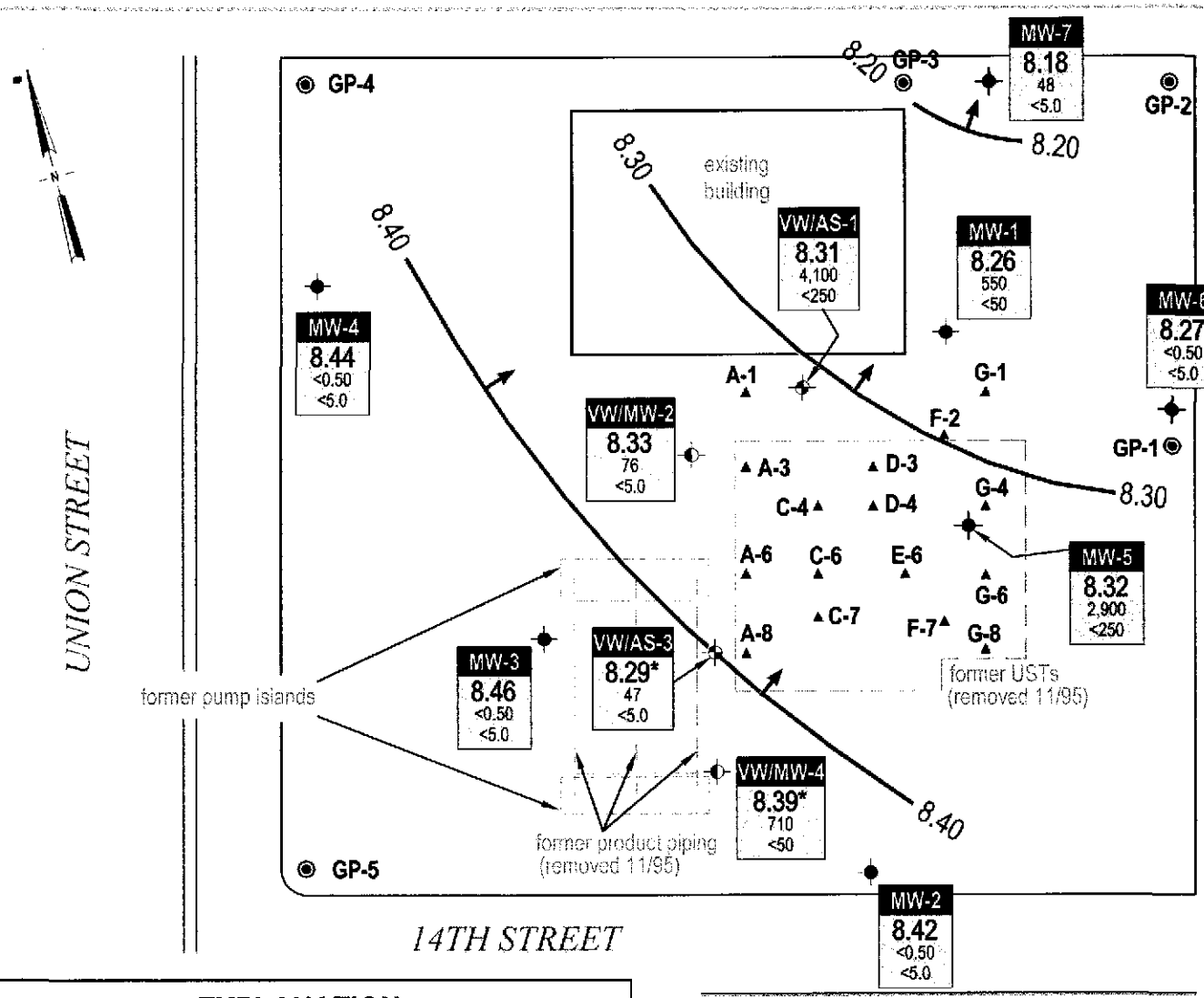
FIGURE 1

Former Shell Service Station
1230 14th Street
Oakland, California
Incident #97088250

CAMBRIA

Vicinity/Area Well Survey Map
(1/2-Mile Radius)

07/10/03

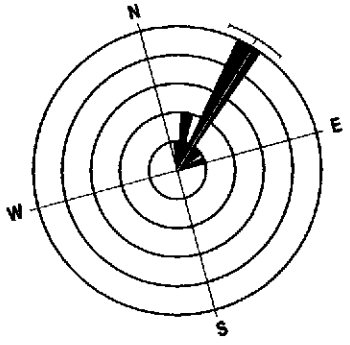


EXPLANATION

A-1	▲	Peroxide injection location (03/17-20/03)
MW-1	⊕	Monitoring well location
VW/AS-1	⊕	Combination air sparge/soil vapor extraction well
VW/MW-2	⊕	Combination soil vapor extraction well/monitoring well
GP-1	◉	Soil boring location (12/11/00)
*		Data anomalous, not used for contouring
	→	Groundwater flow direction
XX.XX		Groundwater elevation contour, in feet above mean sea level (msl), approximately located, dashed where inferred

Well
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



Groundwater Flow Direction
(3Q00 through 2Q03)

0 10 20
Scale (ft)

FIGURE
2

G:\OAKLAND\1230-14TH\FIGURES\2Q4M03-MP.DWG

Former Shell Service Station
1230 14th Street
Oakland, California
Incident #97088250

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Groundwater Elevation Contour Map

April 23, 2003

Table 1: Total Chromium and Hexavalent Chromium Concentrations in Groundwater -
Former Shell-branded Service Station, 1230 14th St., Oakland, California - Incident #97088250

Well ID	Date	Chromium (mg/L)	Hexavalent Chromium (mg/L)
MW-1	4/23/2003	0.26	0.01
MW-5	4/23/2003	0.038	0.02
VW/AS-1	4/23/2003	0.48	0.02
VW/AS-3	4/23/2003	0.26	0.01
VW/MW-2	4/23/2003	0.54	0.01
Reporting Limit		0.005	0.01
Oakland RBSL (groundwater, ingestion, residential)		16*	0.05
California MCL		0.05	

Hexavalent Chromium analyzed using method 7196A
Chromium analyzed using method 6010B
* RBSL for Chromium III

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

May 28, 2003

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

Second Quarter 2003 Groundwater Monitoring at
Former Shell Service Station
1230 14th Street
Oakland, CA

Monitoring performed on April 23, 2003

Groundwater Monitoring Report **030423-BA-1**

This report covers the routine monitoring of groundwater wells at this Former Shell 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/jt

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
Former Shell Service Station
1230 14th Street
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)
MW-1	3/25/1996	37,000	7,400	1,500	720	3,300	<500	NA	18.58	9.53	9.05	NA
MW-1	6/21/1996	35,000	9,900	460	340	3,500	890	NA	18.58	10.72	7.86	NA
MW-1	9/26/1996	19,000	8,200	510	780	790	<250	NA	18.58	12.88	5.70	NA
MW-1	12/19/1996	27,000	120	1,200	1,400	2,800	<100	NA	18.58	12.59	5.99	NA
MW-1	12/19/1996	32,000	12,000	1,300	1,600	3,100	830	NA	18.58	12.59	5.99	NA
MW-1	3/25/1997	39,000	13,000	1,600	840	3,100	730	NA	18.58	11.10	7.48	1.2
MW-1	6/26/1997	NA	NA	NA	NA	NA	NA	NA	18.58	12.42	6.16	NA
MW-1	9/26/1997	NA	NA	NA	NA	NA	NA	NA	18.58	13.31	5.27	0.8
MW-1	12/5/1997	NA	NA	NA	NA	NA	NA	NA	18.58	12.65	5.93	0.3
MW-1	2/19/1998	16,000	5,500	450	500	800	<500	NA	18.58	6.46	12.12	2.4
MW-1	6/8/1998	NA	NA	NA	NA	NA	NA	NA	18.58	6.62	11.96	1.2
MW-1	8/25/1998	NA	NA	NA	NA	NA	NA	NA	18.58	11.83	6.75	2.8
MW-1	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.58	12.01	6.57	2.6
MW-1	3/26/1999	NA	NA	NA	NA	NA	NA	NA	18.58	9.15	9.43	2.2
MW-1	6/30/1999	NA	NA	NA	NA	NA	NA	NA	18.58	11.22	7.36	3.8
MW-1	9/30/1999	NA	NA	NA	NA	NA	NA	NA	18.58	11.89	6.69	3.0
MW-1	12/27/1999	34,800	8,660	953	956	2,770	<1,000	NA	18.58	13.55	5.03	2.4/2.1
MW-1	1/21/2000	40,600	14,700	1,850	1,210	3,670	<500	NA	18.58	13.42	5.16	2.8
MW-1	3/7/2000	NA	NA	NA	NA	NA	NA	NA	18.58	8.11	10.47	0.4
MW-1	4/17/2000	NA	NA	NA	NA	NA	NA	NA	18.58	9.78	8.80	3.0/3.4
MW-1	4/18/2000	18,300	8,060	543	528	872	<50.0	NA	18.58	NA	NA	NA
MW-1	9/21/2000	NA	NA	NA	NA	NA	NA	NA	18.58	13.11	5.47	5.2
MW-1	10/17/2000	15,800	6,720	435	587	887	351	<66.7	18.58	12.61	5.97	1.2/0.8
MW-1	1/9/2001	NA	NA	NA	NA	NA	NA	NA	18.58	12.94	5.64	0.3
MW-1	4/27/2001	1,400	650	28	58	48	NA	<10	18.58	10.73	7.85	1.8/2.1
MW-1	7/3/2001	NA	NA	NA	NA	NA	NA	NA	18.58	12.00	6.58	1.8
MW-1	12/6/2001	4,500	1,500	85	160	210	NA	<50	18.58	10.53	8.05	2.5/2.9
MW-1	1/23/2002	NA	NA	NA	NA	NA	NA	NA	18.58	9.33	9.25	0.1

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
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)
MW-1	4/17/2002	230	12	<0.50	4.6	2.5	NA	<5.0	18.58	10.49	8.09	6.3/5.3
MW-1	7/18/2002	NA	NA	NA	NA	NA	NA	NA	18.58	11.98	6.60	1.2
MW-1	11/11/2002	12,000	2,600	240	470	640	NA	8.5	18.58	13.00	5.58	0.2/0.2
MW-1	1/16/2003	NA	NA	NA	NA	NA	NA	NA	18.58	9.68	8.90	4.4
MW-1	3/13/2003	820	340	2.7	<2.0	3.2	NA	<20	18.58	10.45	8.13	2.8/0.9
MW-1	4/23/2003	900	550	19	49	49	NA	<50	18.58	10.32	8.26	0.9/0.1
MW-1	5/13/2003	740	510	18	43	46	NA	<50	18.58	10.28	8.30	0.1/0.2
MW-1	**6/13/2003**	**<5,000**	**1,500**	**82**	**180**	**250**	**NA**	**<500**	**18.58**	**11.16**	**7.42**	**0.1/0.2**
MW-2	3/25/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	8.19	9.71	NA
MW-2	6/21/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	9.94	7.96	NA
MW-2	9/26/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.15	5.75	NA
MW-2	12/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	17.90	11.70	6.20	NA
MW-2	3/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	9.25	8.65	1.8
MW-2	6/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	11.36	6.54	2.4
MW-2	9/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.56	5.34	1.1
MW-2	9/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.56	5.34	1.1
MW-2	12/5/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	11.15	6.75	0.7
MW-2	2/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	5.61	12.29	2.7
MW-2	6/8/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	17.90	5.58	12.32	3.2
MW-2	8/25/1998	NA	NA	NA	NA	NA	NA	NA	17.90	10.67	7.23	1.7
MW-2	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	17.90	11.65	6.25	0.4/0.8
MW-2	3/26/1999	NA	NA	NA	NA	NA	NA	NA	17.90	8.60	9.30	0.7
MW-2	6/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	17.90	10.30	7.60	2.3
MW-2	9/30/1999	NA	NA	NA	NA	NA	NA	NA	17.90	10.77	7.13	1.9
MW-2	12/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	17.90	12.21	5.69	0.7/0.7
MW-2	3/7/2000	NA	NA	NA	NA	NA	NA	NA	17.90	7.13	10.77	1.1
MW-2	4/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	17.90	8.35	9.55	1.8/1.8
MW-2	9/21/2000	NA	NA	NA	NA	NA	NA	NA	17.90	11.76	6.14	2.1

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
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)
MW-2	10/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	17.90	11.80	6.10	0.9/0.6
MW-2	1/9/2001	NA	NA	NA	NA	NA	NA	NA	17.90	12.14	5.76	0.7
MW-2	4/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	17.90	9.85	8.05	1.1/0.9
MW-2	7/3/2001	NA	NA	NA	NA	NA	NA	NA	17.90	11.20	6.70	1.2
MW-2	12/6/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	17.90	10.77	7.13	3.9/2.1
MW-2	1/23/2002	NA	NA	NA	NA	NA	NA	NA	17.90	8.64	9.26	2.5
MW-2	4/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	17.90	9.61	8.29	3.5/5.2
MW-2	7/18/2002	NA	NA	NA	NA	NA	NA	NA	17.90	11.09	6.81	1.4
MW-2	11/11/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	17.90	12.16	5.74	0.2/0.3
MW-2	1/16/2003	NA	NA	NA	NA	NA	NA	NA	17.90	8.92	8.98	1.7
MW-2	3/13/2003	NA	NA	NA	NA	NA	NA	NA	17.90	9.60	8.30	1.1
MW-2	4/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	17.90	9.48	8.42	0.4/0.2
MW-2	5/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	17.90	9.45	8.45	0.5/0.3
MW-2	6/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	17.90	10.28	7.62	0.5/0.3
MW-3	3/25/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	8.47	9.71	NA
MW-3	6/21/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	10.40	7.78	NA
MW-3	9/26/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	12.45	5.73	NA
MW-3	12/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	18.18	12.14	6.02	NA
MW-3	3/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	9.54	8.64	2.2
MW-3	6/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	11.66	6.52	3.6
MW-3	9/26/1997	<50	<0.50	<050	<0.50	<0.50	<2.5	NA	18.18	12.85	5.33	1.1
MW-3	12/5/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	11.44	6.74	0.6
MW-3	2/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	6.78	11.40	3.6
MW-3	6/8/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.18	6.82	11.36	3.8
MW-3	6/8/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.18	6.82	11.36	3.8
MW-3	8/25/1998	NA	NA	NA	NA	NA	NA	NA	18.18	11.09	7.09	1.2
MW-3	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	18.18	11.84	6.34	0.9/0.6
MW-3	3/26/1999	NA	NA	NA	NA	NA	NA	NA	18.18	8.57	9.61	0.8

WELL CONCENTRATIONS
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1230 14th Street
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)
MW-3	6/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.18	10.61	7.57	4.8
MW-3	9/30/1999	NA	NA	NA	NA	NA	NA	NA	18.18	11.53	6.65	1.4
MW-3	12/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.18	12.35	5.83	1.4/2.5
MW-3	3/7/2000	NA	NA	NA	NA	NA	NA	NA	18.17	7.36	10.81	5.8
MW-3	4/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	19.3	NA	18.17	8.39	9.78	6.5/5.1
MW-3	9/21/2000	NA	NA	NA	NA	NA	NA	NA	18.17	12.01	6.16	3.0
MW-3	10/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.17	12.10	6.07	2.0/1.0
MW-3	1/9/2001	NA	NA	NA	NA	NA	NA	NA	18.17	12.43	5.74	1.9
MW-3	4/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	18.17	10.10	8.07	2.3/2.4
MW-3	7/3/2001	NA	NA	NA	NA	NA	NA	NA	18.17	11.45	6.72	1.4
MW-3	12/6/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.17	11.07	7.10	2.8/3.9
MW-3	1/23/2002	NA	NA	NA	NA	NA	NA	NA	18.17	8.89	9.28	3.1
MW-3	4/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.17	9.92	8.25	3.7/3.2
MW-3	7/18/2002	NA	NA	NA	NA	NA	NA	NA	18.17	11.42	6.75	1.6
MW-3	11/11/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.17	12.44	5.73	0.3/0.4
MW-3	1/16/2003	NA	NA	NA	NA	NA	NA	NA	18.17	9.25	8.92	2.1
MW-3	3/13/2003	NA	NA	NA	NA	NA	NA	NA	18.17	9.84	8.33	1.2
MW-3	4/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.17	9.71	8.46	0.7/0.2
MW-3	5/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.17	9.70	8.47	0.6/0.2
MW-3	**6/13/2003**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<5.0**	**18.17**	**10.58**	**7.59**	**0.6/0.2**
MW-4	3/25/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	9.20	8.81	NA
MW-4	6/21/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	10.25	7.76	NA
MW-4	9/26/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	12.29	5.72	NA
MW-4	12/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	18.01	12.47	5.54	NA
MW-4	3/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	9.44	8.57	1.8
MW-4	6/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.57	6.44	6.2
MW-4 (D)	6/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.57	6.44	6.2
MW-4	9/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	12.75	5.26	2.1

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MW-4	12/5/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.37	6.64	1.0
MW-4 (D)	12/5/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.37	6.64	1.0
MW-4	2/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	5.59	12.42	6.5
MW-4	6/8/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.01	5.65	12.36	2.6
MW-4	8/25/1998	NA	NA	NA	NA	NA	NA	NA	18.01	10.98	7.03	2.4
MW-4	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	18.01	11.83	6.18	1.3/1.2
MW-4	3/26/1999	NA	NA	NA	NA	NA	NA	NA	18.01	8.40	9.61	1.9
MW-4	6/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.01	10.53	7.48	7.6
MW-4	9/30/1999	NA	NA	NA	NA	NA	NA	NA	18.01	11.03	6.98	2.6
MW-4	12/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.01	12.53	5.48	1.9/0.8
MW-4	3/7/2000	NA	NA	NA	NA	NA	NA	NA	18.01	7.00	11.01	6.5
MW-4	4/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.01	8.57	9.44	5.1/5.1
MW-4	9/21/2000	NA	NA	NA	NA	NA	NA	NA	18.01	12.05	5.96	3.0
MW-4	10/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.01	11.96	6.05	5.5/1.2
MW-4	1/9/2001	NA	NA	NA	NA	NA	NA	NA	18.01	12.33	5.68	2.1
MW-4	4/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	18.01	9.96	8.05	5.3/3.8
MW-4	7/3/2001	NA	NA	NA	NA	NA	NA	NA	18.01	11.35	6.66	4.5
MW-4	12/6/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.01	10.99	7.02	10.23/6.5
MW-4	1/23/2002	NA	NA	NA	NA	NA	NA	NA	18.01	8.80	9.21	8.8
MW-4	4/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.01	9.75	8.26	7.0/5.1
MW-4	7/18/2002	NA	NA	NA	NA	NA	NA	NA	18.01	11.32	6.69	5.3
MW-4	11/11/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.01	12.36	5.65	3.6/2.0
MW-4	1/16/2003	NA	NA	NA	NA	NA	NA	NA	18.01	10.33	7.68	6.5
MW-4	3/13/2003	NA	NA	NA	NA	NA	NA	NA	18.01	10.06	7.95	6.5
MW-4	4/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.01	9.57	8.44	5.1/5.7
MW-4	5/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.01	9.55	8.46	2.0/2.5
MW-4	**6/13/2003**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<5.0**	**18.01**	**10.50**	**7.51**	**2.0/2.5**
MW-5	12/3/2001	NA	NA	NA	NA	NA	NA	NA	18.47	11.86	6.61	NA

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MW-5	12/6/2001	31,000	3,000	2,000	1,100	3,000	NA	<50	18.47	11.40	7.07	3.1/3.2
MW-5	1/23/2002	NA	NA	NA	NA	NA	NA	NA	18.47	9.24	9.23	0.9
MW-5	4/17/2002	33,000	3,800	2,400	1,300	4,400	NA	<200	18.47	10.35	8.12	5.3/3.8
MW-5	7/18/2002	NA	NA	NA	NA	NA	NA	NA	18.47	11.82	6.65	0.8
MW-5	11/11/2002	100,000	7,100	12,000	3,000	17,000	NA	5.1	18.47	12.86	5.61	1.2/1.4
MW-5	1/16/2003	NA	NA	NA	NA	NA	NA	NA	18.47	9.57	8.90	0.0
MW-5	3/13/2003	33,000	2,800	2,200	980	4,600	NA	<100	18.47	10.30	8.17	0.5/0.3
MW-5	4/7/2003	NA	NA	NA	NA	NA	NA	NA	18.47	10.29	8.18	NA
MW-5	4/23/2003	33,000	2,900	3,100	960	5,800	NA	<250	18.47	10.15	8.32	0.1/0.1
MW-5	5/13/2003	30,000	2,600	1,500	850	4,500	NA	<250	18.47	10.12	8.35	0.4/0.3
MW-5	**6/13/2003**	**30,000**	**3,400**	**2,300**	**1,000**	**4,400**	**NA**	**<500**	**18.47**	**11.00**	**7.47**	**0.4/0.3**
MW-6	12/3/2001	NA	NA	NA	NA	NA	NA	NA	18.84	12.19	6.65	NA
MW-6	12/6/2001	76	5.7	3.8	1.4	7.0	NA	<5.0	18.84	11.70	7.14	6.3/6.1
MW-6	1/23/2002	NA	NA	NA	NA	NA	NA	NA	18.84	9.57	9.27	8.7
MW-6	4/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.84	10.73	8.11	9.8/9.1
MW-6	7/18/2002	NA	NA	NA	NA	NA	NA	NA	18.84	12.27	6.57	1.7
MW-6	11/11/2002	580	55	<0.50	<0.50	2.8	NA	<5.0	18.84	13.24	5.60	0.3/0.6
MW-6	1/16/2003	NA	NA	NA	NA	NA	NA	NA	18.84	9.89	8.95	6.4
MW-6	3/13/2003	NA	NA	NA	NA	NA	NA	NA	18.84	10.66	8.18	5.5
MW-6	4/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.84	10.57	8.27	3.7/4.4
MW-6	5/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.84	10.56	8.28	3.5/3.0
MW-6	**6/13/2003**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<5.0**	**18.84**	**11.48**	**7.36**	**3.5/3.0**
MW-7	12/3/2001	NA	NA	NA	NA	NA	NA	NA	19.20	12.66	6.54	NA
MW-7	12/6/2001	1,800	390	<2.0	6.2	<2.0	NA	<20	19.20	12.20	7.00	3.9/3.8
MW-7	1/23/2002	NA	NA	NA	NA	NA	NA	NA	19.20	10.00	9.20	9.4
MW-7	4/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	19.20	11.21	7.99	8.8/7.3
MW-7	7/18/2002	NA	NA	NA	NA	NA	NA	NA	19.20	12.69	6.51	0.8

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MW-7	11/11/2002	3,000	190	<0.50	<0.50	4.3	NA	5.2	19.20	13.69	5.51	0.4/0.8
MW-7	1/16/2003	NA	NA	NA	NA	NA	NA	NA	19.20	10.36	8.84	7.9
MW-7	3/13/2003	NA	NA	NA	NA	NA	NA	NA	19.20	11.16	8.04	5.2
MW-7	4/23/2003	250	48	<0.50	<0.50	<1.0	NA	<5.0	19.20	11.02	8.18	3.2/1.3
MW-7	5/13/2003	1,700	550	<2.5	<2.5	<5.0	NA	<25	19.20	11.00	8.20	2.0/1.5
MW-7	**6/13/2003**	**1,500 g**	**470**	**<2.5**	**<2.5**	**<5.0**	**NA**	**<25**	**19.20**	**11.90**	**7.30**	**2.0/1.5**
VW/MW-2	3/25/1996	13,000	900	920	180	1,500	<250	NA	18.30	9.04	9.26	NA
VW/MW-2	6/21/1996	27,000	4,100	1,100	1,400	3,200	700	NA	18.30	10.48	7.82	NA
VW/MW-2	9/26/1996	27,000	5,300	1,900	980	2,200	<500	NA	18.30	12.52	5.78	NA
VW/MW-2 (D)	9/26/1996	29,000	5,800	2,200	1,100	2,500	<250	NA	18.30	12.52	5.78	NA
VW/MW-2	12/19/1996	50,000	6,200	5,100	1,700	5,600	590	NA	18.30	12.42	5.88	NA
VW/MW-2	3/25/1997	210	5.6	<0.50	0.52	<0.50	14	NA	18.30	9.83	8.47	2.0
VW/MW-2 (D)	3/25/1997	250	1.7	0.58	0.51	<0.50	4.7	NA	18.30	9.83	8.47	2.0
VW/MW-2	6/26/1997	NA	NA	NA	NA	NA	NA	NA	18.30	12.43	5.87	NA
VW/MW-2	9/26/1997	NA	NA	NA	NA	NA	NA	NA	18.30	12.98	5.32	0.9
VW/MW-2	12/5/1997	NA	NA	NA	NA	NA	NA	NA	18.30	12.20	6.10	0.4
VW/MW-2	2/19/1998	<50	1.5	<0.50	<0.50	0.71	<2.5	NA	18.30	5.83	12.47	3.6
VW/MW-2	6/8/1998	NA	NA	NA	NA	NA	NA	NA	18.30	5.80	12.50	1.0
VW/MW-2	8/25/1998	NA	NA	NA	NA	NA	NA	NA	18.30	11.72	6.58	4.8
VW/MW-2	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.30	11.69	6.61	2.7
VW/MW-2	3/26/1999	NA	NA	NA	NA	NA	NA	NA	18.30	8.75	9.55	2.8
VW/MW-2	6/30/1999	NA	NA	NA	NA	NA	NA	NA	18.30	10.72	7.58	4.7
VW/MW-2	9/30/1999	NA	NA	NA	NA	NA	NA	NA	18.30	12.24	6.06	4.9
VW/MW-2	12/27/1999	13,500	1,330	1,310	490	1,400	<250	NA	18.30	13.92	4.38	2.1/1.9
VW/MW-2	1/21/2000	12,100	2,200	1,080	429	1,120	<250	NA	18.30	13.26	5.04	2.8
VW/MW-2	3/7/2000	NA	NA	NA	NA	NA	NA	NA	18.28	7.87	10.41	3.7
VW/MW-2	4/17/2000	NA	NA	NA	NA	NA	NA	NA	18.28	9.65	8.63	3.7/4.1
VW/MW-2	4/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.28	NA	NA	NA

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VW/MW-2	9/21/2000	NA	NA	NA	NA	NA	NA	NA	18.28	12.75	5.53	6.2
VW/MW-2	10/17/2000	4,070	763	589	214	501	<50.0	NA	18.28	12.21	6.07	0.8/0.7
VW/MW-2	1/9/2001	NA	NA	NA	NA	NA	NA	NA	18.28	12.51	5.77	0.7
VW/MW-2	4/27/2001	80	5.7	<0.50	2.7	4.9	NA	<0.50	18.28	10.21	8.07	2.3/2.8
VW/MW-2	7/3/2001	NA	NA	NA	NA	NA	NA	NA	18.28	11.60	6.68	0.6
VW/MW-2	12/6/2001	160	1.7	1.0	1.8	4.6	NA	<5.0	18.28	11.15	7.13	3.7/2.3
VW/MW-2	1/23/2002	NA	NA	NA	NA	NA	NA	NA	18.28	9.07	9.21	0.5
VW/MW-2	4/17/2002	<50	2.1	<0.50	<0.50	<0.50	NA	<5.0	18.28	10.11	8.17	4.9/4.4
VW/MW-2	7/18/2002	NA	NA	NA	NA	NA	NA	NA	18.28	11.61	6.67	0.9
VW/MW-2	11/11/2002	15,000	1,300	1,300	680	1,800	NA	<5.0	18.28	12.63	5.65	0.2/0.2
VW/MW-2	1/16/2003	NA	NA	NA	NA	NA	NA	NA	18.28	9.35	8.93	0.4
VW/MW-2	3/13/2003	NA	NA	NA	NA	NA	NA	NA	18.28	10.09	8.19	0.8
VW/MW-2	4/7/2003	NA	NA	NA	NA	NA	NA	NA	18.28	10.09	8.19	NA
VW/MW-2	4/23/2003	1,100	76	29	45	66	NA	<5.0	18.28	9.95	8.33	0.8/0.3
VW/MW-2	5/13/2003	1,200	38	16	16	24	NA	<5.0	18.28	9.90	8.38	0.2/0.2
VW/MW-2	**6/13/2003**	**9,600**	**1,300**	**1,100**	**440**	**890**	**NA**	**<250**	**18.28**	**10.80**	**7.48**	**0.2/0.2**
VW/MW-4	3/25/1996	83,000	6,500	7,000	2,000	11,000	<250	NA	18.14	8.45	9.69	NA
VW/MW-4 (D)	3/25/1996	84,000	6,400	7,000	2,100	12,000	<250	NA	18.14	8.45	9.69	NA
VW/MW-4	6/21/1996	110,000	14,000	15,000	3,700	17,000	1,700	NA	18.14	10.38	7.76	NA
VW/MW-4 (D)	6/21/1996	100,000	12,000	12,000	2,900	13,000	<1,000	NA	18.14	10.38	7.76	NA
VW/MW-4	9/26/1996	52,000	13,000	2,700	2,100	3,200	<500	NA	18.14	12.43	5.71	NA
VW/MW-4	12/19/1996	75,000	15,000	6,600	3,000	7,600	<1,250	NA	18.14	11.87	6.27	NA
VW/MW-4	3/25/1997	56,000	4,700	1,500	2,500	6,300	580	NA	18.14	9.60	8.54	2.4
VW/MW-4	6/26/1997	NA	NA	NA	NA	NA	NA	NA	18.14	12.36	5.78	NA
VW/MW-4	9/26/1997	NA	NA	NA	NA	NA	NA	NA	18.14	12.82	5.32	0.4
VW/MW-4	12/5/1997	NA	NA	NA	NA	NA	NA	NA	18.14	12.15	5.99	0.3
VW/MW-4	2/19/1998	4,100	320	40	44	520	<50	NA	18.14	5.85	12.29	1.8
VW/MW-4 (D)	02/19/98	4,300	340	44	47	540	<50	NA	18.14	5.85	12.29	1.8

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VW/MW-4	6/8/1998	NA	NA	NA	NA	NA	NA	NA	18.14	5.87	12.27	1.8
VW/MW-4	8/25/1998	NA	NA	NA	NA	NA	NA	NA	18.14	10.96	7.18	2.5
VW/MW-4	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.14	11.28	6.86	0.9
VW/MW-4	3/26/1999	NA	NA	NA	NA	NA	NA	NA	18.14	8.45	9.69	1.9
VW/MW-4	6/30/1999	NA	NA	NA	NA	NA	NA	NA	18.14	9.70	8.44	3.6
VW/MW-4	9/30/1999	NA	NA	NA	NA	NA	NA	NA	18.14	11.78	6.36	2.6
VW/MW-4	12/27/1999	33,900	3,740	2,000	1,130	5,090	587	NA	18.14	12.63	5.51	0.4/0.2
VW/MW-4	1/21/2000	13,900	1,560	568	227	1,990	<500	21.0a	18.14	13.07	5.07	1.0
VW/MW-4	3/7/2000	NA	NA	NA	NA	NA	NA	NA	18.13	7.82	10.31	0.9
VW/MW-4	4/17/2000	NA	NA	NA	NA	NA	NA	NA	18.13	9.18	8.95	1.4/1.9
VW/MW-4	4/18/2000	757	103	8.59	30.8	84.2	<25.0	NA	18.13	NA	NA	NA
VW/MW-4	9/21/2000	NA	NA	NA	NA	NA	NA	NA	18.13	12.18	5.95	5.0
VW/MW-4	10/17/2000	8,360	2,060	391	468	1,170	147	NA	18.13	12.03	6.10	0.7/0.8
VW/MW-4	1/9/2001	NA	NA	NA	NA	NA	NA	NA	18.13	12.42	5.71	0.9
VW/MW-4	4/27/2001	7,100	2,300	50	460	250	NA	<10	18.13	10.13	8.00	1.0/1.4
VW/MW-4	7/3/2001	NA	NA	NA	NA	NA	NA	NA	18.13	11.42	6.71	1.2
VW/MW-4	12/6/2001	7,700	750	90	300	350	NA	<25	18.13	11.02	7.11	2.5/1.9
VW/MW-4	1/23/2002	NA	NA	NA	NA	NA	NA	NA	18.13	8.89	9.24	0.4
VW/MW-4	4/17/2002	4,800	760	27	240	150	NA	<25	18.13	9.89	8.24	4.7/5.1
VW/MW-4	7/18/2002	NA	NA	NA	NA	NA	NA	NA	18.13	11.37	6.76	0.6
VW/MW-4	11/11/2002	14,000	2,800	480	700	1,300	NA	<100	18.13	12.41	5.72	0.3/0.3
VW/MW-4	1/16/2003	NA	NA	NA	NA	NA	NA	NA	18.13	9.17	8.96	0.8
VW/MW-4	3/13/2003	NA	NA	NA	NA	NA	NA	NA	18.13	9.85	8.28	1.1
VW/MW-4	4/23/2003	2,400	710	28	160	100	NA	<50	18.13	9.74	8.39	0.2/0.05
VW/MW-4	5/13/2003	3,300	720	35	170	160	NA	<50	18.13	9.70	8.43	0.2/0.2
VW/MW-4	**6/13/2003**	**8,200**	**1,700**	**220**	**460**	**790**	**NA**	**<250**	**18.13**	**10.55**	**7.58**	**0.2/0.2**
VW/AS-1	3/25/1996	NA	NA	NA	NA	NA	NA	NA	18.60	8.98	9.62	NA
VW/AS-1	6/21/1996	NA	NA	NA	NA	NA	NA	NA	18.60	10.95	7.65	NA

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
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)
VW/AS-1	9/26/1996	NA	NA	NA	NA	NA	NA	NA	18.60	12.98	5.62	NA
VW/AS-1	12/19/1996	NA	NA	NA	NA	NA	NA	NA	18.60	12.67	5.93	NA
VW/AS-1	3/25/1997	NA	NA	NA	NA	NA	NA	NA	18.60	10.12	8.48	NA
VW/AS-1	6/26/1997	NA	NA	NA	NA	NA	NA	NA	18.60	12.34	6.26	NA
VW/AS-1	9/26/1997	NA	NA	NA	NA	NA	NA	NA	18.60	13.40	5.20	NA
VW/AS-1	12/5/1997	NA	NA	NA	NA	NA	NA	NA	18.60	11.96	6.64	5.2
VW/AS-1	2/19/1998	NA	NA	NA	NA	NA	NA	NA	18.60	6.22	12.38	1.3
VW/AS-1	6/8/1998	NA	NA	NA	NA	NA	NA	NA	18.60	6.20	12.40	1.0
VW/AS-1	8/25/1998	NA	NA	NA	NA	NA	NA	NA	18.60	11.59	7.01	1.6
VW/AS-1	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.60	11.74	6.86	1.3
VW/AS-1	3/26/1999	NA	NA	NA	NA	NA	NA	NA	18.60	9.20	9.40	1.3
VW/AS-1	6/30/1999	NA	NA	NA	NA	NA	NA	NA	18.60	11.08	7.52	2.1
VW/AS-1	9/30/1999	NA	NA	NA	NA	NA	NA	NA	18.60	11.94	6.66	1.9
VW/AS-1	12/27/1999	8,940	2,000	95.7	1,200	570	606	NA	18.60	11.01	7.59	1.6/1.8
VW/AS-1	3/7/2000	NA	NA	NA	NA	NA	NA	NA	18.59	7.35	11.24	NA
VW/AS-1	4/17/2000	NA	NA	NA	NA	NA	NA	NA	18.59	9.08	9.51	1.9/2.0
VW/AS-1	4/18/2000	20,800	6,550	1,220	2,270	1,720	<250	NA	18.59	NA	NA	NA
VW/AS-1	9/21/2000	NA	NA	NA	NA	NA	NA	NA	18.59	11.98	6.61	2.1
VW/AS-1	10/17/2000	38,400	7,240	5,980	1,960	5,730	534	72.4	18.59	12.62	5.97	2.5/1.0
VW/AS-1	1/9/2001	NA	NA	NA	NA	NA	NA	NA	18.59	13.03	5.56	1.9
VW/AS-1	4/27/2001	34,000	8,000	2,100	2,500	2,000	NA	<25	18.59	10.71	7.88	2.9/2.1
VW/AS-1	7/3/2001	NA	NA	NA	NA	NA	NA	NA	18.59	12.03	6.56	2.0
VW/AS-1	12/6/2001	6,000	990	35	820	59	NA	<25	18.59	11.63	6.96	1.2/0.8
VW/AS-1	1/23/2002	NA	NA	NA	NA	NA	NA	NA	18.59	9.34	9.25	0.9
VW/AS-1	4/17/2002	12,000	2,900	57	1,400	98	NA	<200	18.59	10.41	8.18	3.3/2.9
VW/AS-1	7/18/2002	NA	NA	NA	NA	NA	NA	NA	18.59	12.13	6.46	0.3
VW/AS-1	11/11/2002	2,200	340	7.3	250	24	NA	<20	18.59	13.15	5.44	1.2/1.3
VW/AS-1	1/16/2003	NA	NA	NA	NA	NA	NA	NA	18.59	9.73	8.86	2.3
VW/AS-1	3/13/2003	11,000	2,500	55	1,800	170	NA	<100	18.59	10.45	8.14	2.1/1.9

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
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)
VW/AS-1	4/7/2003	NA	NA	NA	NA	NA	NA	NA	18.59	10.40	8.19	NA
VW/AS-1	4/23/2003	9,500	4,100	200	1,400	200	NA	<250	18.59	10.28	8.31	1.2/0.4
VW/AS-1	5/13/2003	9,700	2,300	110	1,100	140	NA	<250	18.59	10.26	8.33	0.5/2.0
VW/AS-1	**6/13/2003**	**9,300**	**2,300**	**77**	**820**	**<100**	**NA**	***<500***	**18.59**	**11.15**	**7.44**	**0.5/2.0**
VW/AS-3	3/25/1996	NA	NA	NA	NA	NA	NA	NA	18.17	8.50	9.67	NA
VW/AS-3	6/21/1996	NA	NA	NA	NA	NA	NA	NA	18.17	10.42	7.75	NA
VW/AS-3	9/26/1996	NA	NA	NA	NA	NA	NA	NA	18.17	12.49	5.68	NA
VW/AS-3	12/19/1996	NA	NA	NA	NA	NA	NA	NA	18.17	12.28	5.89	NA
VW/AS-3	3/25/1997	NA	NA	NA	NA	NA	NA	NA	18.17	9.61	8.56	NA
VW/AS-3	6/26/1997	NA	NA	NA	NA	NA	NA	NA	18.17	11.80	6.37	NA
VW/AS-3	9/26/1997	NA	NA	NA	NA	NA	NA	NA	18.17	12.89	5.28	NA
VW/AS-3	12/5/1997	NA	NA	NA	NA	NA	NA	NA	18.17	11.38	6.79	1.8
VW/AS-3	2/19/1998	NA	NA	NA	NA	NA	NA	NA	18.17	6.24	11.93	1.3
VW/AS-3	6/8/1998	NA	NA	NA	NA	NA	NA	NA	18.17	6.25	11.92	1.2
VW/AS-3	8/25/1998	NA	NA	NA	NA	NA	NA	NA	18.17	11.43	6.74	1.3
VW/AS-3	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.17	11.63	6.54	1.7
VW/AS-3	3/26/1999	NA	NA	NA	NA	NA	NA	NA	18.17	8.92	9.25	1.5
VW/AS-3	6/30/1999	NA	NA	NA	NA	NA	NA	NA	18.17	10.71	7.46	2.5
VW/AS-3	9/30/1999	NA	NA	NA	NA	NA	NA	NA	18.17	11.78	6.39	1.5
VW/AS-3	12/27/1999	488	47.9	2.60	16.9	8.50	35.4	NA	18.17	12.57	5.60	1.5/2.1
VW/AS-3	3/7/2000	NA	NA	NA	NA	NA	NA	NA	18.14	4.82	13.32	NA
VW/AS-3	4/17/2000	NA	NA	NA	NA	NA	NA	NA	18.14	8.69	9.45	2.0/2.4
VW/AS-3	4/18/2000	3,110	871	<5.00	141	56.8	78.2	NA	18.14	NA	NA	NA
VW/AS-3	9/21/2000	NA	NA	NA	NA	NA	NA	NA	18.14	11.65	6.49	2.5
VW/AS-3	10/17/2000	7,730	2,700	<50.0	542	344	<250	42.1	18.14	12.13	6.01	1.6/1.0
VW/AS-3	1/9/2001	NA	NA	NA	NA	NA	NA	NA	18.14	12.51	5.63	2.2
VW/AS-3	4/27/2001	14,000	3,900	62	690	560	NA	46	18.14	10.20	7.94	2.8/1.6
VW/AS-3	7/3/2001	NA	NA	NA	NA	NA	NA	NA	18.14	11.55	6.59	2.6

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
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)
VW/AS-3	12/6/2001	5,000	1,200	19	380	320	NA	<50	18.14	11.10	7.04	0.9/1.1
VW/AS-3	1/23/2002	NA	NA	NA	NA	NA	NA	NA	18.14	8.93	9.21	1.1
VW/AS-3	4/17/2002	17,000	5,000	<25	1,100	390	NA	<250	18.14	10.00	8.14	3.2/3.2
VW/AS-3	7/18/2002	NA	NA	NA	NA	NA	NA	NA	18.14	11.49	6.65	0.4
VW/AS-3	11/11/2002	1,700	290	1.5	150	2.8	NA	<10	18.14	12.43	5.71	1.0/1.1
VW/AS-3	1/16/2003	NA	NA	NA	NA	NA	NA	NA	18.14	9.32	8.82	4.7
VW/AS-3	3/13/2003	NA	NA	NA	NA	NA	NA	NA	18.14	9.88	8.26	2.7
VW/AS-3	4/23/2003	150	47	0.67	8.5	3.2	NA	<5.0	18.14	9.85	8.29	2.1/0.7
VW/AS-3	5/13/2003	440	35	<0.50	1.7	<1.0	NA	<5.0	18.14	9.81	8.33	1.4/1.8
VW/AS-3	**6/13/2003**	**580**	**71**	**<2.5**	**40.0**	**<5.0**	**NA**	**25**	**18.14**	**10.77**	**7.37**	**1.4/1.8**

Abbreviations:

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

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to April 27, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

NA = Not applicable

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

n/n = Pre-purge/Post-purge DO Readings

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
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)

Notes:

a = Sample was analyzed outside of the EPA recommended holding time.

b=Hydrocarbon reported does not match the pattern of the laboratory's standard.

Site surveyed November 1, 2001 by Virgil Chavez Land Surveying of Vallejo, California.

SEVERN TRENT STL

Submission#: 2003-04-0589

Blaine Tech Services, Inc.

May 07, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

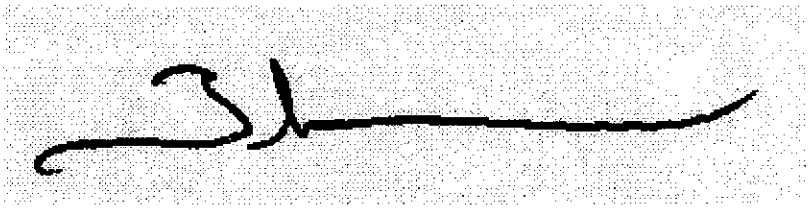
Project#: 030423-BA1
Project: 97088250
Site: 1230 14th Street Oakland, CA

Dear Mr.Gearhart,

Attached is our report for your samples received on 04/23/2003 15:21
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 06/07/2003 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

SEVERN TRENT STL

Submission #: 2003-04-0589

Hexavalent Chromium

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	04/23/2003 10:55	Water	1
MW-5	04/23/2003 13:33	Water	5
VW/AS-1	04/23/2003 09:00	Water	8
VW/AS-3	04/23/2003 08:37	Water	9
VW/MW-2	04/23/2003 11:22	Water	10

Hexavalent Chromium

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	7196A water	Test(s):	7196A
Sample ID:	**MW-1**	Lab ID:	2003-04-0589 - 1
Sampled:	04/23/2003 10:55	Extracted:	4/23/2003 18:00
Matrix:	Water	QC Batch#:	2003/04/23-01.31

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Chromium (Hexavalent)	0.010	0.010	mg/L	1.00	04/24/2003 18:00	

Hexavalent Chromium

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	7196A water	Test(s):	7196A
Sample ID:	MW-5	Lab ID:	2003-04-0589 - 5
Sampled:	04/23/2003 13:33	Extracted:	4/23/2003 18:00
Matrix:	Water	QC Batch#:	2003/04/23-01.31

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Chromium (Hexavalent)	0.020	0.010	mg/L	1.00	04/24/2003 18:00	

Hexavalent Chromium

Blaine Tech Services, Inc.

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Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	7196A water	Test(s):	7196A
Sample ID:	**VW/AS-1**	Lab ID:	2003-04-0589 - 8
Sampled:	04/23/2003 09:00	Extracted:	4/23/2003 18:00
Matrix:	Water	QC Batch#:	2003/04/23-01.31

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Chromium (Hexavalent)	0.020	0.010	mg/L	1.00	04/24/2003 18:00	

Hexavalent Chromium

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: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	7196A water	Test(s):	7196A
Sample ID:	VW/AS-3	Lab ID:	2003-04-0589 - 9
Sampled:	04/23/2003 08:37	Extracted:	4/23/2003 18:00
Matrix:	Water	QC Batch#:	2003/04/23-01.31

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Chromium (Hexavalent)	0.010	0.010	mg/L	1.00	04/24/2003 18:00	

Hexavalent Chromium

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	7196A water	Test(s):	7196A
Sample ID:	**VW/MW-2**	Lab ID:	2003-04-0589 - 10
Sampled:	04/23/2003 11:22	Extracted:	4/23/2003 18:00
Matrix:	Water	QC Batch#:	2003/04/23-01.31

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Chromium (Hexavalent)	0.010	0.010	mg/L	1.00	04/24/2003 18:00	

Hexavalent Chromium

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Batch QC Report

Prep(s): 7196A water — Test(s): 7196A

Method Blank — **Water** — **QC Batch # 2003/04/23-01.31**

MB: 2003/04/23-01.31-001 — Date Extracted: 04/23/2003 18:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Chromium (Hexavalent)	ND	0.01	mg/L	04/23/2003 18:00	

Hexavalent Chromium

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: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Batch QC Report

Prep(s): 7196A water

Test(s): 7196A

Laboratory Control Spike **Water** **QC Batch # 2003/04/23-01.31**

LCS 2003/04/23-01.31-002 Extracted: 04/23/2003 Analyzed: 04/23/2003 18:00

LCSD 2003/04/23-01.31-003 Extracted: 04/23/2003 Analyzed: 04/23/2003 18:00

Compound	Conc. mg/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Chromium (Hexavalent)	0.200	0.200	0.200	100.0	100.0	0.0	80-120	20		

SEVERN TRENT STL

Submission #: 2003-04-0589

Metals

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	04/23/2003 10:55	Water	1
MW-5	04/23/2003 13:33	Water	5
VW/AS-1	04/23/2003 09:00	Water	8
VW/AS-3	04/23/2003 08:37	Water	9
VW/MW-2	04/23/2003 11:22	Water	10

Metals

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: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	3010A	Test(s):	6010B
Sample ID:	**MW-1**	Lab ID:	2003-04-0589 - 1
Sampled:	04/23/2003 10:55	Extracted:	4/25/2003 05:36
Matrix:	Water	QC Batch#:	2003/04/25-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Chromium	0.26	0.0050	mg/L	1.00	04/28/2003 16:05	

Metals

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	3010A	Test(s):	6010B
Sample ID:	MW-5	Lab ID:	2003-04-0589 - 5
Sampled:	04/23/2003 13:33	Extracted:	4/25/2003 05:36
Matrix:	Water	QC Batch#:	2003/04/25-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Chromium	0.038	0.0050	mg/L	1.00	04/28/2003 16:09	

Metals

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	3010A	Test(s):	6010B
Sample ID:	**VW/AS-1**	Lab ID:	2003-04-0589 - 8
Sampled:	04/23/2003 09:00	Extracted:	4/25/2003 05:36
Matrix:	Water	QC Batch#:	2003/04/25-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Chromium	0.48	0.0050	mg/L	1.00	04/28/2003 16:13	

Metals

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	3010A	Test(s):	6010B
Sample ID:	**VW/AS-3**	Lab ID:	2003-04-0589-9
Sampled:	04/23/2003 08:37	Extracted:	4/25/2003 05:36
Matrix:	Water	QC Batch#:	2003/04/25-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Chromium	0.26	0.0050	mg/L	1.00	04/28/2003 16:29	

Metals

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Project: 030423-BA1
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Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	3010A	Test(s):	6010B
Sample ID:	**VW/MW-2**	Lab ID:	2003-04-0589 - 10
Sampled:	04/23/2003 11:22	Extracted:	4/25/2003 05:36
Matrix:	Water	QC Batch#:	2003/04/25-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Chromium	0.54	0.0050	mg/L	1.00	04/28/2003 16:32	

Metals

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Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Batch QC Report

Prep(s): 3010A — Test(s): 6010B

Method Blank — **Water** — **QC Batch # 2003/04/25-03.15**

MB: 2003/04/25-03.15-091 — Date Extracted: 04/25/2003 05:36

Compound	Conc.	RL	Unit	Analyzed	Flag
Chromium	ND	0.0050	mg/L	04/28/2003 15:17	

Metals

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Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Batch QC Report

Prep(s): 3010A Test(s): 6010B

Laboratory Control Spike **Water** **QC Batch # 2003/04/25-03.15**

LCS 2003/04/25-03.15-092 Extracted: 04/25/2003 Analyzed: 04/28/2003 15:22
LCSD 2003/04/25-03.15-095 Extracted: 04/25/2003 Analyzed: 04/28/2003 15:35

Compound	Conc. mg/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Chromium	0.465	0.473	0.500	93.0	94.6	1.7	80-120	20		

SEVERN TRENT STL

Submission #: 2003-04-0589

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

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
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Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	04/23/2003 10:55	Water	1
MW-2	04/23/2003 09:39	Water	2
MW-3	04/23/2003 10:08	Water	3
MW-4	04/23/2003 10:29	Water	4
MW-5	04/23/2003 13:33	Water	5
MW-6	04/23/2003 12:20	Water	6
MW-7	04/23/2003 12:40	Water	7
VW/AS-1	04/23/2003 09:00	Water	8
VW/AS-3	04/23/2003 08:37	Water	9
VW/MW-2	04/23/2003 11:22	Water	10
VW/MW-4	04/23/2003 11:46	Water	11

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

Blaine Tech Services, Inc.

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Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-1**	Lab ID:	2003-04-0589 - 1
Sampled:	04/23/2003 10:55	Extracted:	5/7/2003 11:35
Matrix:	Water	QC Batch#:	2003/05/07-01.65

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	900	500	ug/L	10.00	05/07/2003 11:35	
Benzene	550	5.0	ug/L	10.00	05/07/2003 11:35	
Toluene	19	5.0	ug/L	10.00	05/07/2003 11:35	
Ethylbenzene	49	5.0	ug/L	10.00	05/07/2003 11:35	
Total xylenes	49	10	ug/L	10.00	05/07/2003 11:35	
Methyl tert-butyl ether (MTBE)	ND	50	ug/L	10.00	05/07/2003 11:35	
Surrogates(s)						
1,2-Dichloroethane-d4	100.0	76-114	%	10.00	05/07/2003 11:35	
Toluene-d8	97.6	88-110	%	10.00	05/07/2003 11:35	

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

Blaine Tech Services, Inc.

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Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-2**	Lab ID:	2003-04-0589 - 2
Sampled:	04/23/2003 09:39	Extracted:	5/7/2003 13:47
Matrix:	Water	QC Batch#:	2003/05/07-01.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/07/2003 13:47	
Benzene	ND	0.50	ug/L	1.00	05/07/2003 13:47	
Toluene	ND	0.50	ug/L	1.00	05/07/2003 13:47	
Ethylbenzene	ND	0.50	ug/L	1.00	05/07/2003 13:47	
Total xylenes	ND	1.0	ug/L	1.00	05/07/2003 13:47	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	05/07/2003 13:47	
Surrogates(s)						
1,2-Dichloroethane-d4	97.6	76-114	%	1.00	05/07/2003 13:47	
Toluene-d8	97.0	88-110	%	1.00	05/07/2003 13:47	

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

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Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-3**	Lab ID:	2003-04-0589 - 3
Sampled:	04/23/2003 10:08	Extracted:	5/6/2003 14:12
Matrix:	Water	QC Batch#:	2003/05/06-1a.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/06/2003 14:12	
Benzene	ND	0.50	ug/L	1.00	05/06/2003 14:12	
Toluene	ND	0.50	ug/L	1.00	05/06/2003 14:12	
Ethylbenzene	ND	0.50	ug/L	1.00	05/06/2003 14:12	
Total xylenes	ND	1.0	ug/L	1.00	05/06/2003 14:12	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	05/06/2003 14:12	
Surrogates(s)						
1,2-Dichloroethane-d4	107.2	76-114	%	1.00	05/06/2003 14:12	
Toluene-d8	95.4	88-110	%	1.00	05/06/2003 14:12	

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

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Project: 030423-BA1
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Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-4	Lab ID:	2003-04-0589 - 4
Sampled:	04/23/2003 10:29	Extracted:	5/6/2003 14:34
Matrix:	Water	QC Batch#:	2003/05/06-1a.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/06/2003 14:34	
Benzene	ND	0.50	ug/L	1.00	05/06/2003 14:34	
Toluene	ND	0.50	ug/L	1.00	05/06/2003 14:34	
Ethylbenzene	ND	0.50	ug/L	1.00	05/06/2003 14:34	
Total xylenes	ND	1.0	ug/L	1.00	05/06/2003 14:34	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	05/06/2003 14:34	
Surrogates(s)						
1,2-Dichloroethane-d4	104.5	76-114	%	1.00	05/06/2003 14:34	
Toluene-d8	92.0	88-110	%	1.00	05/06/2003 14:34	

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

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Project: 030423-BA1
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Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-5	Lab ID:	2003-04-0589 - 5
Sampled:	04/23/2003 13:33	Extracted:	5/7/2003 11:57
Matrix:	Water	QC Batch#:	2003/05/07-01.65

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	33000	2500	ug/L	50.00	05/07/2003 11:57	
Benzene	2900	25	ug/L	50.00	05/07/2003 11:57	
Toluene	3100	25	ug/L	50.00	05/07/2003 11:57	
Ethylbenzene	960	25	ug/L	50.00	05/07/2003 11:57	
Total xylenes	5800	50	ug/L	50.00	05/07/2003 11:57	
Methyl tert-butyl ether (MTBE)	ND	250	ug/L	50.00	05/07/2003 11:57	
Surrogates(s)						
1,2-Dichloroethane-d4	98.2	76-114	%	50.00	05/07/2003 11:57	
Toluene-d8	96.0	88-110	%	50.00	05/07/2003 11:57	

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

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Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-6**	Lab ID:	2003-04-0589 - 6
Sampled:	04/23/2003 12:20	Extracted:	5/7/2003 12:19
Matrix:	Water	QC Batch#:	2003/05/07-01.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/07/2003 12:19	
Benzene	ND	0.50	ug/L	1.00	05/07/2003 12:19	
Toluene	ND	0.50	ug/L	1.00	05/07/2003 12:19	
Ethylbenzene	ND	0.50	ug/L	1.00	05/07/2003 12:19	
Total xylenes	ND	1.0	ug/L	1.00	05/07/2003 12:19	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	05/07/2003 12:19	
Surrogates(s)						
1,2-Dichloroethane-d4	97.7	76-114	%	1.00	05/07/2003 12:19	
Toluene-d8	97.1	88-110	%	1.00	05/07/2003 12:19	

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

Blaine Tech Services, Inc.

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Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-7**	Lab ID:	2003-04-0589 - 7
Sampled:	04/23/2003 12:40	Extracted:	5/6/2003 15:40
Matrix:	Water	QC Batch#:	2003/05/06-1a.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	250	50	ug/L	1.00	05/06/2003 15:40	g
Benzene	48	0.50	ug/L	1.00	05/06/2003 15:40	
Toluene	ND	0.50	ug/L	1.00	05/06/2003 15:40	
Ethylbenzene	ND	0.50	ug/L	1.00	05/06/2003 15:40	
Total xylenes	ND	1.0	ug/L	1.00	05/06/2003 15:40	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	05/06/2003 15:40	
Surrogates(s)						
1,2-Dichloroethane-d4	103.4	76-114	%	1.00	05/06/2003 15:40	
Toluene-d8	96.3	88-110	%	1.00	05/06/2003 15:40	

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

Blaine Tech Services, Inc.

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Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**VW/AS-1**	Lab ID:	2003-04-0589 - 8
Sampled:	04/23/2003 09:00	Extracted:	5/7/2003 14:09
Matrix:	Water	QC Batch#:	2003/05/07-01.65

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	9500	2500	ug/L	50.00	05/07/2003 14:09	
Benzene	4100	25	ug/L	50.00	05/07/2003 14:09	
Toluene	200	25	ug/L	50.00	05/07/2003 14:09	
Ethylbenzene	1400	25	ug/L	50.00	05/07/2003 14:09	
Total xylenes	200	50	ug/L	50.00	05/07/2003 14:09	
Methyl tert-butyl ether (MTBE)	ND	250	ug/L	50.00	05/07/2003 14:09	
Surrogates(s)						
1,2-Dichloroethane-d4	95.4	76-114	%	50.00	05/07/2003 14:09	
Toluene-d8	97.4	88-110	%	50.00	05/07/2003 14:09	

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

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Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**VW/AS-3**	Lab ID:	2003-04-0589 - 9
Sampled:	04/23/2003 08:37	Extracted:	5/6/2003 16:24
Matrix:	Water	QC Batch#:	2003/05/06-1a.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	150	50	ug/L	1.00	05/06/2003 16:24	
Benzene	47	0.50	ug/L	1.00	05/06/2003 16:24	
Toluene	0.67	0.50	ug/L	1.00	05/06/2003 16:24	
Ethylbenzene	8.5	0.50	ug/L	1.00	05/06/2003 16:24	
Total xylenes	3.2	1.0	ug/L	1.00	05/06/2003 16:24	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	05/06/2003 16:24	
Surrogates(s)						
1,2-Dichloroethane-d4	111.7	76-114	%	1.00	05/06/2003 16:24	
Toluene-d8	95.6	88-110	%	1.00	05/06/2003 16:24	

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

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Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	VW/MW-2	Lab ID:	2003-04-0589 - 10
Sampled:	04/23/2003 11:22	Extracted:	5/6/2003 16:46
Matrix:	Water	QC Batch#:	2003/05/06-1a.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1100	50	ug/L	1.00	05/06/2003 16:46	
Benzene	76	0.50	ug/L	1.00	05/06/2003 16:46	
Toluene	29	0.50	ug/L	1.00	05/06/2003 16:46	
Ethylbenzene	45	0.50	ug/L	1.00	05/06/2003 16:46	
Total xylenes	66	1.0	ug/L	1.00	05/06/2003 16:46	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	05/06/2003 16:46	
Surrogates(s)						
1,2-Dichloroethane-d4	102.2	76-114	%	1.00	05/06/2003 16:46	
Toluene-d8	96.6	88-110	%	1.00	05/06/2003 16:46	

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

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Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Prep(s): 5030B
Test(s): 8260FAB
Sample ID: VW/MW-4
Lab ID: 2003-04-0589 - 11
Sampled: 04/23/2003 11:46
Extracted: 5/7/2003 13:03
Matrix: Water
QC Batch#: 2003/05/07-01.65
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2400	500	ug/L	10.00	05/07/2003 13:03	
Benzene	710	5.0	ug/L	10.00	05/07/2003 13:03	
Toluene	28	5.0	ug/L	10.00	05/07/2003 13:03	
Ethylbenzene	160	5.0	ug/L	10.00	05/07/2003 13:03	
Total xylenes	100	10	ug/L	10.00	05/07/2003 13:03	
Methyl tert-butyl ether (MTBE)	ND	50	ug/L	10.00	05/07/2003 13:03	
Surrogates(s)						
1,2-Dichloroethane-d4	101.7	76-114	%	10.00	05/07/2003 13:03	
Toluene-d8	97.5	88-110	%	10.00	05/07/2003 13:03	

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

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Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/05/06-1a.65**

MB: 2003/05/06-1a.65-003 — Date Extracted: 05/06/2003 13:05

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/06/2003 13:05	
Benzene	ND	0.5	ug/L	05/06/2003 13:05	
Toluene	ND	0.5	ug/L	05/06/2003 13:05	
Ethylbenzene	ND	0.5	ug/L	05/06/2003 13:05	
Total xylenes	ND	1.0	ug/L	05/06/2003 13:05	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	05/06/2003 13:05	
Surrogates(s)					
1,2-Dichloroethane-d4	98.2	76-130	%	05/06/2003 13:05	
Toluene-d8	98.2	78-115	%	05/06/2003 13:05	

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

Blaine Tech Services, Inc.

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Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/05/07-01.65**

MB: 2003/05/07-01.65-003 — Date Extracted: 05/07/2003 11:12

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/07/2003 11:12	
Benzene	ND	0.5	ug/L	05/07/2003 11:12	
Toluene	ND	0.5	ug/L	05/07/2003 11:12	
Ethylbenzene	ND	0.5	ug/L	05/07/2003 11:12	
Total xylenes	ND	1.0	ug/L	05/07/2003 11:12	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	05/07/2003 11:12	
Surrogates(s)					
1,2-Dichloroethane-d4	99.8	76-130	%	05/07/2003 11:12	
Toluene-d8	95.0	78-115	%	05/07/2003 11:12	

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

Blaine Tech Services, Inc.

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Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Batch QC Report

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

Laboratory Control Spike **Water** **QC Batch # 2003/05/06-1a.65**

LCS 2003/05/06-1a.65-004 Extracted: 05/06/2003 Analyzed: 05/06/2003 11:37

LCSD 2003/05/06-1a.65-001 Extracted: 05/06/2003 Analyzed: 05/06/2003 11:59

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	24.3	25.8	25	97.2	103.2	6.0	69-129	20		
Toluene	23.6	25.5	25	94.4	102.0	7.7	70-130	20		
Methyl tert-butyl ether (MTBE)	38.5	36.7	25	154.0	146.8	4.8	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	561	523	500	112.2	104.6		76-130			
Toluene-d8	485	499	500	97.0	99.8		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

Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Laboratory Control Spike — **Water** — **QC Batch # 2003/05/07-01.65**

LCS 2003/05/07-01.65-002 — Extracted: 05/07/2003 — Analyzed: 05/07/2003 10:28

LCSD 2003/05/07-01.65-001 — Extracted: 05/07/2003 — Analyzed: 05/07/2003 10:50

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	26.9	24.7	25.0	107.6	98.8	8.5	69-129	20		
Toluene	26.1	24.7	25.0	104.4	98.8	5.5	70-130	20		
Methyl tert-butyl ether (MTBE)	36.4	30.6	25.0	145.6	122.4	17.3	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	510	482	500	102.0	96.4		76-130	0		
Toluene-d8	481	491	500	96.2	98.2		78-115	0		

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: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Matrix Spike (MS / MSD) — **Water** — **QC Batch # 2003/05/06-1a.65**

MW-2 >> MS — Lab ID: 2003-04-0589 - 002

MS: 2003/05/06-1a.65-040 — Extracted: 05/06/2003 — Analyzed: 05/06/2003 19:04 — Dilution: 1.00

MSD: 2003/05/06-1a.65-041 — Extracted: 05/06/2003 — Analyzed: 05/06/2003 19:27 — Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	25.4	25.8	0.560	25	99.4	101.0	1.6	69-129	20		
Toluene	24.3	24.6	ND	25	97.2	98.4	1.2	70-130	20		
Methyl tert-butyl ether	34.1	37.4	ND	25	136.4	149.6	9.2	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	510	539		500	102.0	107.8		76-130			
Toluene-d8	485	480		500	97.1	96.0		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

Project: 030423-BA1
97088250

Received: 04/23/2003 15:21

Site: 1230 14th Street Oakland, CA

Legend and Notes

Analysis Flag

o

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

Result Flag

g

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

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

SHELL Chain Of Custody Record

73644

Shell Project Manager to be Invoiced:

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

Karen Petryna

2003-04-0589

INCIDENT NUMBER (S&E ONLY): 9 7 0 8 8 2 5 0

SAP or CRMT NUMBER (TS/CRMT): [redacted]

DATE: 4/23/03

PAGE: 1 of 2

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112	
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart	
TELEPHONE: 408-573-0555	FAX: 408-573-7771
E-MAIL: lgearhart@blainetech.com	
SITE ADDRESS (Street and City): 1230 14th Street, Oakland	GLOBAL ID NO.: T0600101691
EDF DELIVERABLE TO (Responsible Party or Designee): Anni Kreml	PHONE NO.: 510-420-3335
E-MAIL: ShellOaklandEDF@cambria-env.com	CONSULTANT PROJECT NO.: 030423-BA1 (BTS #)
SAMPLER NAME(S) (Print): Brian Alcorn	LAB USE ONLY

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

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

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

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

REQUESTED ANALYSIS

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)	Total Chromium	Hexavalent Chromium	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-1	4/23	1055	W	5	X	X	X								X	X	
	MW-2	↓	0939	↓	3	X	X	X										
	MW-3	↓	1008	↓	↓	X	X	X										
	MW-4	↓	1029	↓	↓	X	X	X										
	MW-5	↓	1333	↓	5	X	X	X								X	X	
	MW-6	↓	1220	↓	3	X	X	X										
	MW-7	↓	1240	↓	↓	X	X	X										
	VW/AS-1	↓	0900	↓	5	X	X	X								X	X	
	VW/AS-3	↓	0857	↓	↓	X	X	X								X	X	
	VW/MW-2	↓	1122	↓	↓	X	X	X								X	X	

TEMPERATURE ON RECEIPT C°: 2.5°C

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	4/23/03	1621
Relinquished by: (Signature) [signature] 1703 4/23/03	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) Nounak STL-SF	Date: 4/23/03	Time: 1703

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

10/16/00 Revision

SHELL Chain Of Custody Record

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

Shell Project Manager to be invoiced:

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

Karen Petryna

2003-04-0589

INCIDENT NUMBER (S&E ONLY)							
9	7	0	8	8	2	5	0
SAP or CRMT NUMBER (TS/CRMT)							
[redacted]							

DATE: 4/23/03
PAGE: 2 of 2

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112	
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart	
TELEPHONE: 408-573-0555	FAX: 408-573-7771
E-MAIL: lgearhart@blainetech.com	

SITE ADDRESS (Street and City): 1230 14th Street, Oakland	GLOBAL ID NO.: T0600101691
EDF DELIVERABLE TO (Responsible Party or Designee): Anni Kreml	PHONE NO.: 510-420-3335
E-MAIL: ShellOaklandEDF@cambria-env.com	CONSULTANT PROJECT NO.: 030423-BA1 BTS #
SAMPLER NAME(S) (Print): BRIAN ALCORN	LAB USE ONLY

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

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

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

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)		TPH - Diesel, Extractable (8015m)									FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	VW/MW-4	4/23	1146	W	3																				

TEMPERATURE ON RECEIPT C°: 2.5 °C

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	4/23/03	1821
Relinquished by: (Signature) [signature] 4/23/03 1703	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) Nounalis. STL-SF	Date: 4/23/03	Time: 1703

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

10/16/00 Revision

WELL GAUGING DATA

Project # 030423-BA1 Date 4/23/03 Client SHELL

Site 1230 14th St, 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	
MW-1	2					10.32	21.05	TOC	
MW-2	2					9.48	21.49		
MW-3	2					9.71	18.81		
MW-4	2					9.57	19.34		
MW-5	4					~~10.32~~ 10.15	~~21.05~~ 19.72		
MW-6	4					10.57	19.65		
MW-7	4					11.02	19.70		
VW/AS-1	1					10.28	19.60		
VW/AS-3	1					9.85	19.72		
VW/MW-2	2					9.95	22.03		
VW/MW-4	2					9.74	18.44		

SHELL WELL MONITORING DATA SHEET

BTS #: 030423-BA1	Site: 1230 14TH ST, OAKLAND
Sampler: BRIAN ALCORN	Date: 4/23/03
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 21.05	Depth to Water (DTW): 10.32
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]: 12.47	

Purge Method: Bailer, Disposable Bailer, (Middleburg), Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

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

1.7 (Gals.) X	3	=	5.1 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
1048	61.7	6.9	741	741	1.7	cloudy, gray
1050	61.7	6.9	740	500	3.4	"
1052	61.6	6.9	797	310	5.1	"

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

Sampling Date: 4/23/03 Sampling Time: 1055 Depth to Water: 11.59

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

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: TOTAL CHROMIUM/HEXAVALENT CHROMIUM

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):	0.9 mg/L	(Post-purge):	0.1 mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 030423-BA1	Site: 1230 14TH ST, OAKLAND
Sampler: BRIAN ALCORN	Date: 4/23/03
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 21.49	Depth to Water (DTW): 9.48
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]: 11.88	

Purge Method: Bailer, Disposable Bailer, (Middleburg), Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

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

1.9 (Gals.) X 3 = 5.7 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
0929	64.2	7.4	849	>1,000	1.9	very cloudy, brown
0933	65.2	7.0	791	690	3.8	"
0936	65.2	6.8	793	295	5.7	cloudy, brown

Did well dewater? Yes (No) Gallons actually evacuated: 5.7

Sampling Date: 4/23/03 Sampling Time: 0939 Depth to Water: 10.32

Sample I.D.: MW-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):	~~7.6~~ 0.4 mg/L	(Post-purge):	0.2	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030423-BA1	Site: 1230 14TH ST, OAKLAND
Sampler: BRIAN ALCORN	Date: 4/23/03
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 18.31	Depth to Water (DTW): 9.71
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]: 11.53	

Purge Method: Bailer, Disposable Bailer, (Middleburg), Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

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

1.5 (Gals.) X 3 = 4.5 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
1000	63.5	6.9	950	553	1.5	cloudy, brown
1003	63.7	6.7	933	200	3.0	"
1005	63.8	6.7	927	120	4.5	"

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Date: 4/23/03 Sampling Time: 1008 Depth to Water: 11.18

Sample I.D.: MW-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):	0.7 mg/L	(Post-purge):	0.2	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030423-BA1	Site: 1230 14TH ST, OAKLAND
Sampler: BRIAN ALCORN	Date: 4/23/03
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 19.34	Depth to Water (DTW): 9.57
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.52	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

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

1.6 (Gals.) X	3	=	4.8 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
1022	63.7	6.8	244	787	1.6	cloudy, brown
1024	64.4	6.7	220	599	3.2	"
1026	64.6	6.7	218	465	4.8	"

Did well dewater? Yes (No) Gallons actually evacuated: 4.8

Sampling Date: 4/23/03 Sampling Time: 1029 Depth to Water: 10.43

Sample I.D.: MW-4 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)	5.1 mg/L	(Post-purge):	5.7	mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030423-BA1	Site: 1230 14TH ST, OAKLAND
Sampler: BRIAN ALCORN	Date: 4/23/03
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 19.72	Depth to Water (DTW): 10.15
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.06	

Purge Method: Bailer / Disposable Bailer / (Middleburg) / ~~Electric Submersible~~ / Waterra / Peristaltic / Extraction Pump / Other____

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

6.2 (Gals.) X	3	=	18.6 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
WELL CASING MAY BE BENT ~ UNABLE TO FIT E.S. DOWN WELL						
1307	64.9	6.7	1,247	>1,000	6.2	cloudy, gray, odor
1316	65.0	6.8	1,342	>1,000	12.4	"
1325	65.0	6.9	1,322	>1,000	18.6	"
						DTW 14.11

Did well dewater? Yes (No) Gallons actually evacuated: 18.6

Sampling Date: 4/23/03 Sampling Time: 1333 Depth to Water: 12.06

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

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: TOTAL CHROMIUM/HEXAVALENT CHROMIUM

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):	0.1 mg/L	(Post-purge):	0.1 mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 030423-BA1	Site: 1230 14th St, Oakland
Sampler: Brian Alcorn	Date: 4/23/03
Well I.D.: MW-6	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 19.65	Depth to Water (DTW): 10.57
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.39	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other____

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

5.9 (Gals.) X 3 = 17.7 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
1208	62.2	7.0	586	125	6.0	cloudy gray
1209	61.6	6.9	585	103	12.0	"
1210	61.5	6.9	573	806	18.0	cloudy brown
						DTW 15.58

Did well dewater? Yes (No) Gallons actually evacuated: 18

Sampling Date: 4/23/03 Sampling Time: 1220 Depth to Water: 12.39

Sample I.D.: MW-6 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:	3.7 mg/L	Post-purge:	4.4	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030423-BA1	Site: 1230 14th St, Oakland
Sampler: Brian Alcorn	Date: 4/23/03
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 19.70	Depth to Water (DTW): 11.02
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]: 12.76	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

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

5.4 (Gals.) X 3 = 16.8 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
1231	62.8	7.0	490	44	6.0	clear,
1232	62.7	6.9	500	129	12.0	cloudy brown
1233	62.7	6.9	518	230	18.0	cloudy brown
						DTW 14.23

Did well dewater? Yes (No) Gallons actually evacuated: 18

Sampling Date: 4/23/03 Sampling Time: 1240 Depth to Water: 12.76

Sample I.D.: MW-7 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):	3.2 mg/L	(Post-purge):	1.3 mg/L	
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 030423-BA1	Site: 1230 14TH ST, OAKLAND
Sampler: BRIAN ALCORN	Date: 4/23/03
Well I.D.: VW/AS-1	Well Diameter: 2 3 4 6 8 (1)
Total Well Depth (TD): 19.60	Depth to Water (DTW): 10.28
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]: 12.14	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other 5/8" Tubing w/ check valve

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, Other: 5/8" Tubing w/ check valve

0.4 (Gals.) X 3 = 1.2 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
0853	63.0	6.9	1,523	>1,000	0.4	very cloudy, gray, odor
0856	63.7	6.9	1,497	>1,000	0.8	"
0858	63.5	6.9	1,505	>1,000	1.2	X

Did well dewater? Yes (No) Gallons actually evacuated: 1.2

Sampling Date: 4/23/03 Sampling Time: ~~0858~~ 0900 Depth to Water: 10.62

Sample I.D.: VW/AS-1 Laboratory: (STL) Other

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: Total Chromium/Hexavalent chromium

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):	1.2 mg/L	(Post-purge):	0.4	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030423-BA1	Site: 1230 14TH ST, OAKLAND
Sampler: BRIAN ALCORN	Date: 4/23/03
Well I.D.: VW/AS-3	Well Diameter: 2 3 4 6 8 (1)
Total Well Depth (TD): 19.72	Depth to Water (DTW): 9.85
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]: 11.82	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other 5/8" Tubing w/ check valve

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, Other: 5/8" Tubing w/check valve

1 Case Volume	Specified Volumes	Calculated Volume
0.4 (Gals.) X	3	= 1.2 Gals.

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

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
0827	61.3	6.1	1,180	569	0.4	cloudy, gray, odor
0831	63.3	6.5	1,155	450	0.8	"
0833	64.1	6.6	1,174	>1,000	1.2	"

Did well dewater? Yes (No) Gallons actually evacuated: 1.2

Sampling Date: 4/23/03 Sampling Time: 0837 Depth to Water: 10.42

Sample I.D.: VW/AS-3 Laboratory: (STL) Other_____

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: Total Chromium / Hexavalent Chromium

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)	2.1 mg/L	(Post-purge)	0.7	mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030423-BA1	Site: 1230 14TH ST, OAKLAND
Sampler: BRIAN ALCORN	Date: 4/23/03
Well I.D.: VW/MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 22.08	Depth to Water (DTW): 9.95
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]: 12.38	

Purge Method: Bailer; Disposable Bailer; (Middleburg); Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

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

1.9 (Gals.) X 3 = 5.7 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
1113	62.4	6.9	872	>1,000	1.9	cloudy, brown
1116	63.6	6.8	862	>1,000	3.8	"
1119	63.7	6.7	837	>1,000	5.7	"

Did well dewater? Yes (No) Gallons actually evacuated: 5.7

Sampling Date: 4/23/03 Sampling Time: 1122 Depth to Water: 12.10

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

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: TOTAL CHROMIUM/HEXAVALENT CHROMIUM

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):	0.8 mg/L	(Post-purge):	0.3	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030423-BA1	Site: 1230 14TH STR, OAKLAND
Sampler: BRIAN ALCORD	Date: 4/23/03
Well I.D.: MW/MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 18.44	Depth to Water (DTW): 9.74
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]: 11.48	

Purge Method: Bailer / Disposable Bailer / (Middleburg) / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

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

1.4 (Gals.) X 3 = 4.2 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
1139	63.5	6.8	1,108	956	1.4	cloudy gray, odor
1141	64.0	6.7	1,157	149	2.8	"
1143	63.9	6.8	1,185	44	4.2	clear, odor

Did well dewater? Yes (No) Gallons actually evacuated: 4.2

Sampling Date: 4/23/03 Sampling Time: 1146 Depth to Water: 11.24

Sample I.D.: MW/MW-4 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):	0.2 mg/L	(Post-purge):	0.05 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELLHEAD INSPECTION CHECKLIST

Client SHELL Date 4/23/03

Site Address 1230 14th St, OAKLAND

Job Number 030423-BA1 Technician BRIAN ALCORN

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1	X							
MW-2	X							
MW-3	X							
MW-4	X							
MW-5	~~X~~ NO							X
MW-6	X							
MW-7	X							
VW/AS-1	~~X~~ NO							X
VW/AS-3	~~X~~ NO							X
VW/MW-2	X							
VW/MW-4	X							

NOTES:

WELL GAUGING DATA

Project # 030513-SS1 Date 5/13/03 Client SHELL

Site 1230 14TH ST. 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	
MW-1	2					10.28	20.95		
MW-2	2					9.45	21.75		
MW-3	2					9.70	18.86		
MW-4	2					9.55	19.32		
MW-5	4					10.12	19.75		
MW-6	4					10.56	19.65		
MW-7	4					11.00	19.71		
VW/MW-2	2					9.90	22.10		
VW/MW-4	2					9.70	18.45		
VW/AS-1	1					10.26	19.64		
VW/AS-3	1					9.81	19.73		
GAUGED W/ STINGER IN WELL									

SHELL WELL MONITORING DATA SHEET

BTS #: 030573-551	Site: 97088250
Sampler: SCOTT	Date: 5/13/03
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 20.95	Depth to Water (DTW): 10.28
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]: 12.41	

Purge Method: ☒ Bailer / Disposable Bailer / Middleburg / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: ☒ Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: _____

1.7 (Gals.) X 3 = 5.1 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
1043	62.0	6.6	726	>200	1.7	cloudy & brown
1045	62.2	6.5	734	>200	3.4	"
1047	62.5	6.6	755	>200	5.1	"

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

Sampling Date: 5/13/03 Sampling Time: 1049 Depth to Water: 11.55

Sample I.D.: MW-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)	0.1 mg/L	(Post-purge)	0.2	mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030573-551	Site: 97088250
Sampler: SCOTT	Date: 5/13/03
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 21.75	Depth to Water (DTW): 9.45
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]: 11.91	

Purge Method: X Bailer; Disposable Bailer; Middleburg; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

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

2 (Gals.) X	3	=	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	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
927	66.9	6.5	860	>200	2	BROWN/CLOUDY
930	66.2	6.4	823	>200	4	" "
932	66.4	6.4	808	>200	6	" "

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

Sampling Date: 5/13/03 Sampling Time: 934 Depth to Water: 10.45

Sample I.D.: MW-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):	0.5 mg/L	(Post-purge):	0.3	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030513-551	Site: 97088250
Sampler: Scott	Date: 5/13/03
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 18.86	Depth to Water (DTW): 9.70
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]: 11.53	

Purge Method: X Bailer; Disposable Bailer; Middleburg; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

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

1.5 (Gals.) X	3	=	4.5 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	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
947	66.0	6.3	941	>200	1.5	TURBID
949	65.3	6.3	942	>200	3.0	"
951	65.5	6.3	933	>200	4.5	"

Did well dewater? Yes (No)		Gallons actually evacuated: 4.5	
Sampling Date: 5/13/03	Sampling Time: 954	Depth to Water: 10.80	
Sample I.D.: MW-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):	0.6 mg/L	(Post-purge):	0.2 mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030573-551	Site: 97088250
Sampler: SCOTT	Date: 5/13/03
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 19.32	Depth to Water (DTW): 9.55
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]: 11.50	

Purge Method: X Bailer; Disposable Bailer; Middleburg; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

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

1.6 (Gals.) X 3 = 4.8 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
1005	65.4	6.4	283	>200	1.6	BROWN/CLOUDY
1007	65.7	6.4	223	>200	3.2	" "
1009	65.9	6.4	218	>200	5.0	" "

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

Sampling Date: 5/13/03 Sampling Time: 1010 Depth to Water: 10.60

Sample I.D.: MW-4 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):	2.0 mg/L	(Post-purge):	2.5 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030573-551	Site: 97088250
Sampler: Scott	Date: 5/13/03
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 19.75	Depth to Water (DTW): 10.12
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]: 12.05	

Purge Method: Bailer / Disposable Bailer / X Middleburg / X Electric Submersible / Waterra Peristaltic / Extraction Pump / Other____

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

1 Case Volume		Specified Volumes		Calculated Volume
6.3	(Gals.) X	3	=	18.9 Gals.

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

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
BENT CASING OR OBSTRUCTION IN WELL @			10'-12'. USED MIDDLEBURGE.			
1151	65.1	6.4	1341	>200	6.3	GAS ODOR/PURGED
1156	65.3	6.4	1442	>200	12.6	" "
1201	65.0	6.5	1498	>200	19.0	" "

Did well dewater? Yes (No) Gallons actually evacuated: 19

Sampling Date: 5/13/03 Sampling Time: 1204 Depth to Water: 14.30 @ SITE Depart

Sample I.D.: MW-5 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):	0.4 mg/L	(Post-purge):	0.3 mg/L	
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 030573-551	Site: 97088250
Sampler: SCOTT	Date: 5/13/03
Well I.D.: MW-6	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 19.65	Depth to Water (DTW): 10.56
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]: 12.38	

Purge Method: Bailer; Disposable Bailer; Middleburg; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

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

1 Case Volume	(Gals.) X	Specified Volumes	=	Calculated Volume	Gals.
6		3		18	

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

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1101	62.5	6.5	596	>200	6	TURBID
1102	62.1	6.5	584	>200	12	"
1103	62.2	6.5	576	>200	18	BROWN/CLOUDY

Did well dewater? Yes (No) Gallons actually evacuated: 18

Sampling Date: 5/13/03 Sampling Time: 1110 Depth to Water: 12.35

Sample I.D.: MW-6 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):	3.5 mg/L	(Post-purge):	3.0	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030573-551	Site: 97088250
Sampler: Scott	Date: 5/13/03
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.71	Depth to Water (DTW): 11.00
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]: 12.74	

Purge Method: Bailer, Disposable Bailer, Middleburg, X Electric Submersible, Waterra Peristaltic, Extraction Pump, Other_____

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

5.7 (Gals.) X 3 = 17.1 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
1123	63.3	6.6	520	172	5.7	PURGED
1124	63.2	6.5	554	>200	11.4	"
1125	63.4	6.5	612	>200	17.1	"

Did well dewater? Yes (No) Gallons actually evacuated: 17.1

Sampling Date: 5/13/03 Sampling Time: 1131 Depth to Water: 12.73

Sample I.D.: MW-7 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):	2.0 mg/L	(Post-purge):	1.5 mg/L	
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 030573-551	Site: 97088250
Sampler: Scott	Date: 5/13/03
Well I.D.: VW/MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 22.10	Depth to Water (DTW): 9.90
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]: 12.34	

Purge Method: X Bailer / Disposable Bailer / Middleburg / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

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

2 (Gals.) X 3 = 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
1022	64.3	6.4	815	>200	2	BROWN/CLOUDY
1025	64.0	6.5	868	>200	4	" "
1028	64.0	6.5	870	>200	6	" "

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

Sampling Date: 5/13/03 Sampling Time: 1030 Depth to Water: 11.95

Sample I.D.: VW/MW-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):	0.2 mg/L	(Post-purge):	0.2 mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 030513-551	Site: 97088250
Sampler: Scott	Date: 5/13/03
Well I.D.: MW/MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 18.45	Depth to Water (DTW): 9.70
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]: 10.95	

Purge Method: X Bailer; ~~X~~ Disposable Bailer; Middleburg; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

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

1.4 (Gals.) X 3 = 4.2 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
910	65.4	6.4	1159	>200	1.5	PURGE 10/GAL 0022
912	65.2	6.5	1177	>200	3.0	" "
914	65.3	6.5	1181	>200	4.5	" "

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Date: 5/13/03 Sampling Time: 915 Depth to Water: 10.80

Sample I.D.: MW/MW-4 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)	0.2 mg/L	(Post-purge):	0.2	mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030513-551	Site: 97088250
Sampler: Scott	Date: 5/13/03
Well I.D.: VW/AS-1	Well Diameter: 2 3 4 6 8 (1)
Total Well Depth (TD): 19.64	Depth to Water (DTW): 10.26
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]: 12.14	

Purge Method: Bailer / X Disposable Bailer / Middleburg / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

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

0.4 (Gals.) X 3 = 1.2 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
829	63.5	6.4	2426	>200	0.4	GREY/GAS ODOR
831	63.4	6.5	2112	>200	0.8	" "
833	63.5	6.5	2002	>200	1.2	MUDDY/GAS ODOR

Did well dewater? Yes (No) Gallons actually evacuated: 1.2

Sampling Date: 5/13/03 Sampling Time: 835 Depth to Water: 10.50

Sample I.D.: (VW/AS-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:)	0.5 mg/L	(Post-purge:)	2.0 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030573-551	Site: 97088250
Sampler: Scott	Date: 5/13/03
Well I.D.: VW/AS-3	Well Diameter: 2 3 4 6 8 (1)
Total Well Depth (TD): 19.73	Depth to Water (DTW): 9.81
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]: 11.79	

Purge Method: Bailer; X Disposable Bailer; Middleburg; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

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

0.4 (Gals.) X 3 = 1.2 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
850	64.7	6.6	1115	>200	0.4	PURGED/GAS ODOR
853	64.8	6.6	1080	>200	0.8	" "
856	65.2	6.5	1079	>200	1.2	" "

Did well dewater? Yes (No) Gallons actually evacuated: 1.2

Sampling Date: 5/13/03 Sampling Time: 900 Depth to Water: 9.95

Sample I.D.: VW/AS-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:)	1.4 mg/L	(Post-purge:)	1.8	mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:		mV

SEVERN TRENT STL

Submission#: 2003-05-0393

Blaine Tech Services, Inc.

May 20, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

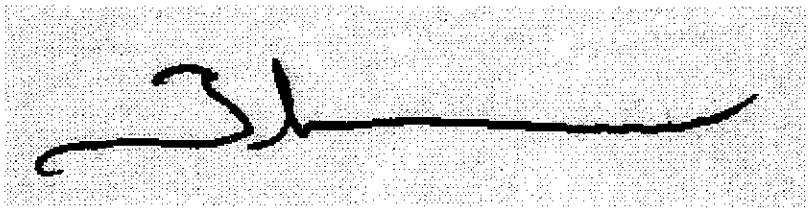
Project#: BTS#030513-SS1
Project: Shell Incident Number 97088250
Site: 1230 14th Street, Oakland, CA

Dear Mr.Gearhart,

Attached is our report for your samples received on 05/14/2003 14:23
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 06/28/2003 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

SEVERN TRENT STL

Submission #: 2003-05-0393

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: BTS#030513-SS1
Shell Incident Number *97088250*

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-2	05/13/2003 09:34	Water	2
MW-3	05/13/2003 09:54	Water	3
MW-4	05/13/2003 10:10	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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-2**	Lab ID:	2003-05-0393 - 2
Sampled:	05/13/2003 09:34	Extracted:	5/20/2003 13:19
Matrix:	Water	QC Batch#:	2003/05/20-01.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/20/2003 13:19	
Benzene	ND	0.50	ug/L	1.00	05/20/2003 13:19	
Toluene	ND	0.50	ug/L	1.00	05/20/2003 13:19	
Ethylbenzene	ND	0.50	ug/L	1.00	05/20/2003 13:19	
Total xylenes	ND	1.0	ug/L	1.00	05/20/2003 13:19	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	05/20/2003 13:19	
Surrogates(s)						
1,2-Dichloroethane-d4	111.1	76-130	%	1.00	05/20/2003 13:19	
Toluene-d8	104.7	78-115	%	1.00	05/20/2003 13:19	

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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-3**	Lab ID:	2003-05-0393 - 3
Sampled:	05/13/2003 09:54	Extracted:	5/20/2003 13:41
Matrix:	Water	QC Batch#:	2003/05/20-01.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/20/2003 13:41	
Benzene	ND	0.50	ug/L	1.00	05/20/2003 13:41	
Toluene	ND	0.50	ug/L	1.00	05/20/2003 13:41	
Ethylbenzene	ND	0.50	ug/L	1.00	05/20/2003 13:41	
Total xylenes	ND	1.0	ug/L	1.00	05/20/2003 13:41	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	05/20/2003 13:41	
Surrogates(s)						
1,2-Dichloroethane-d4	107.0	76-130	%	1.00	05/20/2003 13:41	
Toluene-d8	97.8	78-115	%	1.00	05/20/2003 13:41	

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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-4**	Lab ID:	2003-05-0393 - 4
Sampled:	05/13/2003 10:10	Extracted:	5/20/2003 14:03
Matrix:	Water	QC Batch#:	2003/05/20-01.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/20/2003 14:03	
Benzene	ND	0.50	ug/L	1.00	05/20/2003 14:03	
Toluene	ND	0.50	ug/L	1.00	05/20/2003 14:03	
Ethylbenzene	ND	0.50	ug/L	1.00	05/20/2003 14:03	
Total xylenes	ND	1.0	ug/L	1.00	05/20/2003 14:03	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	05/20/2003 14:03	
Surrogates(s)						
1,2-Dichloroethane-d4	108.3	76-130	%	1.00	05/20/2003 14:03	
Toluene-d8	98.2	78-115	%	1.00	05/20/2003 14:03	

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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/05/20-01.64**

MB: 2003/05/20-01.64-003 — Date Extracted: 05/20/2003 12:35

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/20/2003 12:35	
Benzene	ND	0.5	ug/L	05/20/2003 12:35	
Toluene	ND	0.5	ug/L	05/20/2003 12:35	
Ethylbenzene	ND	0.5	ug/L	05/20/2003 12:35	
Total xylenes	ND	1.0	ug/L	05/20/2003 12:35	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	05/20/2003 12:35	
Surrogates(s)					
1,2-Dichloroethane-d4	104.4	76-130	%	05/20/2003 12:35	
Toluene-d8	98.4	78-115	%	05/20/2003 12:35	

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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2003/05/20-01.64**

LCS 2003/05/20-01.64-002 Extracted: 05/20/2003 Analyzed: 05/20/2003 11:51

LCSD 2003/05/20-01.64-001 Extracted: 05/20/2003 Analyzed: 05/20/2003 12:13

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	21.2	21.7	25.0	84.8	86.8	2.8	69-129	20		
Toluene	21.8	21.5	25.0	87.2	86.0	1.4	70-130	20		
Methyl tert-butyl ether (MTBE)	24.4	23.3	25.0	97.6	93.2	4.6	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	512	507	500	102.4	101.4		76-130	0		
Toluene-d8	504	497	500	100.8	99.4		78-115	0		

SEVERN TRENT STL

Submission #: 2003-05-0393

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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	05/13/2003 10:49	Water	1
MW-5	05/13/2003 12:04	Water	5
MW-6	05/13/2003 11:10	Water	6
MW-7	05/13/2003 11:31	Water	7
VM/MW-2	05/13/2003 10:30	Water	8
VM/MW-4	05/13/2003 09:15	Water	9
VM/AS-1	05/13/2003 08:35	Water	10
VM/AS-3	05/13/2003 09:00	Water	11

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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-1**	Lab ID:	2003-05-0393 - 1
Sampled:	05/13/2003 10:49	Extracted:	5/21/2003 10:56
Matrix:	Water	QC Batch#:	2003/05/21-1b.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	740	500	ug/L	10.00	05/21/2003 10:56	
Benzene	510	5.0	ug/L	10.00	05/21/2003 10:56	
Toluene	18	5.0	ug/L	10.00	05/21/2003 10:56	
Ethylbenzene	43	5.0	ug/L	10.00	05/21/2003 10:56	
Total xylenes	46	10	ug/L	10.00	05/21/2003 10:56	
Methyl tert-butyl ether (MTBE)	ND	50	ug/L	10.00	05/21/2003 10:56	
Surrogates(s)						
1,2-Dichloroethane-d4	96.3	76-130	%	10.00	05/21/2003 10:56	
Toluene-d8	99.2	78-115	%	10.00	05/21/2003 10:56	

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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-5**	Lab ID:	2003-05-0393 - 5
Sampled:	05/13/2003 12:04	Extracted:	5/21/2003 11:18
Matrix:	Water	QC Batch#:	2003/05/21-1b.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	30000	2500	ug/L	50.00	05/21/2003 11:18	
Benzene	2600	25	ug/L	50.00	05/21/2003 11:18	
Toluene	1500	25	ug/L	50.00	05/21/2003 11:18	
Ethylbenzene	850	25	ug/L	50.00	05/21/2003 11:18	
Total xylenes	4500	50	ug/L	50.00	05/21/2003 11:18	
Methyl tert-butyl ether (MTBE)	ND	250	ug/L	50.00	05/21/2003 11:18	
Surrogates(s)						
1,2-Dichloroethane-d4	101.9	76-130	%	50.00	05/21/2003 11:18	
Toluene-d8	99.5	78-115	%	50.00	05/21/2003 11:18	

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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-6	Lab ID:	2003-05-0393 - 6
Sampled:	05/13/2003 11:10	Extracted:	5/21/2003 11:41
Matrix:	Water	QC Batch#:	2003/05/21-1b.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/21/2003 11:41	
Benzene	ND	0.50	ug/L	1.00	05/21/2003 11:41	
Toluene	ND	0.50	ug/L	1.00	05/21/2003 11:41	
Ethylbenzene	ND	0.50	ug/L	1.00	05/21/2003 11:41	
Total xylenes	ND	1.0	ug/L	1.00	05/21/2003 11:41	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	05/21/2003 11:41	
Surrogates(s)						
1,2-Dichloroethane-d4	99.9	76-130	%	1.00	05/21/2003 11:41	
Toluene-d8	99.3	78-115	%	1.00	05/21/2003 11:41	

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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-7**	Lab ID:	2003-05-0393 - 7
Sampled:	05/13/2003 11:31	Extracted:	5/21/2003 12:03
Matrix:	Water	QC Batch#:	2003/05/21-1b.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1700	250	ug/L	5.00	05/21/2003 12:03	g
Benzene	550	2.5	ug/L	5.00	05/21/2003 12:03	
Toluene	ND	2.5	ug/L	5.00	05/21/2003 12:03	
Ethylbenzene	ND	2.5	ug/L	5.00	05/21/2003 12:03	
Total xylenes	ND	5.0	ug/L	5.00	05/21/2003 12:03	
Methyl tert-butyl ether (MTBE)	ND	25	ug/L	5.00	05/21/2003 12:03	
Surrogates(s)						
1,2-Dichloroethane-d4	104.1	76-130	%	5.00	05/21/2003 12:03	
Toluene-d8	100.6	78-115	%	5.00	05/21/2003 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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**VM/MW-2**	Lab ID:	2003-05-0393 - 8
Sampled:	05/13/2003 10:30	Extracted:	5/21/2003 11:40
Matrix:	Water	QC Batch#:	2003/05/21-1b.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1200	50	ug/L	1.00	05/21/2003 11:40	
Benzene	38	0.50	ug/L	1.00	05/21/2003 11:40	
Toluene	16	0.50	ug/L	1.00	05/21/2003 11:40	
Ethylbenzene	16	0.50	ug/L	1.00	05/21/2003 11:40	
Total xylenes	24	1.0	ug/L	1.00	05/21/2003 11:40	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	05/21/2003 11:40	
Surrogates(s)						
1,2-Dichloroethane-d4	101.4	76-130	%	1.00	05/21/2003 11:40	
Toluene-d8	100.7	78-115	%	1.00	05/21/2003 11:40	

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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**VM/MW-4**	Lab ID:	2003-05-0393 - 9
Sampled:	05/13/2003 09:15	Extracted:	5/21/2003 13:31
Matrix:	Water	QC Batch#:	2003/05/21-1b.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	3300	500	ug/L	10.00	05/21/2003 13:31	
Benzene	720	5.0	ug/L	10.00	05/21/2003 13:31	
Toluene	35	5.0	ug/L	10.00	05/21/2003 13:31	
Ethylbenzene	170	5.0	ug/L	10.00	05/21/2003 13:31	
Total xylenes	160	10	ug/L	10.00	05/21/2003 13:31	
Methyl tert-butyl ether (MTBE)	ND	50	ug/L	10.00	05/21/2003 13:31	
Surrogates(s)						
1,2-Dichloroethane-d4	102.2	76-130	%	10.00	05/21/2003 13:31	
Toluene-d8	97.5	78-115	%	10.00	05/21/2003 13:31	

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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**VM/AS-1**	Lab ID:	2003-05-0393-10
Sampled:	05/13/2003 08:35	Extracted:	5/21/2003 12:25
Matrix:	Water	QC Batch#:	2003/05/21-1b.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	9700	2500	ug/L	50.00	05/21/2003 12:25	
Benzene	2300	25	ug/L	50.00	05/21/2003 12:25	
Toluene	110	25	ug/L	50.00	05/21/2003 12:25	
Ethylbenzene	1100	25	ug/L	50.00	05/21/2003 12:25	
Total xylenes	140	50	ug/L	50.00	05/21/2003 12:25	
Methyl tert-butyl ether (MTBE)	ND	250	ug/L	50.00	05/21/2003 12:25	
Surrogates(s)						
1,2-Dichloroethane-d4	105.7	76-130	%	50.00	05/21/2003 12:25	
Toluene-d8	101.9	78-115	%	50.00	05/21/2003 12:25	

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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**VM/AS-3**	Lab ID:	2003-05-0393 - 11
Sampled:	05/13/2003 09:00	Extracted:	5/21/2003 12:47
Matrix:	Water	QC Batch#:	2003/05/21-1b.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	440	50	ug/L	1.00	05/21/2003 12:47	
Benzene	35	0.50	ug/L	1.00	05/21/2003 12:47	
Toluene	ND	0.50	ug/L	1.00	05/21/2003 12:47	
Ethylbenzene	17	0.50	ug/L	1.00	05/21/2003 12:47	
Total xylenes	ND	1.0	ug/L	1.00	05/21/2003 12:47	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	05/21/2003 12:47	
Surrogates(s)						
1,2-Dichloroethane-d4	105.3	76-130	%	1.00	05/21/2003 12:47	
Toluene-d8	100.5	78-115	%	1.00	05/21/2003 12:47	

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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/05/21-1b.64**

MB: 2003/05/21-1b.64-003 — Date Extracted: 05/21/2003 11:18

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/21/2003 11:18	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	05/21/2003 11:18	
Benzene	ND	0.5	ug/L	05/21/2003 11:18	
Toluene	ND	0.5	ug/L	05/21/2003 11:18	
Ethylbenzene	ND	0.5	ug/L	05/21/2003 11:18	
Total xylenes	ND	1.0	ug/L	05/21/2003 11:18	
Surrogates(s)					
1,2-Dichloroethane-d4	101.8	76-130	%	05/21/2003 11:18	
Toluene-d8	99.4	78-115	%	05/21/2003 11:18	

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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/05/21-1b.65-002

Water

Test(s): 8260FAB
QC Batch # 2003/05/21-1b.65
Date Extracted: 05/21/2003 10:11

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/21/2003 10:11	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	05/21/2003 10:11	
Benzene	ND	0.5	ug/L	05/21/2003 10:11	
Toluene	ND	0.5	ug/L	05/21/2003 10:11	
Ethylbenzene	ND	0.5	ug/L	05/21/2003 10:11	
Total xylenes	ND	1.0	ug/L	05/21/2003 10:11	
Surrogates(s)					
1,2-Dichloroethane-d4	101.6	76-130	%	05/21/2003 10:11	
Toluene-d8	97.0	78-115	%	05/21/2003 10:11	

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: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Laboratory Control Spike — **Water** — **QC Batch # 2003/05/21-1b.64**

LCS 2003/05/21-1b.64-002 — Extracted: 05/21/2003 — Analyzed: 05/21/2003 10:34

LCSD 2003/05/21-1b.64-001 — Extracted: 05/21/2003 — Analyzed: 05/21/2003 10:56

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	27.1	25.9	25	108.4	103.6	4.5	65-165	20		
Benzene	25.1	24.6	25	100.4	98.4	2.0	69-129	20		
Toluene	24.9	24.1	25	99.6	96.4	3.3	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	519	511	500	103.8	102.2		76-130			
Toluene-d8	504	503	500	100.8	100.6		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

Project: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2003/05/21-1b.65**

LCS 2003/05/21-1b.65-003 Extracted: 05/21/2003 Analyzed: 05/21/2003 09:26

LCSD 2003/05/21-1b.65-001 Extracted: 05/21/2003 Analyzed: 05/21/2003 09:48

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	36.3	35.8	25	145.2	143.2	1.4	65-165	20		
Benzene	27.7	27.5	25	110.8	110.0	0.7	69-129	20		
Toluene	26.3	26.8	25	105.2	107.2	1.9	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	525	508	500	105.0	101.6		76-130			
Toluene-d8	488	517	500	97.6	103.4		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

Project: BTS#030513-SS1
Shell Incident Number 97088250

Received: 05/14/2003 14:23

Site: 1230 14th Street, Oakland, CA

Legend and Notes

Analysis Flag

o

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

Result Flag

g

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

SHELL Chain Of Custody Record

74218

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

Shell Project Manager to be invoiced:

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

Karen Petryna

2003-05-0393

INCIDENT NUMBER (S&E ONLY): 9 7 0 8 8 2 5 0

SAP or CRMT NUMBER (TS/CRMT): [redacted]

DATE: 5/13/03
PAGE: 1 of 2

SAMPLING COMPANY	LOG CODE	SITE ADDRESS (Street and City)		GLOBAL ID NO.	
Blaine Tech Services	BTSS	1230 14th Street, Oakland		T0600101691	
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112		EDF DELIVERABLE TO (Responsible Party or Designee): Anni Kreml	PHONE NO.: 510-420-3335	E-MAIL: ShellOaklandEDF@cambria-env.com	CONSULTANT PROJECT NO.: BTS # 030513-SS1
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart		SAMPLER NAME(S) (Print): Suckeon Sung		LAB USE ONLY	
TELEPHONE: 408-573-0555	FAX: 408-573-7771	E-MAIL: lgearhart@blainetech.com			

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

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

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

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

REQUESTED ANALYSIS

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

TEMPERATURE ON RECEIPT C°: 3.2°C

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)		TPH - Diesel, Extractable (8015m)									Field Notes
	MW-1	5/13/03	1019	GW	3	X	X	X																	
	MW-2	↓	939	↓	↓	X	X	X																	
	MW-3		954			X	X	X																	
	MW-4		1010			X	X	X																	
	MW-5		1204			X	X	X																	
	MW-6		1110			X	X	X																	
	MW-7		1131			X	X	X																	
	VW/MW-2		1030			X	X	X																	
	VW/MW-4		915			X	X	X																	
	VW/AS-1	↓	835	↓	↓	X	X	X																	

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	[signature]	5/14/03	1423
[signature] 1656 5/14/03			
Relinquished by: (Signature)	Received by: (Signature) Nouna K. STL-SF	5/14/03	1656

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

10/16/00 Revision

SHELL Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be Involved: Karen Petryna

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

INCIDENT NUMBER (S&E ONLY): 9 7 0 8 8 2 5 0

SAP or CRMT NUMBER (TS/CRMT): 2003-05-0393

DATE: 5/13/03

PAGE: 2 of 2

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS (Street and City): 1230 14th Street, Oakland	GLOBAL ID NO.: T0600101691
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112			
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart		SOP DELIVERABLE TO (Person on Site, Party or Designee): Anni Kreml	PHONE NO.: 510-420-3335
TELEPHONE: 408-573-0555	FAX: 408-573-7771	E-MAIL: lgearhart@blainetech.com	E-MAIL: ShellOaklandEDF@cambria-env.com
		SAMPLER NAME(S) (Print): Sukeun Sung	CONSULTANT PROJECT NO.: BTS # 030513-551

TURNAROUND TIME (BUSINESS DAYS): ☒ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

GEOTRACKER EDF REQUIRED? ☐ YES ☐ NO

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

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

LAB USE ONLY

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)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	VW/AS-3	5/13/03	900	GW	3	X	X	X								TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date: 5/14/03	Time: 1423
Relinquished by: (Signature)	Received by: (Signature)	Date: 5/14/03	Time: 1650
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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

10/16/00 Revision

QSQ Graphic: (510) 559-3752

KIFF ANALYTICAL LLC

Report Number : 32171
Date : 3/24/2003

Leon Gearhart
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 3 Water Samples
Project Name : 1230 14th Street, Oakland
Project Number : 030313-RH2
P.O. Number : 97088250

Dear Mr. Gearhart,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 32171

Date : 3/24/2003

Project Name : **1230 14th Street, Oakland**

Project Number : **030313-RH2**

Sample : **MW-1** Matrix : Water Lab Number : 32171-01

Sample Date :3/13/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**340**	2.0	ug/L	EPA 8260B	3/18/2003
Toluene	**2.7**	2.0	ug/L	EPA 8260B	3/18/2003
Ethylbenzene	**< 2.0**	2.0	ug/L	EPA 8260B	3/18/2003
Total Xylenes	**3.2**	2.0	ug/L	EPA 8260B	3/18/2003
Methyl-t-butyl ether (MTBE)	**< 20**	20	ug/L	EPA 8260B	3/18/2003
TPH as Gasoline	**820**	200	ug/L	EPA 8260B	3/18/2003
Toluene - d8 (Surr)	96.5		% Recovery	EPA 8260B	3/18/2003
4-Bromofluorobenzene (Surr)	94.5		% Recovery	EPA 8260B	3/18/2003

Sample : **MW-5** Matrix : Water Lab Number : 32171-02

Sample Date :3/13/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**2800**	10	ug/L	EPA 8260B	3/19/2003
Toluene	**2200**	10	ug/L	EPA 8260B	3/19/2003
Ethylbenzene	**980**	10	ug/L	EPA 8260B	3/19/2003
Total Xylenes	**4600**	10	ug/L	EPA 8260B	3/19/2003
Methyl-t-butyl ether (MTBE)	**< 100**	100	ug/L	EPA 8260B	3/19/2003
TPH as Gasoline	**33000**	1000	ug/L	EPA 8260B	3/19/2003
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	3/19/2003
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	3/19/2003

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 32171

Date : 3/24/2003

Project Name : **1230 14th Street, Oakland**

Project Number : **030313-RH2**

Sample : **VW/AS-1** Matrix : Water Lab Number : 32171-03

Sample Date :3/13/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**2500**	10	ug/L	EPA 8260B	3/19/2003
Toluene	**55**	10	ug/L	EPA 8260B	3/19/2003
Ethylbenzene	**1800**	10	ug/L	EPA 8260B	3/19/2003
Total Xylenes	**170**	10	ug/L	EPA 8260B	3/19/2003
Methyl-t-butyl ether (MTBE)	**< 100**	100	ug/L	EPA 8260B	3/19/2003
TPH as Gasoline	**11000**	1000	ug/L	EPA 8260B	3/19/2003
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	3/19/2003
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	3/19/2003

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 32171

Date : 3/24/2003

QC Report : Method Blank Data

Project Name : **1230 14th Street, Oakland**

Project Number : **030313-RH2**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/19/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/19/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/19/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/19/2003
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	3/19/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/19/2003
Toluene - d8 (Surr)	99.4		%	EPA 8260B	3/19/2003
4-Bromofluorobenzene (Surr)	98.7		%	EPA 8260B	3/19/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St. Suite 300 Davis, CA 95616 530-297-4800

Report Number : 32171

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 3/24/2003

Project Name : **1230 14th Street, Oakland**

Project Number : **030313-RH2**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	32160-15	<0.50	39.5	40.4	38.2	39.2	ug/L	EPA 8260B	3/19/03	96.5	97.0	0.517	70-130	25
Toluene	32160-15	<0.50	39.5	40.4	37.5	38.6	ug/L	EPA 8260B	3/19/03	94.9	95.6	0.787	70-130	25
Tert-Butanol	32160-15	<5.0	198	202	181	187	ug/L	EPA 8260B	3/19/03	91.4	92.6	1.29	70-130	25
Methyl-t-Butyl Ether	32160-15	94	39.5	40.4	123	124	ug/L	EPA 8260B	3/19/03	74.4	75.8	1.86	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 32171

QC Report : Laboratory Control Sample (LCS)

Date : 3/24/2003

Project Name : **1230 14th Street, Oakland**

Project Number : **030313-RH2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	3/19/03	96.8	70-130
Toluene	40.0	ug/L	EPA 8260B	3/19/03	94.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/19/03	92.7	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/19/03	88.6	70-130

KIFF ANALYTICAL, LLC

Approved By: Joel Kiff

SHELL Chain Of Custody Record

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

Shell Project Manager to be invoiced:

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

Karen Petryna

32171

INCIDENT NUMBER (S&E ONLY): 9 7 0 8 8 2 5 0

SAP or CRMT NUMBER (TS/CRMT):

DATE: 3/13/03

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS (Street and City): 1230 14th Street, Oakland

GLOBAL ID NO.: T0600101691

ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112

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

PHONE NO.: 510-420-3335

E-MAIL: ShellOaklandEDF@cambria-env.com

CONSULTANT PROJECT NO.: BTS #030313-RH2

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

SAMPLER NAME(S) (Print): Ryan Hansteedt

TELEPHONE: 408-573-0555

FAX: 408-573-7771

E-MAIL: lgearhart@blainetech.com

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):

- [x] 10 DAYS
- [ ] 5 DAYS
- [ ] 72 HOURS
- [ ] 48 HOURS
- [ ] 24 HOURS
- [ ] LESS THAN 24 HOURS

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

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

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)		TPH - Diesel, Extractable (8015m)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes / TEMPERATURE ON RECEIPT C°
	MW-1	3/13/03	1317	GW	3	X	X	X									-01
	MW-5	↓	1347	↓	3	X	X	X									-02
	VW/AS-1	↓	1256	↓	3	X	X	X									-03

Relinquished by: (Signature) [signature]
Received by: (Signature)
Date:
Time:

Relinquished by: (Signature)
Received by: (Signature)
Date:
Time:

Relinquished by: (Signature)
Received by: (Signature) B. A. Brown Kiff Analytical
Date: 031403
Time: 1105

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

10/16/00 Revision

Q&Q Graphic (714) 898-9702

WELL GAUGING DATA

Project # 030407-GW-2 Date 4-7-03 Client Shell

Site 1230 14th St. 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	
MW-5	4					10.29	~~13.95~~ 19.70		
~~VW~~/MW-2	2					10.09	~~20.84~~ 22.21		
VW/AS-1	1					10.40	~~19.07~~ 19.63		
VW/AS-3	1					10.07	19.73		
VW/MW4	2					—	18.50		

WELL DEVELOPMENT DATA SHEET

Project #: 030407-DW-2	Client: Shell
Developer: Dave Walter	Date Developed: 4-7-03
Well I.D. MW-5	Well Diameter: (circle one) 2 3 (4) 6
Total Well Depth: Before 13.95 After 19.70	Depth to Water: Before 10.29 After 13.20
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
(12 x (d^2/4) x π) /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

2.4	X	10	=	24
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐

Type of Installed Pump _____
Other equipment used _____

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
13:45	67.9	6.9	977	>200	2.5	Surge-blocked - 0min - obstruction thick, silty, dk brown @ 15'
14:10	66.5	6.9	1048	>200	5.0	Agitated bottom w/ MB pump odor
14:25	65.5	6.6	1078	>200	7.5	
14:30	65.3	6.6	1051	>200	10.0	Almost to bottom
14:33	65.3	6.7	1045	>200	12.5	
14:35	65.1	6.7	1050	>200	15.0	hard bottom. Unable to
14:41	64.3	6.7	1062	>200	17.5	switch to ES because of
14:43	64.9	6.7	1058	>200	20.0	obstruction in well
14:45	65.1	6.7	1057	>200	22.5	
14:47	65.3	6.7	1083	>200	25	Hard bottom

Did Well Dewater? NO | If yes, note above. | Gallons Actually Evacuated: 25

WELL DEVELOPMENT DATA SHEET

roject #: 030407-MW-2	Client: Shell
)eveloper: Dave Walker	Date Developed: 4-7-03
Vell I.D. VW/MW-2	Well Diameter: (circle one) (2) 3 4 6 __
'otal Well Depth:	Depth to Water:
;efore 20.84 After 22.21	Before 10.09 After 10.60
.eason not developed:	If Free Product, thickness:
.dditional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
(12 x (d^2/4) x π) /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

1.7	X	10		17
1 Case Volume		Specified Volumes	=	gallons

urging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐

Type of Installed Pump _____
Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or (µS))	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
5:09	65.0	6.4	862	>200	1.7	surge block = 10 min soft bottom agitated bottom w/ MB pump
5:13	64.9	6.4	866	>200	3.4	Brown/silty
5:15	64.7	6.5	869	>200	5.1	
5:17	64.5	6.6	866	>200	6.8	Hard bottom
5:19	64.3	6.6	861	>200	8.5	
5:21	64.4	6.6	859	>200	10.2	
5:23	64.6	6.6	852	>200	11.9	
5:25	64.5	6.6	846	>200	13.6	lighter brown
5:27	64.1	6.7	842	>200	15.3	
5:29	64.4	6.6	840	>200	17.0	

d Well Dewater? No | If yes, note above. | Gallons Actually Evacuated: 17

WELL DEVELOPMENT DATA SHEET

Project #: 030407-OW-2	Client: Shell
Developer: Dave Walker	Date Developed: 4-7-03
Well I.D. VW/AS-1	Well Diameter: (circle one) 2 3 4 6 (1")
Total Well Depth: Before 19.02 After 19.63	Depth to Water: Before 10.40 After 10.95
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF): $(12 \times (d^2/4) \times \pi) / 231$

where
12 = In / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

1 Case Volume	X	Specified Volumes	=	gallons
0.3		10		3.0

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐

Type of Installed Pump _____
Other equipment used 5/8" tubing w/ check valve

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
15:48	64.5	6.9	1434	>200	0.3	gray / odor
15:48	64.8	6.8	1502	>200	0.6	silty
15:49	64.9	6.9	1518	>200	0.9	
15:49	65.2	6.9	1461	>200	1.2	
15:50	65.0	6.9	1502	>200	1.5	
15:50	65.1	6.9	1511	>200	1.8	
15:51	64.6	6.9	1508	>200	2.1	
15:52	64.8	6.9	1505	>200	2.4	
15:53	64.6	6.8	1505	>200	2.7	
15:54	64.5	6.8	1508	>200	3.0	

Did Well Dewater? NO | If yes, note above. | Gallons Actually Evacuated: 3

WELL GAUGING DATA

Project # 030313-RN2 Date 3/13/03 Client Shell

Site 1230 14th St, 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	Pre-purge DO
mw-1	2					10.45	20.87		2.8
mw-2	2					9.60	21.54		1.1
mw-3	2					9.84	19.34		1.2
mw-4	2					10.06	19.80		0.5
mw-5	4	gauged w/stinger in well				10.30	19.63		0.5
mw-6	4					10.66	19.62		5.5
mw-7	4					11.16	19.70		5.2
VW/mw-2	2					10.09	20.20		0.8
VW/mw-4	2					9.85	18.54		1.1
VW/AS-1	1 *					10.45	19.51		2.1
VW/AS-3	1 *					9.88	19.60		2.7

* out of hole DO Readings

SHELL WELL MONITORING DATA SHEET

TS #: 030313-RH2	Site: 1330 14th St, Oakland
ımpler: RyanH	Date: 3/13/03
'ell I.D.: mw-1	Well Diameter: (2) 3 4 6 8 ___
ɔtal Well Depth (TD): 20.87	Depth to Water (DTW): 10.45
epth to Free Product:	Thickness of Free Product (feet):
eferenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

TW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.53

rge Method:			Sampling Method:	
(Bailer)	Waterra		(Bailer)	
Disposable Bailer	Peristaltic		Disposable Bailer	
Middleburg	Extraction Pump		Extraction Port	
Electric Submersible	Other_____		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

1.75 (Gals.) X 3 = 5.25 Gals.
Case Volume | Specified Volumes | Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1307	63.1	7.5	771	>200	1.75	Slightly brown, Cloudy
1310	62.9	7.2	774	>200	3.5	" " "
1312	63.0	7.1	791	>200	5.25	" " "

id well dewater? Yes (No) Gallons actually evacuated: 5.25

ımpling Date: 3/13/03 Sampling Time: 1317 Depth to Water: 12.15

ımple I.D.: mw-1 Laboratory: (Kiff) SPL Other_____

nalyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

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

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

.O. (if req'd):	(Pre-purge):	7.8 mg/L	(Post-purge):	0.9 mg/L
.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

TS #: 030313-EH2	Site: 1230 14th St, Oakland
ampler: Ryan H	Date: 3/13/03
ell I.D.: mw-5	Well Diameter: 2 3 (4) 6 8 ____
otal Well Depth (TD): 19.63	Depth to Water (DTW): 10.30
epth to Free Product:	Thickness of Free Product (feet):
eferenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
TW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.17	

rge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, 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

6.0 (Gals.) X 3 = 18.0 Gals.
Case Volume — Specified Volumes — Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1330	65.0	6-8	1334	46.6	6.0	clear, odor
1331	64.6	6.7	1370	48.7	12.0	" "
1333	64.8	6.8	1423	>200	18.0	cloudy, odor

id well dewater? Yes (No) Gallons actually evacuated: 18.0

umpling Date: 3/13/03 Sampling Time: 1347 Depth to Water: 12.10

umple I.D.: mw-5 Laboratory: (Kiff) SPL Other_____

nalyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

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

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

.O. (if req'd):	(Pre-purge):	0.5 mg/L	(Post-purge):	0.3 mg/L
.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

TS #: 030313-RH2	Site: 1330 14th St, Oakland
mpler: RyanH	Date: 3/13/03
'ell I.D.: VW/AS-1	Well Diameter: 2 3 4 6 8 (1)
otal Well Depth (TD): 19.51	Depth to Water (DTW): 10.45
epth to Free Product:	Thickness of Free Product (feet):
eferenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
TW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.26	

rge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, ~~Extraction Pump~~, Other pin bailer

Sampling Method: Bailer, Disposable Bailer, Extraction Port, ~~Dedicated Tubing~~, Other: pin bailer

0.4 (Gals.) X 3 = 1.2 Gals.
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
1242	65.1	7.2	1339	114	0.4	turbid, odor
1246	65.7	6.9	1391	>200	0.8	cloudy, odor
1251	65.9	6.9	1396	>200	1.2	" "

id well dewater? Yes (No) Gallons actually evacuated: 1.2

umpling Date: 3/13/03 Sampling Time: 1256 Depth to Water: 10.56

umple I.D.: VW/AS-1 Laboratory: (Kiff) SPL Other

nalyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

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

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

.O. (if req'd):	Pre-purge:	2.1 mg/L	Post-purge:	~~mg/L~~ 1.9 mg/L	
.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

WELLHEAD INSPECTION CHECKLIST

Client Shell Date 4-7-03

Site Address 1230 14th St. Oakland

Job Number 030407-OW-2 Technician Dave Walker

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
mw-5								X
VW/mw-2	X							
VW/AS-1	X							
VW/AS-3	X							
VW/mw-4	X							

NOTES:

WELLHEAD INSPECTION CHECKLIST

lient Shell Date 3/13/03

te Address 1230 14th St, Oakland

ob Number 030313-RH2 Technician Ryan H

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
mw-1	X							
mw-2	X							
mw-3	X							
mw-4	X							
mw-5	X							
mw-6	X							
mw-7	X							
w/mw-2	X							
w/mw-4		X						
w/AS-1		X						
w/AS-3	X							

NOTES: VW/AS-1+
VW/AS-3 : just has a slip cap

WELL GAUGING DATA

Project # 030615-RH1 Date 6/13/03 Client Shell

Site 1230 14th St, 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	Pre purge DO
mw-1	2					11.16	21.05		0.3
mw-2	2					10.28	21.63		0.6
mw-3	2					10.58	18.80		0.4
mw-4	2					10.50	19.32		5.0
mw-5	4					11.00	19.73		0.3
mw-6	4					11.48	19.65		2.7
mw-7	4					11.90	19.73		1.8
vw/mw-2	2					10.80	21.91		0.2
vw/mw-4	2					10.55	18.47		0.3
vw/AS-1	~~2~~ 1					11.15	19.62		1.0
vw/AS-3	~~2~~ 1					10.77	19.75	√	1.1
* DO Readings taken out of hole									

SHELL WELL MONITORING DATA SHEET

BTS #: 050613-RM1	Site: 1230 49th St, Oakland
Sampler: Ryan H	Date: 6/13/03
Well I.D.: mw-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 21.05	Depth to Water (DTW): 11.16
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]: 13.04	

Purge Method: Bailer, Disposable Bailer, (Middleburg), Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

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

1 Case Volume		Specified Volumes		Calculated Volume
1.6	(Gals.) X	3	=	4.8 Gals.

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
946	64.2	6.7	845	>200	1.6	grey, cloudy
948	63.7	6.8	887	>200	3.2	cloudy
950	63.3	6.8	965	107	4.8	turbid

Did well dewater? Yes (No) Gallons actually evacuated: 4.8

Sampling Date: 6/13/03 Sampling Time: 955 Depth to Water: 12.15

Sample I.D.: mw-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): 0.3 mg/L	(Post-purge):	0.8	mg/L
O.R.P. (if req'd):	Pre-purge: mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030613-RH1	Site: 1230 19th St. Oakland
Sampler: Ryan H	Date: 6/13/03
Well I.D.: mw-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 21.63	Depth to Water (DTW): 10.28
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]: 12.53	

Purge Method: Bailer, Disposable Bailer, (Middleburg), Electric Submersible, Waterra, Peristaltic, Extraction Pump, 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

1.8 (Gals.) X 3 = 5.4 Gals.
1 Case Volume — Specified Volumes — Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
925	63.3	6.7	828	>200	1.8	brown, cloudy
927	65.0	6.7	790	>200	3.6	" "
930	65.4	6.7	767	>200	5.4	" "

Did well dewater? Yes (No) Gallons actually evacuated: 5.4

Sampling Date: 6/13/03 Sampling Time: 935 Depth to Water: 11.20

Sample I.D.: mw-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):	0.6 mg/L	(Post-purge):	0.9	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030628-241	Site: 1230 19th St, Oakland
Sampler: Ryan H	Date: 6/13/03
Well I.D.: mw-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 18.80	Depth to Water (DTW): 10.58
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]: 12.22	

Purge Method: Bailer / Disposable Bailer / (Middleburg) / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

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

1.3 (Gals.) X 3 = 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 (µS))	Turbidity (NTUs)	Gals. Removed	Observations
902	64.8	6.6	911	>200	1.3	slightly brown, cloudy
904	64.9	6.5	900	190	2.6	turbid
906	64.9	6.5	894	137	3.9	½

Did well dewater? Yes (No) Gallons actually evacuated: 3.9

Sampling Date: 6/13/03 Sampling Time: 911 Depth to Water: 11.70

Sample I.D.: mw-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):	0.4 mg/L	(Post-purge):	1.3 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030613-EM1	Site: 1230 14th St, Oakland
Sampler: Ryan H	Date: 6/13/03
Well I.D.: mw-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 19.32	Depth to Water (DTW): 10.50
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.26	

Purge Method: Bailer, Disposable Bailer, (Middleburg), Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other____

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

1 Case Volume	Specified Volumes	Calculated Volume
1.4 (Gals.) X	3	= 4.2 Gals.

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
843	63.3	7.4	271	>200	1.4	brown, cloudy
845	65.0	7.1	239	>200	2.8	" "
847	65.2	7.1	232	>200	4.2	" "

Did well dewater? Yes (No) Gallons actually evacuated: 4.2

Sampling Date: 6/13/03 Sampling Time: 852 Depth to Water: 11.35

Sample I.D.: mw-4 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):	5.0 mg/L	(Post-purge):	5.6	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030613-RM1	Site: 1230 14th St, Oakland
Sampler: Ryan H	Date: 6/13/03
Well I.D.: mw-5	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 19.73	Depth to Water (DTW): 11.00
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]: 12.75	

Purge Method: Bailer; Disposable Bailer; (Middleburg); Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

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

5.7 (Gals.) X	3	=	17.1 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
1052	64.4	6.7	1591	101	5.7	turbid, odor
1059	64.8	6.7	1607	190	11.4	" "
1106	64.9	6.7	1594	>200	17.1	cloudy, odor
Possible well obstruction. Used MB pump instead of ES.						

Did well dewater? Yes (No) Gallons actually evacuated: 17.1

Sampling Date: 6/13/03 Sampling Time: 1116 Depth to Water: 12.75

Sample I.D.: mw-5 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):	0.3 mg/L	(Post-purge):	0.3 mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 030613-SM1	Site: 1250 14th St, Oakland
Sampler: Ryan H	Date: 6/13/03
Well I.D.: MW-6	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 19.65	Depth to Water (DTW): 11.48
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]: 13.11	

Purge Method: Bailer; Disposable Bailer; Middleburg; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other____

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

1 Case Volume		Specified Volumes		Calculated Volume
5.3	(Gals.) X	3	=	15.9 Gals.

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1125	63.3	6.8	862	75	5.3	clear, [redacted]
1126	62.9	6.7	653	>200	10.6	cloudy
1127	62.8	6.6	585	>200	15.9	"

Did well dewater? Yes (No) Gallons actually evacuated: 15.9

Sampling Date: 6/13/03 Sampling Time: 1137 Depth to Water: 13.10

Sample I.D.: MW-6 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):	2.7 mg/L	(Post-purge):	3.1 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030613-EM1	Site: 1230 14th St, Oakland
Sampler: Ryan H	Date: 6/13/03
Well I.D.: mw-7	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 19.73	Depth to Water (DTW): 11.90
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]: 13.47	

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

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

5.0 (Gals.) X	3	=	15.0 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
1143	64.0	6.7	787	53	5.0	clear
1144	63.9	6.7	596	68	10.0	"
1145	63.9	6.7	654	132	15.0	turb'd

Did well dewater? Yes (No) Gallons actually evacuated: 15.0

Sampling Date: 6/13/03 Sampling Time: 1153 Depth to Water: 13.45

Sample I.D.: mw-7 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):	1.8	mg/L	(Post-purge):	1.6 mg/L
O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030613-EM1	Site: 1730 19th St, Oakland
Sampler: Ryan H	Date: 6/13/03
Well I.D.: VW/MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 21.91	Depth to Water (DTW): 10.80
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]: 13.02	

Purge Method: Bailer, Disposable Bailer, (Middleburg), Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other____

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

1.8 (Gals.) X 3 = 5.4 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
1007	64.4	6.8	890	>200	1.8	cloudy
1009	64.6	6.7	878	>200	3.6	"
1012	64.7	6.7	877	>200	5.4	"

Did well dewater? Yes (No) Gallons actually evacuated: 5.4

Sampling Date: 6/13/03 Sampling Time: 1017 Depth to Water: 12.24

Sample I.D.: VW/MW-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):	0.2 mg/L	(Post-purge):	0.5 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 303613-EM1	Site: 1230 14th St, Oakland
Sampler: Ryan H	Date: 6/13/03
Well I.D.: VW/MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 15.47	Depth to Water (DTW): 10.55
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]: 12.13	

Purge Method: Bailer, Disposable Bailer, (Middleburg), Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other____

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

1.3 (Gals.) X 3 = 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 (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1026	64.7	6.7	1170	>200	1.3	grey, cloudy, odor
1028	65.1	6.7	1184	187	2.6	turbid, slight odor
1030	65.1	6.7	1194	90	3.9	" " "

Did well dewater? Yes (No) Gallons actually evacuated: 3.9

Sampling Date: 6/13/03 Sampling Time: 1035 Depth to Water: 11.83

Sample I.D.: VW/MW-4 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):	0.3 mg/L	(Post-purge):	0.3 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030613-EH1	Site: 1230 19th St, Oakland
Sampler: Ryan H	Date: 6/13/03
Well I.D.: VW/AS-1	Well Diameter: 2 3 4 6 8 (1)
Total Well Depth (TD): 19.62	Depth to Water (DTW): 11.15
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.84	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other 5/8" tubing w/ check valve

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, Other: 5/8" tubing w/ check valve

1 Case Volume	Specified Volumes	Calculated Volume
0.3 (Gals.) X	3	= 0.9 Gals.

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
815	66.0	6.8	1390	>200	0.3	dark grey, cloudy, odor
817	65.4	6.8	1420	>200	0.6	" " "
820	65.0	6.9	1422	>200	0.9	" " "

Did well dewater? Yes (No) Gallons actually evacuated: 0.9

Sampling Date: 6/13/03 Sampling Time: 825 Depth to Water: 11.43

Sample I.D.: VW/AS-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):	1.0 mg/L	(Post-purge):	0.5 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 03CB-2441	Site: 1230 19th St, Oakland
Sampler: Cyan H	Date: 6/13/03
Well I.D.: VW/AS-3	Well Diameter: 2 3 4 6 8 (1)
Total Well Depth (TD): 19.75	Depth to Water (DTW): 10.77
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]: 12.57	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other 5/8" tubing w/ check valve

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, Other: 5/8" tubing w/ check valve

0.4 (Gals.) X	3	=	1.2 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
800	65.0	6.3	1152	>200	0.4	grey, cloudy, odor
802	65.4	6.5	1136	>200	0.8	" " "
805	65.0	6.6	1119	>200	1.2	" " "

Did well dewater? Yes (No) Gallons actually evacuated: 1.2

Sampling Date: 6/13/03 Sampling Time: 810 Depth to Water: 11.15

Sample I.D.: VW/AS-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):	1.1 mg/L	(Post-purge):	0.6	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SEVERN TRENT STL

Submission#: 2003-06-0459

Blaine Tech Services, Inc.

June 26, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

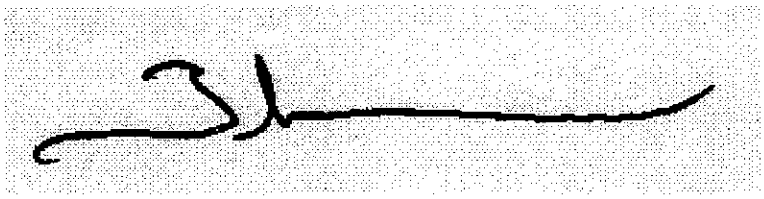
Project#: 030613-RH1
Project: 97088250
Site: 1230 14th Street, Oakland

Dear Mr.Gearhart,

Attached is our report for your samples received on 06/13/2003 15:01
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 07/28/2003 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

SEVERN TRENT STL

Submission #: 2003-06-0459

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: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	06/13/2003 09:55	Water	1
MW-2	06/13/2003 09:35	Water	2
MW-3	06/13/2003 09:11	Water	3
MW-4	06/13/2003 08:52	Water	4
MW-5	06/13/2003 11:16	Water	5
MW-6	06/13/2003 11:37	Water	6
MW-7	06/13/2003 11:53	Water	7
VW/MW-2	06/13/2003 10:17	Water	8
VW/MW-4	06/13/2003 10:35	Water	9
VW/AS-1	06/13/2003 08:25	Water	10
VW/AS-3	06/13/2003 08:10	Water	11

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: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-1	Lab ID:	2003-06-0459 - 1
Sampled:	06/13/2003 09:55	Extracted:	6/25/2003 18:51
Matrix:	Water	QC Batch#:	2003/06/25-1g.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	5000	ug/L	100.00	06/25/2003 18:51	
Benzene	1500	50	ug/L	100.00	06/25/2003 18:51	
Toluene	82	50	ug/L	100.00	06/25/2003 18:51	
Ethylbenzene	180	50	ug/L	100.00	06/25/2003 18:51	
Total xylenes	250	100	ug/L	100.00	06/25/2003 18:51	
Methyl tert-butyl ether (MTBE)	ND	500	ug/L	100.00	06/25/2003 18:51	
Surrogates(s)						
1,2-Dichloroethane-d4	108.7	76-130	%	100.00	06/25/2003 18:51	
Toluene-d8	96.5	78-115	%	100.00	06/25/2003 18:51	

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

Blaine Tech Services, Inc.

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Project: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-2**	Lab ID:	2003-06-0459 - 2
Sampled:	06/13/2003 09:35	Extracted:	6/25/2003 19:13
Matrix:	Water	QC Batch#:	2003/06/25-1g.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/25/2003 19:13	
Benzene	ND	0.50	ug/L	1.00	06/25/2003 19:13	
Toluene	ND	0.50	ug/L	1.00	06/25/2003 19:13	
Ethylbenzene	ND	0.50	ug/L	1.00	06/25/2003 19:13	
Total xylenes	ND	1.0	ug/L	1.00	06/25/2003 19:13	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	06/25/2003 19:13	
Surrogates(s)						
1,2-Dichloroethane-d4	110.8	76-130	%	1.00	06/25/2003 19:13	
Toluene-d8	96.8	78-115	%	1.00	06/25/2003 19:13	

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

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Project: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-3**	Lab ID:	2003-06-0459 - 3
Sampled:	06/13/2003 09:11	Extracted:	6/25/2003 19:36
Matrix:	Water	QC Batch#:	2003/06/25-1g.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/25/2003 19:36	
Benzene	ND	0.50	ug/L	1.00	06/25/2003 19:36	
Toluene	ND	0.50	ug/L	1.00	06/25/2003 19:36	
Ethylbenzene	ND	0.50	ug/L	1.00	06/25/2003 19:36	
Total xylenes	ND	1.0	ug/L	1.00	06/25/2003 19:36	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	06/25/2003 19:36	
Surrogates(s)						
1,2-Dichloroethane-d4	112.0	76-130	%	1.00	06/25/2003 19:36	
Toluene-d8	97.8	78-115	%	1.00	06/25/2003 19:36	

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: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-4**	Lab ID:	2003-06-0459 - 4
Sampled:	06/13/2003 08:52	Extracted:	6/25/2003 19:58
Matrix:	Water	QC Batch#:	2003/06/25-1g.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/25/2003 19:58	
Benzene	ND	0.50	ug/L	1.00	06/25/2003 19:58	
Toluene	ND	0.50	ug/L	1.00	06/25/2003 19:58	
Ethylbenzene	ND	0.50	ug/L	1.00	06/25/2003 19:58	
Total xylenes	ND	1.0	ug/L	1.00	06/25/2003 19:58	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	06/25/2003 19:58	
Surrogates(s)						
1,2-Dichloroethane-d4	101.0	76-130	%	1.00	06/25/2003 19:58	
Toluene-d8	92.2	78-115	%	1.00	06/25/2003 19:58	

SEVERN TRENT STL

Submission #: 2003-06-0459

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: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-5**	Lab ID:	2003-06-0459 - 5
Sampled:	06/13/2003 11:16	Extracted:	6/25/2003 20:20
Matrix:	Water	QC Batch#:	2003/06/25-1g.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	33000	5000	ug/L	100.00	06/25/2003 20:20	
Benzene	3400	50	ug/L	100.00	06/25/2003 20:20	
Toluene	2300	50	ug/L	100.00	06/25/2003 20:20	
Ethylbenzene	1000	50	ug/L	100.00	06/25/2003 20:20	
Total xylenes	4400	100	ug/L	100.00	06/25/2003 20:20	
Methyl tert-butyl ether (MTBE)	ND	500	ug/L	100.00	06/25/2003 20:20	
Surrogates(s)						
1,2-Dichloroethane-d4	117.1	76-130	%	100.00	06/25/2003 20:20	
Toluene-d8	95.9	78-115	%	100.00	06/25/2003 20:20	

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: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Prep(s):	5030B	*Test(s):*	8260FAB
Sample ID:	**MW-6**	Lab ID:	2003-06-0459 - 6
Sampled:	06/13/2003 11:37	Extracted:	6/25/2003 22:33
Matrix:	Water	QC Batch#:	2003/06/25-02.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/25/2003 22:33	
Benzene	ND	0.50	ug/L	1.00	06/25/2003 22:33	
Toluene	ND	0.50	ug/L	1.00	06/25/2003 22:33	
Ethylbenzene	ND	0.50	ug/L	1.00	06/25/2003 22:33	
Total xylenes	ND	1.0	ug/L	1.00	06/25/2003 22:33	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	06/25/2003 22:33	
Surrogates(s)						
1,2-Dichloroethane-d4	108.7	76-130	%	1.00	06/25/2003 22:33	
Toluene-d8	92.7	78-115	%	1.00	06/25/2003 22:33	

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: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-7**	Lab ID:	2003-06-0459 - 7
Sampled:	06/13/2003 11:53	Extracted:	6/26/2003 10:54
Matrix:	Water	QC Batch#:	2003/06/26-1a.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1500	250	ug/L	5.00	06/26/2003 10:54	g
Benzene	470	2.5	ug/L	5.00	06/26/2003 10:54	
Toluene	ND	2.5	ug/L	5.00	06/26/2003 10:54	
Ethylbenzene	ND	2.5	ug/L	5.00	06/26/2003 10:54	
Total xylenes	ND	5.0	ug/L	5.00	06/26/2003 10:54	
Methyl tert-butyl ether (MTBE)	ND	25	ug/L	5.00	06/26/2003 10:54	
Surrogates(s)						
1,2-Dichloroethane-d4	95.2	76-130	%	5.00	06/26/2003 10:54	
Toluene-d8	94.2	78-115	%	5.00	06/26/2003 10:54	

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: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	VW/MW-2	Lab ID:	2003-06-0459-8
Sampled:	06/13/2003 10:17	Extracted:	6/25/2003 23:17
Matrix:	Water	QC Batch#:	2003/06/25-02.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	9600	2500	ug/L	50.00	06/25/2003 23:17	
Benzene	1300	25	ug/L	50.00	06/25/2003 23:17	
Toluene	1100	25	ug/L	50.00	06/25/2003 23:17	
Ethylbenzene	440	25	ug/L	50.00	06/25/2003 23:17	
Total xylenes	890	50	ug/L	50.00	06/25/2003 23:17	
Methyl tert-butyl ether (MTBE)	ND	250	ug/L	50.00	06/25/2003 23:17	
Surrogates(s)						
1,2-Dichloroethane-d4	108.6	76-130	%	50.00	06/25/2003 23:17	
Toluene-d8	96.5	78-115	%	50.00	06/25/2003 23:17	

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: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**VW/MW-4**	Lab ID:	2003-06-0459 - 9
Sampled:	06/13/2003 10:35	Extracted:	6/25/2003 23:39
Matrix:	Water	QC Batch#:	2003/06/25-02.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	8200	2500	ug/L	50.00	06/25/2003 23:39	
Benzene	1700	25	ug/L	50.00	06/25/2003 23:39	
Toluene	220	25	ug/L	50.00	06/25/2003 23:39	
Ethylbenzene	460	25	ug/L	50.00	06/25/2003 23:39	
Total xylenes	790	50	ug/L	50.00	06/25/2003 23:39	
Methyl tert-butyl ether (MTBE)	ND	250	ug/L	50.00	06/25/2003 23:39	
Surrogates(s)						
1,2-Dichloroethane-d4	119.6	76-130	%	50.00	06/25/2003 23:39	
Toluene-d8	94.6	78-115	%	50.00	06/25/2003 23:39	

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: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**VW/AS-1**	Lab ID:	2003-06-0459 - 10
Sampled:	06/13/2003 08:25	Extracted:	6/26/2003 00:01
Matrix:	Water	QC Batch#:	2003/06/25-02.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	9300	5000	ug/L	100.00	06/26/2003 00:01	
Benzene	2300	50	ug/L	100.00	06/26/2003 00:01	
Toluene	77	50	ug/L	100.00	06/26/2003 00:01	
Ethylbenzene	820	50	ug/L	100.00	06/26/2003 00:01	
Total xylenes	ND	100	ug/L	100.00	06/26/2003 00:01	
Methyl tert-butyl ether (MTBE)	ND	500	ug/L	100.00	06/26/2003 00:01	
Surrogates(s)						
1,2-Dichloroethane-d4	118.8	76-130	%	100.00	06/26/2003 00:01	
Toluene-d8	93.5	78-115	%	100.00	06/26/2003 00:01	

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: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**VW/AS-3**	Lab ID:	2003-06-0459 - 11
Sampled:	06/13/2003 08:10	Extracted:	6/26/2003 11:16
Matrix:	Water	QC Batch#:	2003/06/26-1a.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	580	250	ug/L	5.00	06/26/2003 11:16	
Benzene	71	2.5	ug/L	5.00	06/26/2003 11:16	
Toluene	ND	2.5	ug/L	5.00	06/26/2003 11:16	
Ethylbenzene	40	2.5	ug/L	5.00	06/26/2003 11:16	
Total xylenes	ND	5.0	ug/L	5.00	06/26/2003 11:16	
Methyl tert-butyl ether (MTBE)	ND	25	ug/L	5.00	06/26/2003 11:16	
Surrogates(s)						
1,2-Dichloroethane-d4	99.8	76-130	%	5.00	06/26/2003 11:16	
Toluene-d8	95.8	78-115	%	5.00	06/26/2003 11:16	

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: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/06/25-02.64**

MB: 2003/06/25-02.64-053 — Date Extracted: 06/25/2003 21:26

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/25/2003 21:26	
Benzene	ND	0.5	ug/L	06/25/2003 21:26	
Toluene	ND	0.5	ug/L	06/25/2003 21:26	
Ethylbenzene	ND	0.5	ug/L	06/25/2003 21:26	
Total xylenes	ND	1.0	ug/L	06/25/2003 21:26	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	06/25/2003 21:26	
Surrogates(s)					
1,2-Dichloroethane-d4	99.6	76-130	%	06/25/2003 21:26	
Toluene-d8	95.6	78-115	%	06/25/2003 21:26	

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: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/06/25-1g.64**

MB: 2003/06/25-1g.64-003 — Date Extracted: 06/25/2003 10:52

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/25/2003 10:52	
Benzene	ND	0.5	ug/L	06/25/2003 10:52	
Toluene	ND	0.5	ug/L	06/25/2003 10:52	
Ethylbenzene	ND	0.5	ug/L	06/25/2003 10:52	
Total xylenes	ND	1.0	ug/L	06/25/2003 10:52	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	06/25/2003 10:52	
Surrogates(s)					
1,2-Dichloroethane-d4	97.2	76-130	%	06/25/2003 10:52	
Toluene-d8	93.4	78-115	%	06/25/2003 10:52	

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: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/06/26-1a.64**

MB: 2003/06/26-1a.64-003 — Date Extracted: 06/26/2003 10:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/26/2003 10:24	
Benzene	ND	0.5	ug/L	06/26/2003 10:24	
Toluene	ND	0.5	ug/L	06/26/2003 10:24	
Ethylbenzene	ND	0.5	ug/L	06/26/2003 10:24	
Total xylenes	ND	1.0	ug/L	06/26/2003 10:24	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	06/26/2003 10:24	
Surrogates(s)					
1,2-Dichloroethane-d4	101.2	76-130	%	06/26/2003 10:24	
Toluene-d8	94.4	78-115	%	06/26/2003 10:24	

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: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Laboratory Control Spike — **Water** — **QC Batch # 2003/06/25-02.64**

LCS 2003/06/25-02.64-052 — Extracted: 06/25/2003 — Analyzed: 06/25/2003 20:42
LCSD 2003/06/25-02.64-001 — Extracted: 06/25/2003 — Analyzed: 06/25/2003 21:04

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	23.5	23.8	25.0	94.0	95.2	1.3	69-129	20		
Toluene	23.3	24.5	25.0	93.2	98.0	5.0	70-130	20		
Methyl tert-butyl ether (MTBE)	27.2	27.9	25.0	108.8	111.6	2.5	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	492	513	500	98.4	102.6		76-130	0		
Toluene-d8	476	489	500	95.2	97.8		78-115	0		

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: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Laboratory Control Spike — **Water** — **QC Batch # 2003/06/25-1g.64**

LCS 2003/06/25-1g.64-002 — Extracted: 06/25/2003 — Analyzed: 06/25/2003 10:08

LCSD 2003/06/25-1g.64-001 — Extracted: 06/25/2003 — Analyzed: 06/25/2003 10:30

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	22.2	23.0	25	88.8	92.0	3.5	69-129	20		
Toluene	22.2	23.1	25	88.8	92.4	4.0	70-130	20		
Methyl tert-butyl ether (MTBE)	26.6	26.4	25	106.4	105.6	0.8	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	517	489	500	103.4	97.8		76-130			
Toluene-d8	474	474	500	94.8	94.8		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

Project: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2003/06/26-1a.64**

LCS 2003/06/26-1a.64-002 Extracted: 06/26/2003 Analyzed: 06/26/2003 09:40

LCSD 2003/06/26-1a.64-001 Extracted: 06/26/2003 Analyzed: 06/26/2003 10:02

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	22.9	23.2	25	91.6	92.8	1.3	69-129	20		
Toluene	23.2	23.1	25	92.8	92.4	0.4	70-130	20		
Methyl tert-butyl ether (MTBE)	26.6	28.2	25	106.4	112.8	5.8	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	506	531	500	101.2	106.2		76-130			
Toluene-d8	480	493	500	96.0	98.6		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

Project: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Matrix Spike (MS / MSD) — **Water** — **QC Batch # 2003/06/25-02.64**

MW-6 >> MS — Lab ID: 2003-06-0459 - 006

MS: 2003/06/25-02.64-050 — Extracted: 06/25/2003 — Analyzed: 06/25/2003 21:48 — Dilution: 1.00

MSD: 2003/06/25-02.64-051 — Extracted: 06/25/2003 — Analyzed: 06/25/2003 22:11 — Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	22.5	22.7	ND	25.0	90.0	90.8	0.9	69-129	20		
Toluene	23.1	23.3	ND	25.0	92.4	93.2	0.9	70-130	20		
Methyl tert-butyl ether	26.1	26.2	ND	25.0	104.4	104.8	0.4	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	491	503		500	98.2	100.6		76-130			
Toluene-d8	489	479		500	97.9	95.8		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

Project: 030613-RH1
97088250

Received: 06/13/2003 15:01

Site: 1230 14th Street, Oakland

Legend and Notes

Analysis Flag

o

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

Result Flag

g

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

LAB: STL

Lab Identification (if necessary):

Address:

City, State, Zip:

SHELL Chain Of Custody Record

75134

Shell Project Manager to be invoiced:

☒ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

Karen Petryna

2003-06-0459

INCIDENT NUMBER (S&E ONLY): 9 7 0 8 8 2 6 0

SAP or CRMT NUMBER (TS/CRMT):

DATE: 6/13/03

PAGE: 1 of 2

SAMPLING COMPANY	LOG CODE	SITE ADDRESS (Street and City)	GLOBAL ID NO.
Blaine Tech Services	BTSS	1230 14th Street, Oakland	T0600101691

ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112

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

TELEPHONE: 408-573-0555 FAX: 408-573-7771 E-MAIL: lgearhart@blainetech.com

EDF DELIVERABLE TO (Responsible Party or Designee): Anni Kreml PHONE NO.: 510-420-3335 E-MAIL: ShellOaklandEDF@cambria-env.com CONSULTANT PROJECT NO.: BTS # 030613-RH1

SAMPLER NAME(S) (Print): Ryan Hamstadt

LAB USE ONLY:

TURNAROUND TIME (BUSINESS DAYS): ☒ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: ______

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

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	DATE	TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)										FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-1	6/13/03	955	GW	3	X	X	X																	
	MW-2	↓	935	↓	↓	X	X	X																	
	MW-3		911			X	X	X																	
	MW-4		852			X	X	X																	
	MW-5		1116			X	X	X																	
	MW-6		1137			X	X	X																	
	MW-7		1153			X	X	X																	
	VW/MW-2		1017			X	X	X																	
	VW/MW-4		1035			X	X	X																	
	VW/AS-1		825			X	X	X																	

TEMPERATURE ON RECEIPT C°: 2.4°C

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	6/13/03	1501
[signature] 6/13/03 1804			
	Denise Harrington / STL-SF	6/13/03	1803

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

10/16/00 Revision

QAQ Graphic (714) 898-9702

LAB: STL

Lab Identification (if necessary):

Address:

City, State, Zip

SHELL Chain Of Custody Record

75134

Shell Project Manager to be invoiced:

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

Karen Petryna

2003-06-0459

INCIDENT NUMBER (S&E ONLY): 9 7 0 8 8 2 5 0

SAP or CRMT NUMBER (TS/CRMT):

DATE: 6/13/03

PAGE: 2 of 2

SAMPLING COMPANY	LOG CODE	SITE ADDRESS (Street and City)	GLOBAL ID NO.
Blaine Tech Services	BTSS	1230 14th Street, Oakland	T0600101691

ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112

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

TELEPHONE: 408-573-0555 | FAX: 408-573-7771 | E-MAIL: lgearhart@blainetech.com

EDF DELIVERABLE TO (Responsible Party or Designee): Anni Kreml | PHONE NO.: 510-420-3335 | E-MAIL: ShellOaklandEDF@cambria-env.com | CONSULTANT PROJECT NO.: BTS # 030613-RH1

SAMPLER NAME(S) (Print): Ryan Hamstedt

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):

- [x] 10 DAYS
- [ ] 5 DAYS
- [ ] 72 HOURS
- [ ] 48 HOURS
- [ ] 24 HOURS
- [ ] LESS THAN 24 HOURS

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

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

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)										FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-19S-3	6/13/03	810	GW	3	x	x	x																	

TEMPERATURE ON RECEIPT C°: 2.4°C

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	6/13/03	1801
[signature] 6/13/03 1803			
	Denise Harrington /STL-SF	6/13/03	1803

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