RO433

Shell Oil Products US

July 21, 2004

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 *First Quarter 2004 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

20945 S. Wilmington Ave., Carson, CA 90810 Phone (559) 645-9306 Facsimile (559) 645-5643

CAMBRIA

July 21, 2004

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

Re: **First Quarter 2004 Monitoring Report**
Former Shell Service Station
1230 14th Street
Oakland, California
Incident #97088250
Cambria Project #246-0233-002

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.

REMEDIATION SUMMARY

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 was discontinued on September 19, 2002 when dual-phase vapor extraction (DVE) began.

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. Cambria re-started monthly DVE on November 10, 2003, and continued monthly DVE events until April 28, 2004, when DVE was discontinued.

To date combined GWE and DVE have removed approximately 5.5 pounds of liquid-phase hydrocarbons, and DVE has removed approximately 5.6 pounds of vapor-phase hydrocarbons from the subsurface (Tables 1 and 2).

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

Cambria Environmental Technology, Inc.

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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.

Cambria reviewed the subsequent monitoring results, and compared the technique used by Fast-Tek to deliver peroxide to the subsurface with the technique used by Rejuvenate Groundbreaking Solutions, Inc. (Rejuvenate) of San Rafael, California. Based on our experience and Rejuvenate's reported success at other sites, the field test proceeded using Rejuvenate. Injection points were installed on September 11, 2003 and a second phase of peroxide injection was conducted from September 22 through 25, 2003. Confirmation groundwater samples were collected on September 29, 2003, and soil and grab groundwater samples were collected on November 7, 2003. Cambria reviewed these results and the subsequent groundwater monitoring results to determine whether further peroxide treatment would be beneficial for the site.

FIRST QUARTER 2004 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). Blaine's report, with supporting field notes and laboratory reports, is included as Attachment A.

DVE: Cambria continued monthly DVE until April 28, 2004.

Corrective Action Implementation: As noted above, Cambria reviewed the data gathered during and following the September peroxide treatment and subsequent groundwater monitoring events, and determined that additional applications of hydrogen peroxide treatment is not warranted for the site.

ANTICIPATED SECOND QUARTER 2004 ACTIVITIES

Groundwater Monitoring: Blaine will gauge and sample all wells, measure DO concentrations, and tabulate the data. Cambria will prepare a monitoring report.

Remedial Action Report: As noted above, Cambria reviewed the data gathered during and following the September 2003 hydrogen peroxide treatment and determined that further hydrogen peroxide treatment is not warranted for the site. The hydrogen peroxide injection treatment is now complete, and Cambria will submit a remediation report under separate cover during the third quarter 2004. The report will include information on the hydrogen peroxide treatment and the verification sampling already conducted. Following submittal of the remedial action report, Cambria will prepare and submit a report updating the site conceptual model and Tier 2 RBCA risk analysis, based on current data.

CLOSING

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

Sincerely,
Cambria Environmental Technology, Inc

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

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

Tables: 1 - Groundwater Extraction – Mass Removal Data
2- Vapor Extraction – Mass Removal Data

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810
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

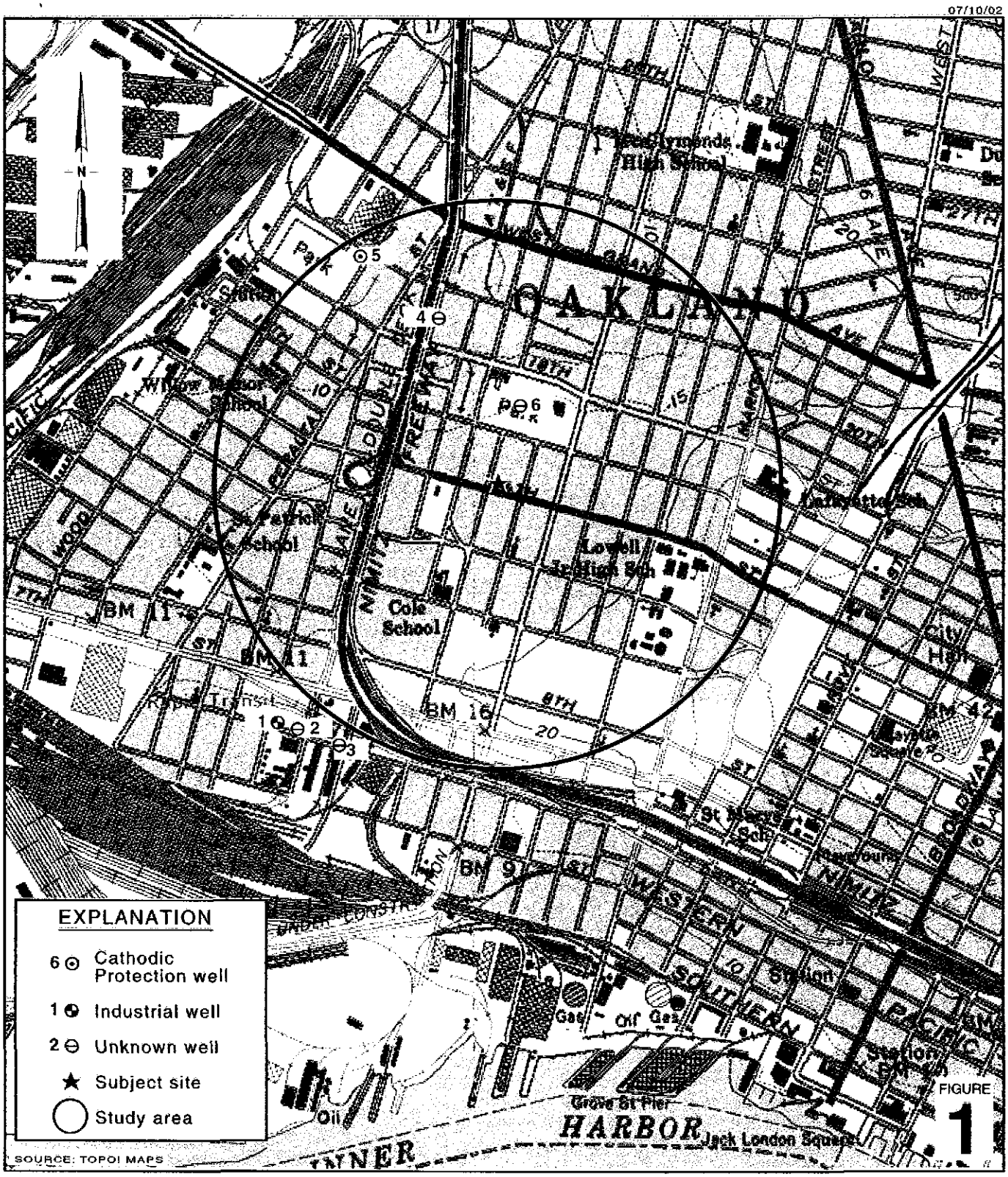

FIGURE 1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

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

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

EXPLANATION

- S-18 ◉ Confirmation soil boring (11/07/03)
- P-1 • Peroxide injection port (9/22-25/03)
- 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

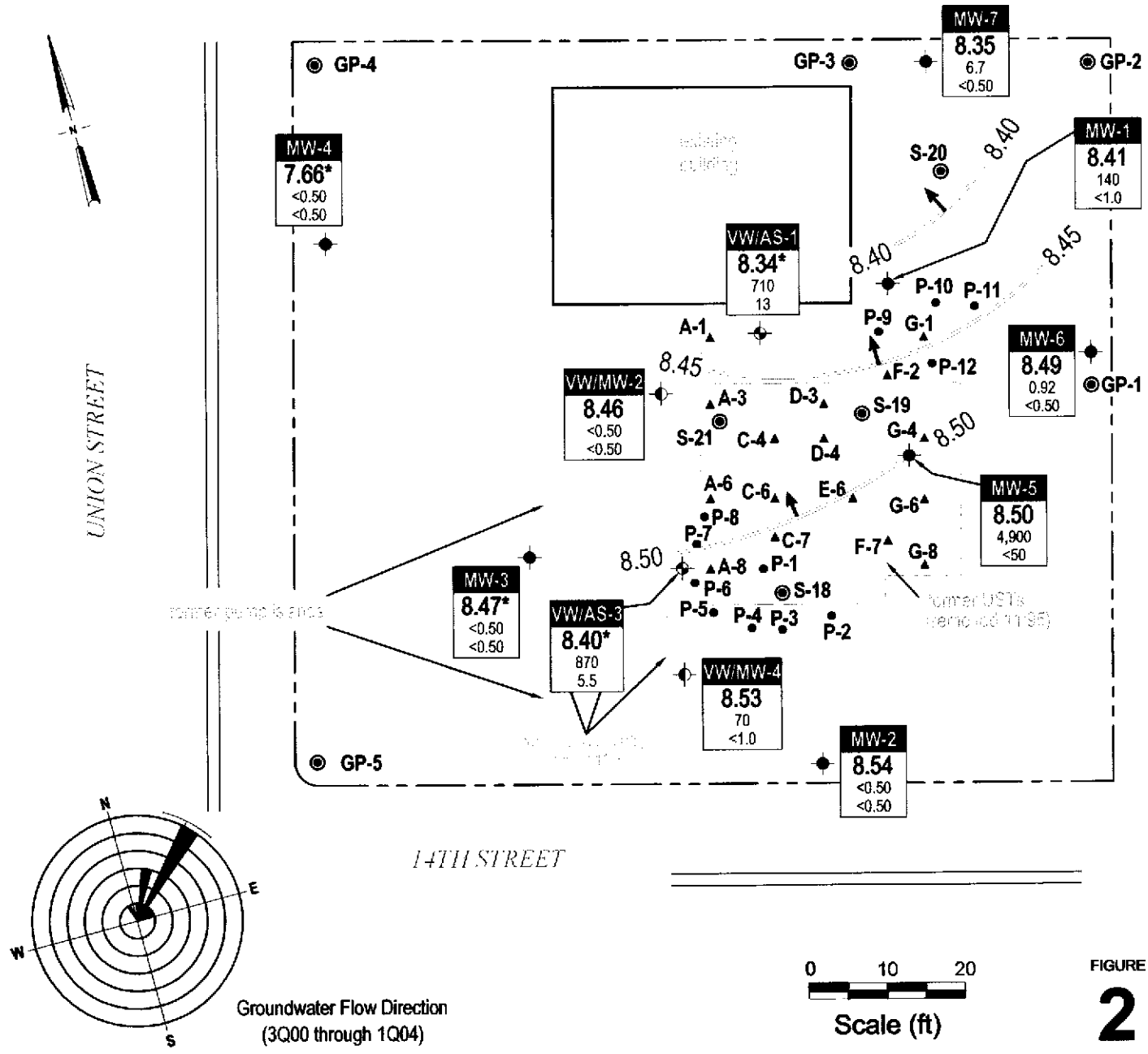

FIGURE
2

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

CAMBRIA

Groundwater Elevation Contour Map

January 5, 2004

Table 1: Groundwater Extraction - Mass Removal Data - Former Shell Service Station, Incident #97088250, 1230 14th St., Oakland, California

					TPPH			Benzene		
Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)
06/11/02	MW-5	300	300	04/17/02	33,000	0.08261	0.08261	3,800	0.00951	0.00951
06/25/02	MW-5	200	500	04/17/02	33,000	0.05507	0.13768	3,800	0.00634	0.01585
07/09/02	MW-5	415	915	04/17/02	33,000	0.11428	0.25196	3,800	0.01316	0.02901
07/23/02	MW-5	300	1,215	04/17/02	33,000	0.08261	0.33457	3,800	0.00951	0.03853
08/06/02	MW-5	300	1,515	04/17/02	33,000	0.08261	0.41718	3,800	0.00951	0.04804
08/20/02	MW-5	185	1,700	04/17/02	33,000	0.05094	0.46812	3,800	0.00587	0.05390
09/03/02	MW-5	151	1,851	04/17/02	33,000	0.04158	0.50970	3,800	0.00479	0.05869
09/19/02	MW-5	400	2,251	04/17/02	33,000	0.11015	0.61984	3,800	0.01268	0.07138
10/01/02	MW-5	375	2,626	04/17/02	33,000	0.10326	0.72311	3,800	0.01189	0.08327
10/17/02	MW-5	150	2,776	04/17/02	33,000	0.04130	0.76441	3,800	0.00476	0.08802
11/01/02	MW-5	327	3,103	04/17/02	33,000	0.09004	0.85445	3,800	0.01037	0.09839
11/15/02	MW-5	200	3,303	11/11/02	100,000	0.16689	1.02134	7,100	0.01185	0.11024
12/03/02	MW-5	200	3,503	11/11/02	100,000	0.16689	1.18823	7,100	0.01185	0.12209
12/31/02	MW-5	391	3,894	11/11/02	100,000	0.32626	1.51449	7,100	0.02316	0.14525
01/17/03	MW-5	463	4,357	11/11/02	100,000	0.38634	1.90084	7,100	0.02743	0.17268
01/29/03	MW-5	2,780	7,137	11/11/02	100,000	2.31973	4.22057	7,100	0.16470	0.33739
02/04/03	MW-5	250	7,387	11/11/02	100,000	0.20861	4.42918	7,100	0.01481	0.35220
02/18/03	MW-5	400	7,787	11/11/02	100,000	0.33377	4.76295	7,100	0.02370	0.37589
03/04/03	MW-5	350	8,137	11/11/02	100,000	0.29205	5.05500	7,100	0.02074	0.39663
11/10/03	MW-5	250	8,387	10/29/03	45,000	0.09387	5.14888	6,800	0.01419	0.41082
12/12/03	MW-5	204	8,591	10/29/03	45,000	0.07660	5.22548	6,800	0.01158	0.42239
01/30/04	MW-5	300	8,891	01/05/04	26,000	0.06509	5.29056	4,900	0.01227	0.43466
02/26/04	MW-5	400	9,291	01/05/04	26,000	0.08678	5.37735	4,900	0.01635	0.45101
03/31/04	MW-5	255	9,546	01/05/04	26,000	0.05532	5.43267	4,900	0.01043	0.46144

Table 1: Groundwater Extraction - Mass Removal Data - Former Shell Service Station, Incident #97088250, 1230 14th St., Oakland, California

					TPPH			Benzene		
Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)
04/28/04	MW-5	300	9,846	04/01/04	29,000	0.07260	5.50526	5,300	0.01327	0.47471
Total Gallons Extracted:		**9,846**			**Total Pounds Removed:**		**5.50526**			**0.47471**
					Total Gallons Removed:		**0.90250**			**0.06503**

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline
ppb = Parts per billion
gal = Gallons
Mass removed based on the formula: volume extracted (gal) x concentration (µg/L) x (g/10^6µg) x (pound/453.6g) x (3.785 L/gal)
Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)
TPPH and benzene analyzed by EPA Method 8260
Concentrations based on most recent groundwater monitoring results
If concentration is less than the laboratory detection limit, one half of the detection limit concentration is used in the mass removal calculation.
Groundwater extracted by vacuum trucks provided by Phillips Services. Water disposed of at a Martinez Refinery.

Table 2: Vapor Extraction - Mass Removal Data - Shell-branded Service Station, Incident #97088250, 1230 14th Street, Oakland, Califor

Date Purged	Well ID	Interval Hours of Operation (hours)	System Flow Rate (CFM)	Hydrocarbon Concentrations (Concentrations in ppmv) TPHg	Benzene	TPPH TPHg Removal Rate (#/hour)	TPPH Cumulative TPHg Removed (#)	Benzene Benzene Removal Rate (#/hour)	Benzene Cumulative Benzene Removed (#)
09/19/02	MW-5	4.00	10.1	150	25	0.020	0.081	0.003	0.012
10/01/02	MW-5	4.00	11.1	2,100	23	0.312	1.327	0.003	0.025
10/17/02	MW-5	4.00	9.3	1,100	20	0.137	1.874	0.002	0.034
11/01/02	MW-5	4.00	10.0	520	8.9	0.070	2.152	0.001	0.038
11/15/02	MW-5	4.00	8.5	1,500	16	0.170	2.834	0.002	0.045
12/03/02	MW-5	4.00	7.7	1,300	15	0.134	3.370	0.001	0.050
12/31/02	MW-5	4.25	10.9	560	13	0.082	3.716	0.002	0.057
01/17/03	MW-5	4.00	9.1	260	14	0.032	3.843	0.002	0.064
01/29/03	MW-5	4.08	13.4	340	12	0.061	4.091	0.002	0.072
02/04/03	MW-5	2.50	NA	190	1.1	0.000	4.091	0.000	0.072
02/18/03	MW-5	4.00	NA	56	0.29	0.000	4.091	0.000	0.072
03/04/03	MW-5	4.00	21.5	31	2.8	0.009	4.127	0.001	0.075
11/10/03	MW-5	4.75	10.3	890	8.2	0.123	4.709	0.001	0.079
12/12/03	MW-5	4.00	13.0	1,200	14	0.209	5.543	0.002	0.088
01/30/04	MW-5	4.00	12.9	48	2.5	0.008	5.576	0.000	0.090
02/26/04	MW-5	4.50	4.2	67	1.4	0.004	5.593	0.000	0.090
03/31/04	MW-5	4.92	20.7	26	2.3	0.007	5.629	0.001	0.093
04/28/04	MW-5	4.00	17.9	12	2.7	0.003	5.640	0.001	0.095
Total Pounds Removed:						**TPHg =**	**5.640**	**Benzene =**	**0.095**

Table 2: Vapor Extraction - Mass Removal Data - Shell-branded Service Station, Incident #97088250, 1230 14th Street, Oakland, Califor

Abbreviations and Notes:

CFM = Cubic feet per minute

TPHg = Total petroleum hydrocarbons as gasoline (C6-C12) by modified EPA Method 8015 in 1 liter tedlar bag samples

ppmv = Parts per million by volume

= Pounds

NA = Not available

TPHG, Benzene, and MTBE analyzed by EPA Method 8015/8020 in 1 liter tedlar bag samples

TPHg / Benzene / MTBE removal rate = Rate based on Bay Area Air Quality Management District's Manual of Procedures for Soil Vapor Extraction dated July 17, 1991.

(Rate = Concentration (ppmv) x system flow rate (cfm) x (1lb-mole/386ft3) x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene, 88 lb/lb-mole for MTBE) x 60 min/hour x 1/1,000,000)

Cumulative TPHg / Benzene / MTBE removal = Previous removal rate multiplied by the hour-interval of operation plus the previous total

If concentration is less than the laboratory detection limit, one half of the detection limit concentration is used in the mass removal calculation.

ATTACHMENT A

Blaine Groundwater Monitoring Report and Field Notes

BLAINE
TECH SERVICES, INC.

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(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

January 29, 2004

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

First Quarter 2004 Groundwater Monitoring at
Former Shell Service Station
1230 14th Street
Oakland, CA

Monitoring performed on January 5, 2004

Groundwater Monitoring Report **040105-SS-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	03/25/1996	37,000	7,400	1,500	720	3,300	<500	NA	18.58	9.53	9.05	NA
MW-1	06/21/1996	35,000	9,900	460	340	3,500	890	NA	18.58	10.72	7.86	NA
MW-1	09/26/1996	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	03/25/1997	39,000	13,000	1,600	840	3,100	730	NA	18.58	11.10	7.48	1.2
MW-1	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.58	12.42	6.16	NA
MW-1	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.58	13.31	5.27	0.8
MW-1	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.58	12.65	5.93	0.3
MW-1	02/19/1998	16,000	5,500	450	500	800	<500	NA	18.58	6.46	12.12	2.4
MW-1	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.58	6.62	11.96	1.2
MW-1	08/25/1998	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	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.58	9.15	9.43	2.2
MW-1	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.58	11.22	7.36	3.8
MW-1	09/30/1999	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	01/21/2000	40,600	14,700	1,850	1,210	3,670	<500	NA	18.58	13.42	5.16	2.8
MW-1	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.58	8.11	10.47	0.4
MW-1	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.58	9.78	8.80	3.0/3.4
MW-1	04/18/2000	18,300	8,060	543	528	872	<50.0	NA	18.58	NA	NA	NA
MW-1	09/21/2000	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	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.58	12.94	5.64	0.3
MW-1	04/27/2001	1,400	650	28	58	48	NA	<10	18.58	10.73	7.85	1.8/2.1
MW-1	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.58	12.00	6.58	1.8
MW-1	12/06/2001	4,500	1,500	85	160	210	NA	<50	18.58	10.53	8.05	2.5/2.9
MW-1	01/23/2002	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	04/17/2002	230	12	<0.50	4.6	2.5	NA	<5.0	18.58	10.49	8.09	6.3/5.3
MW-1	07/18/2002	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	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.58	9.68	8.90	4.4
MW-1	03/13/2003	820	340	2.7	<2.0	3.2	NA	<20	18.58	10.45	8.13	2.8/0.9
MW-1	04/23/2003	900	550	19	49	49	NA	<50	18.58	10.32	8.26	0.9/0.1
MW-1	05/13/2003	740	510	18	43	46	NA	<50	18.58	10.28	8.30	0.1/0.2
MW-1	06/13/2003	<5,000	1,500	82	180	250	NA	<500	18.58	11.16	7.42	0.3/0.8
MW-1	07/14/2003	5,300	3,400	160	340	420	NA	<20	18.58	11.66	6.92	0.6/0.3
MW-1	09/29/2003	10,000	5,700	400	670	1,000	NA	<50	18.58	12.44	6.14	0.6/0.7
MW-1	10/29/2003	19,000	6,600	560	820	1,300	NA	26	18.58	12.63	5.95	0.6/0.4
MW-1	**01/05/2004**	**380**	**140**	**7.1**	**6.2**	**16**	**NA**	**<1.0**	**18.58**	**10.17**	**8.41**	**5.0/0.8**
MW-2	03/25/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	8.19	9.71	NA
MW-2	06/21/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	9.94	7.96	NA
MW-2	09/26/1996	<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	03/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	9.25	8.65	1.8
MW-2	06/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	11.36	6.54	2.4
MW-2	09/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.56	5.34	1.1
MW-2	09/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.56	5.34	1.1
MW-2	12/05/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	11.15	6.75	0.7
MW-2	02/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	5.61	12.29	2.7
MW-2	06/08/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	17.90	5.58	12.32	3.2
MW-2	08/25/1998	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	03/26/1999	NA	NA	NA	NA	NA	NA	NA	17.90	8.60	9.30	0.7
MW-2	06/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	17.90	10.30	7.60	2.3
MW-2	09/30/1999	NA	NA	NA	NA	NA	NA	NA	17.90	10.77	7.13	1.9

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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	03/07/2000	NA	NA	NA	NA	NA	NA	NA	17.90	7.13	10.77	1.1
MW-2	04/17/2000	<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	09/21/2000	NA	NA	NA	NA	NA	NA	NA	17.90	11.76	6.14	2.1
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	01/09/2001	NA	NA	NA	NA	NA	NA	NA	17.90	12.14	5.76	0.7
MW-2	04/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	17.90	9.85	8.05	1.1/0.9
MW-2	07/03/2001	NA	NA	NA	NA	NA	NA	NA	17.90	11.20	6.70	1.2
MW-2	12/06/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	17.90	10.77	7.13	3.9/2.1
MW-2	01/23/2002	NA	NA	NA	NA	NA	NA	NA	17.90	8.64	9.26	2.5
MW-2	04/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	17.90	9.61	8.29	3.5/5.2
MW-2	07/18/2002	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	01/16/2003	NA	NA	NA	NA	NA	NA	NA	17.90	8.92	8.98	1.7
MW-2	03/13/2003	NA	NA	NA	NA	NA	NA	NA	17.90	9.60	8.30	1.1
MW-2	04/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	17.90	9.48	8.42	0.4/0.2
MW-2	05/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	17.90	9.45	8.45	0.5/0.3
MW-2	06/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	17.90	10.28	7.62	0.6/0.9
MW-2	07/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	17.90	10.67	7.23	0.5/.09
MW-2	09/29/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	17.90	11.58	6.32	1.9/1.3
MW-2	10/29/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	17.90	11.76	6.14	4.3/0.5
MW-2	**01/05/2004**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**17.90**	**9.36**	**8.54**	**1.2/0.8**
MW-3	03/25/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	8.47	9.71	NA
MW-3	06/21/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	10.40	7.78	NA
MW-3	09/26/1996	<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	03/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	9.54	8.64	2.2
MW-3	06/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	11.66	6.52	3.6

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MW-3	09/26/1997	<50	<0.50	<050	<0.50	<0.50	<2.5	NA	18.18	12.85	5.33	1.1
MW-3	12/05/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	11.44	6.74	0.6
MW-3	02/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	6.78	11.40	3.6
MW-3	06/08/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.18	6.82	11.36	3.8
MW-3	06/08/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.18	6.82	11.36	3.8
MW-3	08/25/1998	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	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.18	8.57	9.61	0.8
MW-3	06/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.18	10.61	7.57	4.8
MW-3	09/30/1999	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	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.17	7.36	10.81	5.8
MW-3	04/17/2000	<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	09/21/2000	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	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.17	12.43	5.74	1.9
MW-3	04/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	18.17	10.10	8.07	2.3/2.4
MW-3	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.17	11.45	6.72	1.4
MW-3	12/06/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.17	11.07	7.10	2.8/3.9
MW-3	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.17	8.89	9.28	3.1
MW-3	04/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.17	9.92	8.25	3.7/3.2
MW-3	07/18/2002	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	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.17	9.25	8.92	2.1
MW-3	03/13/2003	NA	NA	NA	NA	NA	NA	NA	18.17	9.84	8.33	1.2
MW-3	04/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.17	9.71	8.46	0.7/0.2
MW-3	05/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.17	9.70	8.47	0.6/0.2
MW-3	06/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.17	10.58	7.59	0.4/1.3
MW-3	07/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	18.17	10.98	7.19	0.4/.03

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MW-3	09/29/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	18.17	11.84	6.33	1.4/1.1
MW-3	10/29/2003	58 b	<0.50	<0.50	<0.50	<1.0	NA	<0.50	18.17	12.05	6.12	0.8/0.4
MW-3	**01/05/2004**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**18.17**	**9.70**	**8.47**	**1.3/0.7**
MW-4	03/25/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	9.20	8.81	NA
MW-4	06/21/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	10.25	7.76	NA
MW-4	09/26/1996	<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	03/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	9.44	8.57	1.8
MW-4	06/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.57	6.44	6.2
MW-4 (D)	06/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.57	6.44	6.2
MW-4	09/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	12.75	5.26	2.1
MW-4	12/05/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.37	6.64	1.0
MW-4 (D)	12/05/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.37	6.64	1.0
MW-4	02/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	5.59	12.42	6.5
MW-4	06/08/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.01	5.65	12.36	2.6
MW-4	08/25/1998	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	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.01	8.40	9.61	1.9
MW-4	06/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.01	10.53	7.48	7.6
MW-4	09/30/1999	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	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.01	7.00	11.01	6.5
MW-4	04/17/2000	<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	09/21/2000	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	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.01	12.33	5.68	2.1
MW-4	04/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	18.01	9.96	8.05	5.3/3.8
MW-4	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.01	11.35	6.66	4.5

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MW-4	12/06/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.01	10.99	7.02	10.23/6.5
MW-4	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.01	8.80	9.21	8.8
MW-4	04/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.01	9.75	8.26	7.0/5.1
MW-4	07/18/2002	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	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.01	10.33	7.68	6.5
MW-4	03/13/2003	NA	NA	NA	NA	NA	NA	NA	18.01	10.06	7.95	6.5
MW-4	04/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.01	9.57	8.44	5.1/5.7
MW-4	05/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.01	9.55	8.46	2.0/2.5
MW-4	06/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.01	10.50	7.51	5.0/5.6
MW-4	07/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	18.01	10.86	7.15	3.9/4.2
MW-4	09/29/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	18.01	11.74	6.27	1.6/1.4
MW-4	10/29/2003	58 b	<0.50	<0.50	<0.50	<1.0	NA	<0.50	18.01	11.95	6.06	2.4/1.0
MW-4	**01/05/2004**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**18.01**	**10.35**	**7.66**	**7.4/7.5**
MW-5	12/03/2001	NA	NA	NA	NA	NA	NA	NA	18.47	11.86	6.61	NA
MW-5	12/06/2001	31,000	3,000	2,000	1,100	3,000	NA	<50	18.47	11.40	7.07	3.1/3.2
MW-5	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.47	9.24	9.23	0.9
MW-5	04/17/2002	33,000	3,800	2,400	1,300	4,400	NA	<200	18.47	10.35	8.12	5.3/3.8
MW-5	07/18/2002	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	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.47	9.57	8.90	0.0
MW-5	03/13/2003	33,000	2,800	2,200	980	4,600	NA	<100	18.47	10.30	8.17	0.5/0.3
MW-5	04/07/2003	NA	NA	NA	NA	NA	NA	NA	18.47	10.29	8.18	NA
MW-5	04/23/2003	33,000	2,900	3,100	960	5,800	NA	<250	18.47	10.15	8.32	0.1/0.1
MW-5	05/13/2003	30,000	2,600	1,500	850	4,500	NA	<250	18.47	10.12	8.35	0.4/0.3
MW-5	06/13/2003	33,000	3,400	2,300	1,000	4,400	NA	<500	18.47	11.00	7.47	0.3/0.3
MW-5	07/14/2003	41,000	5,100	3,500	1,400	5,100	NA	<50	18.47	11.39	7.08	0.5/0.5
MW-5	09/29/2003	59,000	6,600	4,200	1,500	6,500	NA	<50	18.47	12.24	6.23	0.6/0.5

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MW-5	10/29/2003	45,000	6,800	3,500	1,500	6,400	NA	21	18.47	12.45	6.02	0.5/0.3
MW-5	**01/05/2004**	**26,000**	**4,900**	**1,700**	**1,100**	**3,300**	**NA**	**<50**	**18.47**	**9.97**	**8.50**	**0.9/1.2**
MW-6	12/03/2001	NA	NA	NA	NA	NA	NA	NA	18.84	12.19	6.65	NA
MW-6	12/06/2001	76	5.7	3.8	1.4	7.0	NA	<5.0	18.84	11.70	7.14	6.3/6.1
MW-6	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.84	9.57	9.27	8.7
MW-6	04/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.84	10.73	8.11	9.8/9.1
MW-6	07/18/2002	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	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.84	9.89	8.95	6.4
MW-6	03/13/2003	NA	NA	NA	NA	NA	NA	NA	18.84	10.66	8.18	5.5
MW-6	04/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.84	10.57	8.27	3.7/4.4
MW-6	05/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.84	10.56	8.28	3.5/3.0
MW-6	06/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.84	11.48	7.36	2.7/3.1
MW-6	07/14/2003	230 b	3.4	<0.50	<0.50	<1.0	NA	<0.50	18.84	11.83	7.01	1.8/1.3
MW-6	09/29/2003	910 b	46	<2.5	<2.5	<5.0	NA	<2.5	18.84	12.70	6.14	1.1/1.0
MW-6	10/29/2003	830	38	0.53	<0.50	3.3	NA	0.60	18.84	12.91	5.93	1.2/0.9
MW-6	**01/05/2004**	**93**	**0.92**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**18.84**	**10.35**	**8.49**	**6.2/4.3**
MW-7	12/03/2001	NA	NA	NA	NA	NA	NA	NA	19.20	12.66	6.54	NA
MW-7	12/06/2001	1,800	390	<2.0	6.2	<2.0	NA	<20	19.20	12.20	7.00	3.9/3.8
MW-7	01/23/2002	NA	NA	NA	NA	NA	NA	NA	19.20	10.00	9.20	9.4
MW-7	04/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	19.20	11.21	7.99	8.8/7.3
MW-7	07/18/2002	NA	NA	NA	NA	NA	NA	NA	19.20	12.69	6.51	0.8
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	01/16/2003	NA	NA	NA	NA	NA	NA	NA	19.20	10.36	8.84	7.9
MW-7	03/13/2003	NA	NA	NA	NA	NA	NA	NA	19.20	11.16	8.04	5.2
MW-7	04/23/2003	250	48	<0.50	<0.50	<1.0	NA	<5.0	19.20	11.02	8.18	3.2/1.3
MW-7	05/13/2003	1,700	550	<2.5	<2.5	<5.0	NA	<25	19.20	11.00	8.20	2.0/1.5

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MW-7	06/13/2003	1,500 b	470	<2.5	<2.5	<5.0	NA	<25	19.20	11.90	7.30	1.8/1.6
MW-7	07/14/2003	1300 b	1,200	<10	<10	<20	NA	<10	19.20	12.29	6.91	0.4/0.2
MW-7	09/29/2003	5,200	1,200	<10	<10	<20	NA	<10	19.20	13.12	6.08	0.9/0.9
MW-7	10/29/2003	4,800	1,100	<5.0	<5.0	<10	NA	8.9	19.20	13.34	5.86	0.4/0.3
MW-7	**01/05/2004**	**53**	**6.7**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**19.20**	**10.85**	**8.35**	**1.4/2.3**
VW/MW-2	03/25/1996	13,000	900	920	180	1,500	<250	NA	18.30	9.04	9.26	NA
VW/MW-2	06/21/1996	27,000	4,100	1,100	1,400	3,200	700	NA	18.30	10.48	7.82	NA
VW/MW-2	09/26/1996	27,000	5,300	1,900	980	2,200	<500	NA	18.30	12.52	5.78	NA
VW/MW-2 (D)	09/26/1996	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	03/25/1997	210	5.6	<0.50	0.52	<0.50	14	NA	18.30	9.83	8.47	2.0
VW/MW-2 (D)	03/25/1997	250	1.7	0.58	0.51	<0.50	4.7	NA	18.30	9.83	8.47	2.0
VW/MW-2	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.30	12.43	5.87	NA
VW/MW-2	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.30	12.98	5.32	0.9
VW/MW-2	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.30	12.20	6.10	0.4
VW/MW-2	02/19/1998	<50	1.5	<0.50	<0.50	0.71	<2.5	NA	18.30	5.83	12.47	3.6
VW/MW-2	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.30	5.80	12.50	1.0
VW/MW-2	08/25/1998	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	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.30	8.75	9.55	2.8
VW/MW-2	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.30	10.72	7.58	4.7
VW/MW-2	09/30/1999	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	01/21/2000	12,100	2,200	1,080	429	1,120	<250	NA	18.30	13.26	5.04	2.8
VW/MW-2	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.28	7.87	10.41	3.7
VW/MW-2	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.28	9.65	8.63	3.7/4.1
VW/MW-2	04/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.28	NA	NA	NA
VW/MW-2	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.28	12.75	5.53	6.2

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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	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.28	12.51	5.77	0.7
VW/MW-2	04/27/2001	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	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.28	11.60	6.68	0.6
VW/MW-2	12/06/2001	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	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.28	9.07	9.21	0.5
VW/MW-2	04/17/2002	<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	07/18/2002	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	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.28	9.35	8.93	0.4
VW/MW-2	03/13/2003	NA	NA	NA	NA	NA	NA	NA	18.28	10.09	8.19	0.8
VW/MW-2	04/07/2003	NA	NA	NA	NA	NA	NA	NA	18.28	10.09	8.19	NA
VW/MW-2	04/23/2003	1,100	76	29	45	66	NA	<5.0	18.28	9.95	8.33	0.8/0.3
VW/MW-2	05/13/2003	1,200	38	16	16	24	NA	<5.0	18.28	9.90	8.38	0.2/0.2
VW/MW-2	06/13/2003	9,600	1,300	1,100	440	890	NA	<250	18.28	10.80	7.48	0.2/0.5
VW/MW-2	07/14/2003	11,000	1,300	1,600	430	1,500	NA	<5.0	18.28	11.20	7.08	0.5/0.5
VW/MW-2	09/29/2003	12,000	860	980	410	1,100	NA	<10	18.28	12.05	6.23	0.4/0.4
VW/MW-2	10/29/2003	12,000	1,100	940	530	1,200	NA	<10	18.28	12.29	5.99	0.7/0.3
VW/MW-2	**01/05/2004**	**190 b**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**18.28**	**9.82**	**8.46**	**2.8/1.8**
VW/MW-4	03/25/1996	83,000	6,500	7,000	2,000	11,000	<250	NA	18.14	8.45	9.69	NA
VW/MW-4 (D)	03/25/1996	84,000	6,400	7,000	2,100	12,000	<250	NA	18.14	8.45	9.69	NA
VW/MW-4	06/21/1996	110,000	14,000	15,000	3,700	17,000	1,700	NA	18.14	10.38	7.76	NA
VW/MW-4 (D)	06/21/1996	100,000	12,000	12,000	2,900	13,000	<1,000	NA	18.14	10.38	7.76	NA
VW/MW-4	09/26/1996	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	03/25/1997	56,000	4,700	1,500	2,500	6,300	580	NA	18.14	9.60	8.54	2.4
VW/MW-4	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.14	12.36	5.78	NA
VW/MW-4	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.14	12.82	5.32	0.4

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VW/MW-4	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.14	12.15	5.99	0.3
VW/MW-4	02/19/1998	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
VW/MW-4	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.14	5.87	12.27	1.8
VW/MW-4	08/25/1998	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	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.14	8.45	9.69	1.9
VW/MW-4	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.14	9.70	8.44	3.6
VW/MW-4	09/30/1999	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	01/21/2000	13,900	1,560	568	227	1,990	<500	21.0a	18.14	13.07	5.07	1.0
VW/MW-4	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.13	7.82	10.31	0.9
VW/MW-4	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.13	9.18	8.95	1.4/1.9
VW/MW-4	04/18/2000	757	103	8.59	30.8	84.2	<25.0	NA	18.13	NA	NA	NA
VW/MW-4	09/21/2000	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	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.13	12.42	5.71	0.9
VW/MW-4	04/27/2001	7,100	2,300	50	460	250	NA	<10	18.13	10.13	8.00	1.0/1.4
VW/MW-4	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.13	11.42	6.71	1.2
VW/MW-4	12/06/2001	7,700	750	90	300	350	NA	<25	18.13	11.02	7.11	2.5/1.9
VW/MW-4	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.13	8.89	9.24	0.4
VW/MW-4	04/17/2002	4,800	760	27	240	150	NA	<25	18.13	9.89	8.24	4.7/5.1
VW/MW-4	07/18/2002	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	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.13	9.17	8.96	0.8
VW/MW-4	03/13/2003	NA	NA	NA	NA	NA	NA	NA	18.13	9.85	8.28	1.1
VW/MW-4	04/23/2003	2,400	710	28	160	100	NA	<50	18.13	9.74	8.39	0.2/0.05
VW/MW-4	05/13/2003	3,300	720	35	170	160	NA	<50	18.13	9.70	8.43	0.2/0.2
VW/MW-4	06/13/2003	8,200	1,700	220	460	790	NA	<250	18.13	10.55	7.58	0.3/0.3

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VW/MW-4	07/14/2003	3,700	900	190	220	540	NA	<10	18.13	10.90	7.23	0.5/0.4
VW/MW-4	09/29/2003	7,500	1,800	300	390	860	NA	<20	18.13	11.83	6.30	0.5/0.6
VW/MW-4	10/29/2003	10,000	2,600	400	510	1,200	NA	<13	18.13	12.03	6.10	0.5/0.4
VW/MW-4	**01/05/2004**	**1,000**	**70**	**12**	**30**	**56**	**NA**	**<1.0**	**18.13**	**9.60**	**8.53**	**1.7/1.2**
VW/AS-1	03/25/1996	NA	NA	NA	NA	NA	NA	NA	18.60	8.98	9.62	NA
VW/AS-1	06/21/1996	NA	NA	NA	NA	NA	NA	NA	18.60	10.95	7.65	NA
VW/AS-1	09/26/1996	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	03/25/1997	NA	NA	NA	NA	NA	NA	NA	18.60	10.12	8.48	NA
VW/AS-1	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.60	12.34	6.26	NA
VW/AS-1	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.60	13.40	5.20	NA
VW/AS-1	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.60	11.96	6.64	5.2
VW/AS-1	02/19/1998	NA	NA	NA	NA	NA	NA	NA	18.60	6.22	12.38	1.3
VW/AS-1	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.60	6.20	12.40	1.0
VW/AS-1	08/25/1998	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	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.60	9.20	9.40	1.3
VW/AS-1	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.60	11.08	7.52	2.1
VW/AS-1	09/30/1999	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	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.59	7.35	11.24	NA
VW/AS-1	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.59	9.08	9.51	1.9/2.0
VW/AS-1	04/18/2000	20,800	6,550	1,220	2,270	1,720	<250	NA	18.59	NA	NA	NA
VW/AS-1	09/21/2000	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	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.59	13.03	5.56	1.9
VW/AS-1	04/27/2001	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	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.59	12.03	6.56	2.0

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VW/AS-1	12/06/2001	6,000	990	35	820	59	NA	<25	18.59	11.63	6.96	1.2/0.8
VW/AS-1	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.59	9.34	9.25	0.9
VW/AS-1	04/17/2002	12,000	2,900	57	1,400	98	NA	<200	18.59	10.41	8.18	3.3/2.9
VW/AS-1	07/18/2002	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	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.59	9.73	8.86	2.3
VW/AS-1	03/13/2003	11,000	2,500	55	1,800	170	NA	<100	18.59	10.45	8.14	2.1/1.9
VW/AS-1	04/07/2003	NA	NA	NA	NA	NA	NA	NA	18.59	10.40	8.19	NA
VW/AS-1	04/23/2003	9,500	4,100	200	1,400	200	NA	<250	18.59	10.28	8.31	1.2/0.4
VW/AS-1	05/13/2003	9,700	2,300	110	1,100	140	NA	<250	18.59	10.26	8.33	0.5/2.0
VW/AS-1	06/13/2003	9,300	2,300	77	820	<100	NA	<500	18.59	11.15	7.44	1.0/0.5
VW/AS-1	07/15/2003	5,500	2,000	230	620	360	NA	20	18.59	11.62	6.97	1.8/1.9
VW/AS-1	09/29/2003	9,600	2,300	100	1,200	670	NA	<20	18.59	12.48	6.11	2.3/3.6
VW/AS-1	10/29/2003	10,000	2,000	39	1,000	370	NA	16	18.59	12.73	5.86	3.3/3.6
VW/AS-1	**01/05/2004**	**2,000**	**710**	**18**	**410**	**18**	**NA**	**13**	**18.59**	**10.25**	**8.34**	**3.0/2.8**
VW/AS-3	03/25/1996	NA	NA	NA	NA	NA	NA	NA	18.17	8.50	9.67	NA
VW/AS-3	06/21/1996	NA	NA	NA	NA	NA	NA	NA	18.17	10.42	7.75	NA
VW/AS-3	09/26/1996	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	03/25/1997	NA	NA	NA	NA	NA	NA	NA	18.17	9.61	8.56	NA
VW/AS-3	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.17	11.80	6.37	NA
VW/AS-3	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.17	12.89	5.28	NA
VW/AS-3	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.17	11.38	6.79	1.8
VW/AS-3	02/19/1998	NA	NA	NA	NA	NA	NA	NA	18.17	6.24	11.93	1.3
VW/AS-3	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.17	6.25	11.92	1.2
VW/AS-3	08/25/1998	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

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	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.17	8.92	9.25	1.5
VW/AS-3	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.17	10.71	7.46	2.5
VW/AS-3	09/30/1999	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	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.14	4.82	13.32	NA
VW/AS-3	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.14	8.69	9.45	2.0/2.4
VW/AS-3	04/18/2000	3,110	871	<5.00	141	56.8	78.2	NA	18.14	NA	NA	NA
VW/AS-3	09/21/2000	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	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.14	12.51	5.63	2.2
VW/AS-3	04/27/2001	14,000	3,900	62	690	560	NA	46	18.14	10.20	7.94	2.8/1.6
VW/AS-3	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.14	11.55	6.59	2.6
VW/AS-3	12/06/2001	5,000	1,200	19	380	320	NA	<50	18.14	11.10	7.04	0.9/1.1
VW/AS-3	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.14	8.93	9.21	1.1
VW/AS-3	04/17/2002	17,000	5,000	<25	1,100	390	NA	<250	18.14	10.00	8.14	3.2/3.2
VW/AS-3	07/18/2002	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	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.14	9.32	8.82	4.7
VW/AS-3	03/13/2003	NA	NA	NA	NA	NA	NA	NA	18.14	9.88	8.26	2.7
VW/AS-3	04/23/2003	150	47	0.67	8.5	3.2	NA	<5.0	18.14	9.85	8.29	2.1/0.7
VW/AS-3	05/13/2003	440	35	<0.50	1.7	<1.0	NA	<5.0	18.14	9.81	8.33	1.4/1.8
VW/AS-3	06/13/2003	580	71	<2.5	40	<5.0	NA	<25	18.14	10.77	7.37	1.1/0.6
VW/AS-3	07/14/2003	1,100	120	4.9	63	9.3	NA	16	18.14	11.12	7.02	2.0/2.2
VW/AS-3	09/29/2003	160	54	2.2	6.9	8.7	NA	1.1	18.14	12.02	6.12	4.1/1.6
VW/AS-3	10/29/2003	350	16	<0.50	1.1	<1.0	NA	6.3	18.14	12.25	5.89	3.2/1.6
VW/AS-3	**01/05/2004**	**2,700**	**870**	**39**	**130**	**250**	**NA**	**5.5**	**18.14**	**9.74**	**8.40**	**3.6/2.8**

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)

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

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#: 2004-01-0088

Blaine Tech Services, Inc.

January 19, 2004

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 040501-SS1
Project: 97088250
Site: 1230 14th Street, Oakland

Dear Mr.Gearhart,

Attached is our report for your samples received on 01/06/2004 18:33
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 02/20/2004 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: vvancil@stl-inc.com

Sincerely,

Vincent Vancil
Project Manager

SEVERN TRENT STL

Submission #: 2004-01-0088

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: 040501-SS1
97088250

Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	01/05/2004 12:08	Water	1
MW-2	01/05/2004 09:55	Water	2
MW-3	01/05/2004 10:17	Water	3
MW-4	01/05/2004 10:33	Water	4
MW-5	01/05/2004 13:05	Water	5
MW-6	01/05/2004 10:55	Water	6
MW-7	01/05/2004 11:30	Water	7
VW-AS-1	01/05/2004 12:30	Water	8
VW-AS-3	01/05/2004 11:13	Water	9
VW-MW-2	01/05/2004 12:41	Water	10
VW-MW-4	01/05/2004 11:47	Water	11

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040501-SS1
97088250

Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-1**	Lab ID:	2004-01-0088 - 1
Sampled:	01/05/2004 12:08	Extracted:	1/10/2004 14:17
Matrix:	Water	QC Batch#:	2004/01/10-1B.66

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	380	100	ug/L	2.00	01/10/2004 14:17	
Benzene	140	1.0	ug/L	2.00	01/10/2004 14:17	
Toluene	7.1	1.0	ug/L	2.00	01/10/2004 14:17	
Ethylbenzene	6.2	1.0	ug/L	2.00	01/10/2004 14:17	
Total xylenes	16	2.0	ug/L	2.00	01/10/2004 14:17	
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/L	2.00	01/10/2004 14:17	
Surrogate(s)						
1,2-Dichloroethane-d4	108.1	76-130	%	2.00	01/10/2004 14:17	
Toluene-d8	101.3	78-115	%	2.00	01/10/2004 14:17	

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

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Project: 040501-SS1
97088250

Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-2	Lab ID:	2004-01-0088-2
Sampled:	01/05/2004 09:55	Extracted:	1/9/2004 22:45
Matrix:	Water	QC Batch#:	2004/01/09-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/09/2004 22:45	
Benzene	ND	0.50	ug/L	1.00	01/09/2004 22:45	
Toluene	ND	0.50	ug/L	1.00	01/09/2004 22:45	
Ethylbenzene	ND	0.50	ug/L	1.00	01/09/2004 22:45	
Total xylenes	ND	1.0	ug/L	1.00	01/09/2004 22:45	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	01/09/2004 22:45	
Surrogate(s)						
1,2-Dichloroethane-d4	79.9	76-130	%	1.00	01/09/2004 22:45	
Toluene-d8	103.0	78-115	%	1.00	01/09/2004 22:45	

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

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97088250

Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-3	Lab ID:	2004-01-0088 - 3
Sampled:	01/05/2004 10:17	Extracted:	1/9/2004 23:51
Matrix:	Water	QC Batch#:	2004/01/09-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/09/2004 23:51	
Benzene	ND	0.50	ug/L	1.00	01/09/2004 23:51	
Toluene	ND	0.50	ug/L	1.00	01/09/2004 23:51	
Ethylbenzene	ND	0.50	ug/L	1.00	01/09/2004 23:51	
Total xylenes	ND	1.0	ug/L	1.00	01/09/2004 23:51	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	01/09/2004 23:51	
Surrogate(s)						
1,2-Dichloroethane-d4	89.1	76-130	%	1.00	01/09/2004 23:51	
Toluene-d8	100.8	78-115	%	1.00	01/09/2004 23:51	

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

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Project: 040501-SS1
97088250

Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-4**	Lab ID:	2004-01-0088 - 4
Sampled:	01/05/2004 10:33	Extracted:	1/10/2004 00:14
Matrix:	Water	QC Batch#:	2004/01/09-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/10/2004 00:14	
Benzene	ND	0.50	ug/L	1.00	01/10/2004 00:14	
Toluene	ND	0.50	ug/L	1.00	01/10/2004 00:14	
Ethylbenzene	ND	0.50	ug/L	1.00	01/10/2004 00:14	
Total xylenes	ND	1.0	ug/L	1.00	01/10/2004 00:14	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	01/10/2004 00:14	
Surrogate(s)						
1,2-Dichloroethane-d4	90.6	76-130	%	1.00	01/10/2004 00:14	
Toluene-d8	101.3	78-115	%	1.00	01/10/2004 00:14	

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

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Project: 040501-SS1
97088250

Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-5	Lab ID:	2004-01-0088 - 5
Sampled:	01/05/2004 13:05	Extracted:	1/10/2004 00:36
Matrix:	Water	QC Batch#:	2004/01/09-2B.62

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	26000	5000	ug/L	100.00	01/10/2004 00:36	
Benzene	4900	50	ug/L	100.00	01/10/2004 00:36	
Toluene	1700	50	ug/L	100.00	01/10/2004 00:36	
Ethylbenzene	1100	50	ug/L	100.00	01/10/2004 00:36	
Total xylenes	3300	100	ug/L	100.00	01/10/2004 00:36	
Methyl tert-butyl ether (MTBE)	ND	50	ug/L	100.00	01/10/2004 00:36	
Surrogate(s)						
1,2-Dichloroethane-d4	95.7	76-130	%	100.00	01/10/2004 00:36	
Toluene-d8	99.4	78-115	%	100.00	01/10/2004 00:36	

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

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Project: 040501-SS1
97088250

Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-6	Lab ID:	2004-01-0088 - 6
Sampled:	01/05/2004 10:55	Extracted:	1/10/2004 00:58
Matrix:	Water	QC Batch#:	2004/01/09-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	93	50	ug/L	1.00	01/10/2004 00:58	
Benzene	0.92	0.50	ug/L	1.00	01/10/2004 00:58	
Toluene	ND	0.50	ug/L	1.00	01/10/2004 00:58	
Ethylbenzene	ND	0.50	ug/L	1.00	01/10/2004 00:58	
Total xylenes	ND	1.0	ug/L	1.00	01/10/2004 00:58	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	01/10/2004 00:58	
Surrogate(s)						
1,2-Dichloroethane-d4	90.7	76-130	%	1.00	01/10/2004 00:58	
Toluene-d8	98.8	78-115	%	1.00	01/10/2004 00:58	

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

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Project: 040501-SS1
97088250

Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-7**	Lab ID:	2004-01-0088 - 7
Sampled:	01/05/2004 11:30	Extracted:	1/10/2004 01:20
Matrix:	Water	QC Batch#:	2004/01/09-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	53	50	ug/L	1.00	01/10/2004 01:20	
Benzene	6.7	0.50	ug/L	1.00	01/10/2004 01:20	
Toluene	ND	0.50	ug/L	1.00	01/10/2004 01:20	
Ethylbenzene	ND	0.50	ug/L	1.00	01/10/2004 01:20	
Total xylenes	ND	1.0	ug/L	1.00	01/10/2004 01:20	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	01/10/2004 01:20	
Surrogate(s)						
1,2-Dichloroethane-d4	90.0	76-130	%	1.00	01/10/2004 01:20	
Toluene-d8	100.1	78-115	%	1.00	01/10/2004 01:20	

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

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Project: 040501-SS1
97088250

Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	VW-AS-1	Lab ID:	2004-01-0088 - 8
Sampled:	01/05/2004 12:30	Extracted:	1/10/2004 01:42
Matrix:	Water	QC Batch#:	2004/01/09-2B.62

Analysis Flag: o (See Legend and Note Section):

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2000	500	ug/L	10.00	01/10/2004 01:42	
Benzene	710	5.0	ug/L	10.00	01/10/2004 01:42	
Toluene	18	5.0	ug/L	10.00	01/10/2004 01:42	
Ethylbenzene	410	5.0	ug/L	10.00	01/10/2004 01:42	
Total xylenes	18	10	ug/L	10.00	01/10/2004 01:42	
Methyl tert-butyl ether (MTBE)	13	5.0	ug/L	10.00	01/10/2004 01:42	
Surrogate(s)						
1,2-Dichloroethane-d4	90.2	76-130	%	10.00	01/10/2004 01:42	
Toluene-d8	96.6	78-115	%	10.00	01/10/2004 01:42	

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

Blaine Tech Services, Inc.

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Project: 040501-SS1
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Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	VW-AS-3	Lab ID:	2004-01-0088 - 9
Sampled:	01/05/2004 11:13	Extracted:	1/10/2004 02:04
Matrix:	Water	QC Batch#:	2004/01/09-2B.62

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2700	500	ug/L	10.00	01/10/2004 02:04	
Benzene	870	5.0	ug/L	10.00	01/10/2004 02:04	
Toluene	39	5.0	ug/L	10.00	01/10/2004 02:04	
Ethylbenzene	130	5.0	ug/L	10.00	01/10/2004 02:04	
Total xylenes	250	10	ug/L	10.00	01/10/2004 02:04	
Methyl tert-butyl ether (MTBE)	5.5	5.0	ug/L	10.00	01/10/2004 02:04	
Surrogate(s)						
1,2-Dichloroethane-d4	89.4	76-130	%	10.00	01/10/2004 02:04	
Toluene-d8	97.5	78-115	%	10.00	01/10/2004 02:04	

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

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 040501-SS1
97088250

Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: VW-MW-2	Lab ID: 2004-01-0088 -10
Sampled: 01/05/2004 12:41	Extracted: 1/10/2004 02:27
Matrix: Water	QC Batch#: 2004/01/09-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	190	50	ug/L	1.00	01/10/2004 02:27	g
Benzene	ND	0.50	ug/L	1.00	01/10/2004 02:27	
Toluene	ND	0.50	ug/L	1.00	01/10/2004 02:27	
Ethylbenzene	ND	0.50	ug/L	1.00	01/10/2004 02:27	
Total xylenes	ND	1.0	ug/L	1.00	01/10/2004 02:27	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	01/10/2004 02:27	
Surrogate(s)						
1,2-Dichloroethane-d4	88.7	76-130	%	1.00	01/10/2004 02:27	
Toluene-d8	102.2	78-115	%	1.00	01/10/2004 02:27	

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

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Project: 040501-SS1
97088250

Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	VW-MW-4	Lab ID:	2004-01-0088 - 11
Sampled:	01/05/2004 11:47	Extracted:	1/10/2004 02:49
Matrix:	Water	QC Batch#:	2004/01/09-2B.62

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1000	100	ug/L	2.00	01/10/2004 02:49	
Benzene	70	1.0	ug/L	2.00	01/10/2004 02:49	
Toluene	12	1.0	ug/L	2.00	01/10/2004 02:49	
Ethylbenzene	30	1.0	ug/L	2.00	01/10/2004 02:49	
Total xylenes	56	2.0	ug/L	2.00	01/10/2004 02:49	
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/L	2.00	01/10/2004 02:49	
Surrogate(s)						
1,2-Dichloroethane-d4	95.2	76-130	%	2.00	01/10/2004 02:49	
Toluene-d8	101.1	78-115	%	2.00	01/10/2004 02:49	

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: 040501-SS1
97088250

Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/01/09-2B.62**

MB: 2004/01/09-2B.62-013 — Date Extracted: 01/09/2004 18:13

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/09/2004 18:13	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	01/09/2004 18:13	
Benzene	ND	0.5	ug/L	01/09/2004 18:13	
Toluene	ND	0.5	ug/L	01/09/2004 18:13	
Ethylbenzene	ND	0.5	ug/L	01/09/2004 18:13	
Total xylenes	ND	1.0	ug/L	01/09/2004 18:13	
Surrogates(s)					
1,2-Dichloroethane-d4	87.4	76-130	%	01/09/2004 18:13	
Toluene-d8	101.3	78-115	%	01/09/2004 18:13	

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

Blaine Tech Services, Inc.
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Project: 040501-SS1
97088250

Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — Water — QC Batch # 2004/01/10-1B.66

MB: 2004/01/10-1B.66-040 — Date Extracted: 01/10/2004 09:40

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/10/2004 09:40	
Benzene	ND	0.5	ug/L	01/10/2004 09:40	
Toluene	ND	0.5	ug/L	01/10/2004 09:40	
Ethylbenzene	ND	0.5	ug/L	01/10/2004 09:40	
Total xylenes	ND	1.0	ug/L	01/10/2004 09:40	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	01/10/2004 09:40	
Surrogates(s)					
1,2-Dichloroethane-d4	93.0	76-130	%	01/10/2004 09:40	
Toluene-d8	94.4	78-115	%	01/10/2004 09:40	

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

Blaine Tech Services, Inc.

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Project: 040501-SS1
97088250

Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Laboratory Control Spike — **Water** — **QC Batch # 2004/01/09-2B.62**

LCS 2004/01/09-2B.62-036 — Extracted: 01/09/2004 — Analyzed: 01/09/2004 18:36
LCSD 2004/01/09-2B.62-051 — Extracted: 01/09/2004 — Analyzed: 01/09/2004 17:51

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	18.5	17.3	25	74.0	69.2	6.7	65-165	20		
Benzene	25.2	23.9	25	100.8	95.6	5.3	69-129	20		
Toluene	28.4	25.4	25	113.6	101.6	11.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	435	448	500	87.0	89.6		76-130			
Toluene-d8	520	511	500	104.0	102.2		78-115			

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

Blaine Tech Services, Inc.
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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040501-SS1
97088250

Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/01/10-1B.66**

LCS 2004/01/10-1B.66-052 Extracted: 01/10/2004 Analyzed: 01/10/2004 08:52
LCSD 2004/01/10-1B.66-016 Extracted: 01/10/2004 Analyzed: 01/10/2004 09:16

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	22.7	22.4	25	90.8	89.6	1.3	69-129	20		
Toluene	22.8	22.8	25	91.2	91.2	0.0	70-130	20		
Methyl tert-butyl ether (MTBE)	22.0	22.6	25	88.0	90.4	2.7	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	463	450	500	92.6	90.0		76-130			
Toluene-d8	439	468	500	87.8	93.6		78-115			

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

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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040501-SS1
97088250

Received: 01/06/2004 18:33

Site: 1230 14th Street, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Matrix Spike (MS / MSD) — **Water** — **QC Batch # 2004/01/09-2B.62**

MW-2 >> MS — Lab ID: 2004-01-0088 - 002

MS: 2004/01/09-2B.62-007 — Extracted: 01/09/2004 — Analyzed: 01/09/2004 23:07 — Dilution: 1.00

MSD: 2004/01/09-2B.62-029 — Extracted: 01/09/2004 — Analyzed: 01/09/2004 23:29 — 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	22.6	23.1	ND	25	90.4	92.4	2.2	69-129	20		
Toluene	25.2	24.6	ND	25	100.8	98.4	2.4	70-130	20		
Methyl tert-butyl ether	16.5	15.8	ND	25	66.0	63.2	4.3	65-165	20		mso
Surrogate(s)											
1,2-Dichloroethane-d4	474	473		500	94.8	94.6		76-130			
Toluene-d8	525	506		500	105.0	101.1		78-115			

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

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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040501-SS1
97088250

Received: 01/06/2004 18:33

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.

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

LAB: STL

SHELL Chain Of Custody Record

81725

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

Shell Project Manager to be invoiced: Karen Petryna
☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

2004-01-0088

INCIDENT NUMBER (S&E ONLY): 9 7 0 8 8 2 5 0
SAP or CRMT NUMBER (TS/CRMT):
DATE: 1/5/04
PAGE: 1 of 1

CONSULTING COMPANY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS (Street and City): 1230 14th Street, Oakland	GLOBAL ID NO.: T0600101691
ADDRESS: 680 Rogers Avenue, San Jose, CA 95112		EDF DELIVERABLE TO (Responsible Party or Designee): Anni Kreml	PHONE NO.: 510-420-3335
PROJECT CONTACT (Hardcopy or PDF Report to): Jon Gearhart		E-MAIL: ShellOaklandEDF@cambria-env.com	CONSULTANT PROJECT NO.: 040501-SS1 BTS #
TELEPHONE: 08-573-0555	FAX: 408-573-7771	E-MAIL: jgearhart@blainetech.com	SAMPLER NAME(S) Print: Sucheon Sung

LAB USE ONLY

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

GW/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-1	1/5/04	1208	GW	3	X	X		X															
	MW-2		955			X	X		X															
	MW-3		1017			X	X		X															
	MW-4		1033			X	X		X															
	MW-5		1305			X	X		X															
	MW-6		1055			X	X		X															
	MW-7		1130			X	X		X															
	VW-AS-1		1230			X	X		X															
	VW-AS-3		1118			X	X		X															
	VW2/MW-2		1241			X	X		X															
	VW1/MW-4		1147			X	X		X															

3.5
TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date: 1/6/04	Time: 1155
Relinquished by: (Signature) 1/6/04 1883	Received by: (Signature)	Date: 1-6-04	Time: 1633
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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

DHO Green 4 Part 1999-2002

WELL GAUGING DATA

Project # 040105-SS1 Date 1/5/04 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					10.17	21.17		
MW-2	2					9.36	22.02		
MW-3	2					9.70	18.82		
MW-4	2					10.35	20.08		
* MW-5	4					9.97	19.76		
MW-6	4					10.35	19.69		
MW-7	4					10.85	19.75		
VW/MW-2	2					9.82	21.88		
VW/MW-4	2					9.60	18.95		
VW-AS-1	1					10.75	19.64		
VW-AS-3	1					9.74	19.70		
GAUGED TD FOR ALL WELLS									
* GAUGED W/ STINGER IN WELL									

SHELL WELL MONITORING DATA SHEET

BTS #: 040105	Site: 97088250
Sampler: Scott	Date: 1/5/04
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 21.17	Depth to Water (DTW): 10.17
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]: 12.37	

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

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

1.8 (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
1200	63.0	7.0	570	>200	1.8	TURBID
1203	63.7	6.9	549	>200	3.6	"
1206	63.7	6.9	563	>200	5.5	"

Did well dewater? Yes (No) Gallons actually evacuated: 5.5

Sampling Date: 1/5/04 Sampling Time: 1208 Depth to Water: 11.22

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:	5.0 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 #: 040105	Site: 97088250
Sampler: Scott	Date: 1/5/04
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 22.07	Depth to Water (DTW): 9.36
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]: 11.89	

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

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

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
949	64.5	6.7	806	>200	2	BROWN
951	65.0	6.6	755	>200	4	"
953	65.3	6.6	748	>200	6	TURBID

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

Sampling Date: 1/6/04 Sampling Time: 955 Depth to Water: 10.15

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:)	1.2 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 #: 040105	Site: 97088250
Sampler: Scott	Date: 1/5/04
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 18.82	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]: 11.52	

Purge Method: (Bailer) Waterra — Sampling Method: (Bailer)
Disposable Bailer — Peristaltic — Disposable Bailer
Positive Air Displacement — Extraction Pump — Extraction Port
Electric Submersible — Other ____ — 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
1011	65.0	6.3	858	>200	1.5	TURBID
1013	65.5	6.3	890	>200	3.0	"
1015	66.0	6.4	895	>200	4.5	"

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

Sampling Date: 1/5/04 — Sampling Time: 1017 — 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):	~~3.2~~ 1.3 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 #: 040105	Site: 97088250
Sampler: Smith	Date: 1/5/04
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 20.05	Depth to Water (DTW): 10.35
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]: 12.29	

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

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

1.6 (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
1027	63.4	6.7	226	>200	1.6	TURBID
1029	63.6	6.7	204	>200	3.2	"
1031	64.0	6.7	203	>200	5.0	"

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

Sampling Date: 1/5/04 Sampling Time: 1033 Depth to Water: 10.55

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:	7.4 mg/L	Post-purge:	7.5	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 040105	Site: 97088250
Sampler: Scott	Date: 1/5/04
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 19.76	Depth to Water (DTW): 9.97
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]: 11.93	

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

Sampling Method: ~~Bailer~~
Disposable Bailer
Extraction Port
Dedicated Tubing
Other:

1 Case Volume	Specified Volumes	Calculated Volume
6.4 + ~~6.8~~ (Gals.) X	3	= ~~20.4~~ 19.2 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
1255	64.6	6.9	1636	>200	6.4	PURGED 1/05/04 @ 1255
1301	64.5	6.9	1723	>200	12.8	
VOA	DERIVATIVE @ 12.8 gal.					DTW = 18.05
1307	64.0	6.9	1659	>200	____	DTW = 15.30

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

Sampling Date: 1/5/04 Sampling Time: 1305 Depth to Water: 15.30 @ SITE DEL

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

SHELL WELL MONITORING DATA SHEET

BTS #: 040105	Site: 97088250
Sampler: Scott	Date: 1/5/04
Well I.D.: MW-6	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 19.69	Depth to Water (DTW): 10.35
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
Positive Air Displacement
Electric Submersible
Waterra
Peristaltic
Extraction Pump
*Other*_____

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

1 Case Volume	Specified Volumes	Calculated Volume
6.1 ~~1.5~~ (Gals.) X	3	= 18.3 ~~4.5~~ Gals.

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1047	62.4	6.6	880	101	6.1	TURBID
1048	63.0	6.7	870	62	12.2	ALMOST CLEAR
1049	63.2	6.7	799	78	18.5	TURBID

Did well dewater?	Yes (No)			Gallons actually evacuated:	18.5
Sampling Date:	1/5/04	Sampling Time:	1055	Depth to Water:	12.22
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:	6.2 mg/L		Post-purge:	4.3 mg/L
O.R.P. (if req'd):	Pre-purge:	mV		Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 040105	Site: 97088250
Sampler: Scott	Date: 1/5/04
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.15	Depth to Water (DTW): 10.85
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]: 12.63	

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

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

5.8 (Gals.) X 3 = 17.4 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
1125	63.1	6.9	566	92	5.8	SLIGHTLY TURBID, MILD ODS
1126	63.6	7.0	564	111	11.6	"
1127	64.0	7.0	568	135	17.5	TURBID

Did well dewater? Yes (No) Gallons actually evacuated: 17.5

Sampling Date: 1/5/04 Sampling Time: 1130 Depth to Water: ~~1130~~ 12.60

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:	1.4 mg/L	Post-purge:	2.3 mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 040105	Site: 97088250
Sampler: Scott	Date: 1/5/04
Well I.D.: VW-AS-1	Well Diameter: 2 3 4 6 8 (1)
Total Well Depth (TD): 19.64	Depth to Water (DTW): 10.25
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~~ Positive Air Displacement Electric Submersible Waterra Peristaltic Extraction Pump Other 5/8" TUBING W/ CHK VALVE.

Sampling Method: Bailer (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
1220	63.0	6.9	1489	68	0.4	CLEAR/ODOR
1224	63.5	6.9	1501	72	0.8	" "
1228	63.7	7.0	1600	58	1.2	" "

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

Sampling Date: 1/5/04 Sampling Time: 1230 Depth to Water: 11.20

Sample I.D.: (DUP 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:)	3.0 mg/L	(Post-purge:)	2.8	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 040105	Site: 97088250
Sampler: Scott	Date: 1/5/04
Well I.D.: VW-AS-3	Well Diameter: 2 3 4 6 8 (1)
Total Well Depth (TD): 19.70	Depth to Water (DTW): 9.79
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]: 11.73	

Purge Method: Bailer (F) / ~~Disposable Bailer PVC~~ / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other 5/8" TUBING w/ CHK VALVE

Sampling Method: Bailer / Disposable Bailer PVC / 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

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

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
1105	62.8	6.8	1035	77	0.4	ALMOST CLEAR
1108	63.4	6.8	1042	50	0.8	CLEAR
1111	63.5	6.8	1100	41	1.2	"

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

Sampling Date: 1/5/04 Sampling Time: 1113 Depth to Water: 11.50

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:	3.6 mg/L	Post-purge:	2.8	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 040105	Site: 97088250
Sampler: Scott	Date: 1/5/04
Well I.D.: VW / MW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 24.88	Depth to Water (DTW): 9.82
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]: 12.23	

Purge Method: (Bailer) Waterra Sampling Method: (Bailer)
Disposable Bailer Peristaltic Disposable Bailer
Positive Air Displacement Extraction Pump Extraction Port
Electric Submersible Other_____ 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
1235	64.3	6.9	791	>200	2	BROWN
1237	65.0	6.8	719	>200	4	"
1239	65.3	6.8	716	>200	6	"

Did well dewater?	Yes (No)	Gallons actually evacuated: 6			
Sampling Date: 1/5/04	Sampling Time: 1241	Depth to Water: 11.83			
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):	2.8 mg/L	(Post-purge):	1.8 mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 040105	Site: 97088250
Sampler: Scott	Date: 1/5/04
Well I.D.: VW/MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 18.45	Depth to Water (DTW): 9.60
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]: 11.37	

Purge Method: (Bailer) Waterra — Sampling Method: (Bailer)
Disposable Bailer — Peristaltic — Disposable Bailer
Positive Air Displacement — Extraction Pump — Extraction Port
Electric Submersible — Other_____ — 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
1141	63.5	6.8	1017	124	1.4	purple
1143	64.0	6.9	1032	83	2.8	
1145	64.3	6.9	1066	57	4.5	almost clear

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

Sampling Date: 1/5/04 Sampling Time: 1147 Depth to Water: 11.15

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