



Shell Oil Products US

January 26, 2004

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

Alameda County

JAN 29 2004

Subject: Shell-branded Service Station
350 Grand Avenue
Oakland, California

Environmental Health

Dear Mr. Hwang:

Attached for your review and comment is a copy of the *Fourth Quarter 2003 Groundwater Monitoring Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna
Sr. Environmental Engineer

C A M B R I A

January 26, 2004

Mr. Don Hwang
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Alameda County
JAN 29 2004
Environmental Health

Re: **Groundwater Monitoring Report - Fourth Quarter 2003**
Shell-branded Service Station
350 Grand Avenue
Oakland, California
SAP Code 135698
Incident #98995755



Dear Mr. Hwang:

Cambria Environmental Technology, Inc. (Cambria) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) in accordance with the quarterly reporting requirements of 23 CCR 2652d.

FOURTH QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged all site wells, sampled selected wells and prepared a summary table of field data and petroleum hydrocarbon and methyl tertiary butyl ether (MTBE) concentrations. Cambria prepared a vicinity/area well survey map (Figure 1) and a groundwater contour/chemical concentration map (Figure 2). Blaine's report, presenting the laboratory report, is included as Appendix A.

Groundwater Remediation: As recommended in our October 7, 2002 *Third Quarter 2002 Monitoring Report*, Cambria initiated twice-monthly mobile groundwater extraction (GWE) using a vacuum truck at the site in October 2002. Cambria reduced the frequency of mobile GWE to monthly during the fourth quarter 2003. Mobile GWE is currently performed using only tank backfill wells T-1 and T-2. Vacuum trucks are provided by Onyx Industrial Services of Benicia, California, and extracted groundwater is transported to Shell's Martinez refinery for recycling. Groundwater purge volumes and estimated mass removal data are presented in Table 1.

Oakland, CA
San Ramon, CA
Sonoma, CA

**Cambria
Environmental
Technology, Inc.**

270 Perkins Street
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Tel (707) 935-4850
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MTBE concentrations in wells T-1 and T-2 have shown an overall decreasing concentration trend indicative of mass removal within the UST complex since GWE was initiated in October 2002. MTBE concentrations in T-1 have decreased by two orders of magnitude during this time. The

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cumulative estimated volume of water removed from the site through GWE is 54,679 gallons. This volume of water corresponds to the removal of approximately 2.56 pounds of MTBE. Tank backfill well T-2 was dry during the monitoring event on November 2, 2003, so Cambria used the analytical data from T-1 to represent the tank backfill concentrations at T-2 to calculate the contaminant mass removal.

Interim Remediation: In an attempt to reduce the elevated concentrations of contaminants from the vicinity of monitoring well S-2, Cambria performed short-term DPE testing on that well during the week of September 15, 2003. Cambria's *Interim Remediation Report* submitted on December 15, 2003, summarizes the results of dual-phase extraction from monitoring well S-2 and soil vapor extraction from tank backfill well T-1.



ANTICIPATED FIRST QUARTER 2004 ACTIVITIES

Groundwater Monitoring: Blaine will gauge all site wells, sample selected wells, and tabulate the data. Cambria will prepare a groundwater monitoring report.

Groundwater Remediation: Given the low concentrations of MTBE in the current tank complex (220 ppb in T-1), Mobile GWE from tank backfill wells will be discontinued as of the date of this document.

Subsurface Investigation: The only site well with significant residual impact is well S-2. As documented in previous submittals, groundwater extraction and vapor extraction are ineffective at that location. The lateral extent of MTBE in groundwater has not been defined to the north, and investigation of the utilities as potential conduits should be assessed. Cambria submitted a *Tank Backfill Well Installation Report and Investigation Work Plan Addendum* on September 26, 2002 proposing the installation of four soil borings shown on Figure 2. Since more than 60 days have passed without receiving a written response, we will proceed with implementation of the work plan during the first quarter of 2004.

HISTORICAL REMEDIATION SUMMARY

2001 Dual-Phase Vapor Extraction (DVE) Pilot Test: In June 2001, Cambria conducted an 8-hour DVE pilot test on groundwater monitoring well S-2. DVE is the process of applying high vacuum through an airtight well seal to simultaneously extract soil vapors from the vadose zone and enhance groundwater extraction from the saturated zone. Approximately 50 gallons of groundwater were extracted during the 8-hour test. This data is consistent with the low permeability soil (sandy silt and silt) encountered at this site. Estimated mass removal through

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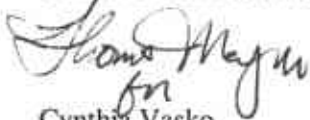
groundwater extraction of TPHg, benzene, and MTBE was 0.008 pounds, 0.0004 pounds, and 0.009 pounds, respectively. Estimated mass removal through vapor extraction of TPHg, benzene, and MTBE was 2.44 pounds, 0.002 pounds, and 0.005 pounds, respectively.

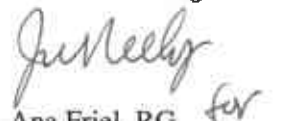
2003 Interim Remediation: Cambria conducted dual-phase extraction (DPE) from groundwater monitoring well S-2 between September 16 and September 18, 2003. Approximately 35 gallons of groundwater were extracted during approximately 50 hours of DPE from S-2. This data is consistent with the low permeability soil (sandy silt and silt) encountered at this site, and with previous DVE testing performed at the site. Estimated mass removal through groundwater extraction is considered negligible. Cambria also conducted soil vapor extraction (SVE) from tank backfill well T-1 on September 18 in an effort to maximize mass removal and gain additional information about the site. Estimated mass removal from the site through vapor extraction of TPHg, benzene, and MTBE was 0.152 pounds, 0.0009 pounds, and 0.0042 pounds, respectively.

CLOSING

If you have any questions regarding this document, please call Ana Friel at (707) 442-2700.

Sincerely,
Cambria Environmental Technology, Inc


for
Cynthia Vasko
Senior Staff Engineer


for
Ana Friel, RG
Senior Project Geologist
RG 6452



C A M B R I A

Attachments:

Table 1. Mass Removal Data

Figure 1. Vicinity/Area Well Survey Map

Figure 2. Groundwater Contour/Chemical Concentration Map

Appendix A. Blaine Tech Services, Inc. - Groundwater Monitoring Report



cc: Karen Petryna, Shell Oil Products US
Gursharnjeet Cheema, 1060 St. Raphael Drive, Bay Point, CA 94565

Table 1. Mass Removal Data, Shell-branded Service Station, 350 Grand Avenue, Oakland, California

Date Purged	Well ID	Cumulative		Date Sampled	TPHg	TPHg	Cumulative	Benzene	Benzene	Cumulative	MTBE	MTBE	Cumulative
		Volume Pumped (gal)	Volume Pumped (gal)		Concentration (ppb)	Removed (pounds)	Removed (pounds)	Concentration (ppb)	Removed (pounds)	Removed (pounds)	Concentration (ppb)	Removed (pounds)	Removed (pounds)
06/27/01	S-2	50	50	02/16/01	20,000	0.008	0.008	990	0.000	0.000	21,000	0.009	0.009
10/08/02	T-1	750	750	07/16/02	<5,000	0.016	0.016	<50	0.000	0.000	14,000	0.088	0.088
10/21/02	T-1	0	750	10/10/02	<5,000	0.000	0.016	<50	0.000	0.000	17,000	0.000	0.088
11/09/02	T-1	771	1,521	10/10/02	<5,000	0.016	0.032	<50	0.000	0.000	17,000	0.109	0.197
11/26/02	T-1	695	2,216	10/10/02	<5,000	0.014	0.046	<50	0.000	0.000	17,000	0.099	0.296
12/11/02	T-1	480	2,696	10/10/02	<5,000	0.010	0.056	<50	0.000	0.001	17,000	0.068	0.364
12/24/02	T-1	1,387	4,083	10/10/02	<5,000	0.029	0.085	<50	0.000	0.001	17,000	0.197	0.560
01/09/03	T-1	2,288	6,371	10/10/02	<5,000	0.048	0.133	<50	0.000	0.001	17,000	0.325	0.885
01/22/03	T-1	165	6,536	01/16/03	<1,000	0.001	0.134	12	0.000	0.001	5,800	0.008	0.893
02/12/03	T-1	0	6,536	01/16/03	<1,000	0.000	0.134	12	0.000	0.001	5,800	0.000	0.893
02/25/03	T-1	1,624	8,160	01/16/03	<1,000	0.007	0.140	12	0.000	0.002	5,800	0.079	0.972
03/12/03	T-1	1,000	9,160	01/16/03	<1,000	0.004	0.145	12	0.000	0.002	5,800	0.048	1.020
03/26/03	T-1	254	9,414	01/16/03	<1,000	0.001	0.146	12	0.000	0.002	5,800	0.012	1.032
04/07/03	T-1	1,108	10,522	01/16/03	<1,000	0.005	0.150	12	0.000	0.002	5,800	0.054	1.086
04/21/03	T-1	1,297	11,819	01/16/03	<1,000	0.005	0.156	12	0.000	0.002	5,800	0.063	1.149
05/05/03	T-1	1,314	13,133	05/02/03	<2,500	0.014	0.169	<25	0.000	0.002	3,300	0.036	1.185
05/19/03	T-1	1,019	14,152	05/02/03	<2,500	0.011	0.180	<25	0.000	0.002	3,300	0.028	1.213
06/09/03	T-1	983	15,135	05/02/03	<2,500	0.010	0.190	<25	0.000	0.002	3,300	0.027	1.240
06/23/03	T-1	987	16,122	05/02/03	<2,500	0.010	0.201	<25	0.000	0.002	3,300	0.027	1.267
07/08/03	T-1	828	16,950	05/02/03	<2,500	0.009	0.209	<25	0.000	0.002	3,300	0.023	1.290
07/23/03	T-1	738	17,688	07/17/03	<1,000	0.003	0.212	<10	0.000	0.002	3,300	0.020	1.310
08/06/03	T-1	1,100	18,788	07/17/03	<1,000	0.005	0.217	<10	0.000	0.002	3,300	0.030	1.341
08/20/03	T-1	823	19,611	07/17/03	<1,000	0.003	0.220	<10	0.000	0.003	3,300	0.023	1.363
09/10/03	T-1	671	20,282	07/17/03	<1,000	0.003	0.223	<10	0.000	0.003	3,300	0.018	1.382
09/25/03	T-1	683	20,965	07/17/03	<1,000	0.003	0.226	<10	0.000	0.003	3,300	0.019	1.400
10/09/03	T-1	550	21,515	07/17/03	<1,000	0.002	0.228	<10	0.000	0.003	3,300	0.015	1.416

Table 1. Mass Removal Data, Shell-branded Service Station, 350 Grand Avenue, Oakland, California

Date Purged	Well ID	Cumulative		Date Sampled	TPHg Concentration (ppb)	TPHg Removed (pounds)	Cumulative TPHg Removed (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Cumulative Benzene Removed (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	Cumulative MTBE Removed (pounds)
		Volume Pumped (gal)	Volume Pumped (gal)										
11/13/03	T-1	1,000	22,515	11/04/03	<500	0.002	0.230	<5.0	0.000	0.003	220	0.002	1.417
12/11/03	T-1	1,314	23,829	11/04/03	<500	0.003	0.233	<5.0	0.000	0.003	220	0.002	1.420
01/12/04	T-1	1,100	24,929	11/04/03	<500	0.002	0.235	<5.0	0.000	0.003	220	0.002	1.422
10/08/02	T-2	550	550	07/16/02	<5,000	0.011	0.011	<50	0.000	0.000	17,000	0.078	0.078
10/21/02	T-2	750	1,300	07/16/02	<5,000	0.016	0.027	<50	0.000	0.000	17,000	0.106	0.184
11/09/02	T-2	150	1,450	07/16/02	<5,000	0.003	0.030	<50	0.000	0.000	17,000	0.021	0.206
11/26/02	T-2	0	1,450	07/16/02	<5,000	0.000	0.030	<50	0.000	0.000	17,000	0.000	0.206
12/11/02	T-2	0	1,450	07/16/02	<5,000	0.000	0.030	<50	0.000	0.000	17,000	0.000	0.206
12/24/02	T-2	1,383	2,833	07/16/02	<5,000	0.029	0.059	<50	0.000	0.001	17,000	0.196	0.402
01/09/03	T-2	2,309	5,142	07/16/02	<5,000	0.048	0.107	<50	0.000	0.001	17,000	0.328	0.729
01/22/03	T-2	2,200	7,342	01/16/03	<1,000	0.009	0.116	<10	0.000	0.001	2,900	0.053	0.783
02/12/03	T-2	2,103	9,445	01/16/03	<1,000	0.009	0.125	<10	0.000	0.001	2,900	0.051	0.834
02/25/03	T-2	1,883	11,328	01/16/03	<1,000	0.008	0.133	<10	0.000	0.001	2,900	0.046	0.879
03/12/03	T-2	1,130	12,458	01/16/03	<1,000	0.005	0.138	<10	0.000	0.001	2,900	0.027	0.906
03/26/03	T-2	2,000	14,458	01/16/03	<1,000	0.008	0.146	<10	0.000	0.001	2,900	0.048	0.955
04/07/03	T-2	1,000	15,458	01/16/03	<1,000	0.004	0.150	<10	0.000	0.002	2,900	0.024	0.979
04/21/03	T-2	2,254	17,712	01/16/03	<1,000	0.009	0.160	<10	0.000	0.002	2,900	0.055	1.034
05/05/03	T-2	2,252	19,964	05/02/03	<500	0.005	0.164	<5.0	0.000	0.002	1,000	0.019	1.052
05/19/03	T-2	1,823	21,787	05/02/03	<500	0.004	0.168	<5.0	0.000	0.002	1,000	0.015	1.068
06/09/03	T-2	1,751	23,538	05/02/03	<500	0.004	0.172	<5.0	0.000	0.002	1,000	0.015	1.082
06/23/03	T-2	850	24,388	05/02/03	<500	0.002	0.174	<5.0	0.000	0.002	1,000	0.007	1.089
07/08/03	T-2	700	25,088	05/02/03	<500	0.001	0.175	<5.0	0.000	0.002	1,000	0.006	1.095
07/23/03	T-2	650	25,738	07/17/03	<1,000	0.003	0.178	<10	0.000	0.002	2,800	0.015	1.110
08/06/03	T-2	100	25,838	07/17/03	<1,000	0.000	0.178	<10	0.000	0.002	2,800	0.002	1.113
08/20/03	T-2	100	25,938	07/17/03	<1,000	0.000	0.179	<10	0.000	0.002	2,800	0.002	1.115
09/10/03	T-2	140	26,078	07/17/03	<1,000	0.001	0.179	<10	0.000	0.002	2,800	0.003	1.118

Table 1. Mass Removal Data, Shell-branded Service Station, 350 Grand Avenue, Oakland, California

Date Purged	Well ID	Cumulative		Date Sampled	TPHg Concentration (ppb)	TPHg Removed (pounds)	Cumulative TPHg Removed (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Cumulative Benzene Removed (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	Cumulative MTBE Removed (pounds)
		Volume Pumped (gal)	Volume Pumped (gal)										
09/25/03	T-2	10	26,088	07/17/03	<1,000	0.000	0.179	<10	0.000	0.002	2,800	0.000	1.119
10/09/03	T-2	40	26,128	07/17/03	<1,000	0.000	0.179	<10	0.000	0.002	2,800	0.001	1.119
11/13/03	T-2	326	26,454	07/17/03 ¹	<500	0.001	0.180	<5.0	0.000	0.002	220	0.001	1.120
12/11/03	T-2	2,146	28,600	07/17/03 ¹	<500	0.004	0.185	<5.0	0.000	0.002	220	0.004	1.124
01/12/04	T-2	1,100	29,700	07/17/03 ¹	<500	0.002	0.187	<5.0	0.000	0.002	220	0.002	1.126
Total Gallons Extracted:			54,679	Total Pounds Removed:			0.431	Total Gallons Removed:			0.005	2.56	
							0.071				0.001	0.412	

Abbreviations & Notes:

TPHg = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

ppb = Parts per billion

gal = Gallon

Mass removed based on the formula: volume extracted (gal) x concentration (µg/L) x (g/10⁶µg) 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)

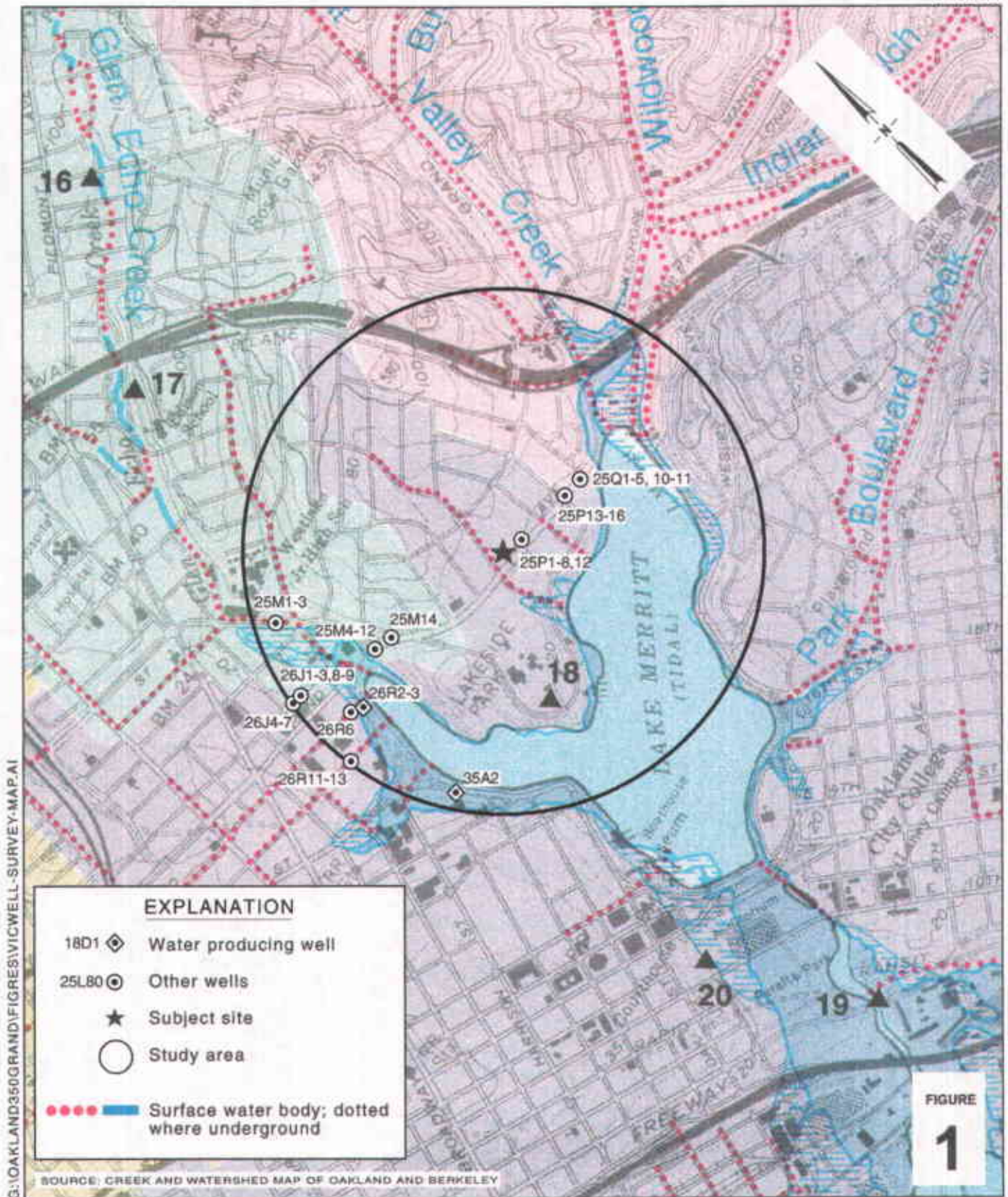
TPHg, benzene, and MTBE analyzed by EPA Method 8260.

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 Onyx Industrial. Water disposed of at a Martinez Refinery.

¹ Concentration data from 11/4/03 is not available for well T-2 because the well was dry on this day; therefore concentrations from T-1 on 11/4/03 were used for mass removal calculation.



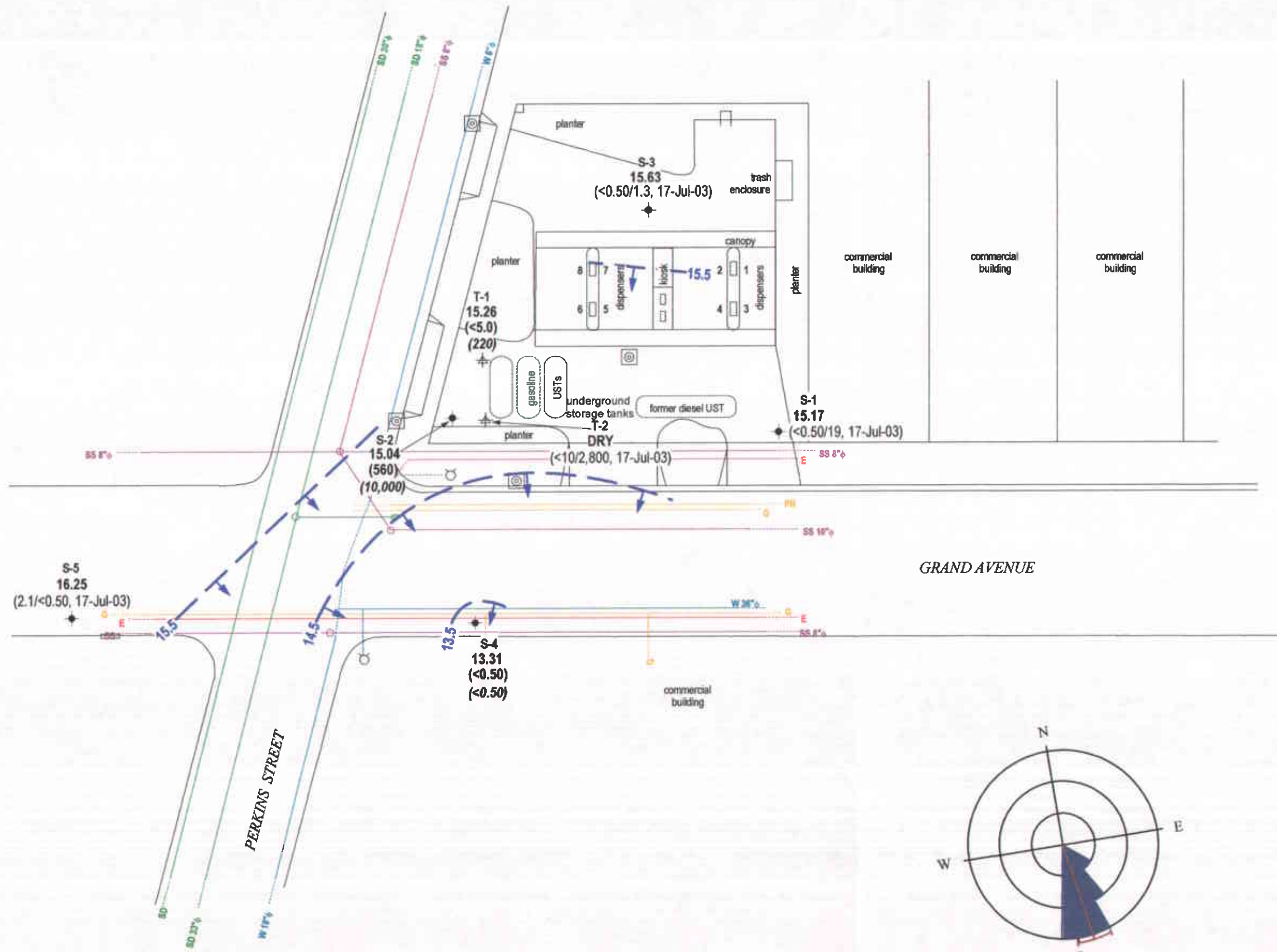
Shell-branded Service Station

350 Grand Avenue
Oakland, California
Incident #98995755



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Vicinity/Area Well Survey Map



EXPLANATION

- Proposed soil boring location
- Groundwater monitoring well
- T-1** Tank backfill well location
- E** Electric utility line
- W** Water main utility line
- G** Gas utility line
- SS** Sanitary sewer utility line
- SD** Storm drain utility line
- PB** Pacific Bell utility line
- Storm drain inlet
- Manhole
- Fire hydrant
- Groundwater elevation contour in feet above mean sea level (ft msl). Arrows indicate approximate direction of groundwater flow.
- 13.31** Groundwater elevation in ft msl
- <0.50** Benzene concentration in parts per billion
- <0.50** MTBE concentration in ppb
- <0.50/19, 17-Jul-03** Benzene/MTBE concentration in parts per billion, date last sampled

Approximate hydraulic gradient = 0.012 to 0.023

NOTE: Utilities lines are dashed where inferred.

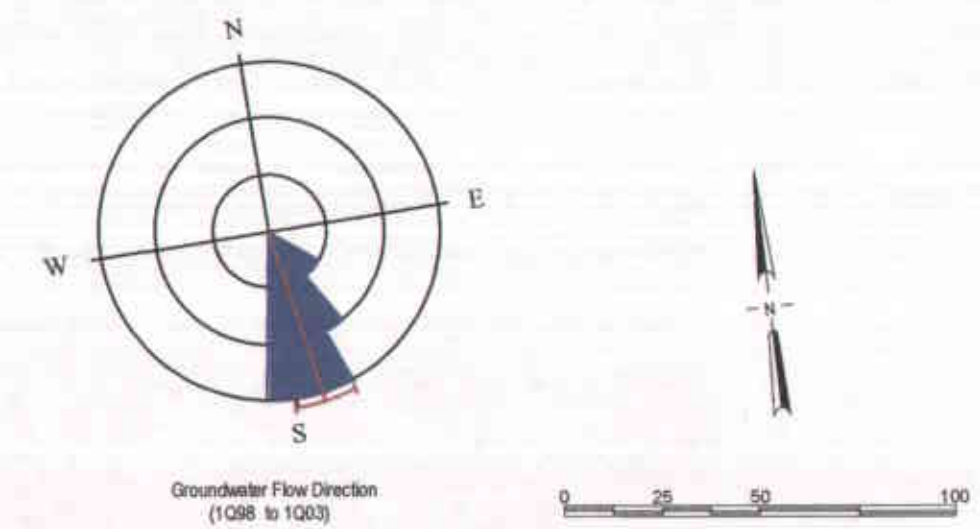


FIGURE 2

APPENDIX A
Blaine Tech Services, Inc.
Groundwater Monitoring Report

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

December 4, 2003

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

Fourth Quarter 2003 Groundwater Monitoring at
Shell-branded Service Station
350 Grand Avenue
Oakland, CA

Monitoring performed on November 4, 2003

Groundwater Monitoring Report 031104-PC-1

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purge water (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/jt

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

cc: Ana Friel
Cambria Environmental Technology, Inc.
P.O. Box 259
Sonoma, CA 95476-0259

WELL CONCENTRATIONS
Shell-branded Service Station
350 Grand Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	01/23/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	9.73	11.11	NA
S-1	04/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	7.37	13.47	NA
S-1	07/19/1991	<50	<50	6.8	<0.5	<0.5	<0.5	NA	NA	20.84	8.92	11.92	NA
S-1	10/09/1991	120	260d	10	<0.5	<0.5	<0.5	NA	NA	20.84	9.62	11.22	NA
S-1	01/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	8.94	11.90	NA
S-1	04/27/1992	<50	70b	1.2	<0.5	<0.5	<0.5	NA	NA	20.84	7.06	13.78	NA
S-1	07/10/1992	<50	930	13	<0.5	<0.5	<0.5	NA	NA	20.84	8.31	12.53	NA
S-1	10/06/1992	62	110	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	9.55	11.29	NA
S-1	01/06/1993	85	81	1.1	<0.5	<0.5	<0.5	NA	NA	20.84	9.86	10.98	NA
S-1	04/26/1993	<50	53c	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	6.30	14.54	NA
S-1 (D)	04/26/1993	<50	53c	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	6.30	14.54	NA
S-1	07/20/1993	<50	140	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	8.78	12.06	NA
S-1	10/18/1993	<50	210	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	9.20	11.64	NA
S-1	01/07/1994	<50	<50	1.4	1.5	0.55	2.8	NA	NA	20.84	9.53	11.31	NA
S-1 (D)	01/07/1994	<50	53	1.2	1.5	<0.5	2.7	NA	NA	20.84	9.53	11.31	NA
S-1	04/11/1994	<50	320	2.8	<0.5	<0.5	<0.5	NA	NA	20.84	8.50	12.34	NA
S-1 (D)	04/11/1994	<50	220	2.6	<0.5	<0.5	<0.5	NA	NA	20.84	8.50	12.34	NA
S-1	07/14/1994	NA	NA	NA	NA	NA	NA	NA	NA	20.84	8.45	12.39	NA
S-1	07/19/1994	<50	110	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	9.07	11.77	NA
S-1	10/06/1994	110	370	1.4	<0.5	<0.5	<0.5	NA	NA	20.84	11.68	9.16	NA
S-1	01/04/1995	120	1,000	2.5	<0.5	1.5	1.7	NA	NA	20.84	8.51	12.33	NA
S-1	04/12/1995	<50	290	2.1	<0.5	<0.5	<0.5	NA	NA	20.84	6.66	14.18	NA
S-1 (D)	04/12/1995	<50	480	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	6.66	14.18	NA
S-1	07/07/1995	<50	370	5.5	<0.5	<0.5	<0.5	NA	NA	20.84	6.95	13.89	NA
S-1 (D)	07/07/1995	<50	450	6.5	<0.5	<0.5	<0.5	NA	NA	20.84	6.95	13.89	NA
S-1	10/05/1995	<50	200	3.9	1.2	<0.5	2.4	NA	NA	20.84	8.50	12.34	NA

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	01/12/1996	230	1,500	2.5	<0.5	0.9	0.6	NA	NA	20.84	8.02	12.82	NA
S-1	04/02/1996	95	2,000	0.91	<0.5	<0.5	<0.5	140	NA	20.84	4.98	15.86	NA
S-1	07/30/1996	<50	510	<0.5	<0.5	<0.5	<0.5	67	NA	20.84	6.40	14.44	NA
S-1 (D)	07/30/1996	<50	380	<0.5	<0.5	<0.5	<0.5	68	NA	20.84	6.40	14.44	NA
S-1	10/02/1996	<50	250	<0.5	<0.5	<0.5	<0.5	96	NA	20.84	7.53	13.31	NA
S-1	09/19/1997	<50	120	<0.50	<0.50	<0.50	<0.50	37	NA	20.84	8.54	12.30	0.8
S-1	01/08/1998	<50	210	<0.50	<0.50	<0.50	<0.50	74	NA	20.84	9.09	11.75	2.6
S-1	07/17/1998	<50	99	<0.50	<0.50	<0.50	<0.50	25	NA	20.86	6.48	14.38	2.6
S-1	01/28/1999	92.7	212	4.5	1.83	1.59	12.1	2.17	NA	20.86	10.46	10.40	2.2
S-1	07/23/1999	537	<50	81.1	91.3	24.8	81.6	47.9	NA	20.86	10.02	10.84	2.1
S-1	01/24/2000	<50.0	79.6	<0.500	<0.500	<0.500	<0.500	8.41	NA	20.86	8.42	12.44	2.2
S-1	07/27/2000	<50.0	127	<0.500	<0.500	<0.500	<0.500	31.9	NA	20.86	7.34	13.52	1.6
S-1	01/12/2001	<50.0	225	<0.500	<0.500	<0.500	<0.500	35.9	NA	20.86	8.15	12.71	1.8
S-1	02/16/2001	<50	140	<0.50	<0.50	<0.50	1.0	NA	24	20.86	7.42	13.44	6.1
S-1	07/09/2001	<50	57	<0.50	<0.50	<0.50	<0.50	NA	19	20.86	7.95	12.91	5.4
S-1	08/07/2001	NA	NA	NA	NA	NA	NA	NA	NA	20.86	7.67	13.19	NA
S-1	10/02/2001	NA	NA	NA	NA	NA	NA	NA	2.5	20.86	7.74	13.12	4.6
S-1	01/18/2002	<50	68	<0.50	<0.50	<0.50	<0.50	NA	31	20.86	6.37	14.49	6.7
S-1	04/17/2002	NA	NA	NA	NA	NA	NA	NA	NA	20.86	6.58	14.28	NA
S-1	07/16/2002	<50	100	<0.50	<0.50	<0.50	0.99	NA	35	23.66	7.38	16.28	7.0
S-1	10/10/2002	NA	NA	NA	NA	NA	NA	NA	NA	23.26	7.89	15.37	NA
S-1	01/16/2003	<50	54	<0.50	<0.50	<0.50	<0.50	NA	17	23.26	6.52	16.74	0.7
S-1	05/02/2003	NA	NA	NA	NA	NA	NA	NA	NA	23.26	6.44	16.82	NA
S-1	07/17/2003	<50	93 i	<0.50	<0.50	<0.50	<1.0	NA	19	23.26	6.96	16.30	0.9
S-1	11/04/2003	NA	NA	NA	NA	NA	NA	NA	NA	23.26	8.09	15.17	NA

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S-2	01/23/1991	2,500	1,200	550	15	33	42	NA	NA	21.24	10.55	10.69	NA
S-2	04/25/1991	32,000	20,000b	2,900	480	1,400	2,300	NA	NA	21.24	8.24	13.00	NA
S-2	07/19/1991	21,000	30,000b	4,700	430	1,200	2,400	NA	NA	21.24	9.55	11.69	NA
S-2	10/09/1991	29,000	32,000b	6,300	510	1,700	2,400	NA	NA	21.24	10.26	10.98	NA
S-2	01/23/1992	31,000	36,000b	5,800	480	2,000	2,700	NA	NA	21.24	9.51	11.73	NA
S-2	04/27/1992	21,000d	12,000b	4,800	320	1,600	1,400	NA	NA	21.24	7.83	13.41	NA
S-2	07/10/1992	31,000	3,700e	7,500	940	3,400	3,500	NA	NA	21.24	8.57	12.67	NA
S-2	10/06/1992	57,000	4,500e	9,300	1,200	4,000	4,900	NA	NA	21.24	9.49	11.75	NA
S-2	01/06/1993	55,000	5,600	5,600	360	3,000	3,000	NA	NA	21.24	8.56	12.68	NA
S-2	04/26/1993	32,000	9,400e	10,000	500	4,400	3,600	NA	NA	21.24	6.84	14.40	NA
S-2	07/20/1993	25,000	8,400e	5,800	300	2,700	1,400	NA	NA	21.24	8.52	12.72	NA
S-2 (D)	07/20/1993	25,000	8,900e	5,900	310	2,800	1,400	NA	NA	21.24	8.52	12.72	NA
S-2	10/18/1993	23,000	18,000e	3,700	200	2,100	1,600	NA	NA	21.24	9.36	11.88	NA
S-2 (D)	10/18/1993	28,000	14,000e	3,700	210	2,100	1,600	NA	NA	21.24	9.36	11.88	NA
S-2	01/07/1994	120,000	22,000e	6,900	400	3,100	2,600	NA	NA	21.24	8.37	12.87	NA
S-2	04/11/1994	34,000	17,000e	4,800	170	1,900	880	NA	NA	21.24	6.96	14.28	NA
S-2	07/14/1994	NA	NA	NA	NA	NA	NA	NA	NA	21.24	7.49	13.75	NA
S-2	07/19/1994	23,000	NA	4,300	210	1,100	1,000	NA	NA	21.24	8.02	13.22	NA
S-2 (D)	07/19/1994	29,000	NA	4,700	270	1,200	1,200	NA	NA	21.24	8.02	13.22	NA
S-2	10/06/1994	61,000	NA	4,600	290	1,900	1,900	NA	NA	21.24	11.00	10.24	NA
S-2 (D)	10/06/1994	52,000	NA	5,200	270	2,100	1,900	NA	NA	21.24	11.00	10.24	NA
S-2	01/04/1994	23,000	NA	4,500	49	1,300	500	NA	NA	21.24	8.07	13.17	NA
S-2 (D)	01/04/1995	18,000	NA	3,800	33	1,100	390	NA	NA	21.24	8.07	13.17	NA
S-2	04/12/1995	29,000	NA	4,300	210	990	700	NA	NA	21.24	6.12	15.12	NA
S-2	07/07/1995	26,000	NA	4,200	180	1,100	730	NA	NA	21.24	6.35	14.89	NA
S-2	10/05/1995	26,000	10,000	3,500	150	1,100	640	NA	NA	21.24	7.36	13.88	NA

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S-2 (D)	10/05/1995	33,000	9,400	4,200	210	1,500	850	NA	NA	21.24	7.36	13.88	NA
S-2	01/12/1996	36,000	13,000	4,100	240	1,400	790	NA	NA	21.24	7.64	13.60	NA
S-2 (D)	01/12/1996	40,000	11,000	4,100	260	1,400	860	NA	NA	21.24	7.64	13.60	NA
S-2	04/02/1996	12,000	7,300	1,300	120	460	150	4,000	NA	21.24	6.18	15.06	NA
S-2 (D)	04/02/1996	17,000	5,800	1,800	29	590	140	7,600	NA	21.24	6.18	15.06	NA
S-2	07/30/1996	18,000	13,000	3,000	100	1,200	420	17,000	19,000	21.24	7.22	14.02	NA
S-2	10/02/1996	28,000	18,000	3,700	110	1,100	260	20,000	NA	21.24	7.60	13.64	NA
S-2 (D)	10/02/1996	25,000	31,000	3,500	100	1,100	260	19,000	NA	21.24	7.60	13.64	NA
S-2	09/19/1997	21,000	11,000	2,300	120	500	110	11,000	NA	21.24	7.45	13.79	2.1
S-2	01/08/1998	35,000	8,100	3,200	260	850	320	23,000	NA	21.24	6.96	14.28	2.3
S-2 (D)	01/08/1998	27,000	5,400	3,400	190	860	200	23,000	NA	21.24	6.96	14.28	2.3
S-2	07/17/1998	19,000	12,000	1,700	130	610	130	13,000	NA	21.24	6.67	14.57	2.3
S-2	01/28/1999	482	99	24	7.52	5.41	63.7	11	NA	21.24	10.63	10.61	2.4
S-2	07/23/1999	320	223	52.0	54.5	14.7	48.6	33.9	NA	21.24	10.12	11.12	2.6
S-2	01/24/2000	18,500	7,600	1,440	140	472	68.9	6,940	NA	21.24	8.63	12.61	1.6
S-2	07/27/2000	14,900	10,200	1,250	98.8	437	<50.0	22,200	30,200	21.24	7.94	13.30	2.0
S-2	01/12/2001 h	17,200	8,050	930	88.8	497	57.0	23,200	18,500	21.24	8.82	12.42	1.9
S-2	02/16/2001	20,000	<5,000	990	93	450	63	NA	21,000	21.24	7.10	14.14	1.6
S-2	07/09/2001	16,000	26,000	690	62	210	<50	NA	27,000	21.24	8.35	12.89	2.1
S-2	08/07/2001	NA	NA	NA	NA	NA	NA	NA	NA	21.24	8.19	13.05	NA
S-2	10/02/2001	18,000	<12,000	810	89	470	69	NA	23,000	21.24	8.50	12.74	2.0
S-2	01/18/2002	21,000	21,000	750	79	470	69	NA	23,000	21.24	6.96	14.28	5.9
S-2	04/17/2002	34,000	<26,000	620	70	390	60	NA	17,000	21.24	7.39	13.85	0.6
S-2	07/16/2002	14,000	<10,000	630	75	310	33	NA	20,000	24.03	7.95	16.08	6.0
S-2	10/10/2002	11,000	<6,000	480	50	190	<50	NA	15,000	23.73	8.36	15.37	1.0
S-2	01/16/2003	16,000	<8,000	720	88	290	89	NA	17,000	23.73	6.98	16.75	0.7

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S-2	05/02/2003	12,000 i	4,800 i	560	<50	<50	<100	NA	14,000	23.73	7.02	16.71	1.1
S-2	07/17/2003	26,000	4,800 i	850	85	240	<100	NA	13,000	23.73	8.06	15.67	2.1
S-2	11/04/2003	10,000	3,600 i	560	62	250	<100	NA	10,000	23.73	8.69	15.04	0.8
S-3	01/23/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	14.67	8.03	NA
S-3	04/25/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	12.96	9.74	NA
S-3	07/19/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	12.45	10.25	NA
S-3	10/09/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	12.98	9.72	NA
S-3	01/23/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	13.06	9.64	NA
S-3	04/27/1992	<50	100	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	7.25	15.45	NA
S-3	07/10/1992	<50	68	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	8.46	14.24	NA
S-3	10/06/1992	<50	<10	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	11.77	10.93	NA
S-3	01/06/1993	<50	<10	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	12.53	10.17	NA
S-3	04/26/1993	<50	69	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	4.28	18.42	NA
S-3	07/20/1993	<50	120	<0.5	0.6	<0.5	<0.5	NA	NA	22.70	5.70	17.00	NA
S-3	10/18/1993	<50	160	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	10.30	12.40	NA
S-3	01/07/1994 a	160	58	59	26	4.9	22	NA	NA	22.70	12.40	10.30	NA
S-3	04/11/1994	<50	<50	<0.52	<0.5	<0.5	<0.5	NA	NA	22.70	10.94	11.76	NA
S-3	07/14/1994	NA	NA	NA	NA	NA	NA	NA	NA	22.70	7.90	14.80	NA
S-3	07/19/1994	<50	110d	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	8.12	14.58	NA
S-3	10/06/1994	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	12.15	10.55	NA
S-3	01/04/1995	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	11.18	11.52	NA
S-3	04/12/1995	<50	110	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	3.76	18.94	NA
S-3	07/07/1995	<50	410	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	4.72	17.98	NA
S-3	10/05/1995	<50	160	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	5.80	16.90	NA
S-3	01/12/1996	100	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	7.00	15.70	NA

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S-3	04/02/1996	<50	170	<0.5	<0.5	<0.5	<0.5	3.4	NA	22.70	3.42	19.28	NA
S-3	07/30/1996	<50	92	<0.5	<0.5	<0.5	<0.5	4.3	NA	22.70	5.89	16.81	NA
S-3	10/02/1996	<50	160	<0.5	<0.5	<0.5	<0.5	4.1	NA	22.70	7.20	15.50	NA
S-3	09/19/1997	<50	260	<0.50	<0.50	<0.50	<0.50	4.3	NA	22.70	6.92	15.78	1.4
S-3 (D)	09/19/1997	<50	290	<0.50	<0.50	<0.50	<0.50	5.2	NA	22.70	6.92	15.78	1.4
S-3	01/08/1998	<50	170	<0.50	<0.50	<0.50	0.92	120	NA	22.70	5.77	16.93	2.7
S-3	07/17/1998	<50	97	<0.50	<0.50	<0.50	<0.50	33	NA	22.71	4.17	18.54	2.7
S-3	01/28/1999	656	<50.0	45.4	10.2	4.98	83.2	87.2	NA	22.71	8.15	14.56	1.8
S-3	07/23/1999	<50.0	77.3	<0.500	<0.500	<0.500	<0.500	39.3	NA	22.71	7.46	15.25	1.9
S-3	01/24/2000	<50.0	77.2	<0.500	<0.500	<0.500	<0.500	12.0	NA	22.71	5.92	16.79	2.1
S-3	07/27/2000	<50.0	142	<0.500	<0.500	<0.500	<0.500	<5.00	NA	22.71	6.54	16.17	1.7
S-3	01/12/2001 f	<50.0	96	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.71	8.25	14.46	1.7
S-3	02/16/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	2.0	22.71	11.37	11.34	NA
S-3	07/09/2001	<50	<50	<0.50	0.54	<0.50	<0.50	NA	<5.0	22.71	9.70	13.01	1.4
S-3	08/07/2001	NA	NA	NA	NA	NA	NA	NA	NA	22.71	11.48	11.23	NA
S-3	10/02/2001	NA	NA	NA	NA	NA	NA	NA	NA	22.71	11.56	11.15	NA
S-3	01/18/2002	<50	120	<0.50	<0.50	<0.50	<0.50	NA	<5.0	22.71	7.74	14.97	1.5
S-3	04/17/2002	NA	NA	NA	NA	NA	NA	NA	NA	22.71	6.45	16.26	NA
S-3	07/16/2002	<50	72	<0.50	<0.50	<0.50	0.61	NA	<5.0	25.49	7.70	17.79	5.0
S-3	10/10/2002	NA	NA	NA	NA	NA	NA	NA	NA	25.14	10.15	14.99	NA
S-3	01/16/2003	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	25.14	8.60	16.54	2.9
S-3	05/02/2003	NA	NA	NA	NA	NA	NA	NA	NA	25.14	7.07	18.07	NA
S-3	07/17/2003	<50	74 i	<0.50	<0.50	<0.50	<1.0	NA	1.3	25.14	7.25	17.89	2.5
S-3	11/04/2003	NA	NA	NA	NA	NA	NA	NA	NA	25.14	9.51	15.63	NA
S-4	07/17/1998	<50	220	<0.50	<0.50	<0.50	<0.50	<2.5	NA	19.96	6.59	13.37	2.5

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Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-4 (D)	07/17/1998	<50	260	<0.50	<0.50	<0.50	<0.50	<2.5	NA	19.96	6.59	13.37	2.5
S-4	01/28/1999	<50.0	356	0.882	<0.500	<0.500	0.71	<2.00	NA	19.96	10.57	9.39	3.0
S-4	07/23/1999	<50.0	<50	<0.500	<0.500	<0.500	<0.500	8.27	NA	19.96	10.06	9.90	2.1
S-4	01/24/2000	Unable to sample		NA	NA	NA	NA	NA	NA	19.96	8.29	11.67	NA
S-4	02/02/2000	<50.0	410	<0.500	<0.500	<0.500	<0.500	<5.00	NA	19.96	9.93	10.03	2.0
S-4	07/27/2000	Well inaccessible		NA	NA	NA	NA	NA	NA	19.96	NA	NA	NA
S-4	08/02/2000	<50.0	265	<0.500	<0.500	<0.500	<0.500	<2.50	NA	19.96	8.05	11.91	2.0
S-4	01/12/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	19.96	NA	NA	NA
S-4	01/25/2001	<50.0	235	<0.500	0.629	0.656	4.65	<2.50	NA	19.96	10.12	9.84	2.0
S-4	02/16/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	19.96	NA	NA	NA
S-4	07/09/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	19.96	NA	NA	NA
S-4	08/07/2001	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	19.96	8.77	11.19	2.3
S-4	10/02/2001	<50	350	<0.50	<0.50	<0.50	<0.50	NA	<5.0	19.96	9.09	10.87	2.6
S-4	01/18/2002	Well inaccessible		NA	NA	NA	NA	NA	NA	19.96	NA	NA	NA
S-4	01/23/2002	Insufficient water		NA	NA	NA	NA	NA	NA	19.96	7.13	12.83	NA
S-4	04/17/2002	Insufficient water		NA	NA	NA	NA	NA	NA	19.96	6.28	13.68	NA
S-4	04/26/2002	<50	260	<0.50	<0.50	<0.50	<0.50	NA	<5.0	19.96	5.63	14.33	g
S-4	07/16/2002	<50	250	<0.50	<0.50	<0.50	1.1	NA	<5.0	22.75	6.90	15.85	1.6
S-4	10/10/2002	Insufficient water		NA	NA	NA	NA	NA	NA	22.34	9.20	13.14	NA
S-4	01/16/2003	<50	280	<0.50	<0.50	<0.50	<0.50	NA	<5.0	22.34	7.11	15.23	2.1
S-4	05/02/2003	53	130 i	0.67	<0.50	3.8	2.4	NA	<5.0	22.34	5.14	17.20	0.61
S-4	07/17/2003	<50	76 l	1.4	0.57	2.0	1.3	NA	<0.50	22.34	7.26	15.08	g
S-4	11/04/2003	<50	130 l	<0.50	<0.50	<0.50	<1.0	NA	<0.50	22.34	9.03	13.31	g
S-5	07/17/1998	<50	110	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.27	6.78	15.49	2.2
S-5	01/28/1999	<50.0	109	<0.500	<0.500	<0.500	<0.500	<2.00	NA	22.27	10.75	11.52	2.0

WELL CONCENTRATIONS
Shell-branded Service Station
350 Grand Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-5	07/23/1999	<50.0	204	<0.500	<0.500	<0.500	<0.500	5.95	NA	22.27	10.21	12.06	1.8
S-5	01/24/2000	Unable to sample		NA	NA	NA	NA	NA	NA	22.27	8.23	14.04	NA
S-5	02/02/2000	<50.0	172	<0.500	<0.500	<0.500	<0.500	<5.00	NA	22.27	10.15	12.12	1.9
S-5	07/27/2000	<50.0	119	<0.500	<0.500	<0.500	<0.500	<5.00	NA	22.27	7.41	14.86	2.0
S-5	01/12/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.27	8.80	13.47	NA
S-5	01/25/2001	NA	193	NA	NA	NA	NA	NA	NA	22.27	9.77	12.50	1.7
S-5	02/16/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	22.27	NA	NA	NA
S-5	07/09/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	22.27	NA	NA	NA
S-5	08/07/2001	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	22.27	8.97	13.30	2.2
S-5	10/02/2001	NA	NA	NA	NA	NA	NA	NA	NA	22.27	8.44	13.83	NA
S-5	01/18/2002	<50	190	<0.50	<0.50	<0.50	0.51	NA	<5.0	22.27	6.67	15.60	1.9
S-5	04/17/2002	NA	NA	NA	NA	NA	NA	NA	NA	22.27	6.95	15.32	NA
S-5	07/16/2002	<50	1,200	<0.50	<0.50	<0.50	1.2	NA	<5.0	25.06	7.31	17.75	1.8
S-5	10/10/2002	NA	NA	NA	NA	NA	NA	NA	NA	24.78	8.07	16.71	NA
S-5	01/16/2003	<50	110	<0.50	<0.50	<0.50	<0.50	NA	<5.0	24.78	6.42	18.36	2.3
S-5	05/02/2003	NA	NA	NA	NA	NA	NA	NA	NA	24.78	6.20	18.58	NA
S-5	07/17/2003	<50	67 i	2.1	0.87	2.8	1.9	NA	<0.50	24.78	7.82	16.96	g
S-5	11/04/2003	NA	NA	NA	NA	NA	NA	NA	NA	24.78	8.53	16.25	NA
T-1	07/16/2002	<5,000	180	<50	<50	<50	<50	NA	14,000	NA	7.71	NA	5.0
T-1	10/10/2002	<5,000	320	<50	<50	<50	<50	NA	17,000	24.14	8.91	15.23	2.3
T-1	01/16/2003	<1,000	230	12	<10	<10	<10	NA	5,800	24.14	7.55	16.59	1.2
T-1	05/02/2003	<2,500	400 i	<25	<25	<25	<50	NA	3,300	24.14	7.69	16.45	0.8
T-1	07/17/2003	<1,000	230 i	<10	<10	<10	<20	NA	3,300	24.14	8.52	15.62	1.1
T-1	11/04/2003	<500	200 i	<5.0	<5.0	<5.0	<10	NA	220	24.14	8.88	15.26	1.7

WELL CONCENTRATIONS
Shell-branded Service Station
350 Grand Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
T-2	07/16/2002	<5,000	390	<50	<50	<50	<50	NA	17,000	NA	7.15	NA	4.0
T-2	10/10/2002	Insufficient water		NA	NA	NA	NA	NA	NA	23.55	8.19	15.36	NA
T-2	01/16/2003	<1,000	120	<10	<10	<10	<10	NA	2,900	23.55	6.98	16.57	1.5
T-2	05/02/2003	<500	190 i	<5.0	<5.0	<5.0	<10	NA	1,000	23.55	7.20	16.35	1.3
T-2	07/17/2003	<1,000	200 i	<10	<10	<10	<20	NA	2,800	23.55	7.88	15.67	1.2
T-2	11/04/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	23.55	NA	NA	NA
HP-1	01/27/1993	22,000	14,000	2,500	130	1,400	140	NA	NA	NA	NA	NA	NA
HP-2	01/27/1993	<50	NA	<0.5	4.4	<0.5	<0.5	NA	NA	NA	NA	NA	NA
HP-3	01/27/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
350 Grand Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to February 16, 2001, analyzed by EPA Method 8015.

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to February 16, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOB = Top of Wellbox Elevation

TOC = Top of Casing Elevation

GW = Groundwater

HP = Hydropunch ground water sample

T = Tank backfill well

DO = Dissolved Oxygen

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

NA = Not applicable

WELL CONCENTRATIONS
Shell-branded Service Station
350 Grand Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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Notes:

- a = TPPH/BETX concentrations anomalous with historical data. Lab verified concentrations.
 - b = Compounds reported as TPH-D appear to be the less volatile constituents of gasoline.
 - c = Compounds reported as TPH-D are primarily due to the presence of a heavier petroleum product, possibly motor oil.
 - d = Chromatogram pattern indicated an unidentified hydrocarbon.
 - e = Compounds reported as TPH-D are primarily due to the presence of lighter petroleum product, possibly gasoline.
 - f = These results are listed as S-2 on the analytical report due to possible mislabeling in the field or laboratory.
Resampled on February 16, 2001 to confirm mislabeling.
 - g = DO reading not taken due to insufficient water.
 - h = These results are listed as S-3 on the analytical report due to possible mislabeling in the field or laboratory.
 - i = Hydrocarbon does not match pattern of laboratory's standard.
Resampled on February 16, 2001 to confirm mislabeling.
- Wells S-1, S-3, S-4, and S-5 surveyed on May 4, 1998, by Virgil Chavez Land Surveying of Vallejo, California.
Site surveyed March 5 and July 29, 2002, by Virgil Chavez Land Surveying of Vallejo, California.
Beginning October 10, 2002, depth to water referenced to Top of Casing elevation.

Blaine Tech Services, Inc.

November 18, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 031104-PC1
Project: 98995755
Site: 350 Grand Ave., Oakland

Dear Mr. Gearhart,

Attached is our report for your samples received on 11/05/2003 17:25
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
12/20/2003 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: vvancil@stl-inc.com

Sincerely,



Vincent Vancil
Project Manager

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 031104-PC1
98995755

Received: 11/05/2003 17:25

Site: 350 Grand Ave., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-2	11/04/2003 13:15	Water	1
S-4	11/04/2003 09:50	Water	2
T-1	11/04/2003 12:05	Water	3

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: 031104-PC1
98995755

Received: 11/05/2003 17:25

Site: 350 Grand Ave., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	S-2	Lab ID:	2003-11-0221 - 1
Sampled:	11/04/2003 13:15	Extracted:	11/13/2003 15:06
Matrix:	Water	QC Batch#:	2003/11/13-1B.62
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	10000	5000	ug/L	100.00	11/13/2003 15:06	
Benzene	560	50	ug/L	100.00	11/13/2003 15:06	
Toluene	62	50	ug/L	100.00	11/13/2003 15:06	
Ethylbenzene	250	50	ug/L	100.00	11/13/2003 15:06	
Total xylenes	ND	100	ug/L	100.00	11/13/2003 15:06	
Methyl tert-butyl ether (MTBE)	10000	50	ug/L	100.00	11/13/2003 15:06	
Surrogate(s)						
1,2-Dichloroethane-d4	103.2	76-130	%	100.00	11/13/2003 15:06	
Toluene-d8	95.4	78-115	%	100.00	11/13/2003 15:06	

Severn Trent Laboratories, Inc.

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

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

11/18/2003 14:57

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: 031104-PC1

98995755

Received: 11/05/2003 17:25

Site: 350 Grand Ave., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	S-4	Lab ID:	2003-11-0221 - 2
Sampled:	11/04/2003 09:50	Extracted:	11/13/2003 15:28
Matrix:	Water	QC Batch#:	2003/11/13-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	11/13/2003 15:28	
Benzene	ND	0.50	ug/L	1.00	11/13/2003 15:28	
Toluene	ND	0.50	ug/L	1.00	11/13/2003 15:28	
Ethylbenzene	ND	0.50	ug/L	1.00	11/13/2003 15:28	
Total xylenes	ND	1.0	ug/L	1.00	11/13/2003 15:28	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	11/13/2003 15:28	
Surrogate(s)						
1,2-Dichloroethane-d4	106.5	76-130	%	1.00	11/13/2003 15:28	
Toluene-d8	99.2	78-115	%	1.00	11/13/2003 15:28	

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: 031104-PC1
98995755

Received: 11/05/2003 17:25

Site: 350 Grand Ave., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	T-1	Lab ID:	2003-11-0221 - 3
Sampled:	11/04/2003 12:05	Extracted:	11/13/2003 15:50
Matrix:	Water	QC Batch#:	2003/11/13-1B.62
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	500	ug/L	10.00	11/13/2003 15:50	
Benzene	ND	5.0	ug/L	10.00	11/13/2003 15:50	
Toluene	ND	5.0	ug/L	10.00	11/13/2003 15:50	
Ethylbenzene	ND	5.0	ug/L	10.00	11/13/2003 15:50	
Total xylenes	ND	10	ug/L	10.00	11/13/2003 15:50	
Methyl tert-butyl ether (MTBE)	220	5.0	ug/L	10.00	11/13/2003 15:50	
Surrogate(s)						
1,2-Dichloroethane-d4	104.9	76-130	%	10.00	11/13/2003 15:50	
Toluene-d8	99.8	78-115	%	10.00	11/13/2003 15:50	

Severn Trent Laboratories, Inc.

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

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11/18/2003 14:57

Page 4 of 7

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: 031104-PC1
98995755

Received: 11/05/2003 17:25

Site: 350 Grand Ave., Oakland

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Water		QC Batch # 2003/11/13-1B.62	
MB: 2003/11/13-1B.62-046				Date Extracted: 11/13/2003 09:46	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	11/13/2003 09:46	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/13/2003 09:46	
Benzene	ND	0.5	ug/L	11/13/2003 09:46	
Toluene	ND	0.5	ug/L	11/13/2003 09:46	
Ethylbenzene	ND	0.5	ug/L	11/13/2003 09:46	
Total xylenes	ND	1.0	ug/L	11/13/2003 09:46	
Surrogates(s)					
1,2-Dichloroethane-d4	94.4	76-130	%	11/13/2003 09:46	
Toluene-d8	97.1	78-115	%	11/13/2003 09:46	

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: 031104-PC1
98995755

Received: 11/05/2003 17:25

Site: 350 Grand Ave., Oakland

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
Laboratory Control Spike		Water	QC Batch # 2003/11/13-1B.62
LCS	2003/11/13-1B.62-001	Extracted: 11/13/2003	Analyzed: 11/13/2003 09:01
LCSD	2003/11/13-1B.62-008	Extracted: 11/13/2003	Analyzed: 11/13/2003 10:08

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	16.9	18.0	25	67.6	72.0	6.3	65-165	20		
Benzene	19.2	21.0	25	76.8	84.0	9.0	69-129	20		
Toluene	19.9	22.9	25	79.6	91.6	14.0	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	480	460	500	96.0	92.0		76-130			
Toluene-d8	500	532	500	100.0	106.4		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: 031104-PC1

98995755

Received: 11/05/2003 17:25

Site: 350 Grand Ave., Oakland

Legend and Notes

Analysis Flag

o

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

Diesel

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 031104-PC1

98995755

Received: 11/05/2003 17:25

Site: 350 Grand Ave., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-2	11/04/2003 13:15	Water	1
S-4	11/04/2003 09:50	Water	2
T-1	11/04/2003 12:05	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94586

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

11/18/2003 16:42

Diesel

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 031104-PC1
98995755

Received: 11/05/2003 17:25

Site: 350 Grand Ave., Oakland

Prep(s):	3511	Test(s):	8015M
Sample ID:	S-2	Lab ID:	2003-11-0221 - 1
Sampled:	11/04/2003 13:15	Extracted:	11/11/2003 14:34
Matrix:	Water	QC Batch#:	2003/11/11-08:10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	3600	100	ug/L	2.00	11/18/2003 13:04	ndp
Surrogate(s) o-Terphenyl	112.0	50-150	%	2.00	11/18/2003 13:04	

Diesel

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 031104-PC1

98995755

Received: 11/05/2003 17:25

Site: 350 Grand Ave., Oakland

Prep(s):	3511	Test(s):	8015M
Sample ID:	S-4	Lab ID:	2003-11-0221 - 2
Sampled:	11/04/2003 09:50	Extracted:	11/11/2003 14:34
Matrix:	Water	QC Batch#:	2003/11/11-08:10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	130	50	ug/L	1.00	11/13/2003 13:05	ndp
Surrogate(s)						
o-Terphenyl	140.8	50-150	%	1.00	11/13/2003 13:05	

Diesel

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031104-PC1
98995755

Received: 11/05/2003 17:25

Site: 350 Grand Ave., Oakland

Prep(s):	3511	Test(s):	8015M
Sample ID:	T-1	Lab ID:	2003-11-0221 - 3
Sampled:	11/04/2003 12:05	Extracted:	11/11/2003 14:34
Matrix:	Water	QC Batch#:	2003/11/11-08.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	200	50	ug/L	1.00	11/13/2003 13:33	ndp
<i>Surrogate(s)</i> o-Terphenyl	116.0	50-150	%	1.00	11/13/2003 13:33	

Diesel

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 031104-PC1
98995755

Received: 11/05/2003 17:25

Site: 350 Grand Ave., Oakland

Batch QC Report					
Prep(s): 3511				Test(s): 8015M	
Method Blank		Water		QC Batch # 2003/11/11-08.10	
MB: 2003/11/11-08.10-001				Date Extracted: 11/11/2003 14:34	

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	11/13/2003 12:38	
Surrogates(s) o-Terphenyl	119.2	50-150	%	11/13/2003 12:38	

Diesel

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Project: 031104-PC1
98995755

Received: 11/05/2003 17:25

Site: 350 Grand Ave., Oakland

Batch QC Report									
Prep(s): 3511					Test(s): 8015M				
Laboratory Control Spike			Water			QC Batch # 2003/11/11-08.10			
LCS	2003/11/11-08.10-002		Extracted: 11/11/2003			Analyzed: 11/13/2003 13:05			
LCSD	2003/11/11-08.10-003		Extracted: 11/11/2003			Analyzed: 11/17/2003 18:40			

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	791	796	680	116.3	117.1	0.7	60-150	25		
Surrogates(s) o-Terphenyl	1.47	1.76	1.25	117.6	140.8		50-150	0		

Diesel

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Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

LAD: 314

SHELL Chain Of Custody Record

79895

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Karen Potryna

2003-11-0221

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 5

SAP or CRMT NUMBER (TS/CRMT)

DATE: 11/4/03

PAGE: 1 of 1

SAMPLING COMPANY Blaine Tech Services		LAB CODE BTSS	SITE ADDRESS (Street and City) 350 Grand Ave., Oakland		GLOBAL ID NO. T0600101255
ADDRESS 1680 Rogers Avenue, San Jose, CA 95112		EOP DELIVERABLE TO (Customer/Party of Discovery)		PHONE NO. (707) 442-2700	CONSULTANT PROJECT NO. BTS # 031104-R1
PROJECT CONTACT (Name and Title) Leon Gearhart		SAMPLER NAME(S) (Print) P. Cornish		EMAIL sonomaedf@cambrla-env.com	LAB USE ONLY
TELEPHONE 408-573-0555	FAX 408-573-7771	EMAIL lgearhart@blainetech.com			

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

LA - RWQCB REPORT FORMAT LIST AGENCY: _____

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

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

REQUESTED ANALYSIS

TPH - Gas, Purgeable	BTEX	MTBE (0210 - 50ppb RL)	MTBE (0250B - 0.5ppb RL)	Oxygenates (S) by (0200B)	Ethanol (0200B)	Methanol	EDB & 1,2-DCA (0200B)	TPH-D
X	X	X	X					X
X	X		X					X
X	X		X					X

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

3.2°C

TEMPERATURE ON RECEIPT °C

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	NO. OF CONT.
	DATE	TIME				
	S-2	11/4/03	1315	W	6	
	S-4	↓	950	↓	5	
	T-1	↓	1205	↓	6	

Released by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <u>11/5/03</u>	Time: <u>12:55</u>
Released by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <u>11/5/03</u>	Time: <u>17:25</u>
Released by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <u>11/5/03</u>	Time: <u>17:45</u>