R0487

Shell Oil Products US

February 18, 2005

Roseanna Garcia-La Grille
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: **Shell-branded Service Station**
105 Fifth Street
Oakland, California

Dear Ms. Garcia-La Grille:

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

February 18, 2005

Roseanna Garcia-La Grille
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Fourth Quarter 2004 Monitoring Report**
Shell-branded Service Station
105 Fifth Street
Oakland, California
Incident #98995757
Cambria Project #247-0472-002

Dear Ms. Garcia-La Grille:

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

HISTORICAL REMEDIATION SUMMARY

Mobile dual-phase vacuum extraction (DVE) was performed at the site from April to November 2000 and once in March 2001. Mobile DVE is the process of applying a high vacuum through an airtight well seal to simultaneously extract soil vapors from the vadose zone and enhance groundwater extraction (GWE) from the saturated zone. Between April 2000 and March 2001, the DVE process removed an estimated 14.59 pounds (lbs) of total petroleum hydrocarbons as gasoline (TPHg) and 14.50 lbs of methyl tertiary butyl ether (MTBE) from monitoring wells MW-2 and MW-3. DVE was discontinued due to limited chemical recovery.

FOURTH QUARTER 2004 ACTIVITIES

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

Cambria Environmental Technology, Inc.

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

Additional Oxygenate Analysis: In addition to the regular quarterly analysis for TPHg, benzene, toluene, ethylbenzene, and xylenes (BTEX), and MTBE, groundwater samples from monitoring well MW-3 were analyzed for three additional oxygenates; di-isopropyl ether (DIPE), tert-amyl methyl ether (TAME), and tert-butyl alcohol (TBA). Samples from well MW-3 were also analyzed for lead scavengers 1,2-dichloroethane (1,2-DCA) and 1,2-dibromomethane (EDB). Results of this analysis are presented in the Well Concentrations table included in Blaine's report.

GWE: Beginning in November 2001, Phillips Services Corporation of Benicia, California conducted semi-monthly mobile GWE events from tank backfill well T-1. Mobile GWE vacuum operations consist of lowering dedicated stingers into selected monitoring wells and extracting fluids using a vacuum truck. The volume of extracted fluid is recorded and used to calculate the quantity of aqueous-phase hydrocarbon removed from the subsurface. These events were temporarily discontinued in April 2002 in anticipation of installing a fixed GWE system, and then resumed in May 2002, using vacuum trucks provided by Onyx Industrial Services of Benicia, California. Well MW-3 was added to the extraction program in June 2003, and well MW-2 was added in July 2003. We obtained an encroachment permit from the City of Oakland and began including off-site well MW-6 in the extraction program on August 21, 2003. Extraction from well MW-6 was discontinued after the October 2, 2003 event due to low groundwater production. Due to minimal remaining MTBE concentrations, well T-1 was removed from the extraction program after the September 18, 2003 event and well MW-2 was removed after the November 20, 2003 event. Table 1 presents mass removal data from the GWE events. Through January 20, 2005, a total of 166,628 gallons of water has been extracted, resulting in removal of 8.5 lbs of TPHg and 73.3 lbs of MTBE.

GWE System Installation: We have received all necessary permits for construction of a fixed GWE system. Groundwater monitoring results presented in this report display trends which show a continued substantial decrease in MTBE concentrations. The MTBE concentration in tank backfill well T-1 has decreased from 29,000 parts per billion (ppb) during the fourth quarter of 2002 to 59 ppb this quarter. The concentration in well MW-3 has decreased from 44,000 ppb during the fourth quarter of 2002 to 29,000 ppb this quarter.

Shell will continue to maintain the permits for installation of the GWE system, but will not install it at this time, pending evaluation of additional quarterly groundwater monitoring data.

ANTICIPATED FIRST QUARTER 2005 ACTIVITIES

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

Since Cambria implemented quarterly sample analysis for TBA, DIPE, TAME, EDB and 1,2-DCA from well MW-3 in the fourth quarter of 2002, DIPE, TAME and EDB have never been detected. 1,2-DCA has only been detected once, at a concentration of 120 ppb on July 2, 2004. Therefore, Cambria recommends continued quarterly analysis of TPHg, total petroleum hydrocarbons as diesel, BTEX, MTBE and TBA in well MW-3, with additional analysis of 1,2-DCA annually in the third quarter. If we do not receive a response to the contrary by March 31, 2005, this change will be implemented beginning with the second quarter 2005 groundwater monitoring event.

GWE: Semi-monthly extraction events from well MW-3 will continue. We will continue to evaluate future groundwater sampling data and adjust the extraction program as warranted.

CLOSING

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

Sincerely,
Cambria Environmental Technology, Inc

Cynthia Vasko
Project Engineer

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

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

Table: 1 - Groundwater Extraction – 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
Arthur R. and Mary A. Hansen, Trs., et al, 820 Loyola Drive, Los Altos, CA 94024

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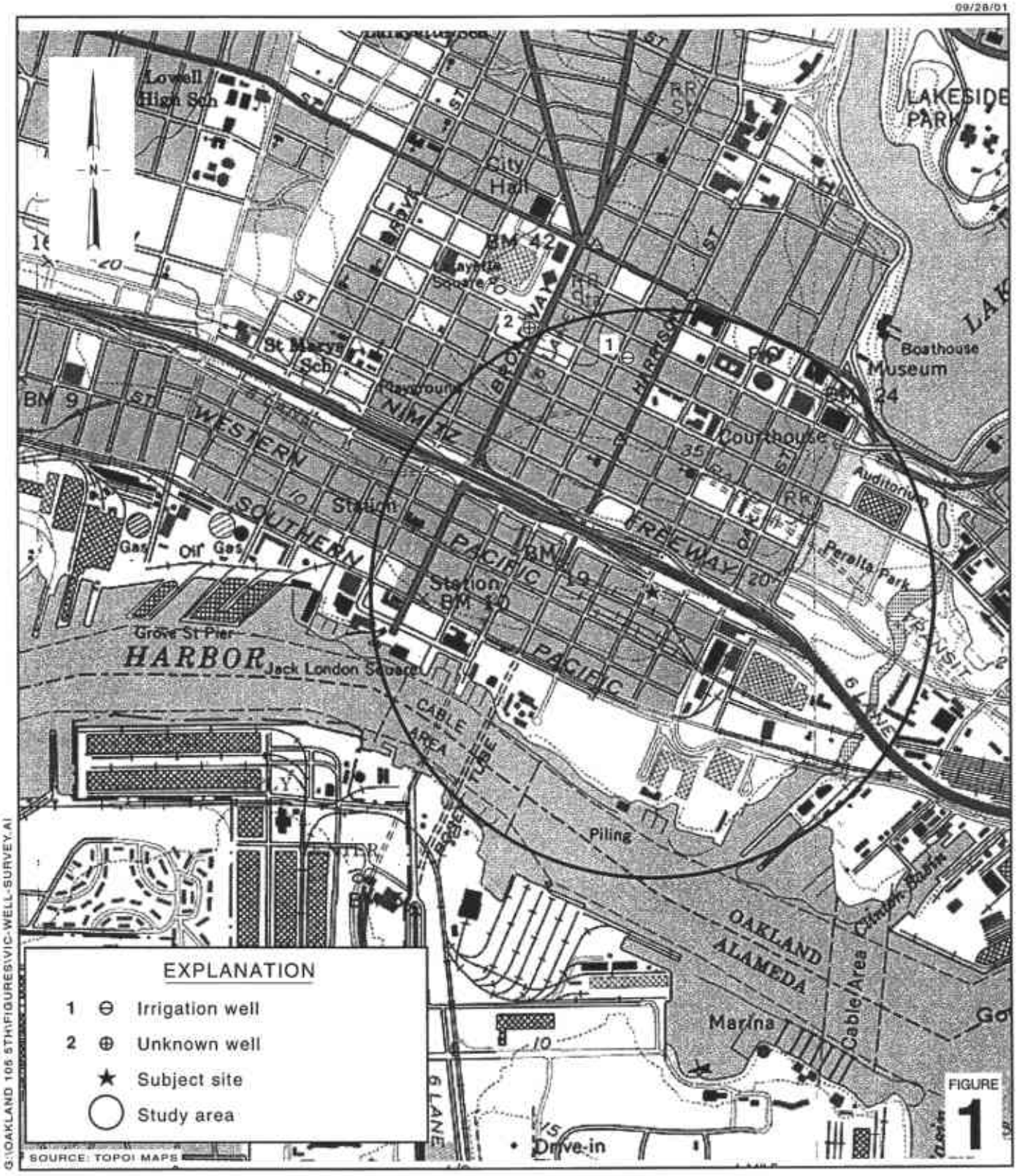
09/28/01



0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

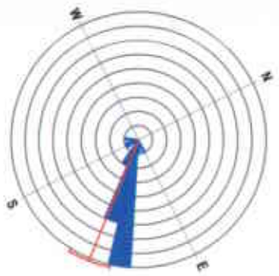
Shell-branded Service Station
105 Fifth Street
Oakland, California
Incident# 98995757

CAMBRIA

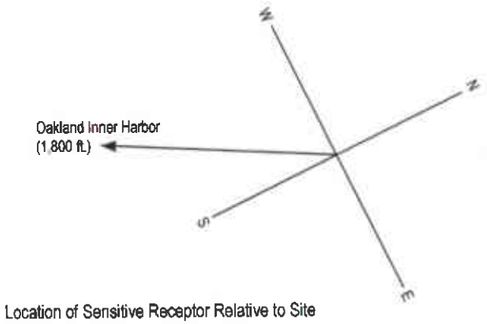
Vicinity / Well Survey Map

(1/2 Mile Radius)

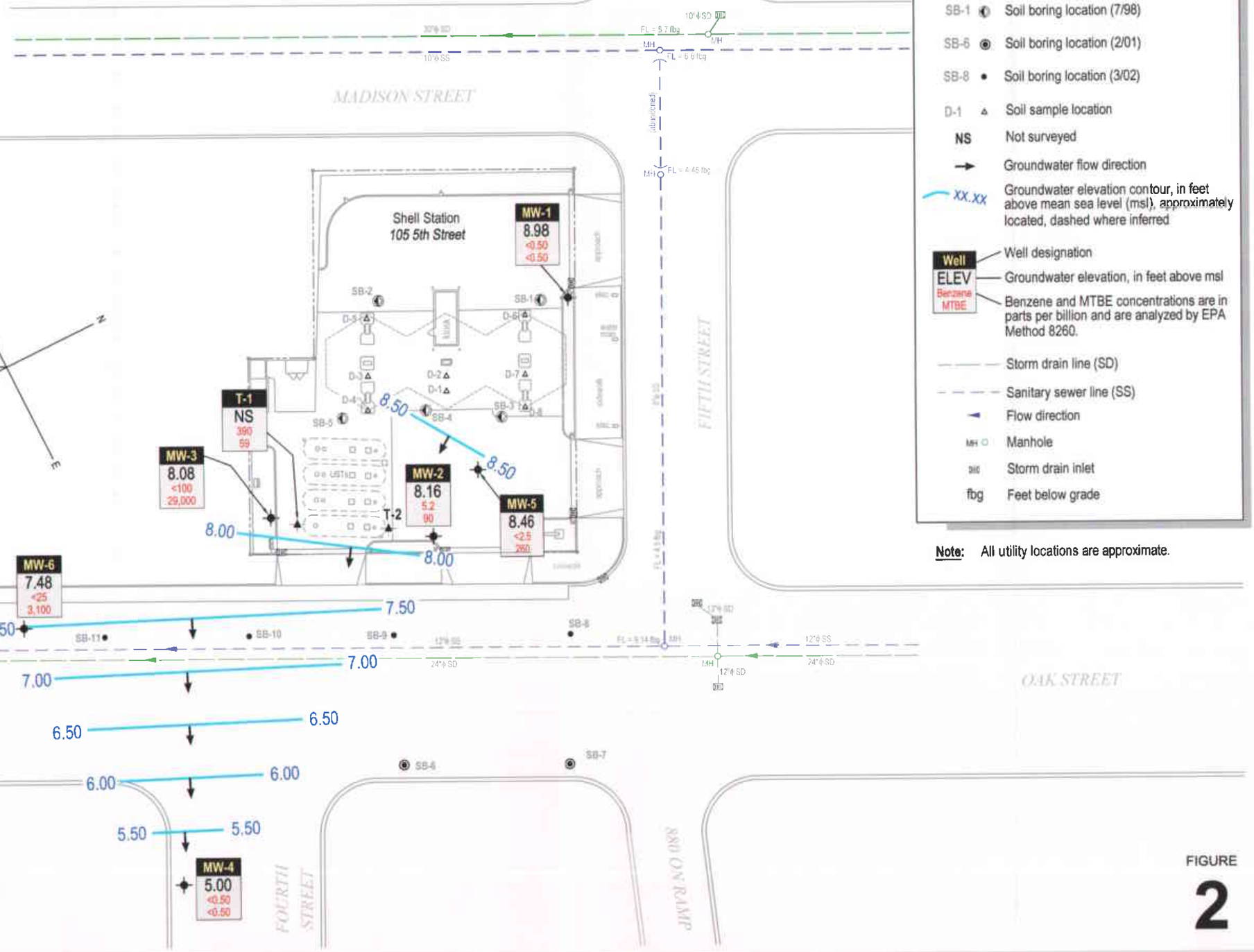
12/21/04



Groundwater Flow Direction
(07/23/99 to 10/08/04)



Location of Sensitive Receptor Relative to Site
(Oakland Inner Harbor - 1,800 ft. S 29° W)



0 20 40 80
Scale (ft)

EXPLANATION

- MW-1 ● Monitoring well location
- T-1 ▲ Tank backfill well location
- SB-1 ◐ Soil boring location (7/98)
- SB-6 ◉ Soil boring location (2/01)
- SB-8 • Soil boring location (3/02)
- D-1 △ Soil sample location
- NS Not surveyed
- → 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.
- Storm drain line (SD)
- Sanitary sewer line (SS)
- Flow direction
- MH Manhole
- SDI Storm drain inlet
- fbg Feet below grade

Note: All utility locations are approximate.

Groundwater Elevation Contour Map

October 8, 2004

CAMBRIA

Shell-branded Service Station
105 Fifth Street
Oakland, California
Incident #9899577

FIGURE
2

G:\OAKLAND 105 5TH\FIGURES\4QM04.DWG

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995757, 105 Fifth Street, Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPHg Concentration (ppb)	TPHg Removed (pounds)	TPHg Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
					TPHg			**Benzene**			**MTBE**		
04/21/00	MW-2	150	150	04/07/00	4,940	0.00618	0.00618	659	0.00082	0.00082	41,800	0.05232	0.05232
04/28/00	MW-2	100	250	04/07/00	4,940	0.00412	0.01031	659	0.00055	0.00137	41,800	0.03488	0.08720
05/05/00	MW-2	310	560	04/07/00	4,940	0.01278	0.02308	659	0.00170	0.00308	41,800	0.10813	0.19532
05/12/00	MW-2	350	910	04/07/00	4,940	0.01443	0.03751	659	0.00192	0.00500	41,800	0.12208	0.31740
06/02/00	MW-2	257	1,167	04/07/00	4,940	0.01059	0.04811	659	0.00141	0.00642	41,800	0.08964	0.40704
07/06/00	MW-2	334	1,501	04/07/00	4,940	0.01377	0.06187	659	0.00184	0.00825	41,800	0.11650	0.52354
09/12/00	MW-2	312	1,813	07/26/00	5,010	0.01304	0.07492	409	0.00106	0.00932	54,300	0.14137	0.66491
10/26/00	MW-2	56	1,869	07/26/00	5,010	0.00234	0.07726	409	0.00019	0.00951	54,300	0.02537	0.69028
07/29/03	MW-2	500	2,369	07/22/03	2,300	0.00960	0.08685	76	0.00032	0.00983	3,700	0.01544	0.70572
08/09/03	MW-2	250	2,619	07/22/03	2,300	0.00480	0.09165	76	0.00016	0.00999	3,700	0.00772	0.71344
08/21/03	MW-2	150	2,769	07/22/03	2,300	0.00288	0.09453	76	0.00010	0.01008	3,700	0.00463	0.71807
09/04/03	MW-2	687	3,456	07/22/03	2,300	0.01318	0.10771	76	0.00044	0.01052	3,700	0.02121	0.73928
09/18/03	MW-2	200	3,656	07/22/03	2,300	0.00384	0.11155	76	0.00013	0.01064	3,700	0.00617	0.74545
10/02/03	MW-2	234	3,890	07/22/03	2,300	0.00449	0.11604	76	0.00015	0.01079	3,700	0.00722	0.75268
10/16/03	MW-2	250	4,140	10/09/03	150	0.00031	0.11636	3.9	0.00001	0.01080	210	0.00044	0.75311
11/06/03	MW-2	250	4,390	10/09/03	150	0.00031	0.11667	3.9	0.00001	0.01081	210	0.00044	0.75355
11/20/03	MW-2	275	4,665	10/09/03	150	0.00034	0.11701	3.9	0.00001	0.01082	210	0.00048	0.75403
04/21/00	MW-3	100	100	04/07/00	<1,000	0.00042	0.00042	853	0.00071	0.00071	283,000	0.23615	0.23615
04/28/00	MW-3	100	200	04/07/00	<1,000	0.00042	0.00083	853	0.00071	0.00142	283,000	0.23615	0.47229
05/05/00	MW-3	50	250	04/07/00	<1,000	0.00021	0.00104	853	0.00036	0.00178	283,000	0.11807	0.59036
05/12/00	MW-3	150	400	04/07/00	<1,000	0.00063	0.00167	853	0.00107	0.00285	283,000	0.35422	0.94458
06/02/00	MW-3	550	950	04/07/00	<1,000	0.00229	0.00396	853	0.00391	0.00676	283,000	1.29880	2.24338
07/06/00	MW-3	528	1,478	04/07/00	<1,000	0.00220	0.00617	853	0.00376	0.01052	283,000	1.24685	3.49023
08/16/00	MW-3	849	2,327	07/26/00	<20,000	0.07084	0.07701	<200	0.00071	0.01123	**320,000**	2.26699	5.75722
09/12/00	MW-3	188	2,515	07/26/00	<20,000	0.01569	0.09270	<200	0.00016	0.01139	**320,000**	0.50200	6.25922
10/26/00	MW-3	156	2,671	07/26/00	<20,000	0.01302	0.10571	<200	0.00013	0.01152	**320,000**	0.41655	6.67577
05/27/03	MW-3	0	2,671	04/30/03	<25,000	0.00000	0.10571	<250	0.00000	0.01152	**14,000**	0.00000	6.67577

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995757, 105 Fifth Street, Oakland, California

					TPHg			Benzene			MTBE		
Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPHg Concentration (ppb)	TPHg Removed (pounds)	TPHg Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
06/10/03	MW-3	200	2,871	04/30/03	<25,000	0.02086	0.12658	<250	0.00021	0.01172	**14,000**	0.02336	6.69913
06/24/03	MW-3	800	3,671	04/30/03	<25,000	0.08344	0.21002	<250	0.00083	0.01256	**14,000**	0.09346	6.79259
07/09/03	MW-3	990	4,661	04/30/03	<25,000	0.10326	0.31328	<250	0.00103	0.01359	**14,000**	0.11565	6.90824
07/29/03	MW-3	600	5,261	07/22/03	<5,000	0.01252	0.32580	<50	0.00013	0.01372	**17,000**	0.08511	6.99335
08/09/03	MW-3	500	5,761	07/22/03	<5,000	0.01043	0.33623	<50	0.00010	0.01382	**17,000**	0.07093	7.06428
08/21/03	MW-3	250	6,011	07/22/03	<5,000	0.00522	0.34144	<50	0.00005	0.01387	**17,000**	0.03546	7.09975
09/04/03	MW-3	687	6,698	07/22/03	<5,000	0.01433	0.35577	<50	0.00014	0.01402	**17,000**	0.09745	7.19720
09/18/03	MW-3	600	7,298	07/22/03	<5,000	0.01252	0.36829	<50	0.00013	0.01414	**17,000**	0.08511	7.28231
10/02/03	MW-3	233	7,531	07/22/03	<5,000	0.00486	0.37315	<50	0.00005	0.01419	**17,000**	0.03305	7.31536
10/16/03	MW-3	604	8,135	10/09/03	<5,000	0.01260	0.38575	<50	0.00013	0.01432	**14,000**	0.07056	7.38592
11/06/03	MW-3	459	8,594	10/09/03	<5,000	0.00958	0.39533	<50	0.00010	0.01441	**14,000**	0.05362	7.43954
11/20/03	MW-3	322	8,916	10/09/03	<5,000	0.00672	0.40204	<50	0.00007	0.01448	**14,000**	0.03762	7.47716
12/04/03	MW-3	590	9,506	10/09/03	<5,000	0.01231	0.41435	<50	0.00012	0.01460	**14,000**	0.06892	7.54609
12/18/03	MW-3	561	10,067	10/09/03	<5,000	0.01170	0.42605	<50	0.00012	0.01472	**14,000**	0.06554	7.61162
01/02/04	MW-3	496	10,563	10/09/03	<5,000	0.01035	0.43640	<50	0.00010	0.01482	**14,000**	0.05794	7.66956
01/15/04	MW-3	578	11,141	01/05/04	<5,000	0.01206	0.44846	<50	0.00012	0.01494	**4,700**	0.02267	7.69223
02/05/04	MW-3	475	11,616	01/05/04	<5,000	0.00991	0.45837	<50	0.00010	0.01504	**4,700**	0.01863	7.71086
02/19/04	MW-3	650	12,266	01/05/04	<5,000	0.01356	0.47193	<50	0.00014	0.01518	**4,700**	0.02549	7.73635
03/04/04	MW-3	592	12,858	01/05/04	<5,000	0.01235	0.48428	<50	0.00012	0.01530	**4,700**	0.02322	7.75957
03/18/04	MW-3	631	13,489	01/05/04	<5,000	0.01316	0.49744	<50	0.00013	0.01543	**4,700**	0.02475	7.78432
04/01/04	MW-3	532	14,021	01/05/04	<5,000	0.01110	0.50854	<50	0.00011	0.01554	**4,700**	0.02086	7.80518
04/15/04	MW-3	592	14,613	04/12/04	<25,000	0.06175	0.57029	<250	0.00062	0.01616	**23,000**	0.11362	7.91880
05/06/04	MW-3	552	15,165	04/12/04	<25,000	0.05758	0.62786	<250	0.00058	0.01674	**23,000**	0.10594	8.02474
05/20/04	MW-3	432	15,597	04/12/04	<25,000	0.04506	0.67292	<250	0.00045	0.01719	**23,000**	0.08291	8.10765
06/04/04	MW-3	614	16,211	04/12/04	<25,000	0.06404	0.73697	<250	0.00064	0.01783	**23,000**	0.11784	8.22549
06/17/04	MW-3	447	16,658	04/12/04	<25,000	0.04662	0.78359	<250	0.00047	0.01829	**23,000**	0.08579	8.31128
07/01/04	MW-3	569	17,227	04/12/04	<25,000	0.05935	0.84294	<250	0.00059	0.01889	**23,000**	0.10920	8.42048
07/15/04	MW-3	664	17,891	07/02/04	<10,000	0.02770	0.87064	<100	0.00028	0.01916	**18,000**	0.09973	8.52021

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995757, 105 Fifth Street, Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPHg Concentration (ppb)	TPHg Removed (pounds)	TPHg Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
					TPHg			**Benzene**			**MTBE**		
08/05/04	MW-3	625	18,516	07/02/04	<10,000	0.02608	0.89672	<100	0.00026	0.01943	**18,000**	0.09387	8.61408
08/20/04	MW-3	676	19,192	07/02/04	<10,000	0.02820	0.92492	<100	0.00028	0.01971	**18,000**	0.10153	8.71562
09/02/04	MW-3	780	19,972	07/02/04	<10,000	0.03254	0.95746	<100	0.00033	0.02003	**18,000**	0.11715	8.83277
09/16/04	MW-3	635	20,607	07/02/04	<10,000	0.02649	0.98396	<100	0.00026	0.02030	**18,000**	0.09538	8.92815
10/07/04	MW-3	519	21,126	07/02/04	<10,000	0.02165	1.00561	<100	0.00022	0.02051	**18,000**	0.07795	9.00610
10/21/04	MW-3	622	21,748	10/08/04	<10,000	0.02595	1.03156	<100	0.00026	0.02077	**29,000**	0.15052	9.15662
11/04/04	MW-3	681	22,429	10/08/04	<10,000	0.02841	1.05998	<100	0.00028	0.02106	**29,000**	0.16479	9.32141
11/18/04	MW-3	1,500	23,929	10/08/04	<10,000	0.06258	1.12256	<100	0.00063	0.02168	**29,000**	0.36298	9.68439
12/02/04	MW-3	1,000	24,929	10/08/04	<10,000	0.04172	1.16428	<100	0.00042	0.02210	**29,000**	0.24199	9.92638
12/16/04	MW-3	876	25,805	10/08/04	<10,000	0.03655	1.20083	<100	0.00037	0.02247	**29,000**	0.21198	10.13836
01/06/05	MW-3	696	26,501	10/08/04	<10,000	0.02904	1.22987	<100	0.00029	0.02276	**29,000**	0.16842	10.30678
01/20/05	MW-3	663	27,164	10/08/04	<10,000	0.02766	1.25753	<100	0.00028	0.02303	**29,000**	0.16044	10.46722
08/21/03	MW-6	50	50	07/22/03	<500	0.00010	0.00010	<5.0	0.00000	0.00000	**1,300**	0.00054	0.00054
09/04/03	MW-6	683	733	07/22/03	<500	0.00142	0.00153	<5.0	0.00001	0.00002	**1,300**	0.00741	0.00795
10/02/03	MW-6	234	967	07/22/03	<500	0.00049	0.00202	<5.0	0.00000	0.00002	**1,300**	0.00254	0.01049
10/16/03	MW-6	0	967	10/09/03	<1,000	0.00000	0.00202	<10	0.00000	0.00002	**3,000**	0.00000	0.01049
11/26/01	T-1[a]	2,700	2,700	10/23/01	**<50,000**	0.56324	0.56324	**<250**	0.00282	0.00282	**180,000**	4.05536	4.05536
12/10/01	T-1[a]	2,750	5,450	10/23/01	**<50,000**	0.57367	1.13692	**<250**	0.00287	0.00568	**180,000**	4.13046	8.18581
12/26/01	T-1[a]	2,800	8,250	10/23/01	**<50,000**	0.58410	1.72102	**<250**	0.00292	0.00861	**180,000**	4.20556	12.39137
01/09/02	T-1	5,184	13,434	01/07/02	**<20,000**	0.43257	2.15359	**310**	0.01341	0.02201	**92,000**	3.97966	16.37103
01/23/02	T-1	4,250	17,684	01/07/02	**<20,000**	0.35464	2.50823	**310**	0.01099	0.03301	**92,000**	3.26264	19.63367
02/06/02	T-1	4,000	21,684	01/07/02	**<20,000**	0.33377	2.84200	**310**	0.01035	0.04336	**92,000**	3.07072	22.70439
02/20/02	T-1	3,000	24,684	01/07/02	**<20,000**	0.25033	3.09233	**310**	0.00776	0.05112	**92,000**	2.30304	25.00743
03/06/02	T-1	4,500	29,184	01/07/02	**<20,000**	0.37550	3.46783	**310**	0.01164	0.06276	**92,000**	3.45456	28.46200
03/20/02	T-1	5,000	34,184	01/07/02	**<20,000**	0.41722	3.88505	**310**	0.01293	0.07569	**92,000**	3.83840	32.30040
04/03/02	T-1	5,200	39,384	01/07/02	**<20,000**	0.43391	4.31896	**310**	0.01345	0.08914	**92,000**	3.99194	36.29234

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995757, 105 Fifth Street, Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPHg			Benzene			MTBE		
					TPHg Concentration (ppb)	TPHg Removed (pounds)	TPHg Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
04/17/02	T-1	4,800	44,184	04/12/02	**<5,000**	0.10013	4.41909	**230**	0.00921	0.09835	**57,000**	2.28302	38.57536
06/03/02	T-1	3,539	47,723	04/12/02	**<5,000**	0.07383	4.49291	**230**	0.00679	0.10515	**57,000**	1.68325	40.25861
06/17/02	T-1	5,000	52,723	04/12/02	**<5,000**	0.10430	4.59722	**230**	0.00960	0.11474	**57,000**	2.37814	42.63675
07/01/02	T-1	2,873	55,596	04/12/02	**<5,000**	0.05993	4.65715	**230**	0.00551	0.12026	**57,000**	1.36648	44.00323
07/15/02	T-1	4,000	59,596	07/10/02	**<20,000**	0.33377	4.99093	**260**	0.00868	0.12893	**69,000**	2.30304	46.30627
08/12/02	T-1	3,900	63,496	07/10/02	**<20,000**	0.32543	5.31636	**260**	0.00846	0.13739	**69,000**	2.24547	48.55174
08/26/02	T-1	2,367	65,863	07/10/02	**<20,000**	0.19751	5.51387	**260**	0.00514	0.14253	**69,000**	1.36283	49.91456
09/09/02	T-1	1,959	67,822	07/10/02	**<20,000**	0.16347	5.67733	**260**	0.00425	0.14678	**69,000**	1.12791	51.04248
09/23/02	T-1	5,000	72,822	07/10/02	**<20,000**	0.41722	6.09455	**260**	0.01085	0.15763	**69,000**	2.87880	53.92128
10/09/02	T-1	4,500	77,322	07/10/02	**<20,000**	0.37550	6.47005	**260**	0.00976	0.16739	**69,000**	2.59092	56.51220
10/22/02	T-1	4,500	81,822	10/15/02	**<5,000**	0.09387	6.56392	**150**	0.00563	0.17302	**29,000**	1.08894	57.60114
11/05/02	T-1	2,384	84,206	10/15/02	**<5,000**	0.04973	6.61365	**150**	0.00298	0.17601	**29,000**	0.57690	58.17804
11/19/02	T-1	4,375	88,581	10/15/02	**<5,000**	0.09127	6.70492	**150**	0.00548	0.18148	**29,000**	1.05869	59.23673
12/09/02	T-1	2,341	90,922	10/15/02	**<5,000**	0.04884	6.75376	**150**	0.00293	0.18441	**29,000**	0.56649	59.80322
12/23/02	T-1	2,341	93,263	10/15/02	**<5,000**	0.04884	6.80259	**150**	0.00293	0.18734	**29,000**	0.56649	60.36971
01/06/03	T-1[b]	2,341	95,604	10/15/02	**<5,000**	0.04884	6.85143	**1.5**	0.00003	0.18737	**29,000**	0.56649	60.93620
01/28/03	T-1[b]	4,500	100,104	10/15/02	**<5,000**	0.09387	6.94530	**1.5**	0.00006	0.18743	**29,000**	1.08894	62.02514
02/10/03	T-1	4,500	104,604	01/29/03	**1,300**	0.04881	6.99411	**67**	0.00252	0.18994	**820**	0.03079	62.05593
03/10/03	T-1	3,539	108,143	01/29/03	**1,300**	0.03839	7.03250	**67**	0.00198	0.19192	**820**	0.02422	62.08014
04/08/03	T-1	300	108,443	01/29/03	**1,300**	0.00325	7.03576	**67**	0.00017	0.19209	**820**	0.00205	62.08219
05/05/03	T-1	3,500	111,943	04/30/03	**360**	0.01051	7.04627	**45**	0.00131	0.19340	**89**	0.00260	62.08479
05/27/03	T-1	4,500	116,443	04/30/03	**360**	0.01352	7.05979	**45**	0.00169	0.19509	**89**	0.00334	62.08814
06/10/03	T-1	4,600	121,043	04/30/03	**360**	0.01382	7.07361	**45**	0.00173	0.19682	**89**	0.00342	62.09155
06/24/03	T-1	1,428	122,471	04/30/03	**360**	0.00429	7.07790	**45**	0.00054	0.19736	**89**	0.00106	62.09261
07/09/03	T-1	2,600	125,071	04/30/03	**360**	0.00781	7.08571	**45**	0.00098	0.19833	**89**	0.00193	62.09454
07/29/03	T-1	2,492	127,563	07/22/03	**1,200**	0.02495	7.11066	**170**	0.00354	0.20187	**150**	0.00312	62.09766
08/09/03	T-1	2,082	129,645	07/22/03	**1,200**	0.02085	7.13151	**170**	0.00295	0.20482	**150**	0.00261	62.10027
08/21/03	T-1	2,500	132,145	07/22/03	**1,200**	0.02503	7.15654	**170**	0.00355	0.20837	**150**	0.00313	62.10340

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995757, 105 Fifth Street, Oakland, California

					TPHg			Benzene			MTBE		
Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPHg Concentration (ppb)	TPHg Removed (pounds)	TPHg Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
09/04/03	T-1	687	132,832	07/22/03	**1,200**	0.00688	7.16342	**170**	0.00097	0.20934	**150**	0.00086	62.10426
09/18/03	T-1	1,000	133,832	07/22/03	**1,200**	0.01001	7.17343	**170**	0.00142	0.21076	**150**	0.00125	62.10551
Total Gallons Extracted:			**166,628**		**Total Pounds Removed:**		**8.54999**			**0.24463**			**73.33725**
					Total Gallons Removed:		**1.40164**			**0.03351**			**11.82859**

Abbreviations & Notes:

TPHg = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tertiary butyl ether
ppb = Parts per billion
gal = Gallon
a = Concentrations for tank backfill well T-1 estimated from nearest monitoring well MW-3.
b = Tank backfill well T-1 sampled for BTEX (including benzene) on 1/2/03.
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)
TPHg and benzene analyzed by EPA Method 8015/8020 or equivalent.
MTBE analyzed by EPA Method 8260 in bold font, all other results analyzed by EPA Method 8020.
Concentrations based on most recent groundwater monitoring results
Groundwater extracted by vacuum trucks provided by Phillips Services Corporation and/or Onyx Industrial Services. Water disposed of at a Martinez Refinery.
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.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

November 10, 2004

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

Fourth Quarter 2004 Groundwater Monitoring at
Shell-branded Service Station
105 5th Street
Oakland, CA

Monitoring performed on October 8, 2004

Groundwater Monitoring Report **041008-MD-1**

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

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

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

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

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/ks

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

cc: Anni Kreml
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608

WELL CONCENTRATIONS
Shell-branded Service Station
105 5th Street
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	07/20/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.22	17.56	-5.34	NA
MW-1	07/23/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	<2.00	NA	NA	NA	NA	NA	NA	NA	12.22	6.45	5.77	NA
MW-1	11/01/1999	100	NA	15.6	3.12	4.04	12.6	6.69	NA	NA	NA	NA	NA	NA	NA	NA	12.22	6.59	5.63	0.5/0.7
MW-1	01/05/2000	<50.0	<20.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	12.22	6.38	5.84	1.2/1.4
MW-1	04/07/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	12.22	5.83	6.39	1.6/2.4
MW-1	07/26/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	12.22	6.10	6.12	1.1/1.4
MW-1	10/28/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	12.22	14.08	-1.86	2.2/2.7
MW-1	01/30/2001	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	12.22	10.71	1.51	1.2/1.6
MW-1	04/17/2001	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	12.22	6.61	5.61	2.4/4.4
MW-1	07/09/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	12.22	6.31	5.91	1.4/3.4
MW-1	10/23/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	12.22	6.24	5.98	2.6/4.1
MW-1	01/07/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	12.22	5.25	6.97	NA
MW-1	04/12/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	14.92	5.54	9.38	NA
MW-1	07/10/2002	<50	74	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	14.92	5.98	8.94	NA
MW-1	10/15/2002	<50	51	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	14.92	5.46	9.46	NA
MW-1	01/29/2003	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	14.92	5.03	9.89	NA
MW-1	04/30/2003	<50	110	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	14.92	4.70	10.22	NA
MW-1	07/22/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	14.92	6.05	8.87	NA
MW-1	10/09/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	14.92	6.13	8.79	NA
MW-1	01/05/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	14.92	5.44	9.48	NA
MW-1	04/12/2004	<50	1,000 c	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	14.92	5.75	9.17	NA
MW-1	07/02/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	14.92	5.93	8.99	NA
MW-1	**10/08/2004**	**<50**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**14.92**	**5.94**	**8.98**	**NA**
MW-2	07/20/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.87	18.24	-7.37	NA
MW-2	07/23/1999	13,800	NA	1,790	<100	<100	682	29,900	29,400	NA	NA	NA	NA	NA	NA	NA	10.87	5.98	4.89	NA
MW-2	11/01/1999	2,420	NA	316	10.8	119	44.2	17,000	NA	NA	NA	NA	NA	NA	NA	NA	10.87	6.03	4.84	0.5/0.3
MW-2	01/05/2000	2,120a	687	301a	<5.00a	116a	84.4a	14,700	NA	NA	NA	NA	NA	NA	NA	NA	10.87	5.90	4.97	2.1/2.6
MW-2	04/07/2000	4,940b	1,300	659b	<25.0b	214b	314b	41,800b	NA	NA	NA	NA	NA	NA	NA	NA	10.87	5.37	5.50	0.4/0.2
MW-2	07/26/2000	5,010	1,520	409	<50.0	302	307	54,300	NA	NA	NA	NA	NA	NA	NA	NA	10.87	5.81	5.06	2.1/2.2
MW-2	10/28/2000	1,720	412	82.2	<10.0	46.0	102	9,800	NA	NA	NA	NA	NA	NA	NA	NA	10.87	14.59	-3.72	0.7/0.7
MW-2	01/30/2001	1,640	574	14.7	<5.00	40.1	58.1	3,670	NA	NA	NA	NA	NA	NA	NA	NA	10.87	10.31	0.56	1.8/2.0
MW-2	04/17/2001	598	179	21.8	<2.00	16.9	10.8	5,630	NA	NA	NA	NA	NA	NA	NA	NA	10.87	6.08	4.79	1.5/2.6
MW-2	07/09/2001	<1,000	<500	19	<10	33	15	NA	6,200	NA	NA	NA	NA	NA	NA	NA	10.87	5.70	5.17	1.1/2.0

WELL CONCENTRATIONS
Shell-branded Service Station
105 5th Street
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	10/23/2001	<5,000	<500	50	<25	92	<25	NA	13,000	<25	<25	<25	820	<500	NA	NA	10.87	5.72	5.15	2.0/3.2
MW-2	01/07/2002	<1,000	<200	<10	<10	<10	<10	NA	4,500	NA	NA	NA	NA	NA	NA	NA	10.87	4.87	6.00	NA
MW-2	04/12/2002	<1,000	<100	14	<10	27	13	NA	6,200	NA	NA	NA	NA	NA	NA	NA	13.57	5.14	8.43	NA
MW-2	07/10/2002	<1,000	290	<10	<10	14	<10	NA	6,100	NA	NA	NA	NA	NA	NA	NA	13.57	5.45	8.12	NA
MW-2	10/15/2002	<100	85	1.2	<1.0	<1.0	<1.0	NA	640	NA	NA	NA	NA	NA	NA	NA	13.57	5.38	8.19	NA
MW-2	01/29/2003	<500	<300	10	<5.0	16	6.3	NA	1,700	NA	NA	NA	NA	NA	NA	NA	13.57	5.14	8.43	NA
MW-2	04/30/2003	<5,000	440	<50	<50	58	<100	NA	5,000	NA	NA	NA	NA	NA	NA	NA	13.57	4.83	8.74	NA
MW-2	07/22/2003	2,300	1,000 c	76	<10	140	<20	NA	3,700	NA	NA	NA	NA	NA	NA	NA	13.57	5.61	7.96	NA
MW-2	10/09/2003	150	120 c	3.9	<1.0	6.4	<2.0	NA	210	NA	NA	NA	NA	NA	NA	NA	13.57	5.59	7.98	NA
MW-2	01/05/2004	1,300	450 c	34	<5.0	53	<10	NA	700	NA	NA	NA	NA	NA	NA	NA	13.57	5.04	8.53	NA
MW-2	04/12/2004	820	320 c	25	<5.0	33	<10	NA	560	NA	NA	NA	NA	NA	NA	NA	13.57	5.26	8.31	NA
MW-2	07/02/2004	2,000	850 c	60	<5.0	110	<10	NA	1,800	<20	<20	<20	6,200	NA	NA	NA	13.57	5.43	8.14	NA
MW-2	**10/08/2004**	**540**	**210 d**	**5.2**	**<5.0**	**<5.0**	**<10**	**NA**	**90**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**13.57**	**5.41**	**8.16**	**NA**
MW-3	07/20/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.27	19.07	-7.80	NA
MW-3	07/23/1999	128	NA	<0.500	<0.500	<0.500	<0.500	404,000	324,000	NA	NA	NA	NA	NA	NA	NA	11.27	6.43	4.84	NA
MW-3	11/01/1999	<1,000	NA	<10.0	<10.0	<10.0	<10.0	169,000	224,000	NA	NA	NA	NA	NA	NA	NA	11.27	6.48	4.79	0.5/0.3
MW-3	01/05/2000	137	322	<1.00	<1.00	<1.00	<1.00	165,000	219,000	NA	NA	NA	NA	NA	NA	NA	11.27	6.35	4.92	2.4/2.2
MW-3	04/07/2000	<1,000	264	853	<10.0	<10.0	<10.0	283,000	196,000a	NA	NA	NA	NA	NA	NA	NA	11.27	5.91	5.36	04/0.2
MW-3	07/26/2000	<20,000	585	<200	<200	<200	<200	437,000	320,000	NA	NA	NA	NA	NA	NA	NA	11.27	5.83	5.44	1.9/1.7
MW-3	10/28/2000	<12,500	441	<125	<125	<125	<125	266,000	308,000	NA	NA	NA	NA	NA	NA	NA	11.27	17.51	-6.24	1.1/1.4
MW-3	01/30/2001	<5,000	555	<50.0	<50.0	<50.0	<50.0	248,000	167,000a	NA	NA	NA	NA	NA	NA	NA	11.27	11.43	-0.16	2.0/2.2
MW-3	04/17/2001	<5,000	347	<50.0	<50.0	<50.0	<50.0	134,000	133,000	NA	NA	NA	NA	NA	NA	NA	11.27	6.57	4.70	1.3/1.2
MW-3	07/09/2001	<20,000	250	<200	<200	<200	<200	NA	170,000	NA	NA	NA	NA	NA	NA	NA	11.27	6.12	5.15	1.2/1.9
MW-3	10/23/2001	<50,000	260	<250	<250	<250	<250	NA	180,000	<250	<250	<250	53,000	<5,000	NA	NA	11.27	6.25	5.02	2.2/1.6
MW-3	01/07/2002	<10,000	160	<100	<100	<100	<100	NA	96,000	NA	NA	NA	NA	NA	NA	NA	11.27	5.29	5.98	NA
MW-3	04/12/2002	<10,000	87	<100	<100	<100	<100	NA	78,000	NA	NA	NA	NA	NA	NA	NA	13.96	5.43	8.53	NA
MW-3	07/10/2002	<20,000	150	<200	<200	<200	<200	NA	64,000	NA	NA	NA	NA	NA	NA	NA	13.96	6.33	7.63	NA
MW-3	10/15/2002	<10,000	120	<100	<100	<100	<100	NA	44,000	<100	NA	<100	9,100	NA	<100	<100	13.96	5.96	8.00	NA
MW-3	01/02/2003	NA	NA	<5.0	<5.0	<5.0	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.96	5.40	8.56	NA
MW-3	01/29/2003	<2,500	96	<25	<25	<25	<25	NA	19,000	<25	NA	<25	14,000	NA	<25	<25	13.96	5.68	8.28	NA
MW-3	04/30/2003	<25,000	360	<250	<250	<250	<500	NA	14,000	<1,000	NA	<1,000	24,000	NA	<250	<250	13.96	5.34	8.62	NA
MW-3	07/22/2003	<5,000	230 c	<50	<50	<50	<100	NA	17,000	<200	NA	<200	21,000	NA	<50	<50	13.96	6.15	7.81	NA
MW-3	10/09/2003	<5,000	150 c	<50	<50	<50	<100	NA	14,000	<200	NA	<200	11,000	NA	<50	<50	13.96	5.98	7.98	NA

WELL CONCENTRATIONS
Shell-branded Service Station
105 5th Street
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-3	01/05/2004	<5,000	790 c	<50	<50	<50	<100	NA	4,700	<200	NA	<200	11,000	NA	<50	<50	13.96	5.45	8.51	NA
MW-3	04/12/2004	<25,000	270 c	<250	<250	<250	<500	NA	23,000	<1,000	NA	<1,000	12,000	NA	<250	<250	13.96	5.66	8.30	NA
MW-3	07/02/2004	<10,000	280 c	<100	<100	<100	<200	NA	18,000	<400	NA	<400	4,500	NA	120	<100	13.96	5.85	8.11	NA
MW-3	**10/08/2004**	**<10,000**	**250 c**	**<100**	**<100**	**<100**	**<200**	**NA**	**29,000**	**<400**	**NA**	**<400**	**14,000**	**NA**	**<100**	**<100**	**13.96**	**5.88**	**8.08**	**NA**
MW-4	03/23/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.50	8.21	1.29	NA
MW-4	04/17/2001	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	9.50	5.08	4.42	2.4/2.6
MW-4	07/09/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	9.50	4.64	4.86	2.0/1.5
MW-4	10/23/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	9.50	7.90	1.60	2.8/1.8
MW-4	01/07/2002	<50	64	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	9.50	5.00	4.50	NA
MW-4	04/12/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	12.17	7.49	4.68	NA
MW-4	07/10/2002	<50	67	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	12.17	4.75	7.42	NA
MW-4	10/15/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	12.17	4.56	7.61	NA
MW-4	01/29/2003	<50	73	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	12.17	4.34	7.83	NA
MW-4	04/30/2003	<50	140	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	12.17	5.45	6.72	NA
MW-4	07/22/2003	<50	63 c	<0.50	<0.50	<0.50	<1.0	NA	3.1	NA	NA	NA	NA	NA	NA	NA	12.17	6.46	5.71	NA
MW-4	10/09/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	12.17	7.11	5.06	NA
MW-4	01/05/2004	<50	66 c	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	12.17	7.72	4.45	NA
MW-4	04/12/2004	<50	110 c	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	12.17	5.80	6.37	NA
MW-4	07/02/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	12.17	6.24	5.93	NA
MW-4	**10/08/2004**	**<50**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**12.17**	**7.17**	**5.00**	**NA**
MW-5	03/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.78	5.86	8.92	NA
MW-5	04/12/2002	1,600	<50	25	3.5	44	110	NA	570	NA	NA	NA	NA	NA	NA	NA	14.78	5.96	8.82	NA
MW-5	07/10/2002	930	<400	36	<2.0	93	8.8	NA	630	NA	NA	NA	NA	NA	NA	NA	14.78	6.57	8.21	NA
MW-5	10/15/2002	200	90	9.9	<0.50	19	5.5	NA	180	NA	NA	NA	NA	NA	NA	NA	14.78	6.17	8.61	NA
MW-5	01/29/2003	120	85	6.0	<0.50	2.9	2.6	NA	220	NA	NA	NA	NA	NA	NA	NA	14.78	5.85	8.93	NA
MW-5	04/30/2003	<250	160	5.5	<2.5	7.2	7.7	NA	250	NA	NA	NA	NA	NA	NA	NA	14.78	5.53	9.25	NA
MW-5	07/22/2003	520	190 c	63	<5.0	41	14	NA	810	NA	NA	NA	NA	NA	NA	NA	14.78	6.45	8.33	NA
MW-5	10/09/2003	160	86 c	3.2	<1.0	7.0	3.9	NA	250	NA	NA	NA	NA	NA	NA	NA	14.78	6.54	8.24	NA
MW-5	01/05/2004	290	95 c	11	<2.5	8.5	<5.0	NA	380	NA	NA	NA	NA	NA	NA	NA	14.78	5.90	8.88	NA
MW-5	04/12/2004	280	54 c	9.0	<2.5	12	<5.0	NA	400	NA	NA	NA	NA	NA	NA	NA	14.78	6.19	8.59	NA
MW-5	07/02/2004	660	280 c	34	3.6	42	17	NA	550	<10	<10	<10	400	NA	NA	NA	14.78	6.33	8.45	NA
MW-5	**10/08/2004**	**<250**	**61 d**	**<2.5**	**<2.5**	**2.6**	**<5.0**	**NA**	**260**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**14.78**	**6.32**	**8.46**	**NA**

WELL CONCENTRATIONS
Shell-branded Service Station
105 5th Street
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-6	09/25/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.91	5.50	7.41	NA
MW-6	10/15/2002	<500	72	<5.0	<5.0	<5.0	<5.0	NA	2,600	NA	NA	NA	NA	NA	NA	NA	12.91	5.45	7.46	NA
MW-6	01/29/2003	<250	350	<2.5	<2.5	<2.5	<2.5	NA	1,600	NA	NA	NA	NA	NA	NA	NA	12.91	5.20	7.71	NA
MW-6	04/30/2003	<2,500	220	<25	<25	<25	<50	NA	5,900	NA	NA	NA	NA	NA	NA	NA	12.91	5.11	7.80	NA
MW-6	07/22/2003	<500	<50	<5.0	<5.0	<5.0	<10	NA	1,300	NA	NA	NA	NA	NA	NA	NA	12.91	5.46	7.45	NA
MW-6	10/09/2003	<1,000	<50	<10	<10	<10	<20	NA	3,000	NA	NA	NA	NA	NA	NA	NA	12.91	5.51	7.40	NA
MW-6	01/05/2004	<2,500	78 c	<25	<25	<25	<50	NA	3,600	NA	NA	NA	NA	NA	NA	NA	12.91	5.11	7.80	NA
MW-6	04/12/2004	<2,500	<50	<25	<25	<25	<50	NA	4,300	NA	NA	NA	NA	NA	NA	NA	12.91	5.30	7.61	NA
MW-6	07/02/2004	<2,500	<50	<25	<25	<25	<50	NA	2,900	<100	<100	<100	<250	NA	NA	NA	12.91	5.36	7.55	NA
MW-6	**10/08/2004**	**<2,500**	**<50**	**<25**	**<25**	**<25**	**<50**	**NA**	**3,100**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**12.91**	**5.43**	**7.48**	**NA**
T-1	01/07/2002	<20,000	2,600	310	<200	<200	<200	NA	92,000	NA	NA	NA	NA	NA	NA	NA	NA	4.86	NA	NA
T-1	04/12/2002	<5,000	1,000	230	<50	<50	<50	NA	57,000	NA	NA	NA	NA	NA	NA	NA	NA	5.05	NA	NA
T-1	07/10/2002	<20,000	3,700	260	<200	<200	<200	NA	69,000	NA	NA	NA	NA	NA	NA	NA	NA	5.84	NA	NA
T-1	10/15/2002	<5,000	2,100	150	62	<50	75	NA	29,000	NA	NA	NA	NA	NA	NA	NA	NA	5.77	NA	NA
T-1	01/02/2003	NA	NA	1.5	<0.50	<0.50	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.10	NA	NA
T-1	01/29/2003	1,300	1,200	67	6.5	<2.0	5.2	NA	820	NA	NA	NA	NA	NA	NA	NA	NA	5.49	NA	NA
T-1	04/30/2003	360	1,000	45	0.60	<0.50	2.3	NA	89	NA	NA	NA	NA	NA	NA	NA	NA	4.91	NA	NA
T-1	07/22/2003	1,200	940 c	170	4.8	<2.5	18	NA	150	NA	NA	NA	NA	NA	NA	NA	NA	5.70	NA	NA
T-1	10/09/2003	700	880 c	32	2.0	<1.0	9.8	NA	140	NA	NA	NA	NA	NA	NA	NA	NA	5.79	NA	NA
T-1	01/05/2004	450	790 c	24	2.1	<1.0	3.2	NA	29	NA	NA	NA	NA	NA	NA	NA	NA	5.16	NA	NA
T-1	04/12/2004	210	530 c	6.4	<1.0	<1.0	<2.0	NA	9.0	NA	NA	NA	NA	NA	NA	NA	NA	5.40	NA	NA
T-1	07/02/2004	1,400	2,800 c	160	300	6.7	180	NA	28	NA	NA	NA	NA	NA	NA	NA	NA	5.62	NA	NA
T-1	**10/08/2004**	**1,800**	**1,100 c**	**390**	**68**	**5.6**	**330**	**NA**	**59**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**5.67**	**NA**	**NA**

WELL CONCENTRATIONS
Shell-branded Service Station
105 5th Street
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-DCA (ug/L)	EDB (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 July 9, 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 July 9, 2001, analyzed by EPA Method 8020.
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B
ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B
TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B
TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B
1,2-DCA = 1,2-dichloroethane, analyzed by EPA Method 8260B
EDB = 1,2-dibromomethane or ethlyene dibromide, analyzed by EPA Method 8260B
TOC = Top of Casing Elevation
GW = Groundwater
DO = Dissolved Oxygen
ug/L = Parts per billion
ppm = Parts per million
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
NA = Not applicable
n/n = Pre-purge/Post-purge

Notes:
a = Sample was analyzed outside of the EPA recommended holding time.
b = Result was generated out of hold time.
c = Hydrocarbon does not match pattern of laboratory's standard.
d = Hydrocarbon reported is in the early Diesel range and does not match the laboratory's Diesel standard.
Top of casing for well MW-4 provided by Cambria Environmental Technology, Inc.
Wells MW-1 through MW-5 surveyed April 12, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.
Site surveyed September 26, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

SEVERN TRENT STL

Submission#: 2004-10-0313

Blaine Tech Services, Inc.

October 22, 2004

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 041008-MD1
Project: 98995757
Site: 105 5th Street, Oakland

Dear Mr.Gearhart,

Attached is our report for your samples received on 10/08/2004 13:30
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 11/22/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,

Melissa Brewer

Melissa Brewer
Project Manager

SEVERN TRENT STL

Submission: 2004-10-0313

Diesel (C9-C24)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	10/08/2004 07:50	Water	1
MW-2	10/08/2004 09:55	Water	2
MW-3	10/08/2004 10:15	Water	3
MW-4	10/08/2004 08:20	Water	4
MW-5	10/08/2004 08:50	Water	5
MW-6	10/08/2004 10:50	Water	6
T-1	10/08/2004 09:25	Water	7

Diesel (C9-C24)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Prep(s): 3511
Sample ID: **MW-1**
Sampled: 10/08/2004 07:50
Matrix: Water

Test(s): 8015M
Lab ID: 2004-10-0313 - 1
Extracted: 10/14/2004 16:29
QC Batch#: 2004/10/14-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	10/15/2004 12:23	
Surrogate(s)						
o-Terphenyl	136.3	78-177	%	1.00	10/15/2004 12:23	

Diesel (C9-C24)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Prep(s): 3511
Sample ID: **MW-2**
Sampled: 10/08/2004 09:55
Matrix: Water

Test(s): 8015M
Lab ID: 2004-10-0313 - 2
Extracted: 10/14/2004 16:29
QC Batch#: 2004/10/14-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	210	50	ug/L	1.00	10/15/2004 10:35	edr
Surrogate(s)						
o-Terphenyl	126.3	78-177	%	1.00	10/15/2004 10:35	

Diesel (C9-C24)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Prep(s): 3511
Sample ID: **MW-3**
Sampled: 10/08/2004 10:15
Matrix: Water

Test(s): 8015M
Lab ID: 2004-10-0313 - 3
Extracted: 10/14/2004 16:29
QC Batch#: 2004/10/14-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	250	50	ug/L	1.00	10/15/2004 11:02	ndp
Surrogate(s)						
o-Terphenyl	127.9	78-177	%	1.00	10/15/2004 11:02	

Diesel (C9-C24)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Prep(s): 3511 Test(s): 8015M

Sample ID: **MW-4** Lab ID: 2004-10-0313 - 4

Sampled: 10/08/2004 08:20 Extracted: 10/14/2004 16:29

Matrix: Water QC Batch#: 2004/10/14-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	10/15/2004 11:29	
Surrogate(s)						
o-Terphenyl	127.9	78-177	%	1.00	10/15/2004 11:29	

Diesel (C9-C24)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Prep(s): 3511
Sample ID: **MW-5**
Sampled: 10/08/2004 08:50
Matrix: Water

Test(s): 8015M
Lab ID: 2004-10-0313 - 5
Extracted: 10/14/2004 16:29
QC Batch#: 2004/10/14-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	61	50	ug/L	1.00	10/15/2004 11:56	edr
Surrogate(s)						
o-Terphenyl	128.5	78-177	%	1.00	10/15/2004 11:56	

Diesel (C9-C24)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Prep(s): 3511
Sample ID: **MW-6**
Sampled: 10/08/2004 10:50
Matrix: Water

Test(s): 8015M
Lab ID: 2004-10-0313 - 6
Extracted: 10/14/2004 16:29
QC Batch#: 2004/10/14-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	10/15/2004 12:23	
Surrogate(s)						
o-Terphenyl	125.6	78-177	%	1.00	10/15/2004 12:23	

Diesel (C9-C24)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Prep(s): 3511
Sample ID: T-1
Sampled: 10/08/2004 09:25
Matrix: Water

Test(s): 8015M
Lab ID: 2004-10-0313 - 7
Extracted: 10/14/2004 16:29
QC Batch#: 2004/10/14-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1100	50	ug/L	1.00	10/15/2004 12:51	ndp
Surrogate(s)						
o-Terphenyl	128.3	78-177	%	1.00	10/15/2004 12:51	

Diesel (C9-C24)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Batch QC Report

Prep(s): 3511 Test(s): 8015M

Method Blank **Water** **QC Batch # 2004/10/14-06.10**

MB: 2004/10/14-06.10-001 Date Extracted: 10/14/2004 16:29

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	10/15/2004 09:14	
Surrogates(s)					
o-Terphenyl	126.4	78-177	%	10/15/2004 09:14	

Diesel (C9-C24)

Blaine Tech Services, Inc.

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

Project: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Batch QC Report

Prep(s): 3511

Test(s): 8015M

Laboratory Control Spike **Water** **QC Batch # 2004/10/14-06.10**

LCS 2004/10/14-06.10-002 Extracted: 10/14/2004 Analyzed: 10/15/2004 09:41

LCSD 2004/10/14-06.10-003 Extracted: 10/14/2004 Analyzed: 10/15/2004 10:08

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	800	748	680	106.2	110.0	3.5	60-150	25		
Surrogates(s)										
o-Terphenyl	1.78	1.75	1.25	142.5	139.6		78-177	0		

Diesel (C9-C24)

Blaine Tech Services, Inc.

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Project: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Legend and Notes

Result Flag

edr

Hydrocarbon reported is in the early Diesel range, and does not match our Diesel standard

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

SEVERN TRENT STL

Submission: 2004-10-0313

Gas/BTEX Fuel Oxygenates 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: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	10/08/2004 07:50	Water	1
MW-2	10/08/2004 09:55	Water	2
MW-3	10/08/2004 10:15	Water	3
MW-4	10/08/2004 08:20	Water	4
MW-5	10/08/2004 08:50	Water	5
MW-6	10/08/2004 10:50	Water	6
T-1	10/08/2004 09:25	Water	7

Gas/BTEX Fuel Oxygenates 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: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Prep(s): 5030B
Sample ID: **MW-1**
Sampled: 10/08/2004 07:50
Matrix: Water

Test(s): 8260B
Lab ID: 2004-10-0313 - 1
Extracted: 10/21/2004 00:52
QC Batch#: 2004/10/20-2C.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	10/21/2004 00:52	
Benzene	ND	0.50	ug/L	1.00	10/21/2004 00:52	
Toluene	ND	0.50	ug/L	1.00	10/21/2004 00:52	
Ethylbenzene	ND	0.50	ug/L	1.00	10/21/2004 00:52	
Total xylenes	ND	1.0	ug/L	1.00	10/21/2004 00:52	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/21/2004 00:52	
Surrogate(s)						
1,2-Dichloroethane-d4	101.5	76-130	%	1.00	10/21/2004 00:52	
Toluene-d8	93.2	78-115	%	1.00	10/21/2004 00:52	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Prep(s): 5030B
Sample ID: **MW-2**
Sampled: 10/08/2004 09:55
Matrix: Water

Test(s): 8260B
Lab ID: 2004-10-0313 - 2
Extracted: 10/21/2004 01:16
QC Batch#: 2004/10/20-2C.65

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	540	500	ug/L	10.00	10/21/2004 01:16	
Benzene	5.2	5.0	ug/L	10.00	10/21/2004 01:16	
Toluene	ND	5.0	ug/L	10.00	10/21/2004 01:16	
Ethylbenzene	ND	5.0	ug/L	10.00	10/21/2004 01:16	
Total xylenes	ND	10	ug/L	10.00	10/21/2004 01:16	
Methyl tert-butyl ether (MTBE)	90	5.0	ug/L	10.00	10/21/2004 01:16	
Surrogate(s)						
1,2-Dichloroethane-d4	104.8	76-130	%	10.00	10/21/2004 01:16	
Toluene-d8	97.5	78-115	%	10.00	10/21/2004 01:16	

Gas/BTEX Fuel Oxygenates 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: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

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

Sample ID: **MW-3**
Lab ID: 2004-10-0313 - 3

Sampled: 10/08/2004 10:15
Extracted: 10/21/2004 03:09

Matrix: Water
QC Batch#: 2004/10/20-2B.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	10000	ug/L	200.00	10/21/2004 03:09	
Benzene	ND	100	ug/L	200.00	10/21/2004 03:09	
Toluene	ND	100	ug/L	200.00	10/21/2004 03:09	
Ethylbenzene	ND	100	ug/L	200.00	10/21/2004 03:09	
Total xylenes	ND	200	ug/L	200.00	10/21/2004 03:09	
tert-Butyl alcohol (TBA)	14000	1000	ug/L	200.00	10/21/2004 03:09	
Methyl tert-butyl ether (MTBE)	29000	100	ug/L	200.00	10/21/2004 03:09	
Di-isopropyl Ether (DIPE)	ND	400	ug/L	200.00	10/21/2004 03:09	
tert-Amyl methyl ether (TAME)	ND	400	ug/L	200.00	10/21/2004 03:09	
1,2-DCA	ND	100	ug/L	200.00	10/21/2004 03:09	
EDB	ND	100	ug/L	200.00	10/21/2004 03:09	
Surrogate(s)						
1,2-Dichloroethane-d4	107.8	76-130	%	200.00	10/21/2004 03:09	
Toluene-d8	97.6	78-115	%	200.00	10/21/2004 03:09	

Gas/BTEX Fuel Oxygenates 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: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Prep(s): 5030B
Sample ID: **MW-4**
Sampled: 10/08/2004 08:20
Matrix: Water

Test(s): 8260B
Lab ID: 2004-10-0313 - 4
Extracted: 10/21/2004 01:38
QC Batch#: 2004/10/20-2C.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	10/21/2004 01:38	
Benzene	ND	0.50	ug/L	1.00	10/21/2004 01:38	
Toluene	ND	0.50	ug/L	1.00	10/21/2004 01:38	
Ethylbenzene	ND	0.50	ug/L	1.00	10/21/2004 01:38	
Total xylenes	ND	1.0	ug/L	1.00	10/21/2004 01:38	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/21/2004 01:38	
Surrogate(s)						
1,2-Dichloroethane-d4	106.4	76-130	%	1.00	10/21/2004 01:38	
Toluene-d8	94.1	78-115	%	1.00	10/21/2004 01:38	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Prep(s): 5030B

Test(s): 8260B

Sample ID: **MW-5**

Lab ID: 2004-10-0313 - 5

Sampled: 10/08/2004 08:50

Extracted: 10/21/2004 02:03

Matrix: Water

QC Batch#: 2004/10/20-2C.65

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	250	ug/L	5.00	10/21/2004 02:03	
Benzene	ND	2.5	ug/L	5.00	10/21/2004 02:03	
Toluene	ND	2.5	ug/L	5.00	10/21/2004 02:03	
Ethylbenzene	2.6	2.5	ug/L	5.00	10/21/2004 02:03	
Total xylenes	ND	5.0	ug/L	5.00	10/21/2004 02:03	
Methyl tert-butyl ether (MTBE)	260	2.5	ug/L	5.00	10/21/2004 02:03	
Surrogate(s)						
1,2-Dichloroethane-d4	101.3	76-130	%	5.00	10/21/2004 02:03	
Toluene-d8	95.8	78-115	%	5.00	10/21/2004 02:03	

Gas/BTEX Fuel Oxygenates 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: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Prep(s): 5030B

Test(s): 8260B

Sample ID: **MW-6**

Lab ID: 2004-10-0313 - 6

Sampled: 10/08/2004 10:50

Extracted: 10/21/2004 02:25

Matrix: Water

QC Batch#: 2004/10/20-2C.65

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	2500	ug/L	50.00	10/21/2004 02:25	
Benzene	ND	25	ug/L	50.00	10/21/2004 02:25	
Toluene	ND	25	ug/L	50.00	10/21/2004 02:25	
Ethylbenzene	ND	25	ug/L	50.00	10/21/2004 02:25	
Total xylenes	ND	50	ug/L	50.00	10/21/2004 02:25	
Methyl tert-butyl ether (MTBE)	3100	25	ug/L	50.00	10/21/2004 02:25	
Surrogate(s)						
1,2-Dichloroethane-d4	101.1	76-130	%	50.00	10/21/2004 02:25	
Toluene-d8	93.1	78-115	%	50.00	10/21/2004 02:25	

Gas/BTEX Fuel Oxygenates 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: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Prep(s): 5030B

Test(s): 8260B

Sample ID: **T-1**

Lab ID: 2004-10-0313 - 7

Sampled: 10/08/2004 09:25

Extracted: 10/21/2004 02:49

Matrix: Water

QC Batch#: 2004/10/20-2C.65

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	1800	100	ug/L	2.00	10/21/2004 02:49	
Benzene	390	1.0	ug/L	2.00	10/21/2004 02:49	
Toluene	68	1.0	ug/L	2.00	10/21/2004 02:49	
Ethylbenzene	5.6	1.0	ug/L	2.00	10/21/2004 02:49	
Total xylenes	330	2.0	ug/L	2.00	10/21/2004 02:49	
Methyl tert-butyl ether (MTBE)	59	1.0	ug/L	2.00	10/21/2004 02:49	
Surrogate(s)						
1,2-Dichloroethane-d4	104.7	76-130	%	2.00	10/21/2004 02:49	
Toluene-d8	90.0	78-115	%	2.00	10/21/2004 02:49	

Gas/BTEX Fuel Oxygenates 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: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2004/10/20-2B.64-042

Water

Test(s): 8260B
QC Batch # 2004/10/20-2B.64
Date Extracted: 10/20/2004 19:42

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	10/20/2004 19:42	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/20/2004 19:42	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/20/2004 19:42	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/20/2004 19:42	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/20/2004 19:42	
1,2-DCA	ND	0.5	ug/L	10/20/2004 19:42	
EDB	ND	0.5	ug/L	10/20/2004 19:42	
Benzene	ND	0.5	ug/L	10/20/2004 19:42	
Toluene	ND	0.5	ug/L	10/20/2004 19:42	
Ethylbenzene	ND	0.5	ug/L	10/20/2004 19:42	
Total xylenes	ND	1.0	ug/L	10/20/2004 19:42	
Surrogates(s)					
1,2-Dichloroethane-d4	98.0	76-130	%	10/20/2004 19:42	
Toluene-d8	99.6	78-115	%	10/20/2004 19:42	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2004/10/20-2C.65

MB: 2004/10/20-2C.65-017

Date Extracted: 10/20/2004 19:17

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	10/20/2004 19:17	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/20/2004 19:17	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/20/2004 19:17	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/20/2004 19:17	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/20/2004 19:17	
1,2-DCA	ND	0.5	ug/L	10/20/2004 19:17	
EDB	ND	0.5	ug/L	10/20/2004 19:17	
Benzene	ND	0.5	ug/L	10/20/2004 19:17	
Toluene	ND	0.5	ug/L	10/20/2004 19:17	
Ethylbenzene	ND	0.5	ug/L	10/20/2004 19:17	
Total xylenes	ND	1.0	ug/L	10/20/2004 19:17	
Surrogates(s)					
1,2-Dichloroethane-d4	95.4	76-130	%	10/20/2004 19:17	
Toluene-d8	92.6	78-115	%	10/20/2004 19:17	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

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

Project: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/10/20-2B.64**

LCS 2004/10/20-2B.64-057 Extracted: 10/20/2004 Analyzed: 10/20/2004 18:57

LCSD 2004/10/20-2B.64-019 Extracted: 10/20/2004 Analyzed: 10/20/2004 19:19

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	21.5	20.1	25	86.0	80.4	6.7	65-165	20		
Benzene	23.2	21.3	25	92.8	85.2	8.5	69-129	20		
Toluene	22.9	21.9	25	91.6	87.6	4.5	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	465	449	500	93.0	89.8		76-130			
Toluene-d8	513	495	500	102.6	99.0		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/10/20-2C.65**

LCS 2004/10/20-2C.65-031 Extracted: 10/20/2004 Analyzed: 10/20/2004 18:31

LCSD 2004/10/20-2C.65-053 Extracted: 10/20/2004 Analyzed: 10/20/2004 18:53

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	23.2	23.2	25	92.8	92.8	0.0	65-165	20		
Benzene	21.1	21.2	25	84.4	84.8	0.5	69-129	20		
Toluene	23.1	22.4	25	92.4	89.6	3.1	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	444	450	500	88.8	90.0		76-130			
Toluene-d8	467	456	500	93.4	91.2		78-115			

Gas/BTEX Fuel Oxygenates 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: 041008-MD1
98995757

Received: 10/08/2004 13:30

Site: 105 5th Street, Oakland

Legend and Notes

Analysis Flag

o

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

9TL

SHELL Chain Of Custody Record

04640

Lab Identification (if necessary):

Address:

City, State, Zip

Shell Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

Karen Petryna

2004-10-0313

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

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

DATE: 10/8/04

PAGE: 1 of 1

SAMPLING COMPANY	LOG CODE	SITE ADDRESS (Street and City)	GLOBAL ID NO.
Blaine Tech Services	BTSS	105 5th Street, Oakland	T0600102116

ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112

EDF DELIVERABLE TO (Responsible Party or Designee): Anni Kreml | PHONE NO.: (510) 420-3335 | E-MAIL: ShellOaklandEDF@cambria-env.com | CONSULTANT PROJECT NO.: 041008-MD1 | BTS #

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

SAMPLER NAME(S) (Print): John DeJong

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

LAB USE ONLY

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: ______

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

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

REQUESTED ANALYSIS

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

4 °C

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)
	MW-1	10/8/04	0750	W	6	X	X		X						X
	MW-2	↓	0955	↓	6	X	X		X						X
	MW-3	↓	1015	↓	6	X	X		X	X					X
	MW-4	↓	0820	↓	6	X	X		X						X
	MW-5	↓	0850	↓	6	X	X		X						X
	MW-6	↓	1050	↓	6	X	X		X						X
	T-1	↓	0925	↓	6	X	X		X						X
					42										

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
John DeJong (signature)	(signature)	10-8-04	1330
(signature)	(signature)	10-8-04	1700

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

10/16/00 Revision

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

Karen Petryna

2004-10-0313

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

SAP or CRMT NUMBER (TS/CRMT):

DATE: 10/8/04

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS (Street and City): 105 5th Street, Oakland	GLOBAL ID NO.: T0600102116
ADDRESS: 1680 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): Leon Gearhart		E-MAIL: ShellOaklandEDF@cambria-env.com	CONSULTANT PROJECT NO.: 041008-MG1
TELEPHONE: 408-573-0555	FAX: 408-573-7771	E-MAIL: lgearhart@blainetech.com	SAMPLER NAME(S) (Print): John DeJong

BTS #

LAB USE ONLY

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: ______

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

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	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)	TBA, DIPE, TAME	TPH - Diesel, Extractable (8015m)									FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-1	10/8/04	0750	W	6	X	X		X							X									
	MW-2	↓	0955	↓	6	X	X		X							X									
	MW-3		1015		6	X	X		X	[illegible]			X	X	X	X									
	MW-4		0820		6	X	X		X							X									
	MW-5		0850		6	X	X		X							X									
	MW-6		1050		6	X	X		X							X									
	T-1	↓	0925	↓	6	X	X		X							X									
					42																				

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature) [signature]	Received by: (Signature) [signature]	Date: 10-8-04	Time: 1330
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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

10/16/00 Revision

WELL GAUGING DATA

Project # 041008-M01 Date 10/8/04 Client Shell

Site 105 5th 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 TOS	
MW-1	4	*				5.94	23.54		
MW-2	4	*Odor				5.41	23.54		
MW-3	4	**				5.88	24.96		
MW-4	2					7.17	19.90		
MW-5	4					6.32	24.17		
MW-6	2					5.43	24.11		
T-1	12	*				5.67	11.43		
		* gauged w/ stinger in well							
		** removed stinger & Brought Back to							
		Base due to Duct tape.							

SHELL WELL MONITORING DATA SHEET

BTS #: 041008-MW1	Site: 9899575 7
Sampler: MR	Date: 10/8/04
Well I.D.: ~~MW-1~~ MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 23.54	Depth to Water (DTW): 5.94
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]: 9.46	

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:_____

11.5 (Gals.) X	3	= 34.5 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
0739	71.4	6.4	560	13	12	clear
0741	72.0	6.4	471	29	24	"
0743	71.7	6.4	424	26	35	clear

Did well dewater? Yes (No) Gallons actually evacuated: 35

Sampling Date: 10/8/04 Sampling Time: 0750 Depth to Water: 9.46

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

SHELL WELL MONITORING DATA SHEET

BTS #: 041008-MW1	Site: 98995757
Sampler: MW	Date: 10/8/04
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 23.54	Depth to Water (DTW): 5.41
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]: 9.04	

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
1.8 (Gals.) X	3	= 3.514 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
0940	74.7	6.8	421	10	12	clear, odor
0943	74.5	6.7	447	39	24	"
0945	73.9	6.8	414	13	36	clear, odor

Did well dewater? Yes (No) Gallons actually evacuated: 36

Sampling Date: 10/8/04 Sampling Time: 0955 Depth to Water: 9.04

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

SHELL WELL MONITORING DATA SHEET

BTS #: 041008-MW1	Site: 9899757
Sampler: MW	Date: 10/8/04
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 24.96	Depth to Water (DTW): 5.98
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]: 9.6 9.70	

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
12.4 (Gals.) X	3	= 37.2 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
1002	69.5	6.9	791	25	12.5	clear, odor
1004	69.7	6.7	870	136	25	cloudy, odor
1007	69.4	6.7	852	37	37.5	clear, odor

Did well dewater? Yes (No) Gallons actually evacuated: 37.5

Sampling Date: 10/8/04 Sampling Time: 1015 Depth to Water: 9.70

Sample I.D.: MW-3 Laboratory: (STL) Other ____

Analyzed for: ~~TPH-G~~ (BTEX) (MTBE) ~~TPH-D~~ Other: TBA, DIPE, TAME, 1-2DCA, EDB

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 041008-MW1	Site: 98995757
Sampler: MW	Date: 10/8/04
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 19.90	Depth to Water (DTW): 7.17
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]: 9.72	

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
0811	66.7	6.8	1478	170	2	cloudy
0813	67.1	6.9	1499	87	4	"
0816	67.3	7.1	1513	50	6	clear

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

Sampling Date: 10/8/04 Sampling Time: 0820 Depth to Water: 11.91 Strut wet

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

SHELL WELL MONITORING DATA SHEET

BTS #: 041008-MW1	Site: 99995757
Sampler: MW	Date: 10/8/04
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 24.17	Depth to Water (DTW): 6.32
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.89	

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:_____

11.6 (Gals.) X	3	=	34.8 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
0834	70.7	6.7	583	76	12	clear
0836	72.8	6.6	576	22	24	"
0839	71.6	6.6	598	60	35	cloudy

Did well dewater? Yes (No) Gallons actually evacuated: 35

Sampling Date: 10/8/04 Sampling Time: 0850 Depth to Water: 9.89

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

SHELL WELL MONITORING DATA SHEET

BTS #: 041008-MD1	Site: 98995757
Sampler: MD	Date: 10/8/04
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 24.11	Depth to Water (DTW): 5.43
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]: ~~9.17~~ 9.17	

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: _____

3 (Gals.) X	3	= 9 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1032	70.3	7.7	256	74	3	clear
1035	69.9	7.2	265	49	6	"
1038	69.8	7.2	276	31	9	clear

Did well dewater? Yes (No) Gallons actually evacuated: 9

Sampling Date: 10/8/04 Sampling Time: 1050 Depth to Water: 6.71

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

SHELL WELL MONITORING DATA SHEET

BTS #: 041008-MW1	Site: 9899757
Sampler: MW	Date: 10/7/04
Well I.D.: T-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 11.43	Depth to Water (DTW): 5.67
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]: 6.82	

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: _____

33.8 (Gals.) X 3 = 101.4 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

5.87

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0910	72.2	6.6	888	8	34	clear
0916	73.8	6.6	896	2	68	"
0922	74.3	6.7	895	2	102	Clear

Did well dewater? Yes (No) Gallons actually evacuated: 102

Sampling Date: 10/8/04 Sampling Time: 0925 Depth to Water: 5.67

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

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

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

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

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