

R0493



Shell Oil Products US

December 9, 2004

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

Alameda County
DEC 15 2004
Environmental Health

Subject: Shell-branded Service Station
610 Market Street
Oakland, California

Dear Ms Garcia-La Grille:

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

A handwritten signature in cursive script that reads "Karen Petryna".

Karen Petryna
Sr. Environmental Engineer

December 9, 2004

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

Re: **Third Quarter 2004 Monitoring Report**
Shell-branded Service Station
610 Market Street
Oakland, California
Incident #99895750
Cambria Project #246-0594-002



Dear Ms. Garcia-La Grille:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d. The site is located on Market Street between Sixth and Seventh Streets in Oakland, California (Figures 1 and 2).

REMEDIATION SUMMARY

Mobile Dual-Phase Vacuum Extraction (DVE Treatment): From March to October 2000, Cambria coordinated mobile DVE from wells MW-2 and MW-3. Mobile DVE utilized a vacuum truck for extraction and off-hauling of groundwater. Carbon absorption vessels were used to abate extracted vapors. DVE was discontinued in October 2000 due to low groundwater-extraction volumes.

DVE and Soil Vapor Extraction (SVE) Pilot Test: On March 22, 2001, Cambria performed a short-term (1-day) DVE test on well MW-3 and a short-term (1-day) SVE test on tank backfill well T-1. The tests were conducted using an internal combustion engine as the extraction and abatement device.

SVE Pilot Test: Between October 8 and 12, 2001, Cambria conducted a long-term (5-day) SVE pilot test on tank backfill well T-1. The test was conducted using an internal combustion engine as the extraction and abatement device.

**Cambria
Environmental
Technology, Inc.**

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

Mobile Groundwater Extraction (GWE): As recommended in the August 29, 2001 *Site Conceptual Model and Pilot Test Report*, Cambria began coordinating weekly GWE from well MW-3 using a vacuum truck in August 2001. Beginning in January 2002, well MW-2 was added to the weekly GWE schedule at the site. Mobile GWE was discontinued on January 8, 2003 in anticipation of starting the GWE system.

GWE System: As recommended in the August 19, 2002 *Interim Remedial Action Plan*, a GWE system was installed to address the elevated methyl tertiary butyl ether (MTBE) concentrations detected in groundwater beneath the site. The GWE system was started on February 18, 2003.



The following table summarizes the estimated total petroleum hydrocarbon as gasoline (TPHg), benzene, and MTBE mass removed by application of the remedial methods discussed:

Table A - Mass Removal Summary

Method	Period	TPHg (pounds)		Benzene (pounds)		MTBE (pounds)	
		Vapor-phase	Dissolved-phase	Vapor-phase	Dissolved-phase	Vapor-phase	Dissolved-phase
Mobile DVE	03/15/00 – 10/27/00	35.1	0.537	1.49	0.024	5.03	10.6
DVE/SVE Test	03/22/01	1.96	0.032	0.009	0	2.08	1.25
SVE Test	10/08/01 – 10/12/01	15.8	NA	1.33	NA	35.9	NA
Mobile GWE	03/22/01 – 01/28/03	NA	2.84	NA	0.063	NA	60.0
GWE System	02/18/03 – 11/23/04	NA	46.9	NA	0.372	NA	135.3
Subtotal (per phase)		52.9	50.3	2.83	0.459	43.0	207.2
Total Mass Removed		103.2 pounds		3.29 pounds		250.2 pounds	

THIRD 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 which includes previously submitted well survey information (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.

Remedial Activities: Cambria started operating the fixed GWE system on February 18, 2003. Wells MW-2, MW-3, MW-6, MW-7, and MW-8 are used as extraction points. Currently, the system is only extracting from wells MW-3, MW-6, and MW-8. Table 1 summarizes system analytical data. Groundwater level measurements and flow meter readings have been recorded at various times of operation to assess system production. Table 2 summarizes the field data and system operation and calculates mass removal. Based on the field data, the GWE system operated at an average flow rate of approximately 2.04 gallons per minute.

As of November 23, 2004, a total of 1,681,229 gallons of groundwater has been extracted. A total of 46.9 pounds of TPHg, 0.372 pounds of benzene, and 135.3 pounds of MTBE has been recovered. Table 2 presents mass removal data.

ANTICIPATED FOURTH QUARTER 2004 ACTIVITIES

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

Remedial Activities: Per Cambria's standard operating procedures and East Bay Municipal Utilities District (EBMUD) treatment-system monitoring requirements, Cambria will perform routine operation and maintenance of the GWE system. Cambria will monitor concentration trends and GWE system effectiveness. Cambria will prepare a quarterly discharge compliance report in accordance with the EBMUD wastewater discharge permit.

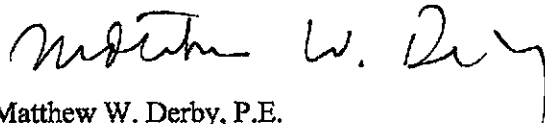
CLOSING

We appreciate the opportunity to work with you on this project. Please call Dan Lescure at (510) 420-3306 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc



Dan Lescure
Senior Project Engineer



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



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

Tables: 1 - Groundwater Extraction – System Analytical Data
2 - Groundwater Extraction – Operation and 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
Virginia R. Rawson, Tr., 1860 Tice Creek Drive #1353, Walnut Creek, CA 94595
Roger Schmidt, 1224 Contra Costa Dr., El Cerrito, CA 94530

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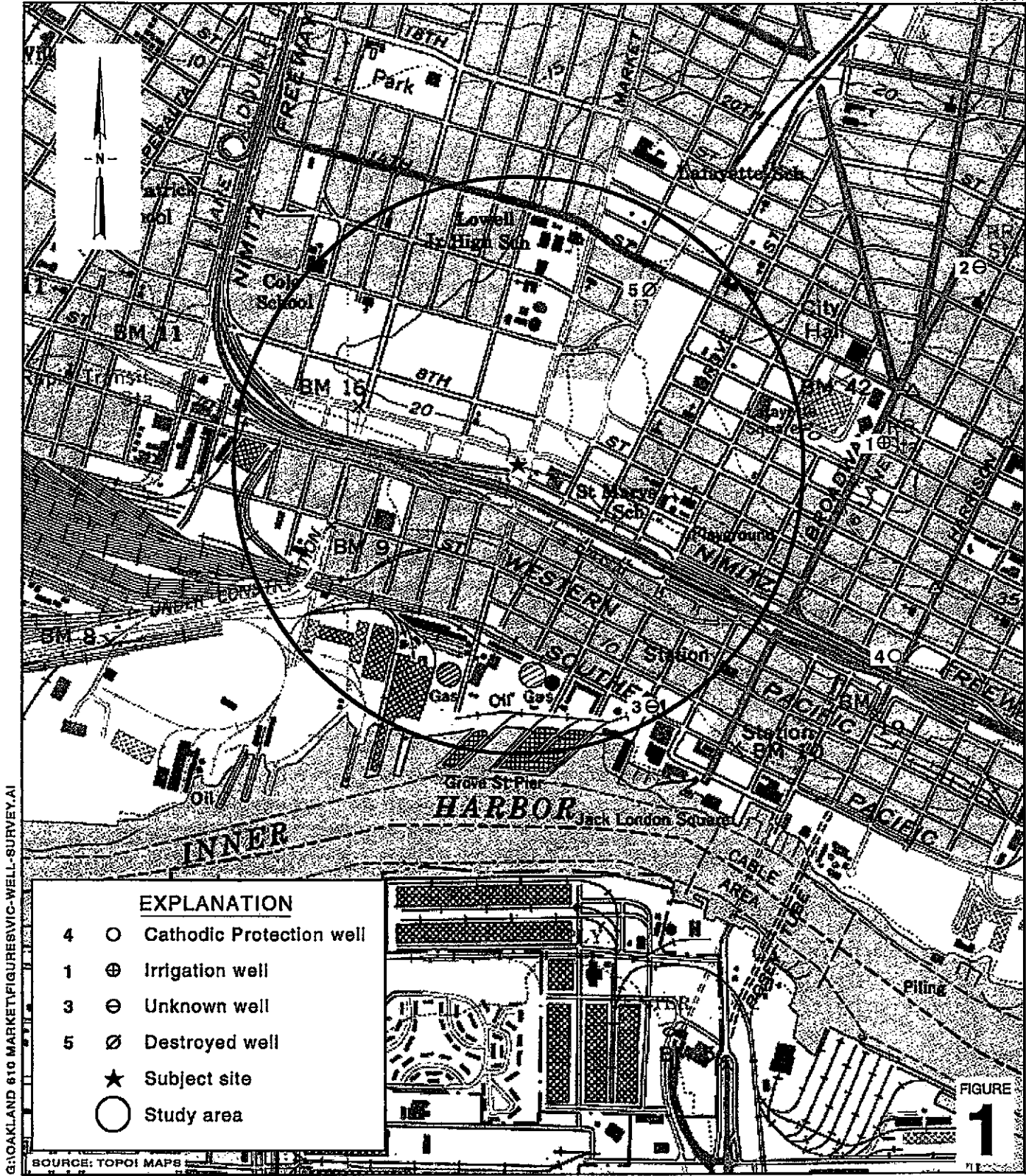


FIGURE 1

Shell-branded Service Station
 610 Market Street
 Oakland, California
 Incident #98995750



Vicinity / Area Well Survey Map
 1/2 Mile Radius

EXPLANATION

- MW-1 Monitoring well location
- MW-2 Monitoring well used for groundwater extraction
- T1 Tank observation well location
- SB-E Soil boring location (4/17/02)
- SB-A Geoprobe boring location (3/31/98)
- Electrical line (E)
- Storm drain line (SD)
- Sanitary sewer line (SS)
- Water line (W)
- Gas line (G)
- Telecommunication line (T)
- Groundwater flow direction
- Groundwater elevation contour, in feet above mean sea level (msl), approximately located dashed where inferred
- Well designation
- Groundwater elevation, in feet above msl
- Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260.
- Flow direction
- Flow line elevation, in feet above mean sea level (msl)
- Manhole
- Groundwater extraction system piping

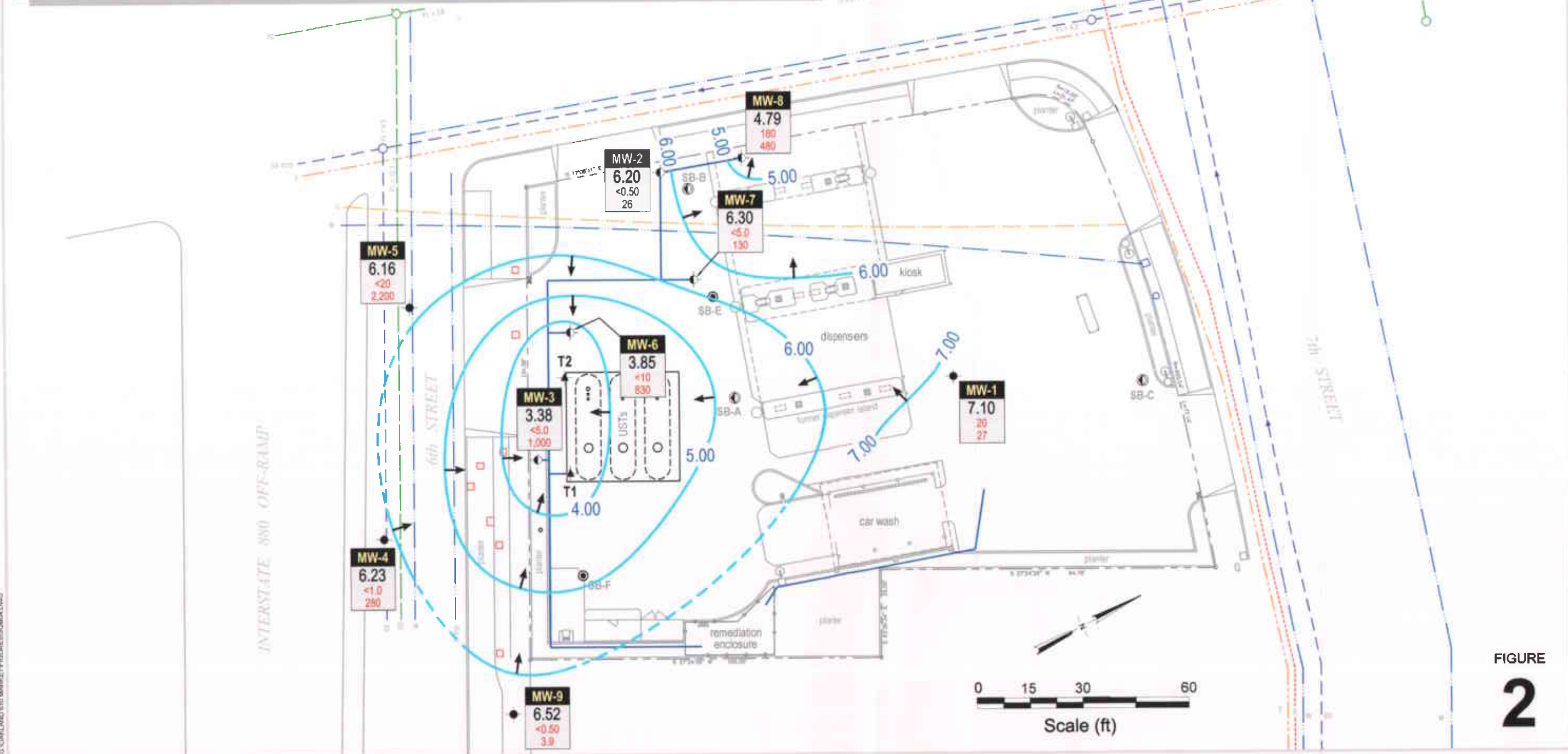


FIGURE
2



D:\OAKLAND\610 MARKET\FIGURES\GWA\GWA.DWG

Table 1: Groundwater Extraction - System Analytical Data - Shell-branded Service Station, Incident #98995750, 610 Market St, Oakland, California

Sample Date (mm/dd/yy)	Influent			Midfluent 1			Midfluent 2			Effluent		
	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc. (ppb)	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc. (ppb)	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc. (ppb)	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc. (ppb)
02/18/2003	<20,000	270	93,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
02/25/2003	<20,000	<200	74,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
03/11/2003	<10,000	<100	47,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
03/25/2003	<10,000	<100	38,000	<250	<2.5	<25	<50	<0.50	<5.0	<50	<0.50	<5.0
04/07/2003	30,000	<250	33,000	<50	<0.50	<5.0	<50	<0.50	<5.0	<50	<0.50	<5.0
04/22/2003	<25,000	<250	26,000	<50	<0.50	2.6	<50	<0.50	<0.50	<50	<0.50	<0.50
05/01/2003	<10,000	<100	25,000	<50	<0.50	<5.0	<50	<0.50	<5.0	<50	<0.50	<5.0
05/20/2003	<10,000	<100	17,000	<500	<5.0	610	640	<0.50	<0.5	<50	<0.50	<0.5
06/03/2003	<10,000	<100	15,000	<5,000	<50	4000	<50	<0.50	<0.5	<50	<0.50	<0.5
06/17/2003	<10,000	<100	17,000	<25,000	<250	16,000	<50	<0.50	<5.0	<50	<0.50	<5.0
07/28/2003	<5,000	<50	7,100	<250	<2.5	420	<50	<0.50	<0.50	<50	<0.50	<0.50
08/11/2003	<2,500	<25	4,900	<250	<2.5	280	<50	<0.50	<0.50	<50	<0.50	<0.50
08/28/2003	<2,500	<25	7,700	<100	<1.0	260	<50	<0.50	<0.50	<50	<0.50	<0.50
09/08/2003	<2,500	<25	6,600	<50	<0.50	140	<50	<0.50	<0.50	<50	<0.50	<0.50
09/22/2003	<5,000	<50	5,700	<250	<2.5	230	<50	<0.50	<0.50	<50	<0.50	<0.50
10/08/2003	<2,500	<25	3,100	<50	<0.50	140	<50	<0.50	<0.50	<50	<0.50	<0.50
10/21/2003	<5,000	<50	3,800	<250	<2.5	180	<50	<0.50	<0.50	<50	<0.50	<0.50
11/06/2003	<1,000	<10	3,500	<50	<0.50	150	<50	<0.50	<0.50	<50	<0.50	<0.50
12/05/2003	<2,000	<20	3,400	<50	<0.50	130	<50	<0.50	<0.50	<50	<0.50	<0.50
01/09/2004	<2,000	<20	2,700	<50	<0.50	210	<50	<0.50	<0.50	<50	<0.50	<0.50
02/09/2004	<250	7.8	250	<50	<0.50	180	<50	<0.50	<0.50	<50	<0.50	<0.50
03/09/2004	<250	8.6	700	<100	<1.0	270	<50	<0.50	<0.50	<50	<0.50	<0.50
04/13/2004	<1,000	<10	1,900	<250	<2.5	570	<50	<0.50	<0.50	<50	<0.50	<0.50
05/10/2004	<1,000	<10	1,600	<250	<2.5	660	<50	<0.50	<0.50	<50	<0.50	<0.50

Table 1: Groundwater Extraction - System Analytical Data - Shell-branded Service Station, Incident #98995750, 610 Market St, Oakland, California

Sample Date (mm/dd/yy)	Influent			Midfluent 1			Midfluent 2			Effluent		
	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc. (ppb)	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc. (ppb)	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc. (ppb)	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc. (ppb)
05/28/2004	3,400	170	1,200	<50	<0.5	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
06/09/2004	<1,000	<10	1,100	<250	<2.5	920	<50	<0.50	<0.50	<50	<0.50	<0.50
07/07/2004	<1,000	<10	1,100	<500	<5.0	1,100	<50	<0.50	<0.50	<50	<0.50	<0.50
08/03/2004	<1,000	<10	850	<500	<5.0	680	<50	<0.50	<0.50	<50	<0.50	<0.50
09/16/2004	<250	<2.5	480	<500	<5.0	920	<50	<0.50	<0.50	<50	<0.50	<0.50
10/12/2004	<50	<0.50	320	<150	<1.5	820	<50	<0.50	<0.50	<50	<0.50	<0.50
11/08/2004	<200	<2.0	400	<250	<2.5	700	<50	<0.50	<0.50	<50	<0.50	<0.50

Abbreviations & Notes:

TPHg = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

Conc. = Concentration

ppb = parts per billion, equivalent to µg/l

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

Table 2: Groundwater Extraction - Operation and Mass Removal Data, Shell-branded Service Station, Incident #98995750, 610 Market Street, Oakland, California

Site Visit (mm/dd/yy)	Hour Meter (hours)	Uptime	Flow Meter Reading (gal)	Period Volume (gal)	Period Operational Flow Rate (gpm)	Cumulative Volume (gal)	TPHg			Benzene			MTBE			
							TPHg Conc. (ppb)	TPHg Period Removal (pounds)	TPHg Cumulative Removal (pounds)	Benzene Conc. (ppb)	Benzene Period Removal (pounds)	Benzene Cumulative Removal (pounds)	MTBE Conc. (ppb)	MTBE Period Removal (pounds)	MTBE Cumulative Removal (pounds)	
02/18/03	0.0		100	0	0.00	0	<20,000	0.00000	0.00000		270	0.00000	0.00000	93,000	0.00000	0.00000
02/18/03	3.5		1,024	924	4.40	924		0.07710	0.07710			0.00208	0.00208		0.71705	0.71705
02/25/03	140.2	0.83	30,312	29,288	3.57	30,212	<20,000	2.44390	2.52100		<200	0.02444	0.02652	74,000	18.08482	18.80187
03/11/03	475.8	1.00	84,666	54,354	2.70	84,566	<10,000	2.26775	4.78874		<100	0.02268	0.04920	47,000	21.31681	40.11868
03/13/03	524.0	1.00	92,030	7,364	2.55	91,930		0.30724	5.09598			0.00307	0.05227		2.88805	43.00673
03/25/03	527.0	0.01	92,840	810	4.50	92,740	<10,000	0.03379	5.12978		<100	0.00034	0.05261	38,000	0.25684	43.26357
04/07/03	838.6	1.00	142,754	49,914	2.67	142,654	30,000	12.49501	17.62478		<250	0.05206	0.10467	33,000	13.74451	57.00807
04/14/03	985.4	0.87	165,205	22,451	2.55	165,105		5.62017	23.24496			0.02342	0.12809		6.18219	63.19027
04/22/03	1,184.1	1.03	197,360	32,155	2.70	197,260	<25,000	3.35391	26.59887		<250	0.03354	0.16163	26,000	6.97613	70.16640
04/29/03	1,305.4	0.72	216,450	19,090	2.62	216,350		1.99117	28.59004			0.01991	0.18154		4.14164	74.30804
05/01/03	1,351.3	0.96	223,850	7,400	2.69	223,750	<10,000	0.30874	28.89878		<100	0.00309	0.18463	25,000	1.54371	75.85174
05/20/03	1,783.0	0.95	291,620	67,770	2.62	291,520	<10,000	2.82749	31.72626		<100	0.02827	0.21290	17,000	9.61345	85.46519
06/03/03	2,122.1	1.01	341,643	50,023	2.46	341,543	<10,000	2.08705	33.81331		<100	0.02087	0.23377	15,000	6.26115	91.72634
06/17/03	2,456.1	0.99	388,001	46,358	2.31	387,901	<10,000	1.93414	35.74745		<100	0.01934	0.25311	17,000	6.57607	98.30241
06/30/03	2,766.0	0.99	429,880	41,879	2.25	429,780		1.74727	37.49472			0.01747	0.27059		5.94071	104.24311
07/14/03	3,095.9	0.98	473,549	43,669	2.21	473,449		1.82195	39.31667			0.01822	0.28881		6.19462	110.43774
07/28/03	3,423.7	0.98	514,826	41,277	2.10	514,726	<5,000	0.86107	40.17774		<50	0.00861	0.29742	7,100	2.44545	112.88319
08/11/03	3,761.9	1.01	545,750	30,924	1.52	545,650	<2,500	0.32255	40.50029		<25	0.00323	0.30064	4,900	1.26440	114.14759
08/28/03	4,171.0	1.00	595,525	49,775	2.03	595,425	<2,500	0.51918	41.01947		<25	0.00519	0.30583	7,700	3.19812	117.34571
09/08/03	4,435.4	1.00	626,720	31,195	1.97	626,620	<2,500	0.32538	41.34485		<25	0.00325	0.30909	6,600	1.71799	119.06371
09/22/03	4,769.9	1.00	665,449	38,729	1.93	665,349	<5,000	0.80792	42.15277		<50	0.00808	0.31717	5,700	1.84206	120.90577
10/08/03	5,084.6	0.82	701,104	35,655	1.89	701,004	<2,500	0.37190	42.52466		<25	0.00372	0.32089	3,100	0.92231	121.82807
10/21/03	5,396.7	1.00	735,644	34,540	1.84	735,544	<5,000	0.72054	43.24520		<50	0.00721	0.32809	3,800	1.09521	122.92329
11/06/03	5,785.7	1.01	778,218	42,574	1.82	778,118	<1,000	0.17763	43.42283		<10	0.00178	0.32987	3,500	1.24338	124.16667
11/19/03	6,097.1	1.00	810,223	32,005	1.71	810,123		0.13353	43.55636			0.00134	0.33120		0.93471	125.10139
12/05/03	6,481.6	1.00	849,610	39,387	1.71	849,510	<2,000	0.32866	43.88502		<20	0.00329	0.33449	3,400	1.11744	126.21883
12/23/03	6,909.0	0.99	898,595	48,985	1.91	898,495		0.40875	44.29376			0.00409	0.33858		1.38974	127.60857
01/02/04	7,057.2	0.62	917,835	19,240	2.16	917,735		0.16055	44.45431			0.00161	0.34018		0.54585	128.15443
01/09/04	7,170.7	0.68	941,766	23,931	3.51	941,666	<2,000	0.19969	44.65400		<20	0.00200	0.34218	2,700	0.53916	128.69358
01/21/04	7,461.1	1.01	986,590	44,824	2.57	986,490		0.37403	45.02803			0.00374	0.34592		1.00987	129.70346
02/09/04	7,492.3	0.07	991,309	4,719	2.52	991,209	<250	0.00492	45.03295		7.8	0.00031	0.34623	250	0.00984	129.71330
02/25/04	7,872.5	0.99	1,048,823	57,514	2.52	1,048,723		0.05999	45.09294			0.00374	0.34997		0.11998	129.83328
03/09/04	7,952.6	0.26	1,062,912	14,089	2.93	1,062,812	<250	0.01470	45.10763		8.6	0.00101	0.35098	700	0.08229	129.91558
03/23/04	8,285.6	0.99	1,117,340	54,428	2.72	1,117,240		0.05677	45.16440			0.00391	0.35489		0.31792	130.23349
04/13/04	8,792.3	1.01	1,191,229	73,889	2.43	1,191,129	<1,000	0.30828	45.47268		<10	0.00308	0.35797	1,900	1.17146	131.40495
04/29/04	9,010.2	0.57	1,221,189	29,960	2.29	1,221,089		0.12500	45.59768			0.00125	0.35922		0.47499	131.87994
05/10/04	9,273.9	1.00	1,256,838	35,649	2.25	1,256,738	<1,000	0.14873	45.74641		<10	0.00149	0.36071	1,600	0.47595	132.35589
05/25/04	9,633.5	1.00	1,299,232	42,394	1.96	1,299,132		0.17688	45.92329			0.00177	0.36248		0.56600	132.92189
05/28/04	9,633.5	0.00	1,299,232	0	0.00	1,299,132	3,400	0.00000	45.92329		170	0.00000	0.36248	1,200	0.00000	132.92189
06/09/04	9,784.0	0.52	1,317,792	18,560	2.06	1,317,692	<1,000	0.07744	46.00073		<10	0.00077	0.36325	1,100	0.17036	133.09225

Table 2: Groundwater Extraction - Operation and Mass Removal Data, Shell-branded Service Station, Incident #98995750, 610 Market Street, Oakland, California

Site Visit (mm/dd/yy)	Hour Meter (hours)	Uptime	Flow Meter Reading (gal)	Period Volume (gal)	Period Operational Flow Rate (gpm)	Cumulative Volume (gal)	TPHg			Benzene			MTBE				
							TPHg Conc. (ppb)	TPHg Period Removal (pounds)	TPHg Cumulative Removal (pounds)	Benzene Conc. (ppb)	Benzene Period Removal (pounds)	Benzene Cumulative Removal (pounds)	MTBE Conc. (ppb)	MTBE Period Removal (pounds)	MTBE Cumulative Removal (pounds)		
06/22/04	10,092.7	0.99	1,353,124	35,332	1.91	1,353,024		0.14741	46.14814		0.00147	0.36472		0.32431	133.41656		
07/07/04	10,452.9	1.00	1,392,516	39,392	1.82	1,392,416	<1,000	0.16435	46.31249		0.00164	0.36637	1,100	0.36157	133.77813		
07/22/04	10,815.9	1.01	1,431,329	38,813	1.78	1,431,229		0.16193	46.47442		0.00162	0.36799		0.35626	134.13438		
08/03/04	11,101.8	0.99	1,458,993	27,664	1.61	1,458,893	<1,000	0.11542	46.58984		0.00115	0.36914	850	0.19621	134.33060		
08/18/04	11,462.6	1.00	1,489,829	30,836	1.42	1,489,729		0.12865	46.71849		0.00129	0.37043		0.21871	134.54931		
08/31/04	11,774.4	1.00	1,509,195	19,366	1.04	1,509,095		0.08080	46.79929		0.00081	0.37124		0.13736	134.68667		
09/16/04	12,158.3	1.00	1,544,659	35,464	1.54	1,544,559	<250	0.03699	46.83628		0.00037	0.37161	480	0.14204	134.82871		
09/29/04	12,454.1	0.95	1,570,554	25,895	1.46	1,570,454		0.02701	46.86329		0.00027	0.37188		0.10372	134.93243		
10/12/04	12,764.9	1.00	1,596,571	26,017	1.40	1,596,471	<50	0.00543	46.86872		0.00005	0.37193	320	0.06947	135.00190		
10/29/04	13,155.1	0.96	1,629,213	32,642	1.39	1,629,113		0.00681	46.87553		0.00007	0.37200		0.08716	135.08906		
11/08/04	13,396.0	1.00	1,650,078	20,865	1.44	1,649,978	<200	0.01741	46.89294		0.00017	0.37217	400	0.06964	135.15870		
11/23/04	13,753.4	0.99	1,681,329	31,251	1.46	1,681,229		0.02608	46.91902		0.00026	0.37243		0.10431	135.26301		
Total Extracted Volume:						1,681,229	Total Pounds Removed:			46.91902	Total Pounds Removed:			0.37243	Total Pounds Removed:		135.26301
Average Operational Flow Rate:						2.04	Total Gallons Removed:			7,76253	Total Gallons Removed:			0.05130	Total Gallons Removed:		21,90537

Abbreviations & Notes:

TPHg = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

Conc. = Concentration

ppb = Parts per billion, equivalent to µg/L

µg/L = Micrograms per liter

L = Liter

gal = Gallon

g = Gram

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)

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

Volume removal data based on the formula: mass (pounds) x (density)⁻¹ (cc/g) x 453.6 (g/pound) x (L/1000 cc) * (gal/3.785 L)

Density inputs: TPHg = 0.73 g/cc, TPHd = 0.87 g/cc, MTBE = 0.74 g/cc

TPHg, BTEX, and MTBE analyzed by EPA Method 8260B

ATTACHMENT A
Blaine Groundwater Monitoring Report
and Field Notes

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 Sheet

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

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	12/17/1998	2,200	20	<10	110	420	<50	NA	NA	NA	NA	NA	21.70	13.71	7.99
MW-1	03/09/1999	4,320	25.8	<10.0	338	474	<100	NA	NA	NA	NA	NA	21.70	13.03	8.67
MW-1	06/16/1999	6,150	107	84.0	615	1,050	<250	NA	NA	NA	NA	NA	21.70	13.82	7.88
MW-1	09/29/1999	3,440	97.3	58.7	433	578	89.1	NA	NA	NA	NA	NA	21.70	14.45	7.25
MW-1	12/22/1999	1,370	34.5	4.38	196	49.1	29.3	NA	NA	NA	NA	NA	21.70	15.39	6.31
MW-1	03/21/2000	2,550	10.3	3.36	164	312	65.6	NA	NA	NA	NA	NA	21.70	11.94	9.76
MW-1	06/20/2000	4,770	64.3	18.6	387	732	51.3	NA	NA	NA	NA	NA	21.70	13.15	8.55
MW-1	09/21/2000	7,490	350	229	690	1,490	160	NA	NA	NA	NA	NA	21.70	13.65	8.05
MW-1	11/30/2000	5,410	420	168	494	1,170	167	NA	NA	NA	NA	NA	21.70	14.20	7.50
MW-1	03/06/2001	965	25.7	9.14	13.3	9.12	<25.0	NA	NA	NA	NA	NA	21.70	12.99	8.71
MW-1	06/28/2001	5,900	190	71	360	910	NA	110	NA	NA	NA	NA	21.70	13.98	7.72
MW-1	09/12/2001	7,400	240	110	460	1,300	NA	130	NA	NA	NA	NA	21.70	14.15	7.55
MW-1	12/12/2001	1,700	100	30	120	300	NA	98	NA	NA	NA	NA	21.70	13.75	7.95
MW-1	03/08/2002	1,100	63	12	74	83	NA	50	NA	NA	NA	NA	21.70	13.22	8.48
MW-1	06/06/2002	2,300	95	31	130	290	NA	49	NA	NA	NA	NA	21.70	13.57	8.13
MW-1	09/09/2002	3,600	150	44	200	590	NA	54	NA	NA	NA	NA	21.70	14.05	7.65
MW-1	12/12/2002	2,200	130	14	120	310	NA	46	NA	NA	NA	NA	21.70	14.20	7.50
MW-1	02/26/2003	580	30	2.9	25	48	NA	27	NA	NA	NA	NA	21.70	13.57	8.13
MW-1	04/15/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.70	13.67	8.03
MW-1	06/13/2003	440	18	6.1	33	88	NA	24	NA	NA	NA	NA	21.70	13.85	7.85
MW-1	09/26/2003	54	3.8	0.51	4.7	7.5	NA	11	NA	NA	NA	NA	21.70	14.63	7.07
MW-1	11/24/2003	120	5.6	0.87	8.4	20	NA	17	NA	NA	NA	NA	21.70	14.86	6.84
MW-1	03/01/2004	350	20	3.8	38	100	NA	18	NA	NA	NA	NA	21.70	12.85	8.85
MW-1	06/15/2004	100	1.8	<0.50	2.6	6.1	NA	15	NA	NA	NA	NA	21.70	14.27	7.43
MW-1	09/16/2004	200	20	0.75	7.8	16	NA	27	<2.0	<2.0	<2.0	<5.0	21.70	14.60	7.10

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA

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MW-2	12/17/1998	<5,000	<50	<50	<50	<50	11,000	NA	NA	NA	NA	NA	19.61	12.07	7.54
MW-2	03/09/1999	<250	5.20	<2.50	<2.50	<2.50	9,870	NA	NA	NA	NA	NA	19.61	11.46	8.15
MW-2	06/16/1999	<50.0	0.569	<0.500	<0.500	<0.500	3,440	NA	NA	NA	NA	NA	19.61	12.26	7.35
MW-2	09/29/1999	58.6	2.51	0.978	<0.500	<0.500	3,930	NA	NA	NA	NA	NA	19.61	12.51	7.10
MW-2	12/22/1999	<2,000	50.4	<20.0	<20.0	<20.0	15,000	NA	NA	NA	NA	NA	19.61	13.40	6.21
MW-2	03/21/2000	<5,000	94.7	<50.0	<50.0	<50.0	13,900	NA	NA	NA	NA	NA	19.61	10.36	9.25
MW-2	06/20/2000	101	5.95	<0.500	<0.500	0.552	7,670	NA	NA	NA	NA	NA	19.61	11.12	8.49
MW-2	09/21/2000	<2,000	<20.0	<20.0	<20.0	<20.0	4,460	NA	NA	NA	NA	NA	19.61	11.95	7.66
MW-2	11/30/2000	81.1	4.46	0.924	0.841	3.23	3,450	NA	NA	NA	NA	NA	19.61	12.48	7.13
MW-2	03/06/2001	<500	183	<5.00	<5.00	<5.00	14,000	NA	NA	NA	NA	NA	19.61	11.10	8.51
MW-2	06/28/2001	<1,000	<10	<10	<10	<10	NA	4,200	NA	NA	NA	NA	19.61	12.40	7.21
MW-2	09/12/2001	<2,000	120	<20	<20	<20	NA	17,000	NA	NA	NA	NA	19.61	12.45	7.16
MW-2	12/12/2001	<1,000	<10	<10	<10	<10	NA	3,000	NA	NA	NA	NA	19.61	12.14	7.47
MW-2	03/08/2002	<250	<2.5	<2.5	<2.5	<2.5	NA	1,100	NA	NA	NA	NA	19.61	11.68	7.93
MW-2	06/06/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	2,000	NA	NA	NA	NA	19.61	11.95	7.66
MW-2	09/09/2002	<200	<2.0	<2.0	<2.0	<2.0	NA	740	NA	NA	NA	NA	19.62	12.38	7.24
MW-2	12/12/2002	<200	<2.0	<2.0	<2.0	<2.0	NA	1,000	NA	NA	NA	NA	19.62	12.40	7.22
MW-2	02/26/2003	<500	<5.0	<5.0	<5.0	<5.0	NA	1,600	NA	NA	NA	NA	19.62	12.69	6.93
MW-2	04/15/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.62	12.81	6.81
MW-2	06/13/2003	<500	<5.0	<5.0	<5.0	<10	NA	790	NA	NA	NA	NA	19.62	12.65	6.97
MW-2	09/26/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	250	NA	NA	NA	NA	18.20	12.95	5.25
MW-2	11/24/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	87	NA	NA	NA	NA	18.20	12.89	5.31
MW-2	03/01/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	35	NA	NA	NA	NA	18.20	10.08	8.12
MW-2	06/15/2004	66 b	<0.50	<0.50	<0.50	<1.0	NA	110	NA	NA	NA	NA	18.20	12.85	5.35
MW-2	09/16/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	26	<2.0	<2.0	<2.0	<5.0	18.20	12.00	6.20

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	12/17/1998	30,000	890	110	2,100	4,300	42,000	43,000	NA	NA	NA	NA	19.05	11.65	7.40
MW-3	03/09/1999	22,700	536	<200	1,030	1,510	35,400	38,500	NA	NA	NA	NA	19.05	11.03	8.02
MW-3	06/16/1999	19,300	625	129	805	1,210	42,400	51,600	NA	NA	NA	NA	19.05	11.89	7.16
MW-3	09/29/1999	20,200	727	155	1,000	1,180	84,100	136,000a	NA	NA	NA	NA	19.05	12.35	6.70
MW-3	12/22/1999	44,500	767	64.4	1,810	2,090	191,000	186,000a	NA	NA	NA	NA	19.05	13.45	5.60
MW-3	03/21/2000	<25,000	466	<250	727	2,280	126,000	155,000	NA	NA	NA	NA	19.05	10.00	9.05
MW-3	06/20/2000	16,200	1,140	98.8	1,140	1,410	579,000	376,000a	NA	NA	NA	NA	19.05	11.15	7.90
MW-3	09/21/2000	<50,000	712	<500	520	795	293,000	298,000	NA	NA	NA	NA	19.05	11.58	7.47
MW-3	11/30/2000	18,000	1,050	124	1,120	2,010	543,000a	403,000a	NA	NA	NA	NA	19.05	12.10	6.95
MW-3	03/06/2001	19,900	1,290	115	1,450	1,760	706,000	149,000	NA	NA	NA	NA	19.05	11.00	8.05
MW-3	06/28/2001	<50,000	1,200	<250	1,100	1,300	NA	610,000	NA	NA	NA	NA	19.05	11.96	7.09
MW-3	09/12/2001	<20,000	430	<200	230	480	NA	390,000	NA	NA	NA	NA	19.05	12.05	7.00
MW-3	10/23/2001	11,000	350	<100	210	440	NA	290,000	NA	NA	NA	NA	19.05	12.62	6.43
MW-3	12/12/2001	<20,000	280	<200	<200	<200	NA	160,000	NA	NA	NA	NA	19.05	11.83	7.22
MW-3	03/08/2002	<20,000	270	<200	<200	<200	NA	340,000	NA	NA	NA	NA	19.05	11.26	7.79
MW-3	06/06/2002	<50,000	290	<250	<250	<250	NA	290,000	NA	NA	NA	NA	19.05	11.50	7.55
MW-3	09/09/2002	<20,000	<200	<200	<200	<200	NA	230,000	NA	NA	NA	NA	19.06	11.92	7.14
MW-3	12/12/2002	<50,000	<200	<200	<200	<500	NA	190,000	NA	NA	NA	NA	19.06	10.95	8.11
MW-3	02/26/2003	<25,000	<250	<250	<250	<250	NA	210,000	NA	NA	NA	NA	19.06	15.01	4.05
MW-3	04/15/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.06	15.12	3.94
MW-3	06/13/2003	<25,000	<250	<250	<250	<500	NA	27,000	NA	NA	NA	NA	19.06	15.25	3.81
MW-3	09/26/2003	<10,000	<100	<100	<100	<200	NA	15,000	NA	NA	NA	NA	18.08	16.65 c	NA
MW-3	11/24/2003	<10,000	<100	<100	<100	<200	NA	9,900	NA	NA	NA	NA	18.08	15.13	2.95
MW-3	03/01/2004	<10,000	<100	<100	<100	<200	NA	8,000	NA	NA	NA	NA	18.08	9.97	8.11
MW-3	06/15/2004	<10,000	<100	<100	<100	<200	NA	6,900	NA	NA	NA	NA	18.08	15.05	3.03
MW-3	09/16/2004	<500	<5.0	<5.0	<5.0	<10	NA	1,000	<20	<20	<20	75	18.08	14.70	3.38

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-4	05/13/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.64	NA
MW-4	05/20/2002	<1,000	<10	<10	<10	<10	NA	4,600	NA	NA	NA	NA	NA	10.64	NA
MW-4	06/06/2002	<1,000	<10	<10	<10	<10	NA	4,800	NA	NA	NA	NA	NA	10.61	NA
MW-4	09/09/2002	Unable to sample		NA	NA	NA	NA	NA	NA	NA	NA	NA	18.03	11.07	6.96
MW-4	09/18/2002	<250	<2.5	<2.5	<2.5	<2.5	NA	1,000	NA	NA	NA	NA	18.03	11.15	6.88
MW-4	12/12/2002	<100	<1.0	<1.0	<1.0	<1.0	NA	370	NA	NA	NA	NA	18.03	11.13	6.90
MW-4	02/26/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	18.03	10.61	7.42
MW-4	04/15/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.03	10.73	7.30
MW-4	06/13/2003	180 b	<0.50	110	<0.50	<1.0	NA	2.3	NA	NA	NA	NA	18.03	10.88	7.15
MW-4	09/26/2003	<5,000	<50	<50	<50	<100	NA	13,000	NA	NA	NA	NA	18.03	11.58	6.45
MW-4	11/24/2003	<13,000	<130	<130	<130	<250	NA	11,000	NA	NA	NA	NA	18.03	11.78	6.25
MW-4	03/01/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	18.03	9.47	8.56
MW-4	06/15/2004	<500	<5.0	<5.0	<5.0	<10	NA	630	NA	NA	NA	NA	18.03	11.38	6.65
MW-4	09/16/2004	<100	<1.0	12	<1.0	<2.0	NA	280	<4.0	<4.0	<4.0	280	18.03	11.80	6.23

MW-5	05/13/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.40	NA
MW-5	05/20/2002	<2,500	<25	<25	<25	<25	NA	17,000	NA	NA	NA	NA	NA	10.41	NA
MW-5	06/06/2002	<5,000	<50	<50	<50	<50	NA	15,000	NA	NA	NA	NA	NA	10.36	NA
MW-5	09/09/2002	Unable to sample		NA	NA	NA	NA	NA	NA	NA	NA	NA	17.78	10.82	6.96
MW-5	09/18/2002	<2,500	<25	<25	<25	<25	NA	16,000	NA	NA	NA	NA	17.78	10.81	6.97
MW-5	12/12/2002	<2,500	<25	<25	<25	<25	NA	13,000	NA	NA	NA	NA	17.78	10.83	6.95
MW-5	02/26/2003	<2,000	<20	<20	<20	<20	NA	7,500	NA	NA	NA	NA	17.78	10.57	7.21
MW-5	04/15/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17.78	10.69	7.09
MW-5	06/13/2003	<2,500	<25	<25	<25	<50	NA	4,400	NA	NA	NA	NA	17.78	10.82	6.96
MW-5	09/26/2003	<2,500	<25	<25	<25	<50	NA	4,700	NA	NA	NA	NA	17.78	11.49	6.29

WELL CONCENTRATIONS
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MW-5	11/24/2003	<10,000	<100	<100	<100	<200	NA	7,100	NA	NA	NA	NA	17.78	11.70	6.08
MW-5	03/01/2004	<2,000	<20	<20	<20	<40	NA	2,800	NA	NA	NA	NA	17.78	9.68	8.10
MW-5	06/15/2004	<2,000	<20	<20	<20	<40	NA	2,100	NA	NA	NA	NA	17.78	11.28	6.50
MW-5	09/16/2004	<2,000	<20	<20	<20	<40	NA	2,200	<80	<80	<80	2,800	17.78	11.62	6.16
MW-6	03/28/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	18.10	NA	NA
MW-6	04/07/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.10	13.80	4.30
MW-6	04/15/2003	14,000	<250	<250	<250	<500	NA	41,000	NA	NA	NA	NA	18.10	15.05	3.05
MW-6	06/13/2003	<10,000	<100	<100	<100	<200	NA	27,000	NA	NA	NA	NA	18.10	14.42	3.68
MW-6	09/26/2003	<5,000	<50	<50	<50	<100	NA	11,000	NA	NA	NA	NA	18.05	18.35 c	NA
MW-6	11/24/2003	<10,000	<100	<100	<100	<200	NA	5,000	NA	NA	NA	NA	18.05	14.68	3.37
MW-6	03/01/2004	<1,000	<10	<10	<10	<20	NA	2,500	NA	NA	NA	NA	18.05	9.84	8.21
MW-6	06/15/2004	<1,000	<10	<10	<10	<20	NA	2,800	NA	NA	NA	NA	18.05	14.82	3.23
MW-6	09/16/2004	<1,000	<10	<10	<10	<20	NA	830	<40	<40	<40	610	18.05	14.20	3.85
MW-7	03/28/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	19.16	NA	NA
MW-7	04/07/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.16	13.85	5.31
MW-7	04/15/2003	6,000	<100	<100	<100	<200	NA	19,000	NA	NA	NA	NA	19.16	13.95	5.21
MW-7	06/13/2003	<5,000	<50	<50	<50	<100	NA	5,700	NA	NA	NA	NA	19.16	13.92	5.24
MW-7	09/26/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	110	NA	NA	NA	NA	19.13	13.85	5.28
MW-7	11/24/2003	<50	<0.50	0.59	<0.50	1.7	NA	7.6	NA	NA	NA	NA	19.13	13.99	5.14
MW-7	03/01/2004	67 b	<0.50	<0.50	<0.50	<1.0	NA	120	NA	NA	NA	NA	19.13	10.85	8.28
MW-7	06/15/2004	120 b	<0.50	<0.50	<0.50	<1.0	NA	89	NA	NA	NA	NA	19.13	13.27	5.86
MW-7	09/16/2004	<500	<5.0	<5.0	<5.0	<10	NA	130	<20	<20	<20	4,700	19.13	12.83	6.30
MW-8	03/28/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	18.72	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-8	04/07/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.72	14.13	4.59
MW-8	04/15/2003	890	29	22	15	71	NA	430	NA	NA	NA	NA	18.72	14.10	4.62
MW-8	06/13/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.72	13.94	4.78
MW-8	09/26/2003	<250	55	51	33	140	NA	330	NA	NA	NA	NA	18.71	14.21	4.50
MW-8	11/24/2003	<5,000	<50	<50	<50	<100	NA	5,600	NA	NA	NA	NA	18.71	14.16	4.55
MW-8	03/01/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	12	NA	NA	NA	NA	18.71	10.34	8.37
MW-8	06/15/2004	2,800	170	240	140	560	NA	440	NA	NA	NA	NA	18.71	13.88	4.83
MW-8	09/16/2004	2,500	180	200	120	490	NA	480	<10	<10	<10	260	18.71	13.92	4.79
MW-9	03/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.78	11.19	7.59
MW-9	04/15/2003	420	<2.5	<2.5	<2.5	6.3	NA	37	NA	NA	NA	NA	18.78	11.24	7.54
MW-9	06/13/2003	290 b	<0.50	<0.50	<0.50	2.6	NA	34	NA	NA	NA	NA	18.78	11.39	7.39
MW-9	09/26/2003	540 b	<0.50	<0.50	<0.50	9.2	NA	21	NA	NA	NA	NA	18.78	12.12	6.66
MW-9	11/24/2003	650 d	<0.50	<0.50	<0.50	6.3	NA	14	NA	NA	NA	NA	18.78	12.30	6.48
MW-9	03/01/2004	230 d	<0.50	<0.50	<0.50	1.7	NA	7.7	NA	NA	NA	NA	18.78	10.45	8.33
MW-9	06/15/2004	280	<0.50	<0.50	<0.50	1.9	NA	8.3	NA	NA	NA	NA	18.78	11.88	6.90
MW-9	09/16/2004	260	<0.50	<0.50	<0.50	1.5	NA	3.9	<2.0	<2.0	<2.0	<5.0	18.78	12.26	6.52

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 28, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 28, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B

ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B

TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

NA = Not applicable

Notes:

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

b = Hydrocarbon reported does not match the laboratory standard.

c = Measurement is depth to top of pump; unable to reach water with sounder.

d = Sample contains discrete peaks in addition to gasoline.

Wells MW-1, MW-2, and MW-3 surveyed December 9, 1998 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells MW-6 through MW-9 surveyed April 10, 2003 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells MW-2, MW-3, MW-6, MW-7, and MW-8 surveyed September 23, 2003 by Virgil Chavez Land Surveying of Vallejo, CA.

Blaine Tech Services, Inc.

October 01, 2004

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 040916-MN1
Project: 98995750
Site: 610 Market Street, Oakland

Dear Mr. Gearhart,

Attached is our report for your samples received on 09/17/2004 12:30

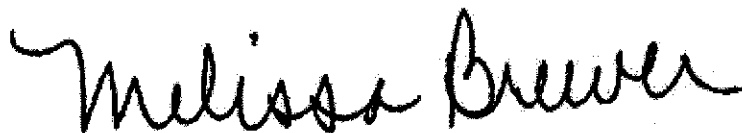
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 11/01/2004 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
Project Manager

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: 040916-MN1

98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	09/16/2004 10:49	Water	1
MW-2	09/16/2004 11:54	Water	2
MW-3	09/16/2004 11:40	Water	3
MW-4	09/16/2004 10:00	Water	4
MW-5	09/16/2004 10:25	Water	5
MW-6	09/16/2004 11:34	Water	6
MW-7	09/16/2004 12:01	Water	7
MW-8	09/16/2004 12:25	Water	8
MW-9	09/16/2004 11:20	Water	9

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

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

Project: 040916-MN1

98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-1	Lab ID:	2004-09-0564 - 1
Sampled:	09/16/2004 10:49	Extracted:	9/28/2004 13:28
Matrix:	Water	QC Batch#:	2004/09/28-1B 64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	200	50	ug/L	1.00	09/28/2004 13:28	
Benzene	20	0.50	ug/L	1.00	09/28/2004 13:28	
Toluene	0.75	0.50	ug/L	1.00	09/28/2004 13:28	
Ethylbenzene	7.8	0.50	ug/L	1.00	09/28/2004 13:28	
Total xylenes	16	1.0	ug/L	1.00	09/28/2004 13:28	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	09/28/2004 13:28	
Methyl tert-butyl ether (MTBE)	27	0.50	ug/L	1.00	09/28/2004 13:28	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	09/28/2004 13:28	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	09/28/2004 13:28	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	09/28/2004 13:28	
Surrogate(s)						
1,2-Dichloroethane-d4	106.0	76-130	%	1.00	09/28/2004 13:28	
Toluene-d8	105.8	78-115	%	1.00	09/28/2004 13:28	

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

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Project: 040916-MN1

98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-2	Lab ID: 2004-09-0564 - 2
Sampled: 09/16/2004 11:54	Extracted: 9/28/2004 13:50
Matrix: Water	QC Batch#: 2004/09/28-1B.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	09/28/2004 13:50	
Benzene	ND	0.50	ug/L	1.00	09/28/2004 13:50	
Toluene	ND	0.50	ug/L	1.00	09/28/2004 13:50	
Ethylbenzene	ND	0.50	ug/L	1.00	09/28/2004 13:50	
Total xylenes	ND	1.0	ug/L	1.00	09/28/2004 13:50	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	09/28/2004 13:50	
Methyl tert-butyl ether (MTBE)	26	0.50	ug/L	1.00	09/28/2004 13:50	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	09/28/2004 13:50	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	09/28/2004 13:50	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	09/28/2004 13:50	
Surrogate(s)						
1,2-Dichloroethane-d4	101.1	76-130	%	1.00	09/28/2004 13:50	
Toluene-d8	106.0	78-115	%	1.00	09/28/2004 13:50	

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

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Project: 040916-MN1

98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-3	Lab ID: 2004-09-0564 - 3
Sampled: 09/16/2004 11:40	Extracted: 9/29/2004 19:50
Matrix: Water	QC Batch#: 2004/09/29-2A.66
Analysis Flag: 0 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	500	ug/L	10.00	09/29/2004 19:50	
Benzene	ND	5.0	ug/L	10.00	09/29/2004 19:50	
Toluene	ND	5.0	ug/L	10.00	09/29/2004 19:50	
Ethylbenzene	ND	5.0	ug/L	10.00	09/29/2004 19:50	
Total xylenes	ND	10	ug/L	10.00	09/29/2004 19:50	
tert-Butyl alcohol (TBA)	75	50	ug/L	10.00	09/29/2004 19:50	
Methyl tert-butyl ether (MTBE)	1000	5.0	ug/L	10.00	09/29/2004 19:50	
Di-isopropyl Ether (DIPE)	ND	20	ug/L	10.00	09/29/2004 19:50	
Ethyl tert-butyl ether (ETBE)	ND	20	ug/L	10.00	09/29/2004 19:50	
tert-Amyl methyl ether (TAME)	ND	20	ug/L	10.00	09/29/2004 19:50	
Surrogate(s)						
1,2-Dichloroethane-d4	101.6	76-130	%	10.00	09/29/2004 19:50	
Toluene-d8	95.0	78-115	%	10.00	09/29/2004 19:50	

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

Blaine Tech Services, Inc.

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1680 Rogers Avenue
San Jose, CA 95112-1105
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Project: 040916-MN1
98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-4	Lab ID: 2004-09-0564 - 4
Sampled: 09/16/2004 10:00	Extracted: 9/29/2004 20:12
Matrix: Water	QC Batch#: 2004/09/29-2A.66
Analysis Flag: o.gs (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	100	ug/L	2.00	09/29/2004 20:12	
Benzene	ND	1.0	ug/L	2.00	09/29/2004 20:12	
Toluene	12	1.0	ug/L	2.00	09/29/2004 20:12	
Ethylbenzene	ND	1.0	ug/L	2.00	09/29/2004 20:12	
Total xylenes	ND	2.0	ug/L	2.00	09/29/2004 20:12	
tert-Butyl alcohol (TBA)	280	10	ug/L	2.00	09/29/2004 20:12	
Methyl tert-butyl ether (MTBE)	280	1.0	ug/L	2.00	09/29/2004 20:12	
Di-isopropyl Ether (DIPE)	ND	4.0	ug/L	2.00	09/29/2004 20:12	
Ethyl tert-butyl ether (ETBE)	ND	4.0	ug/L	2.00	09/29/2004 20:12	
tert-Amyl methyl ether (TAME)	ND	4.0	ug/L	2.00	09/29/2004 20:12	
Surrogate(s)						
1,2-Dichloroethane-d4	111.3	76-130	%	2.00	09/29/2004 20:12	
Toluene-d8	100.3	78-115	%	2.00	09/29/2004 20:12	

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

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Project: 040916-MN1

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Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-5	Lab ID:	2004-09-0564 - 5
Sampled:	09/16/2004 10:25	Extracted:	9/28/2004 14:57
Matrix:	Water	QC Batch#:	2004/09/28-1B.64
Analysis Flag: 0 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	2000	ug/L	40.00	09/28/2004 14:57	
Benzene	ND	20	ug/L	40.00	09/28/2004 14:57	
Toluene	ND	20	ug/L	40.00	09/28/2004 14:57	
Ethylbenzene	ND	20	ug/L	40.00	09/28/2004 14:57	
Total xylenes	ND	40	ug/L	40.00	09/28/2004 14:57	
tert-Butyl alcohol (TBA)	2800	200	ug/L	40.00	09/28/2004 14:57	
Methyl tert-butyl ether (MTBE)	2200	20	ug/L	40.00	09/28/2004 14:57	
Di-isopropyl Ether (DIPE)	ND	80	ug/L	40.00	09/28/2004 14:57	
Ethyl tert-butyl ether (ETBE)	ND	80	ug/L	40.00	09/28/2004 14:57	
tert-Amyl methyl ether (TAME)	ND	80	ug/L	40.00	09/28/2004 14:57	
Surrogate(s)						
1,2-Dichloroethane-d4	100.4	76-130	%	40.00	09/28/2004 14:57	
Toluene-d8	106.6	78-115	%	40.00	09/28/2004 14:57	

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

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Project: 040916-MN1

98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-6	Lab ID:	2004-09-0564 - 6
Sampled:	09/16/2004 11:34	Extracted:	9/29/2004 20:35
Matrix:	Water	QC Batch#:	2004/09/29-2A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1000	ug/L	20.00	09/29/2004 20:35	
Benzene	ND	10	ug/L	20.00	09/29/2004 20:35	
Toluene	ND	10	ug/L	20.00	09/29/2004 20:35	
Ethylbenzene	ND	10	ug/L	20.00	09/29/2004 20:35	
Total xylenes	ND	20	ug/L	20.00	09/29/2004 20:35	
tert-Butyl alcohol (TBA)	610	100	ug/L	20.00	09/29/2004 20:35	
Methyl tert-butyl ether (MTBE)	830	10	ug/L	20.00	09/29/2004 20:35	
Di-isopropyl Ether (DIPE)	ND	40	ug/L	20.00	09/29/2004 20:35	
Ethyl tert-butyl ether (ETBE)	ND	40	ug/L	20.00	09/29/2004 20:35	
tert-Amyl methyl ether (TAME)	ND	40	ug/L	20.00	09/29/2004 20:35	
Surrogate(s)						
1,2-Dichloroethane-d4	105.5	76-130	%	20.00	09/29/2004 20:35	
Toluene-d8	98.4	78-115	%	20.00	09/29/2004 20:35	

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: 040916-MN1
98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-7	Lab ID: 2004-09-0564 - 7
Sampled: 09/16/2004 12:01	Extracted: 9/30/2004 14:31
Matrix: Water	QC Batch#: 2004/09/30-1D.68
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	500	ug/L	10.00	09/30/2004 14:31	
Benzene	ND	5.0	ug/L	10.00	09/30/2004 14:31	
Toluene	ND	5.0	ug/L	10.00	09/30/2004 14:31	
Ethylbenzene	ND	5.0	ug/L	10.00	09/30/2004 14:31	
Total xylenes	ND	10	ug/L	10.00	09/30/2004 14:31	
tert-Butyl alcohol (TBA)	4700	50	ug/L	10.00	09/30/2004 14:31	
Methyl tert-butyl ether (MTBE)	130	5.0	ug/L	10.00	09/30/2004 14:31	
Di-isopropyl Ether (DIPE)	ND	20	ug/L	10.00	09/30/2004 14:31	
Ethyl tert-butyl ether (ETBE)	ND	20	ug/L	10.00	09/30/2004 14:31	
tert-Amyl methyl ether (TAME)	ND	20	ug/L	10.00	09/30/2004 14:31	
Surrogate(s)						
1,2-Dichloroethane-d4	119.7	76-130	%	10.00	09/30/2004 14:31	
Toluene-d8	98.8	78-115	%	10.00	09/30/2004 14:31	

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

Blaine Tech Services, Inc.

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1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 040916-MN1
98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-8	Lab ID:	2004-09-0564 - 8
Sampled:	09/16/2004 12:25	Extracted:	9/29/2004 21:24
Matrix:	Water	QC Batch#:	2004/09/29-2A.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	2500	250	ug/L	5.00	09/29/2004 21:24	
Benzene	180	2.5	ug/L	5.00	09/29/2004 21:24	
Toluene	200	2.5	ug/L	5.00	09/29/2004 21:24	
Ethylbenzene	120	2.5	ug/L	5.00	09/29/2004 21:24	
Total xylenes	490	5.0	ug/L	5.00	09/29/2004 21:24	
tert-Butyl alcohol (TBA)	260	25	ug/L	5.00	09/29/2004 21:24	
Methyl tert-butyl ether (MTBE)	480	2.5	ug/L	5.00	09/29/2004 21:24	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	5.00	09/29/2004 21:24	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	09/29/2004 21:24	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	09/29/2004 21:24	
Surrogate(s)						
1,2-Dichloroethane-d4	119.7	76-130	%	5.00	09/29/2004 21:24	
Toluene-d8	98.3	78-115	%	5.00	09/29/2004 21:24	

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: 040916-MN1
98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-9	Lab ID:	2004-09-0564 - 9
Sampled:	09/16/2004 11:20	Extracted:	9/29/2004 21:43
Matrix:	Water	QC Batch#:	2004/09/29-2A.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	260	50	ug/L	1.00	09/29/2004 21:43	
Benzene	ND	0.50	ug/L	1.00	09/29/2004 21:43	
Toluene	ND	0.50	ug/L	1.00	09/29/2004 21:43	
Ethylbenzene	ND	0.50	ug/L	1.00	09/29/2004 21:43	
Total xylenes	1.5	1.0	ug/L	1.00	09/29/2004 21:43	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	09/29/2004 21:43	
Methyl tert-butyl ether (MTBE)	3.9	0.50	ug/L	1.00	09/29/2004 21:43	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	09/29/2004 21:43	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	09/29/2004 21:43	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	09/29/2004 21:43	
Surrogate(s)						
1,2-Dichloroethane-d4	117.9	76-130	%	1.00	09/29/2004 21:43	
Toluene-d8	87.5	78-115	%	1.00	09/29/2004 21:43	

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: 040916-MN1
98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Water		QC Batch # 2004/09/28-1B.64
MB: 2004/09/28-1B.64-013			Date Extracted: 09/28/2004 07:13

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	09/28/2004 07:13	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/28/2004 07:13	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/28/2004 07:13	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	09/28/2004 07:13	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	09/28/2004 07:13	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	09/28/2004 07:13	
Benzene	ND	0.5	ug/L	09/28/2004 07:13	
Toluene	ND	0.5	ug/L	09/28/2004 07:13	
Ethylbenzene	ND	0.5	ug/L	09/28/2004 07:13	
Total xylenes	ND	1.0	ug/L	09/28/2004 07:13	
Surrogates(s)					
1,2-Dichloroethane-d4	98.8	76-130	%	09/28/2004 07:13	
Toluene-d8	104.0	78-115	%	09/28/2004 07:13	

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: 040916-MN1
98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank		Water	QC Batch # 2004/09/29-2A.66
MB: 2004/09/29-2A.66-022			Date Extracted: 09/29/2004 19:22

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	09/29/2004 19:22	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/29/2004 19:22	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/29/2004 19:22	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	09/29/2004 19:22	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	09/29/2004 19:22	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	09/29/2004 19:22	
Benzene	ND	0.5	ug/L	09/29/2004 19:22	
Toluene	ND	0.5	ug/L	09/29/2004 19:22	
Ethylbenzene	ND	0.5	ug/L	09/29/2004 19:22	
Total xylenes	ND	1.0	ug/L	09/29/2004 19:22	
Surrogates(s)					
1,2-Dichloroethane-d4	101.0	76-130	%	09/29/2004 19:22	
Toluene-d8	97.4	78-115	%	09/29/2004 19:22	

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: 040916-MN1
98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2004/09/29-2A.68

MB: 2004/09/29-2A.68-015

Date Extracted: 09/29/2004 20:15

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	09/29/2004 20:15	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/29/2004 20:15	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/29/2004 20:15	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	09/29/2004 20:15	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	09/29/2004 20:15	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	09/29/2004 20:15	
Benzene	ND	0.5	ug/L	09/29/2004 20:15	
Toluene	ND	0.5	ug/L	09/29/2004 20:15	
Ethylbenzene	ND	0.5	ug/L	09/29/2004 20:15	
Total xylenes	ND	1.0	ug/L	09/29/2004 20:15	
Surrogates(s)					
1,2-Dichloroethane-d4	108.4	76-130	%	09/29/2004 20:15	
Toluene-d8	98.6	78-115	%	09/29/2004 20:15	

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: 040916-MN1
98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2004/09/30-1D:68
MB: 2004/09/30-1D:68-058		Date Extracted: 09/30/2004 06:58

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	09/30/2004 06:58	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/30/2004 06:58	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/30/2004 06:58	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	09/30/2004 06:58	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	09/30/2004 06:58	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	09/30/2004 06:58	
Benzene	ND	0.5	ug/L	09/30/2004 06:58	
Toluene	ND	0.5	ug/L	09/30/2004 06:58	
Ethylbenzene	ND	0.5	ug/L	09/30/2004 06:58	
Total xylenes	ND	1.0	ug/L	09/30/2004 06:58	
Surrogates(s)					
1,2-Dichloroethane-d4	106.0	76-130	%	09/30/2004 06:58	
Toluene-d8	104.0	78-115	%	09/30/2004 06:58	

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: 040916-MN1
98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Batch QC Report					
Prep(s): 5030B			Test(s): 8260B		
Laboratory Control Spike		Water		QC Batch # 2004/09/28-1B.64	
LCS	2004/09/28-1B.64-028	Extracted:	09/28/2004	Analyzed:	09/28/2004 06:28
LCSD	2004/09/28-1B.64-051	Extracted:	09/28/2004	Analyzed:	09/28/2004 06:51

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	25.2	25.2	25	100.8	100.8	0.0	65-165	20		
Benzene	24.4	25.4	25	97.6	101.6	4.0	69-129	20		
Toluene	25.6	26.2	25	102.4	104.8	2.3	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	455	465	500	91.0	93.0		76-130			
Toluene-d8	518	528	500	103.6	105.6		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: 040916-MN1

98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
Laboratory Control Spike				Water			QC Batch # 2004/09/29-2A.66			
LCS	2004/09/29-2A.66-037			Extracted: 09/29/2004			Analyzed: 09/29/2004 18:37			
LCSD	2004/09/29-2A.66-059			Extracted: 09/29/2004			Analyzed: 09/29/2004 18:59			
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	29.0	31.9	25	116.0	127.6	9.5	65-165	20		
Benzene	27.0	31.5	25	108.0	126.0	15.4	69-129	20		
Toluene	25.6	28.4	25	102.4	113.6	10.4	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	465	477	500	93.0	95.4		76-130			
Toluene-d8	487	490	500	97.4	98.0		78-115			

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

10/01/2004 15:10

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: 040916-MN1
98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Batch QC Report					
Prep(s): 5030B			Test(s): 8260B		
Laboratory Control Spike		Water		QC Batch # 2004/09/29-2A.68	
LCS	2004/09/29-2A.68-037	Extracted:	09/29/2004	Analyzed:	09/29/2004 19:37
LCSD	2004/09/29-2A.68-056	Extracted:	09/29/2004	Analyzed:	09/29/2004 19:56

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	30.5	29.9	25	122.0	119.6	2.0	65-165	20		
Benzene	29.8	28.1	25	119.2	112.4	5.9	69-129	20		
Toluene	28.2	25.6	25	112.8	102.4	9.7	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	531	518	500	106.2	103.6		76-130			
Toluene-d8	515	494	500	103.0	98.8		78-115			

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: 040916-MN1
98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
Laboratory Control Spike				Water			QC Batch # 2004/09/30-1D.68			
LCS	2004/09/30-1D.68-020			Extracted: 09/30/2004			Analyzed: 09/30/2004 06:20			
LCSD	2004/09/30-1D.68-039			Extracted: 09/30/2004			Analyzed: 09/30/2004 06:39			
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	28.0	30.3	25	112.0	121.2	7.9	65-165	20		
Benzene	29.0	29.9	25	116.0	119.6	3.1	69-129	20		
Toluene	27.8	29.0	25	111.2	116.0	4.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	448	444	500	89.6	88.8		76-130			
Toluene-d8	486	492	500	97.2	98.4		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: 040916-MN1

98995750

Received: 09/17/2004 12:30

Site: 610 Market Street, Oakland

Legend and Notes

Sample Comment

Lab ID: 2004-09-0564 -4

gs-Siloxane peaks were found in the sample which are not believed to be gasoline related. If they were to be quantified as gasoline, concentration would be 130 ug/L.

Analysis Flag

o

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

And Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Karen Petryna

2004-09-0564

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 0

SAP or CRMT NUMBER (TS/CRMT)

88467

DATE: 9/16/04

PAGE: 1 of 1

Blaine Tech Services 1680 Rogers Avenue, San Jose, CA 95112 Leon Gearhart 408-573-0555 408-573-7771 lgearhart@blainetech.com		BTSS 610 Market Street, Oakland Annal Kraml 510-420-3335 Michael Almskata	T0600102121 ShellOaklandEDF@cambria-env.com	CONDUIT PROJECT NO: 070916-0000
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TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

REQUESTED ANALYSIS

GC/MS MTBE CONFIRMATION: HIGHEST HIGHEST BY BORING ALL

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

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

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (8) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)	TEMPERATURE ON RECEIPT °C	
		DATE	TIME														
	MW-1	9/16/04	1049	W	3	X	X			X							2
	MW-2		1159			X	X			X							
	MW-3		1140			X	X			X							
	MW-4		1050			X	X			X							
	MW-5		1025			X	X			X							
	MW-6		1134			X	X			X							
	MW-7		1201			X	X			X							
	MW-8		1225			X	X			X							
	MW-9	10	1120	W	6	X	X			X							

Requested by (Signature) <i>[Signature]</i>	Received by (Signature) <i>[Signature]</i> STL-SP	Date: 9/17/04	Time: 12:30
Requested by (Signature) <i>[Signature]</i> STL-SP	Received by (Signature) <i>[Signature]</i>	Date: 9/17/04	Time: 16:00

940 Samples (7/14/03) 9/2/04

WELL GAUGING DATA

Project # 040916-mwl Date 9/26/04 Client Shell

Site 610 ~~601~~ Market St Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	4					17.60	24.72	}	
MW-2	4					12.00	—		EXT
MW-3	4					14.70	—		EXT
MW-4	4					11.80	19.76		
MW-5	4					11.62	20.11		
MW-6	4					14.20	—		EXT
MW-7	4					12.83	—		EXT
MW-8	4					13.92	—		EXT
MW-9	4					12.26	19.81		✓

SHELL WELL MONITORING DATA SHEET

BTS #: 040916-MW1	Site: 98995750
Sampler: MDN	Date: 9/16/04
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 24.72	Depth to Water (DTW): 14.60
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.62	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Other: _____

$\frac{6.6 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = \frac{19.8}{\text{Calculated Volume}} \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1039	74.8 74.8	6.60	834	20	6.6	clear
1041	73.5	6.40	862	8	13.2	clear
1042	73.5	6.40	865	7	19.8	clear 21.40

Did well dewater? Yes No Gallons actually evacuated: 19.8

Sampling Date: 9/16/04 Sampling Time: 1049 Depth to Water: 16.60

Sample I.D.: MW-1 Laboratory: STL Other _____

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

EB I.D. (if applicable): @ _____ 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 #: 040960-MN1	Site: 98995750
Sampler: none	Date: 7/16/04
Well I.D.: MW-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): —	Depth to Water (DTW): 12.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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: _____
--	---	--

Turned System On (Gals.) X _____ = _____ Gals. 1 Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1150	72.1	6.68	1555	12	—	clear, odor

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: —	
Sampling Date: 7/16/04	Sampling Time: 1154	Depth to Water:
Sample I.D.: MW-2	Laboratory: <u>STL</u> Other _____	
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D Other: <u>OLY</u>		
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 #: 04916-MN1	Site: 98995750
Sampler: MON	Date: 9/16/04
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): —	Depth to Water (DTW): 14.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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: _____
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(Gals.) X <u>System 0-</u> = _____ Gals. Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² + 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² + 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² + 0.163														

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1137	72.9	6.74	1335	7	—	Clear

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: —	
Sampling Date: 9/16/04	Sampling Time: 1140	Depth to Water: —
Sample I.D.: MW-3	Laboratory: <u>STL</u> Other _____	
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D Other: <u>dx) S</u>		
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 #: 040916-MN1	Site: 98995750
Sampler: MON	Date: 9/26/04
Well I.D.: MW-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 20.11	Depth to Water (DTW): 11.62
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.31	

Purge Method: Bailer Water Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Other: _____

$\frac{5.5}{\text{Case Volume}} \times \frac{3}{\text{Specified Volumes}} = \frac{16.5}{\text{Calculated Volume}} \text{ Gals.}$	<table border="1"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1016	74.6	6.31	1079	72	5.5	clear, odor
1018	74.2	6.39	1090	110	11.0	Slightly cloudy odor
1019		Well	dewatered		DTW	17.21
1125	73.9	6.96	1038	7200	-	cloudy, odor

Did well dewater? Yes No Gallons actually evacuated: 11.0

Sampling Date: 9/16 Sampling Time: 1025 Depth to Water: 15.00 Traffic Well

Sample I.D.: MW-5 Laboratory: SFL Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: OH₂S

EB I.D. (if applicable): @ _____ 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 #: 040916 - mni	Site: 98995750
Sampler: rdn	Date: 9/16/04
Well I.D.: MW-6	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): —	Depth to Water (DTW): 14.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: ~~Bailer~~
~~Disposable Bailer~~
~~Positive Air Displacement~~
~~Electric Submersible~~

~~Water~~
~~Peristaltic~~
Extraction Pump
~~Other~~

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

Other: _____

	(Gals.) X	<u>System Running</u>	Gals.	
1 Case Volume	Specified Volumes	Calculated Volume		

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

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1130	73.3	7.01	903	7	—	clean

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Date: 9/16/04 Sampling Time: 1124 Depth to Water: —

Sample I.D.: MW-6 Laboratory: STL Other: _____

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

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 #: 040910-111	Site: 98975790
Sampler: <i>MDN</i>	Date: 9/16/04
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): —	Depth to Water (DTW): 12.83
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:	Bailer	Waterra	Sampling Method:	Bailer
	Disposable Bailer	Peristaltic		Disposable Bailer
	Positive Air Displacement	Extraction Pump		Extraction Port
	Electric Submersible	Other _____		Dedicated Tubing
			Other: _____	

(Gals.) X I Case Volume	<i>Turned System on</i>		Gals. Calculated Volume
	Specified Volumes	=	

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

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1158	71.6	7.10	1794		—	<i>Clear, odor</i>

Did well dewater?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated:	—
Sampling Date:	9/16/04	Sampling Time:	1201
Sample I.D.:	MW-7	Laboratory:	(STL) Other _____
Analyzed for:	PH-G (BTEX) MTBE TPH-D	Other:	<i>oxy S</i>
EB I.D. (if applicable):	@ _____	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	

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SHELL WELL MONITORING DATA SHEET

BTS #: <i>040916-mj1</i>	Site: <i>98995750</i>
Sampler: <i>man</i>	Date: <i>9/16/04</i>
Well I.D.: <i>MW-8</i>	Well Diameter: 2 3 <input checked="" type="checkbox"/> 6 8 <input type="checkbox"/>
Total Well Depth (TD):	Depth to Water (DTW): <i>13.92</i>
Depth to Free Product: _____	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> PVC _____ Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer _____ Waterra _____ Sampling Method: Bailer _____
 Disposable Bailer _____ Peristaltic _____ Disposable Bailer
 Positive Air Displacement _____ Extraction Pump _____ Extraction Port
 Electric Submersible _____ Other _____ Dedicated Tubing

Other: _____

<i>System 61 - Grab Sample</i> _____ (Gals.) X _____ = _____ Gals. I Case Volume Specified Volumes Calculated Volume	Well Diameter	Multiplier	Well Diameter	Multiplier
	1"	0.04	4"	0.65
	2"	0.16	6"	1.47
	3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <input checked="" type="checkbox"/> µS)	Turbidity (NTUs)	Gals. Removed	Observations
<i>1225</i>	<i>71.1</i>	<i>6.80</i>	<i>950</i>	<i>127</i>	<i>—</i>	<i>DRABE</i>

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: *9/16/04* Sampling Time: *1225* Depth to Water: _____

Sample I.D.: *MW-8* Laboratory: SFL Other: _____

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

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 #: <u>040916-MW1</u>	Site: <u>98995760</u>
Sampler: <u>MDN</u>	Date: <u>9/16/04</u>
Well I.D.: <u>MW-9</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): <u>19.81</u>	Depth to Water (DTW): <u>12.26</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>13.77</u>	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Other: _____

$\frac{5.0 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = \frac{15.0 \text{ Gals.}}{\text{Calculated Volume}}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1108	71.0	6.40	1539	47	5.0	<i>clear</i>
1109	69.7	6.37	1530	7200	10.0	<i>cloudy</i>
1110	69.9	6.35	1570	7200	15.0	<i>increased cloudiness 16.90</i>

Did well dewater? Yes NO Gallons actually evacuated: 15.0

Sampling Date: 9/16/04 Sampling Time: 1120 Depth to Water: 13.70

Sample I.D.: MW-9 Laboratory: STD Other _____

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

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