

R0173



Shell Oil Products US

August 18, 2004

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

Subject: Shell-branded Service Station
2120 Montana Street
Oakland, California

ACCEPTED FOR REVIEW
AUG 28 2004
ENVIRONMENTAL ENGINEERING

Dear Mr. Hwang:

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

August 18, 2004

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

Re: **Second Quarter 2004 Monitoring Report**
Shell-branded Service Station
2120 Montana Street
Oakland, California
Incident #98995740
Cambria Project #246-0733-002

Alameda County
AUG 20 2004
Environmental Services



Dear Mr. Hwang:

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. The site is located at the northwest corner of Montana Street and Fruitvale Avenue in Oakland, California (Figures 1 and 2).

REMEDIATION SUMMARY

Mobile Groundwater Extraction (GWE): As recommended in our August 15, 2001 *Agency Response*, Cambria began weekly GWE in August 2001 from wells MW-1 and TBW-N using a vacuum truck. Mobile GWE ended on March 5, 2003 due to construction of the fixed GWE system. As discussed below, weekly mobile GWE from wells MW-1 and TBW-N resumed on August 19, 2003 and stopped on January 6, 2004. The cumulative estimated mass of total petroleum hydrocarbons as gasoline (TPHg) and methyl tertiary butyl ether (MTBE) removed by mobile GWE at the site is 25.3 pounds and 8.13 pounds, respectively. Additionally, approximately 2.68 pounds of separate-phase hydrocarbons (SPH) have been removed at the site through manual bailing and GWE.

Fixed GWE System Installation: Our September 4, 2002 work plan proposed the installation of a fixed GWE system at the site. This work plan was approved in a September 19, 2002 Alameda County Health Care Services Agency letter. System construction began in early February 2003, and system start-up occurred on April 2, 2003.

Cambria
Environmental
Technology, Inc.

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

On July 23, 2003, Cambria observed SPH within the GWE system. The GWE system was not operating at that time and had not operated since July 18, 2003. Cambria measured approximately 2 feet of SPH in the GWE system's transfer tank. Cambria also measured approximately 0.15 feet of SPH in tank backfill well TBW-N and 2.25 feet in monitoring well MW-1. On August 8, 2003, a vacuum truck removed SPH from wells TBW-N and MW-1. Once the SPH was removed, the GWE system was cleaned, flushed, and rinsed. The SPH and groundwater mixture was off-hauled to the Martinez Refining Company in Martinez, California for disposal. Weekly mobile GWE (VacOps) resumed on August 19, 2003 to further address SPH. Table 1 summarizes the VacOps data. Weekly VacOps was stopped on January 6, 2004.



Cambria monitored SPH thickness prior to several VacOps events. SPH had not been present in backfill well TBW-N since December 8, 2003. However, 3.49 feet of SPH were measured in well MW-1 on that day. Blaine also measured no SPH in TBW-N and 0.07 feet of SPH in MW-1 during the quarterly sampling event on December 29, 2003.

In November 2003, Able Maintenance of Santa Rosa, California exposed the regular grade UST for inspection by the tank manufacturer (Xerxes Company). Xerxes Company found a small crack on the bottom of the tank. The crack was investigated, repaired with fiberglass resin, and then air tested for the City of Oakland Fire department by the Xerxes Company. After the Xerxes Company completed their air test, Able Maintenance called in a third-party tank tester to precision test the tank. Afford-a-Test completed that test, and the tank was certified as tight. Able has monitored the tank through Shell's Veeder-Root monitoring system since the repair, and it has passed the associated pressure tests.

SECOND 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 that 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: As discussed, Cambria started operation of the fixed GWE system on April 2, 2003, but has kept the system off since July 18, 2003 due to the presence of SPH. Cambria supplemented the GWE system with an oil-water separator (OWS) in March 2004. The system was restarted on April 21, 2004 to collect samples to verify discharge compliance. The system's effluent was not discharged, but was instead captured in a storage tank. The results of

this sampling event demonstrated compliance with the discharge permit. On May 25, 2004, following completion of a fuel system upgrade for this site, Cambria restarted the GWE system to operate continuously.

Table 2 summarizes system analytical data. Table 3 summarizes the field data and system operation and calculates mass removal. As of August 3, 2004, a total of 126,957 gallons of groundwater has been extracted. A total of 13.3 pounds of TPHg, 0.483 pounds of benzene, and 2.58 pounds of MTBE has been recovered.

Cambria conducted soil vapor extraction (SVE) from monitoring well MW-1 as interim remediation from July 26 through July 30, 2004.



ANTICIPATED THIRD QUARTER 2004 ACTIVITIES

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

Remedial Activities: Cambria will perform routine operation and maintenance of the GWE system. Operational data will be provided in the third quarter 2004 quarterly monitoring report.

Cambria will prepare an *Interim Remedial Action Report* to summarize SVE activities and data.

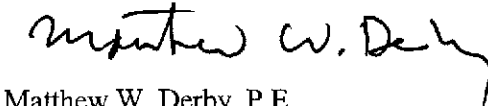
CLOSING

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



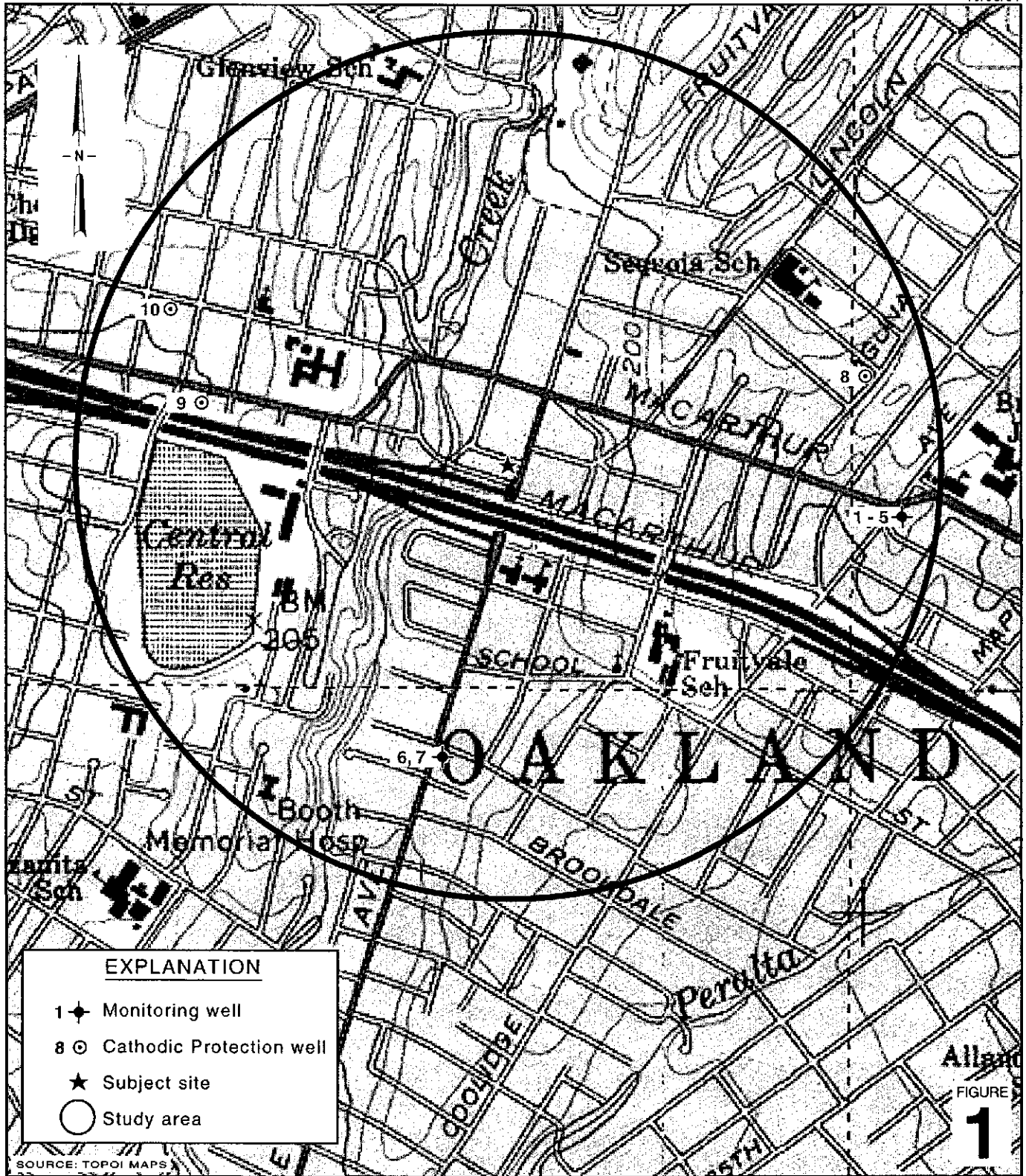
Figures: 1 - Vicinity/Area Well Survey Map
2 - Groundwater Elevation Contour Map

Tables: 1 - Groundwater Extraction – Mass Removal Data
2 - Groundwater Extraction – System Analytical Data
3 - 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

G:\Oakland 2120 Montana\Qm\2q04\2q04qm.doc



G:\OAKLAND\2120\MONTANA\FIGURES\VIC-WELL-SURVEY.A1

SOURCE: TOPOI MAPS

Alameda
FIGURE
1

0 1/6 1/3 1/2 1
SCALE : 1" = 1/6 MILE

Shell-branded Service Station
2120 Montana Street
Oakland, California
Incident #98995740



C A M B R I A

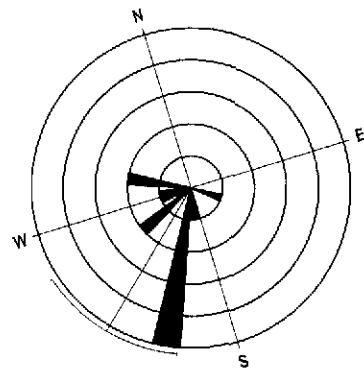
**Vicinity / Area Well
Survey Map**
(1/2-Mile Radius)

EXPLANATION

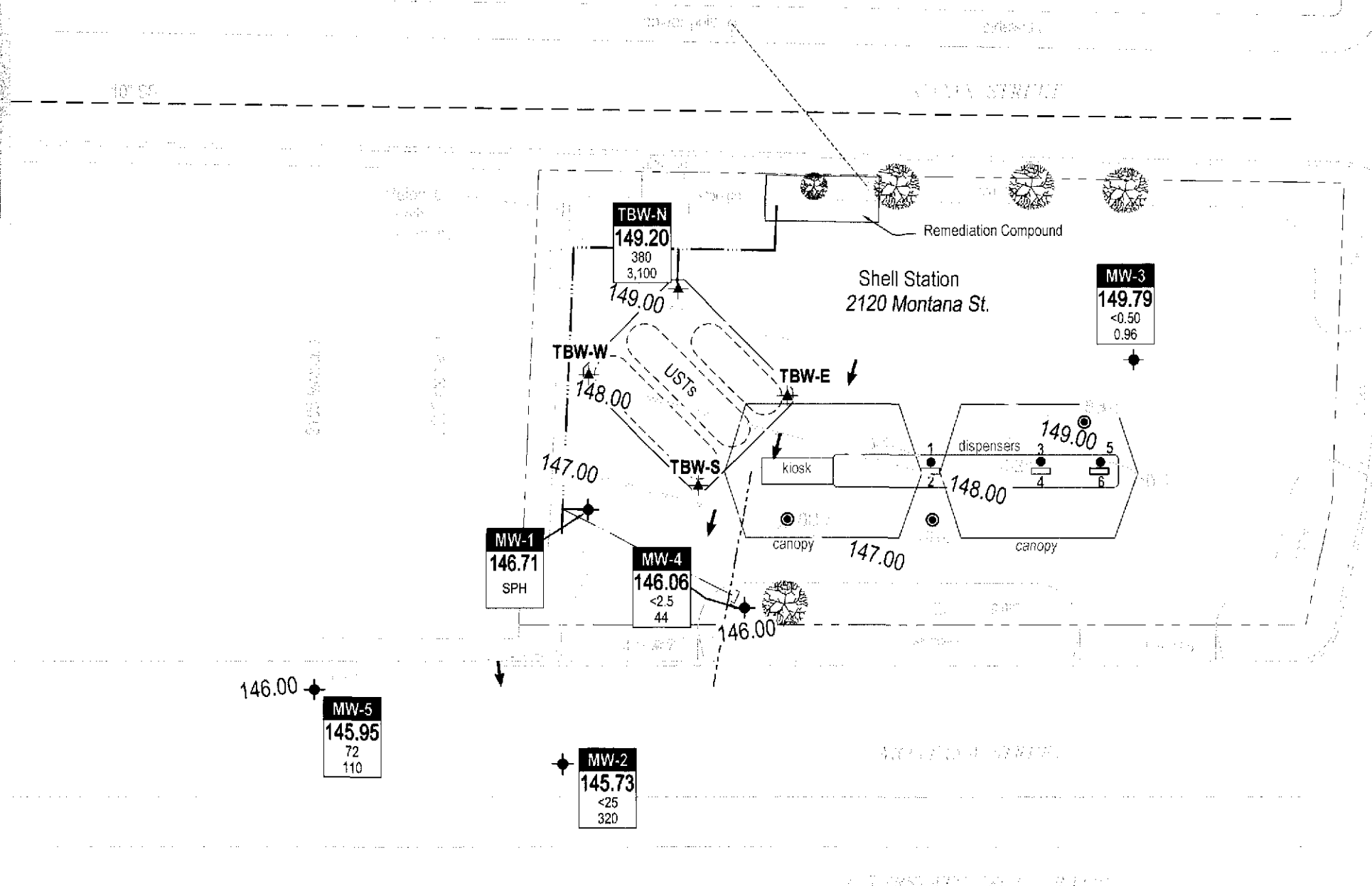
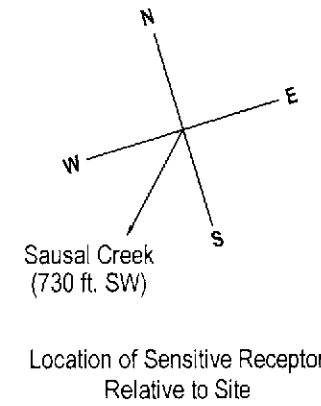
- MW-1 ◆ Monitoring well location
- TBW-N ◆ Tank backfill well location
- SB-1 ● Cambria soil boring location (10/99)
- D-1 ● Cambria soil sampling location (11/97)
- SPH Separate-phase hydrocarbons present, well not sampled
- Groundwater flow direction
- XX.XX Groundwater elevation contour, in feet above mean sea level (msl), dashed where inferred

Well	Well designation
ELEV	Groundwater elevation, in feet above msl
Benzene MTBE	Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260.

- Overhead electrical service
- Remediation piping
- Existing 10" Sanitary sewer (SS)
- Discharge Pipe



Groundwater Gradient Direction
(1Q01 through 2Q04)



Groundwater Elevation Contour Map

May 24, 2004



C A M B R I A

Shell-branded Service Station

2120 Montana Street
Oakland, California
Incident #98995740

FIGURE
2

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995740, 2120 Montana St., Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH			Benzene			MTBE		
					TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH 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)
08/23/01	MW-1	100	100	03/23/01	16,600	0.01385	0.01385	753	0.00063	0.00063	27,500	0.02295	0.02295
08/30/01	MW-1	40	140	03/23/01	16,600	0.00554	0.01939	753	0.00025	0.00088	27,500	0.00918	0.03213
09/09/01	MW-1	500	640	03/23/01	16,600	0.06926	0.08865	753	0.00314	0.00402	27,500	0.11473	0.14686
09/21/01	MW-1	320	960	03/23/01	16,600	0.04433	0.13298	753	0.00201	0.00603	27,500	0.07343	0.22029
09/29/01	MW-1	600	1,560	03/23/01	16,600	0.08311	0.21609	753	0.00377	0.00980	27,500	0.13768	0.35797
10/05/01	MW-1	362	1,922	03/23/01	16,600	0.05014	0.26623	753	0.00227	0.01208	27,500	0.08307	0.44104
10/12/01	MW-1	700	2,622	03/23/01	16,600	0.09696	0.36319	753	0.00440	0.01647	27,500	0.16063	0.60167
10/19/01	MW-1	350	2,972	03/23/01	16,600	0.04848	0.41167	753	0.00220	0.01867	27,500	0.08031	0.68198
10/29/01	MW-1	1,995	4,967	03/23/01	16,600	0.27634	0.68801	753	0.01254	0.03121	27,500	0.45779	1.13978
11/02/01	MW-1	700	5,667	03/23/01	16,600	0.09696	0.78497	753	0.00440	0.03561	27,500	0.16063	1.30041
11/16/01	MW-1	800	6,467	03/23/01	16,600	0.11081	0.89579	753	0.00503	0.04063	27,500	0.18358	1.48398
11/30/01	MW-1	900	7,367	03/23/01	16,600	0.12466	1.02045	753	0.00565	0.04629	27,500	0.20652	1.69050
12/14/01	MW-1	300	7,667	03/23/01	16,600	0.04155	1.06200	753	0.00188	0.04817	27,500	0.06884	1.75934
12/28/01	MW-1	250	7,917	03/23/01	16,600	0.03463	1.09663	753	0.00157	0.04974	27,500	0.05737	1.81671
01/12/02	MW-1	1,300	9,217	03/23/01	16,600	0.18007	1.27670	753	0.00817	0.05791	27,500	0.29831	2.11502
02/14/02	MW-1	950	10,167	03/23/01	16,600	0.13159	1.40830	753	0.00597	0.06388	27,500	0.21800	2.33302
03/11/02*	MW-1	1,258	11,425	03/23/01	16,600	0.17425	1.58255	753	0.00790	0.07179	27,500	0.28867	2.62169
04/01/02	MW-1	791	12,216	03/23/01	16,600	0.10957	1.69212	753	0.00497	0.07676	27,500	0.18151	2.80320
05/01/02	MW-1	60	12,276	03/23/01	16,600	0.00831	1.70043	753	0.00038	0.07713	27,500	0.01377	2.81697
06/05/02	MW-1	643	12,919	03/23/01	16,600	0.08907	1.78949	753	0.00404	0.08117	27,500	0.14755	2.96452
07/11/02	MW-1	400	13,319	03/23/01	16,600	0.05541	1.84490	753	0.00251	0.08369	27,500	0.09179	3.05631
08/12/02	MW-1	1,300	14,619	03/23/01	16,600	0.18007	2.02497	753	0.00817	0.09186	27,500	0.29831	3.35462
09/09/02	MW-1	500	15,119	03/23/01	16,600	0.06926	2.09423	753	0.00314	0.09500	27,500	0.11473	3.46935
10/08/02	MW-1	117	15,236	03/23/01	16,600	0.01621	2.11043	753	0.00074	0.09573	27,500	0.02685	3.49620
11/09/02	MW-1	173	15,409	03/23/01	16,600	0.02396	2.13440	753	0.00109	0.09682	27,500	0.03970	3.53590
12/13/02	MW-1	885	16,294	03/23/01	16,600	0.12259	2.25698	753	0.00556	0.10238	27,500	0.20308	3.73898
01/08/03	MW-1	1,151	17,445	03/23/01	16,600	0.15943	2.41642	753	0.00723	0.10961	27,500	0.26412	4.00310
02/05/03	MW-1	0	17,445	03/23/01	16,600	0.00000	2.41642	753	0.00000	0.10961	27,500	0.00000	4.00310

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995740, 2120 Montana St., Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH			Benzene			MTBE		
					TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE To Date (pounds)
02/19/03	MW-1	1,130	18,575	03/23/01	16,600	0.15652	2.57294	753	0.00710	0.11671	27,500	0.25930	4.26240
03/05/03	MW-1	600	19,175	03/23/01	16,600	0.08311	2.65605	753	0.00377	0.12048	27,500	0.13768	4.40008
08/19/03	MW-1	750	19,925	06/30/03	7,800	0.04881	2.70486	<25	0.00008	0.12056	2,000	0.01252	4.41260
08/26/03	MW-1	700	20,625	06/30/03	7,800	0.04556	2.75042	<25	0.00007	0.12063	2,000	0.01168	4.42428
09/02/03	MW-1	600	21,225	06/30/03	7,800	0.03905	2.78948	<25	0.00006	0.12070	2,000	0.01001	4.43430
09/09/03	MW-1	600	21,825	06/30/03	7,800	0.03905	2.82853	<25	0.00006	0.12076	2,000	0.01001	4.44431
09/16/03	MW-1	300	22,125	06/30/03	7,800	0.01953	2.84805	<25	0.00003	0.12079	2,000	0.00501	4.44932
09/23/03	MW-1	550	22,675	06/30/03	7,800	0.03580	2.88385	<25	0.00006	0.12085	2,000	0.00918	4.45849
09/30/03	MW-1	689	23,364	06/30/03	7,800	0.04484	2.92870	<25	0.00007	0.12092	2,000	0.01150	4.46999
10/07/03	MW-1	650	24,014	06/30/03	7,800	0.04231	2.97100	<25	0.00007	0.12099	2,000	0.01085	4.48084
10/14/03	MW-1	780	24,794	06/30/03	7,800	0.05077	3.02177	<25	0.00008	0.12107	2,000	0.01302	4.49386
10/21/03	MW-1	650	25,444	06/30/03	7,800	0.04231	3.06407	<25	0.00007	0.12114	2,000	0.01085	4.50470
10/28/03	MW-1	600	26,044	06/30/03	7,800	0.03905	3.10313	<25	0.00006	0.12120	2,000	0.01001	4.51472
11/04/03	MW-1	414	26,458	06/30/03	7,800	0.02695	3.13007	<25	0.00004	0.12124	2,000	0.00691	4.52163
11/11/03	MW-1	800	27,258	06/30/03	7,800	0.05207	3.18214	<25	0.00008	0.12133	2,000	0.01335	4.53498
11/18/03	MW-1	750	28,008	06/30/03	7,800	0.04881	3.23095	<25	0.00008	0.12140	2,000	0.01252	4.54749
11/25/03	MW-1	1,159	29,167	06/30/03	7,800	0.07543	3.30639	<25	0.00012	0.12152	2,000	0.01934	4.56684
12/02/03	MW-1	1,248	30,415	06/30/03	7,800	0.08123	3.38762	<25	0.00013	0.12165	2,000	0.02083	4.58766
12/09/03	MW-1	1,295	31,710	06/30/03	7,800	0.08429	3.47190	<25	0.00014	0.12179	2,000	0.02161	4.60928
12/17/03	MW-1	1,380	33,090	06/30/03	7,800	0.08982	3.56172	<25	0.00014	0.12193	2,000	0.02303	4.63231
12/23/03	MW-1	505	33,595	06/30/03	7,800	0.03287	3.59459	<25	0.00005	0.12199	2,000	0.00843	4.64073
12/30/03	MW-1	1,000	34,595	06/30/03	7,800	0.06509	3.65968	<25	0.00010	0.12209	2,000	0.01669	4.65742
01/06/04	MW-1	1,205	35,800	06/30/03	7,800	0.07843	3.73810	<25	0.00013	0.12222	2,000	0.02011	4.67753
08/23/01	TBW-N	85	85	09/25/01	120,000	0.08511	0.08511	3,200	0.00227	0.00227	31,000	0.02199	0.02199
08/30/01	TBW-N	0	85	09/25/01	120,000	0.00000	0.08511	3,200	0.00000	0.00227	31,000	0.00000	0.02199
09/09/01	TBW-N	0	85	09/25/01	120,000	0.00000	0.08511	3,200	0.00000	0.00227	31,000	0.00000	0.02199
09/21/01	TBW-N	200	285	09/25/01	120,000	0.20026	0.28538	3,200	0.00534	0.00761	31,000	0.05174	0.07372

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995740, 2120 Montana St., Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH			Benzene			MTBE		
					TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE To Date (pounds)
09/29/01	TBW-N	0	285	09/25/01	120,000	0.00000	0.28538	3,200	0.00000	0.00761	31,000	0.00000	0.07372
10/05/01	TBW-N	0	285	09/25/01	120,000	0.00000	0.28538	3,200	0.00000	0.00761	31,000	0.00000	0.07372
10/12/01	TBW-N	100	385	09/25/01	120,000	0.10013	0.38551	3,200	0.00267	0.01028	31,000	0.02587	0.09959
10/19/01	TBW-N	0	385	09/25/01	120,000	0.00000	0.38551	3,200	0.00000	0.01028	31,000	0.00000	0.09959
10/29/01	TBW-N	5	390	09/25/01	120,000	0.00501	0.39052	3,200	0.00013	0.01041	31,000	0.00129	0.10088
11/02/01	TBW-N	10	400	09/25/01	120,000	0.01001	0.40053	3,200	0.00027	0.01068	31,000	0.00259	0.10347
11/16/01	TBW-N	400	800	09/25/01	120,000	0.40053	0.80106	3,200	0.01068	0.02136	31,000	0.10347	0.20694
11/30/01	TBW-N	1,100	1,900	11/20/01	72,000	0.66087	1.46193	2,200	0.02019	0.04155	35,000	0.32126	0.52820
12/14/01	TBW-N	2,000	3,900	12/05/01	76,000	1.26834	2.73027	1,600	0.02670	0.06826	30,000	0.50066	1.02886
12/28/01	TBW-N	800	4,700	12/05/01	76,000	0.50734	3.23761	1,600	0.01068	0.07894	30,000	0.20026	1.22912
01/12/02	TBW-N	1,300	6,000	12/05/01	76,000	0.82442	4.06203	1,600	0.01736	0.09629	30,000	0.32543	1.55455
02/14/02	TBW-N	582	6,582	12/05/01	76,000	0.36909	4.43112	1,600	0.00777	0.10406	30,000	0.14569	1.70025
03/11/02*	TBW-N	838	7,420	03/01/02	91,000	0.63632	5.06744	1,200	0.00839	0.11246	29,000	0.20278	1.90303
04/01/02	TBW-N	700	8,120	03/01/02	91,000	0.53154	5.59898	1,200	0.00701	0.11946	29,000	0.16939	2.07242
05/01/02	TBW-N	801	8,921	03/01/02	91,000	0.60823	6.20721	1,200	0.00802	0.12749	29,000	0.19383	2.26625
06/05/02	TBW-N	400	9,321	06/06/02	100,000	0.33377	6.54098	2,100	0.00701	0.13449	18,000	0.06008	2.32633
07/11/02	TBW-N	672	9,993	06/06/02	100,000	0.56074	7.10172	2,100	0.01178	0.14627	18,000	0.10093	2.42726
08/12/02	TBW-N	165	10,158	06/06/02	100,000	0.13768	7.23940	2,100	0.00289	0.14916	18,000	0.02478	2.45205
09/09/02	TBW-N	272	10,430	09/06/02	69,000	0.15661	7.39601	870	0.00197	0.15114	17,000	0.03858	2.49063
10/08/02	TBW-N	272	10,702	09/06/02	69,000	0.15661	7.55262	870	0.00197	0.15311	17,000	0.03858	2.52922
11/09/02	TBW-N	800	11,502	09/06/02	69,000	0.46061	8.01323	870	0.00581	0.15892	17,000	0.11348	2.64270
12/13/02	TBW-N	700	12,202	12/19/02	110,000	0.64252	8.65574	1,900	0.01110	0.17002	19,000	0.11098	2.75368
01/08/03	TBW-N	1,000	13,202	12/19/02	110,000	0.91788	9.57362	1,900	0.01585	0.18587	19,000	0.15854	2.91222
02/05/03	TBW-N	0	13,202	12/19/02	110,000	0.00000	9.57362	1,900	0.00000	0.18587	19,000	0.00000	2.91222
02/19/03	TBW-N	0	13,202	12/19/02	110,000	0.00000	9.57362	1,900	0.00000	0.18587	19,000	0.00000	2.91222
03/05/03	TBW-N	1,122	14,324	12/19/02	110,000	1.02986	10.60348	1,900	0.01779	0.20366	19,000	0.17788	3.09011
08/19/03	TBW-N	44	14,368	06/30/03	260,000	0.09546	10.69894	7,700	0.00283	0.20649	8,400	0.00308	3.09319
08/26/03	TBW-N	53	14,421	06/30/03	260,000	0.11499	10.81393	7,700	0.00341	0.20989	8,400	0.00371	3.09691

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995740, 2120 Montana St., Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH			Benzene			MTBE		
					TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE To Date (pounds)
09/02/03	TBW-N	71	14,492	06/30/03	260,000	0.15404	10.96796	7,700	0.00456	0.21445	8,400	0.00498	3.10188
09/09/03	TBW-N	38	14,530	06/30/03	260,000	0.08244	11.05041	7,700	0.00244	0.21689	8,400	0.00266	3.10455
09/16/03	TBW-N	67	14,597	06/30/03	260,000	0.14536	11.19576	7,700	0.00430	0.22120	8,400	0.00470	3.10924
09/23/03	TBW-N	77	14,674	06/30/03	260,000	0.16705	11.36282	7,700	0.00495	0.22615	8,400	0.00540	3.11464
09/30/03	TBW-N	50	14,724	06/30/03	260,000	0.10848	11.47130	7,700	0.00321	0.22936	8,400	0.00350	3.11814
10/07/03	TBW-N	69	14,793	06/30/03	260,000	0.14970	11.62099	7,700	0.00443	0.23379	8,400	0.00484	3.12298
10/14/03	TBW-N	55	14,848	06/30/03	260,000	0.11932	11.74032	7,700	0.00353	0.23733	8,400	0.00386	3.12684
10/21/03	TBW-N	86	14,934	06/30/03	260,000	0.18658	11.92690	7,700	0.00553	0.24285	8,400	0.00603	3.13286
10/28/03	TBW-N	91	15,025	06/30/03	260,000	0.19743	12.12432	7,700	0.00585	0.24870	8,400	0.00638	3.13924
11/04/03	TBW-N	200	15,225	06/30/03	260,000	0.43391	12.55823	7,700	0.01285	0.26155	8,400	0.01402	3.15326
11/11/03	TBW-N	71	15,296	06/30/03	260,000	0.15404	12.71227	7,700	0.00456	0.26611	8,400	0.00498	3.15824
11/18/03	TBW-N	473	15,769	06/30/03	260,000	1.02619	13.73846	7,700	0.03039	0.29650	8,400	0.03315	3.19139
11/25/03	TBW-N	150	15,919	06/30/03	260,000	0.32543	14.06389	7,700	0.00964	0.30614	8,400	0.01051	3.20190
12/02/03	TBW-N	150	16,069	06/30/03	260,000	0.32543	14.38932	7,700	0.00964	0.31578	8,400	0.01051	3.21242
12/09/03	TBW-N	700	16,769	06/30/03	260,000	1.51867	15.90799	7,700	0.04498	0.36075	8,400	0.04906	3.26148
12/17/03	TBW-N	750	17,519	06/30/03	260,000	1.62715	17.53514	7,700	0.04819	0.40894	8,400	0.05257	3.31405
12/23/03	TBW-N	505	18,024	06/30/03	260,000	1.09561	18.63075	7,700	0.03245	0.44139	8,400	0.03540	3.34945
12/30/03	TBW-N	787	18,811	06/30/03	260,000	1.70742	20.33818	7,700	0.05057	0.49196	8,400	0.05516	3.40461
01/06/04	TBW-N	1,100	19,911	12/29/03	130,000	1.19324	21.53142	840	0.00771	0.49967	5,400	0.04957	3.45418
Total Gallons Extracted:		55,711			Total Pounds Removed:			25.26952			0.62188		
					Total Gallons Removed:			4,14254			1.31157		

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995740, 2120 Montana St., Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH			Benzene			MTBE		
					TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH 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)

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline

MtBE = Methyl tert-butyl ether

ppb = Parts per billion

gal = Gallons

* = Volume pumped estimated.

Mass removed based on the formula: volume extracted (gal) x concentration ($\mu\text{g/L}$) x ($\text{g}/10^6 \mu\text{g}$) x (pound/453.6g) x (3.785 L/gal)

Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)

TPPH, benzene, and MTBE analyzed by EPA Method 8260

Concentrations based on most recent groundwater monitoring results

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

Groundwater extracted by vacuum trucks provided by Onyx. Water disposed of at a Martinez Refinery.

Table 2: Groundwater Extraction - System Analytical Data
 Shell-branded Service Station, Incident #98995740, 2120 Montana 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)
04/02/2003	51,000	1,300	7,100	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
04/08/2003	45,000	1,200	8,600	1,600	5.3	3.2	220	<0.50	<0.50	<50	<0.50	<0.50
04/22/2003	<50	<25	1,700	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
05/01/2003	45,000	1,600	8,300	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
05/21/2003	12,000	370	1,500	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
06/03/2003	10,000	470	1,900	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
06/17/2003	1,200	42	29	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
04/21/2004	10,000	540	950	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
06/08/2004	970	26	290	<50	<0.50	<0.50	<50	<0.50	<0.50	94	<0.50	<0.50
06/30/2004	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	<0.50	<0.50
07/07/2004	1,700	71	500	<50	<0.50	<0.50	<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 3: Groundwater Extraction - Operation and Mass Removal Data
Shell-branded Service Station, Incident #98995740, 2120 Montana Street, Oakland, California

Site Visit (mm/dd/yy)	Hour Meter hours	Flow Meter Reading (gal)	Period			TPHg			Benzene			MTBE			
			Period Volume (gal)	Operational Flow Rate (gpm)	Cumulative Volume (gal)	TPHg Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)	Benzene Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)	MTBE Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)	
04/02/2003	0.0	393	0	0	0		0.000	0.000		0.000	0.000		0.000	0.000	
04/02/2003	5.3	1,006	613	1.93	613	51,000	0.261	0.261	1,300	0.007	0.007	7,100	0.036	0.036	
04/08/2003	11.4	2,010	1,004	2.74	1,617	45,000	0.377	0.638	1,200	0.010	0.017	8,600	0.072	0.108	
04/22/2003	303.0	15,640	13,630	0.78	15,247	<50	0.003	0.641	<25	0.001	0.018	1,700	0.193	0.302	
05/01/2003	399.0	17,840	2,200	0.38	17,447	45,000	0.826	1.47	1,600	0.029	0.047	8,300	0.152	0.454	
05/20/2003	784.0	43,320	25,480	1.10	42,927		9.568	11.0		0.340	0.388		1.765	2.22	
05/21/2003	808.5	44,639	1,319	0.90	44,246	12,000	0.132	11.2	370	0.004	0.392	1,500	0.017	2.24	
06/03/2003	1116.9	59,813	15,174	0.82	59,420	10,000	1.266	12.4	470	0.060	0.451	1,900	0.241	2.48	
06/17/2003	1455.5	64,741	4,928	0.24	64,348	1,200	0.049	12.5	42	0.002	0.453	29	0.001	2.48	
07/01/2003	1697.4	68,668	3,927	0.27	68,275		0.039	12.5		0.001	0.454		0.001	2.48	
07/18/2003	1867.0	69,099	431	0.04	68,706		0.004	12.5		0.000	0.455		0.000	2.48	
System Shutdown due to presence of SPH															
05/25/2004	1984.4	1,516.3	0	0.00	68,706	10,000	0.000	12.5	540	0.000	0.455	950	0.000	2.48	
06/08/2004	2,107.5	4,798.2	3,282	0.44	71,988	970	0.033	12.6	26	0.001	0.455	290	0.000	2.48	
06/22/2004	2280.6	10,108.0	5,310	0.51	77,298		0.043	12.6		0.001	0.456		0.013	2.49	
06/30/2004	2475.2	18,527.5	8,420	0.72	85,717		0.068	12.7		0.002	0.458		0.020	2.51	
07/07/2004	2494.5	19,377.0	850	0.73	86,567	1,700	0.012	12.7	71	0.001	0.459	500	0.004	2.51	
07/22/2004	2861.5	34,214.0	14,837	0.67	101,404		0.210	12.9		0.009	0.468		0.062	2.58	
08/03/2004	3142.1	59,767.0	25,553	1.52	126,957		0.362	13.3		0.015	0.483		0.000	2.58	
					Total Extracted Volume =	126,957	Total Pounds Removed:		13.3	Total Pounds Removed:		0.483	Total Pounds Removed:		2.58
					Average Operational Flow Rate =	0.591	Total Gallons Removed:		2.18	Total Gallons Removed:		0.066	Total Gallons Removed:		0.417

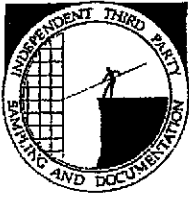
Abbreviations & Notes:

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 BPA Method 8260B

ATTACHMENT A

Blaine Groundwater Monitoring Report
and Field Notes

BLAINE
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June 21, 2004

Karen Petryna
Shell Oil Products US
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Second Quarter 2004 Groundwater Monitoring at
Shell-branded Service Station
2120 Montana Street
Oakland, CA

Monitoring performed on May 24, 2004

Groundwater Monitoring Report 040524-DA-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
Oakland, CA 94608

WELL CONCENTRATIONS
Shell-branded Service Station
2120 Montana Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	SPH Thickness (ft)
MW-1	03/19/2001	NA	NA	NA	NA	NA	NA	NA	159.59	12.14	147.45	ND
MW-1	03/23/2001	16,600	753	1,720	407	2,330	NA	27,500	159.59	12.25	147.34	ND
MW-1	05/31/2001	<20,000d	1,000d	920d	490d	2,000d	NA	54,000d	161.13	12.22	148.91	ND
MW-1	06/27/2001	NA	NA	NA	NA	NA	NA	NA	159.59	13.00b	NA	ND
MW-1	07/09/2001	NA	NA	NA	NA	NA	NA	NA	159.59	13.17	146.67	0.31
MW-1	09/25/2001	NA	NA	NA	NA	NA	NA	NA	159.59	14.27	145.66	0.43
MW-1	11/20/2001	NA	NA	NA	NA	NA	NA	NA	159.59	13.49	146.14	0.05
MW-1	12/05/2001	NA	NA	NA	NA	NA	NA	NA	159.59	11.32	148.31	0.05
MW-1	03/01/2002	NA	NA	NA	NA	NA	NA	NA	159.59	13.22	146.56	0.24
MW-1	06/06/2002	NA	NA	NA	NA	NA	NA	NA	159.59	12.99	147.00	0.50
MW-1	07/16/2002	NA	NA	NA	NA	NA	NA	NA	159.59	13.37	146.22	ND
MW-1	09/06/2002	NA	NA	NA	NA	NA	NA	NA	159.57	13.30	146.70	0.54
MW-1	12/12/2002	NA	NA	NA	NA	NA	NA	NA	159.57	13.78	146.61	1.03
MW-1	03/31/2003	NA	NA	NA	NA	NA	NA	NA	159.57	11.21	148.38	0.03
MW-1	06/30/2003	7,800	<25	37	<25	380	NA	2,000	159.57	12.20	147.37	ND
MW-1	09/09/2003	NA	NA	NA	NA	NA	NA	NA	159.08	15.70	145.28	2.38
MW-1	12/29/2003	NA	NA	NA	NA	NA	NA	NA	159.08	11.25	147.89	0.07
MW-1	03/17/2004	NA	NA	NA	NA	NA	NA	NA	159.08	11.80	147.40	0.15
MW-1	05/24/2004	NA	NA	NA	NA	NA	NA	NA	159.08	12.42	146.71	0.06
MW-2	03/19/2001	NA	NA	NA	NA	NA	NA	NA	158.03	11.60	146.43	ND
MW-2	03/23/2001	4,450	280	41.0	62.1	63.0	NA	16,600	158.03	11.76	146.27	ND
MW-2	05/31/2001	<20,000a	820a	<200a	<200a	<200a	NA	63,000a	158.03	11.40	146.63	ND
MW-2	06/27/2001	<50,000	610	4.0	13	9.2	NA	47,000	158.03	12.65	145.38	ND
MW-2	09/25/2001	<2,000	41	<20	<20	<20	NA	6,400	158.03	12.89	145.14	ND
MW-2	12/05/2001	<2,000	74	<20	<20	<20	NA	8,400	158.03	10.40	147.63	ND
MW-2	03/01/2002	<1,000	<10	<10	<10	<10	NA	2,900	158.03	11.52	146.51	ND
MW-2	06/06/2002	<5,000	210	<50	<50	<50	NA	23,000	158.03	12.15	145.88	ND
MW-2	07/16/2002	NA	NA	NA	NA	NA	NA	NA	158.03	12.25	145.78	ND
MW-2	09/06/2002	<2,000	56	<20	<20	<20	NA	11,000	158.01	12.44	145.57	ND
MW-2	12/12/2002	<2,500	80	<25	<25	<25	NA	13,000	158.01	12.53	145.48	ND
MW-2	03/31/2003	<5,000	230	1,200	95	150	NA	13,000	158.01	11.98	146.03	ND
MW-2	06/30/2003	<12,000	780	<120	170	250	NA	9,000	158.01	12.10	145.91	ND
MW-2	09/09/2003	140,000	4,600	40,000	4,800	32,000	NA	11,000	158.01	12.94	145.07	ND

WELL CONCENTRATIONS
Shell-branded Service Station
2120 Montana Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	SPH Thickness (ft)
MW-2	12/29/2003	220,000	240	4,800	2,900	19,000	NA	1,000	158.01	11.20	146.81	ND
MW-2	03/17/2004	25,000	170	390	280	1,400	NA	1,500	158.01	11.40	146.61	ND
MW-2	05/24/2004	140,000	<25	220	1,200	6,800	NA	320	158.01	12.28	145.73	ND
MW-3	03/19/2001	NA	NA	NA	NA	NA	NA	NA	161.13	11.42	149.71	ND
MW-3	03/23/2001	<50.0	<0.500	<0.500	<0.500	<0.500	NA	1.26	161.13	11.42	149.71	ND
MW-3	05/31/2001	<50e	<0.50e	<0.50e	<0.50e	<0.50e	NA	<5.0e	159.59	13.00	146.59	ND
MW-3	06/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	161.13	12.32	148.81	ND
MW-3	09/25/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	161.13	12.50	148.63	ND
MW-3	12/05/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	161.13	10.13	151.00	ND
MW-3	03/01/2002	<50	<0.50	<0.50	<0.50	0.73	NA	<5.0	161.13	11.63	149.50	ND
MW-3	06/06/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	161.13	11.55	149.58	ND
MW-3	07/16/2002	NA	NA	NA	NA	NA	NA	NA	161.13	11.72	149.41	ND
MW-3	09/06/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	161.11	12.24	148.87	ND
MW-3	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	161.11	12.18	148.93	ND
MW-3	03/31/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	0.78	161.11	11.94	149.17	ND
MW-3	06/30/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	161.11	12.50	148.61	ND
MW-3	09/09/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	161.11	12.55	148.56	ND
MW-3	12/29/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	0.70	161.11	10.90	150.21	ND
MW-3	03/17/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	2.1	161.11	11.63	149.48	ND
MW-3	05/24/2004	<50	<0.50	<0.50	<0.50	1.0	NA	0.96	161.11	11.32	149.79	ND
MW-4	07/10/2002	NA	NA	NA	NA	NA	NA	NA	NM	13.19	NA	ND
MW-4	07/16/2002	800	1.1	1.1	2.6	2.4	NA	450	NM	13.56	NA	ND
MW-4	09/06/2002	1,100	3.0	1.8	8.0	4.6	NA	110	160.09	13.67	146.42	ND
MW-4	12/12/2002	130	<0.50	<0.50	<0.50	<0.50	NA	940	160.09	14.06	146.03	ND
MW-4	03/31/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	500	160.09	13.69	146.40	ND
MW-4	06/30/2003	3,100	5.3	<5.0	7.1	<10	NA	420	160.09	14.12	145.97	ND
MW-4	09/09/2003	1,400	2.4	2.0	2.6	3.2	NA	140	160.09	14.92	145.17	ND
MW-4	12/29/2003	2,700	10	6.2	20	11	NA	420	160.09	12.71	147.38	ND
MW-4	03/17/2004	1,900	6.9	3.0	33	22	NA	290	160.09	13.24	146.85	ND
MW-4	05/24/2004	1,800	<2.5	<2.5	<2.5	11	NA	44	160.09	14.03	146.06	ND
MW-5	07/10/2002	NA	NA	NA	NA	NA	NA	NA	NM	12.22	NA	ND
MW-5	07/16/2002	6,100	65	7.2	100	130	NA	410	NM	12.50	NA	ND

WELL CONCENTRATIONS
Shell-branded Service Station
2120 Montana Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	SPH Thickness (ft)
MW-5	09/06/2002	5,900	100	8.1	41	32	NA	230	158.25	12.77	145.48	ND
MW-5	12/12/2002	4,900	70	5.7	25	17	NA	280	158.25	12.71	145.54	ND
MW-5	03/31/2003	6,400	61	4.9	23	13	NA	330	158.25	11.93	146.32	ND
MW-5	06/30/2003	3,400	18	<2.5	17	5.5	NA	47	158.25	11.97	146.28	ND
MW-5	09/09/2003	6,800	46	23	39	42	NA	67	158.25	12.44	145.81	ND
MW-5	12/29/2003	8,400	44	6.2	36	16	NA	60	158.25	11.38	146.87	ND
MW-5	03/17/2004	7,100	120	22	42	27	NA	300	158.25	-11.68	146.57	ND
MW-5	05/24/2004	6,100	72	17	34	23	NA	110	158.25	12.30	145.95	ND
TBW-N	09/25/2001 c	120,000	3,200	2,800	4,000	18,000	NA	31,000	NM	12.25	NM	ND
TBW-N	11/20/2001	72,000	2,200	3,600	2,600	14,000	NA	35,000	NM	12.13	NM	ND
TBW-N	12/05/2001	76,000	1,600	3,200	2,900	15,000	NA	30,000	NM	11.51	NM	ND
TBW-N	03/01/2002	91,000	1,200	4,200	2,800	14,000	NA	29,000	NM	11.88	NM	ND
TBW-N	06/06/2002	100,000	2,100	8,200	3,400	17,000	NA	18,000	NM	12.48	NM	ND
TBW-N	07/16/2002	NA	NA	NA	NA	NA	NA	NA	NM	12.39	NM	ND
TBW-N	09/06/2002	69,000	870	4,800	2,300	11,000	NA	17,000	161.26	12.36	148.90	ND
TBW-N	12/12/2002	Well inaccessible		NA	NA	NA	NA	NA	161.26	NA	NA	NA
TBW-N	12/19/2002	110,000	1,900	13,000	3,100	18,000	NA	19,000	161.26	10.82	150.44	ND
TBW-N	03/31/2003	62,000	1,600	6,500	2,200	11,000	NA	11,000	161.26	10.63	150.63	ND
TBW-N	06/30/2003	260,000	7,700	<120	5,800	40,000	NA	8,400	161.26	11.51	149.75	ND
TBW-N	09/09/2003	NA	NA	NA	NA	NA	NA	NA	159.92	11.37	148.64	0.11
TBW-N	12/29/2003	130,000	840	8,200	2,400	18,000	NA	5,400	159.92	10.40	149.52	ND
TBW-N	03/17/2004	32,000	440	1,500	580	4,500	NA	3,700	159.92	10.49	149.44	0.01
TBW-N	05/24/2004	110,000	380	2,600	1,600	11,000	NA	3,100	159.92	10.72	149.20	ND

WELL CONCENTRATIONS
Shell-branded Service Station
2120 Montana Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	SPH Thickness (ft)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to May 31, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to May 31, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

TBW-N = tank backfill well-north

NA = Not analyzed

ND = Not detected

NM = Not measured

ug/L = parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

Notes:

a = Resampled on June 27, 2001, due to possible mislabeling.

b = Separate phase hydrocarbons encountered during purge; groundwater elevation may not be accurate.

c = Sample TBW-N was analyzed once within hold time, but the analyte concentrations all exceeded the instrument working ranges. The sample was diluted and re-analyzed out of hold time. The diluted analysis is reported because it more accurately reflects the concentrations present.

d = These results are listed as MW-3 on analytical report due to possible mislabeling in field or laboratory. Resampled on June 27, 2001, to confirm mislabeling.

e = These results are listed as MW-1 on analytical report due to possible mislabeling in field or laboratory. Resampled on June 27, 2001, to confirm mislabeling.

Survey data provided by Cambria Environmental Technology, May 2001.

Site surveyed February 12 and June 26, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells MW-1 and TBW-N surveyed September 23, 2003 by Virgil Chavez Land Surveying of Vallejo, CA.

When separate phase hydrocarbons are present, ground water elevation is adjusted using the relation:

Corrected groundwater elevation = Top-of-casing elevation - Depth to water + (0.8 x Hydrocarbon thickness).

Blaine Tech Services, Inc.

June 09, 2004

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 040524-DA1
Project: 98995740
Site: 2120 Montana Street, Oakland

Dear Mr. Gearhart,

Attached is our report for your samples received on 05/25/2004 16:27

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

Please note that any unused portion of the samples will be discarded after 07/09/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

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

Sincerely,



Vincent Vancil
Project Manager

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 040524-DA1

98995740

Received: 05/25/2004 16:27

Site: 2120 Montana Street, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-2	05/24/2004 09:40	Water	1
MW-3	05/24/2004 10:39	Water	2
MW-4	05/24/2004 11:22	Water	3
MW-5	05/24/2004 10:10	Water	4
TBW-N	05/24/2004 11:12	Water	5

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

06/07/2004 17:16

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 040524-DA1

98995740

Received: 05/25/2004 16:27

Site: 2120 Montana Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-2	Lab ID:	2004-05-0887 - 1
Sampled:	05/24/2004 09:40	Extracted:	6/2/2004 20:39
Matrix:	Water	QC Batch#:	2004/06/02-2B.68
Analysis Flag: 0 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	140000	2500	ug/L	50.00	06/02/2004 20:39	
Benzene	ND	25	ug/L	50.00	06/02/2004 20:39	
Toluene	220	25	ug/L	50.00	06/02/2004 20:39	
Ethylbenzene	1200	25	ug/L	50.00	06/02/2004 20:39	
Total xylenes	6800	50	ug/L	50.00	06/02/2004 20:39	
Methyl tert-butyl ether (MTBE)	320	25	ug/L	50.00	06/02/2004 20:39	
Surrogate(s)						
1,2-Dichloroethane-d4	122.6	76-130	%	50.00	06/02/2004 20:39	
Toluene-d8	96.6	78-115	%	50.00	06/02/2004 20:39	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 040524-DA1

98995740

Received: 05/25/2004 16:27

Site: 2120 Montana Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-3	Lab ID:	2004-05-0887 - 2
Sampled:	05/24/2004 10:39	Extracted:	6/2/2004 20:58
Matrix:	Water	QC Batch#:	2004/06/02-2B.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/02/2004 20:58	
Benzene	ND	0.50	ug/L	1.00	06/02/2004 20:58	
Toluene	ND	0.50	ug/L	1.00	06/02/2004 20:58	
Ethylbenzene	ND	0.50	ug/L	1.00	06/02/2004 20:58	
Total xylenes	1.0	1.0	ug/L	1.00	06/02/2004 20:58	
Methyl tert-butyl ether (MTBE)	0.96	0.50	ug/L	1.00	06/02/2004 20:58	
Surrogate(s)						
1,2-Dichloroethane-d4	112.1	76-130	%	1.00	06/02/2004 20:58	
Toluene-d8	100.9	78-115	%	1.00	06/02/2004 20:58	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 040524-DA1

98995740

Received: 05/25/2004 16:27

Site: 2120 Montana Street, Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-4	Lab ID: 2004-05-0887 - 3
Sampled: 05/24/2004 11:22	Extracted: 6/2/2004 21:17
Matrix: Water	QC Batch#: 2004/06/02-2B.68
Analysis Flag: 0 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1800	250	ug/L	5.00	06/02/2004 21:17	
Benzene	ND	2.5	ug/L	5.00	06/02/2004 21:17	
Toluene	ND	2.5	ug/L	5.00	06/02/2004 21:17	
Ethylbenzene	ND	2.5	ug/L	5.00	06/02/2004 21:17	
Total xylenes	11	5.0	ug/L	5.00	06/02/2004 21:17	
Methyl tert-butyl ether (MTBE)	44	2.5	ug/L	5.00	06/02/2004 21:17	
Surrogate(s)						
1,2-Dichloroethane-d4	125.7	76-130	%	5.00	06/02/2004 21:17	
Toluene-d8	108.6	78-115	%	5.00	06/02/2004 21:17	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 040524-DA1
98995740

Received: 05/25/2004 16:27

Site: 2120 Montana Street, Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-5	Lab ID: 2004-05-0887 - 4
Sampled: 05/24/2004 10:10	Extracted: 6/2/2004 21:36
Matrix: Water	QC Batch#: 2004/06/02-2B.68
Analysis Flag: 0 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	6100	500	ug/L	10.00	06/02/2004 21:36	
Benzene	72	5.0	ug/L	10.00	06/02/2004 21:36	
Toluene	17	5.0	ug/L	10.00	06/02/2004 21:36	
Ethylbenzene	34	5.0	ug/L	10.00	06/02/2004 21:36	
Total xylenes	23	10	ug/L	10.00	06/02/2004 21:36	
Methyl tert-butyl ether (MTBE)	110	5.0	ug/L	10.00	06/02/2004 21:36	
Surrogate(s)						
1,2-Dichloroethane-d4	122.6	76-130	%	10.00	06/02/2004 21:36	
Toluene-d8	101.7	78-115	%	10.00	06/02/2004 21:36	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 040524-DA1

98995740

Received: 05/25/2004 16:27

Site: 2120 Montana Street, Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: TBW-N	Lab ID: 2004-05-0887 - 5
Sampled: 05/24/2004 11:12	Extracted: 6/2/2004 21:55
Matrix: Water	QC Batch#: 2004/06/02-2B.68
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	110000	5000	ug/L	100.00	06/02/2004 21:55	
Benzene	380	50	ug/L	100.00	06/02/2004 21:55	
Toluene	2600	50	ug/L	100.00	06/02/2004 21:55	
Ethylbenzene	1600	50	ug/L	100.00	06/02/2004 21:55	
Total xylenes	11000	100	ug/L	100.00	06/02/2004 21:55	
Methyl tert-butyl ether (MTBE)	3100	50	ug/L	100.00	06/02/2004 21:55	
Surrogate(s)						
1,2-Dichloroethane-d4	118.2	76-130	%	100.00	06/02/2004 21:55	
Toluene-d8	97.8	78-115	%	100.00	06/02/2004 21:55	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 040524-DA1
98995740

Received: 05/25/2004 16:27

Site: 2120 Montana Street, Oakland

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2004/06/02-2B.68
MB: 2004/06/02-2B.68-016		Date Extracted: 06/02/2004 18:16

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/02/2004 18:16	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/02/2004 18:16	
Benzene	ND	0.5	ug/L	06/02/2004 18:16	
Toluene	ND	0.5	ug/L	06/02/2004 18:16	
Ethylbenzene	ND	0.5	ug/L	06/02/2004 18:16	
Total xylenes	ND	1.0	ug/L	06/02/2004 18:16	
Surrogates(s)					
1,2-Dichloroethane-d4	102.6	76-130	%	06/02/2004 18:16	
Toluene-d8	101.0	78-115	%	06/02/2004 18:16	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 040524-DA1

98995740

Received: 05/25/2004 16:27

Site: 2120 Montana Street, Oakland

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
Laboratory Control Spike				Water			QC Batch # 2004/06/02-2B.68			
LCS	2004/06/02-2B.68-038			Extracted: 06/02/2004			Analyzed: 06/02/2004 17:38			
LCSD	2004/06/02-2B.68-057			Extracted: 06/02/2004			Analyzed: 06/02/2004 17:57			
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.1	26.7	25	100.4	106.8	6.2	65-165	20		
Benzene	24.8	23.1	25	99.2	92.4	7.1	69-129	20		
Toluene	26.6	25.8	25	106.4	103.2	3.1	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	504	529	500	100.8	105.8		76-130			
Toluene-d8	506	511	500	101.2	102.2		78-115			

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 040524-DA1

98995740

Received: 05/25/2004 16:27

Site: 2120 Montana Street, Oakland

Legend and Notes

Analysis Flag

o

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

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be Invoiced:

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CRAT HOUSTON

Karen Petryna

2004-05-0887

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 4 0

SAP or CRAT NUMBER (TS/CRMT)

DATE: 5/24/04

PAGE: 1 of 1

BASELINE COMPANY: Blaine Tech Services
ADDRESS: 1580 Rogers Avenue, San Jose, CA 95112
PROJECT CONTACT (Name): Leon Gearhart
TELEPHONE: 408-573-0555
FAX: 408-573-7771
E-MAIL: lgearhart@blainetech.com

LAB CODE: BTSS
CLIENT ID NO.: TD600101805

CLIENT ADDRESS (Street and City): 2120 Montana Street, Oakland
RESPONSIBLE TO (Responsible Party or Designer): Ann Kream
PHONE NO.: 510-420-3335
E-MAIL: ShellOaklandEDF@cambria-env.com
CONSULTANT PROJECT NO.: 040524-DA 1
BTS #:

SAMPLER NAME(S) (P/N): David Allbut

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 USE AGENCY

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

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

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	% OF CONT.	REQUESTED ANALYSIS											FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
		DATE	TIME			TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	ECB (8260B)	TPH - Diesel, Extractable (8013m)	TEMPERATURE ON RECEIPT °C	
	MW-2	5/24/04	0940	W	3	X	X	X									6°
	MW-3		1039			X	X	X									
	MW-4		1122			X	X	X									
	MW-5		1010			X	X	X									
	TBW-N		1112			X	X	X									

Requested by (Signature): David Allbut
Received by (Signature): [Signature]
Date: 5/25/04
Time: 1627

Requested by (Signature): [Signature]
Received by (Signature): [Signature]
Date: 5/25/04
Time: 1753

WELL GAUGING DATA

Project # 040524-DA 1 Date 5/24/04 Client Shell

Site 2120 Montana St. Oakland, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-1	2	O/S	12.36	0.06	—	12.42 12.36 _{OA}	— 12.42 _{OA}	TOC
MW-2	2	0				12.28	19.98	
MW-3	2					11.32	19.98	
MW-4	4	0				14.03	19.82	
MW-5	2	O/S				12.30	19.80	
TBW-N	4					10.72	13.09	
* checked for SPH w/ interface probe								

SHELL WELL MONITORING DATA SHEET

BTS #: 040524-DA1	Site: 2120 Montana St. Oakland, CA
Sampler: DA	Date: 5/24/04
Well I.D.: MW-1	Well Diameter: \varnothing 3 4 6 8
Total Well Depth (TD): -	Depth to Water (DTW): 12.42
Depth to Free Product: 12.36	Thickness of Free Product (feet): 0.06
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 Disposable Bailer Positive Air Displacement Electric Submersible Other _____ 	Sampling Method: Waterra Peristaltic Extraction Pump Other _____
	Bailer Disposable Bailer Extraction Port Dedicated Tubing Other: _____

_____ (Gals.) X _____ = _____ Gals. 1 Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <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
						No sample due to SPH.

Did well dewater? Yes No Gallons actually evacuated: -

Sampling Date: _____ Sampling Time: _____ Depth to Water: _____

Sample I.D.: _____ 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 #: 040524-DA 1	Site: 2120 Montana St. Oakland, CA
Sampler: OA	Date: 5/24/04
Well I.D.: Mw-2	Well Diameter: O 3 4 6 8 _____
Total Well Depth (TD): 19.88	Depth to Water (DTW): 12.28
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: EVO Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.80	

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

1.2 (Gals.) X 3 = 3.6 Gals. I Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <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
0932	62.8	6.7	861	>200	1.25	black color, heavy sheen, fuel odor
0934	62.8	6.9	807	7200	2.5	"
0936	63.0	6.8	810	7200	3.75	"

Did well dewater? Yes No Gallons actually evacuated: 4

Sampling Date: 5/24/04 Sampling Time: 0940 Depth to Water: 13.80

Sample I.D.: Mw-2 Laboratory: STD Other _____

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

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 #: 040524-DA1	Site: 2120 Montana St. Oakland, CA
Sampler: OA	Date: 5/24/04
Well I.D.: MW-3	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth (TD): 19.93	Depth to Water (DTW): 11.32
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: WPE Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.05	

Purge Method: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible	Watertra <input type="checkbox"/> Peristaltic <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing Other: _____
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$1.4 \text{ (Gals.)} \times 3 = 4.2 \text{ Gals.}$
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
<input checked="" type="radio"/> 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
1022	64.6	6.8	641	7200	1.5	gray, silty
1024	64.9	7.0	648	7200	3	"
1026	65.0	6.9	652	7200	4.5	"

Did well dewater? Yes No Gallons actually evacuated: 4.5

Sampling Date: 5/24/04 Sampling Time: 1039 Depth to Water: 13.05

Sample I.D.: MW-3 Laboratory: STD 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 #: 040524-DA1	Site: 2120 Montana St. Oakland, CA
Sampler: PA	Date: 5/24/04
Well I.D.: MW-4	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 19.82	Depth to Water (DTW): 14.03
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVP</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.19	

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: _____

$\frac{3.8 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 11.4 \text{ Gals.}$ <p style="text-align: center;">Specified Volumes Calculated Volume</p>	<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 <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1046	63.9	6.7	617	72	4	cloudy, slight fuel color
1048	63.9	6.7	618	24	8	clearing
1050	64.7	6.7	611	20	11.5	"

Did well dewater? Yes No Gallons actually evacuated: 11.5

Sampling Date: 5/24/04 Sampling Time: 1122 Depth to Water: 15.01

Sample I.D.: ~~5/24/04~~ DA MW-4 Laboratory: STI 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

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558

SHELL WELL MONITORING DATA SHEET

BTS #: 040524-DA1	Site: 2120 Montana St. Oakland, CA
Sampler: OA	Date: 5/24/04
Well I.D.: MW-5	Well Diameter: $\text{\textcircled{2}}$ 3 4 6 8 _____
Total Well Depth (TD): 19.80	Depth to Water (DTW): 12.30
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]: 13.50	

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: _____

$\frac{1.2 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = \frac{3.6}{\text{Calculated Volume}} \text{ Gals.}$	<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
1002	61.6	6.4	661	7200	1.25	tan, silty, slight fuel odor
1004	61.7	6.8	664	7200	2.5	"
1006	61.7	6.8	660	7200	3.75	"

Did well dewater? Yes No Gallons actually evacuated: 3.75

Sampling Date: 5/24/04 Sampling Time: 1010 Depth to Water: 13.21

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 #: 040524-DA1	Site: 2120 Montana St. Oakland, CA
Sampler: DA	Date: 5/24/04
Well I.D.: 4 = DA TBW-N	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 13.09	Depth to Water (DTW): 10.72
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVD) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.19	

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

$1.5 \text{ (Gals.)} \times 3 = 4.5 \text{ Gals.}$ 1 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
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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
1103	66.6	6.6	1297	7200	1.5	cloudy, grey, sheen
1106	66.9	6.7	1289	7200	3	"
1109	66.9	6.7	1278	7200	4.5	"

Did well dewater? Yes No Gallons actually evacuated: 4.5

Sampling Date: 5/24/04 Sampling Time: 1112 Depth to Water: 10.72

Sample I.D.: TBW-N Laboratory: **(STD)** Other _____

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

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