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March 3, 2006

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

Re: **Well Installation Work Plan**
Shell-branded Service Station
6039 College Avenue
Oakland, California
Incident # 98995745
Project # 248-0503
ACHCSA Case #3719



Dear Mr. Wickham:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), Cambria Environmental Technology, Inc. (Cambria) is submitting this *Well Installation Work Plan*. In the December 14, 2005 *Subsurface Investigation Report*, Cambria recommended installing an additional groundwater monitoring well immediately downgradient of the westernmost dispenser island, a suspected sources of hydrocarbon impacts to groundwater. Alameda County Health Care Services Agency (ACHCSA) concurred with this recommendation in a January 9, 2006 letter to Shell. The site background and proposed scope of work for this investigation are presented below. As requested by ACHCSA in the January 9, 2006 letter, a well construction data table and geologic cross-sections of the site are also included in the work plan as Table 1 and Attachment A, respectively. As agreed upon in a February 2, 2006 meeting with ACHCSA, Attachment A contains historical instead of current cross-sections. The historical cross-sections do not include all of the information requested in the January 9, 2006 letter and include the proposed locations of subsequently advanced soil borings.

SITE BACKGROUND

Location and Site Use: The Shell service station at 6039 College Avenue is situated in a mixed commercial and residential neighborhood of Oakland, California. The service station has been in operation since 1940. Groundwater sampling has been performed at the site since 1990.

**Cambria
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Technology, Inc.**

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PREVIOUS WORK

1957 Underground Storage Tank (UST) Removal and Replacement: According to Shell's records, one 550-gallon and three 1,000-gallon steel USTs containing gasoline, and one 110-gallon single-walled steel waste-oil tank were removed in 1957. These tanks were apparently installed when the station first opened in 1940. The tanks were replaced by three 5,000-gallon leaded gasoline tanks and one 1,000-gallon waste-oil tank, all of single-wall steel construction.



1978 UST Removal and Installation: According to Shell's records, one 8,000-gallon and three 5,000-gallon steel USTs and one 1,000-gallon waste oil tank were removed in 1978. It is not clear from the available data when the 8,000-gallon tank was installed. The tanks were replaced by three 10,000-gallon fiberglass USTs for gasoline storage.

1989 Unauthorized Release: In September 1989, the Alameda County Department of Environmental Health received notification of an unauthorized release from a UST. The source of the release was reported as a slight weep at the piping connection to the submersible pump for a gasoline tank.

1990 Soil Borings: In January 1990, Harding Lawson Associates (HLA) drilled soil borings B-1 through B-6 to a depth of approximately 25 feet below grade (fbg). Up to 610 parts per million (ppm) total petroleum hydrocarbons as gasoline (TPHg), 5,900 ppm total petroleum hydrocarbons as diesel (TPHd), 110,000 ppm total petroleum hydrocarbons as motor oil, and 0.57 ppm benzene were detected in soil samples from borings B-3 and B-6. Petroleum hydrocarbon concentrations were near or below laboratory detection limits in soil samples collected from borings B-1, B-2, B-4, and B-5. Details of the investigation are included in HLA's April 13, 1990 *Quarterly Technical Report, First Quarter 1990*.

1990 Soil Boring and Well Installations: In February 1990, HLA drilled and installed groundwater monitoring wells MW-1 through MW-4 to a depth of 25 fbg. Up to 230 ppm TPHg and 1.1 ppm benzene were detected in soil samples collected from the MW-3 and MW-4 borings. Petroleum hydrocarbon concentrations were near or below laboratory detection limits in soil samples collected from the MW-2 boring. Details of the investigation and well installations are included in HLA's July 10, 1990 *Quarterly Technical Report, Second Quarter 1990*.

1991 Soil Boring and Well Installation: In August 1991, HLA installed monitoring well MW-5 to a depth of 28 fbg. Although 23 ppm of a petroleum mixture other than gasoline was detected in a soil sample from 16 feet, no benzene was detected in any samples collected. HLA's

October 10, 1991 *Quarterly Technical Report, Third Quarter 1991* documents the investigation and well installations.

1993 Soil Boring and Well Installation: In March 1993, Weiss Associates (WA) drilled soil borings BH-A through BH-E and converted boring BH-E into monitoring well MW-6. Up to 580 ppm TPHg, 0.42 ppm benzene, and 930 ppm petroleum oil and grease were detected in soil samples collected from borings BH-A, BH-C and BH-D. No petroleum hydrocarbons were detected in soil samples collected from boring BH-B, and only 3.5 ppm TPHd was detected in soil samples collected from boring BH-E (well MW-6). The report detailing this investigation is unavailable at this time.



Separate-Phase and Dissolved-Phase Hydrocarbon Removal: Weekly extraction of separate-phase hydrocarbons (SPH) and dissolved-phase hydrocarbons was initiated at this site in September 22 and November 10, 1999. Advanced Cleanup Technologies, Inc. of Benicia, California extracted SPH and groundwater from wells MW-3 and MW-4 with a vacuum truck. Beginning November 10, 1999, Blaine Tech Services, Inc. (Blaine) of San Jose, California took over the weekly purging events as the volume of groundwater and SPH removed each week was not sufficient to warrant using a vacuum truck. Due to the absence of SPH in MW-4, weekly purging events by Blaine were discontinued on June 8, 2000. No SPH was detected in the first quarter of 2001. SPH reappeared in the second and third quarters of 2001, and monthly extraction was resumed in December 2001. Monthly mobile groundwater extraction was restarted in December 2001 and has removed an approximate total of 2.2 pounds of hydrocarbons and 2.3 pounds of methyl tertiary butyl ether (MTBE) to date.

February 1998 Dispenser and Piping Upgrade Soil Sampling: In February 1998, Cambria collected soil samples for analysis during an upgrade of the site's four gasoline dispensers. The maximum hydrocarbon concentrations were detected in soil samples collected at Dispenser C. TPHg, TPHd, and benzene were detected at concentrations of 5,300 ppm, 420 ppm, and 10 ppm, respectively. Samples from the other dispenser locations contained significantly lower concentrations. Details of the soil sampling are included in Cambria's April 30, 1998 *Dispenser Soil Sampling Report*.

March 1998 Potential Receptor Survey: In March 1998, Cambria completed a potential receptor survey to identify sensitive groundwater receptors within a ½-mile radius of the site. Three surface water bodies and one potential receptor well were located within the study area. However, due to their distance and location upgradient and cross-gradient of the site, Cambria concluded that none would be impacted by hydrocarbons detected at the subject site. Survey details are included in Cambria's March 5, 1998 *Potential Receptor Survey Report*. Area well survey results are included on Figure 1.

August 2001 Site Conceptual Model (SCM) and Well Receptor Survey and Conduit Study: In 2001, Shell voluntarily instructed Cambria to prepare and submit an SCM and well receptor survey for the site. The receptor survey identified three surface water bodies and five potential receptor wells within a ½-mile radius of the site. Due to either their distance from the site or their location upgradient and cross-gradient of the site, it is unlikely that any of these wells would be impacted by hydrocarbons originating from the site. The conduit investigation findings indicated that there is potential for preferential pathway migration of petroleum hydrocarbons in existing horizontal utility trenches. Cambria's August 9, 2001 *Site Conceptual Model and Well Receptor Survey* report presents the SCM and details of the well receptor and conduit studies.



May 2004 Dispenser and Piping Upgrade Soil Sampling: In May 2004, Cambria collected soil samples for analysis during an upgrade of the site's fueling system. MTBE and benzene were not detected in any of the soil samples collected during the upgrade activities. TPHg was detected in only one sample (P-3-4'), at a concentration of 17 ppm. Cambria's July 7, 2004 *Dispenser and Piping Upgrade Sampling Report* documents the soil sampling.

September 2005 Subsurface Investigation: In September 2005, Cambria advanced six soil borings to assess subsurface conditions off-site and downgradient of the site and on site in the vicinity of the fuel dispensers and USTs. Borings SB-1, SB-3, SB-6 and SB-8 were advanced to 35 fbg, SB-7 to 45 fbg, and SB-2 to 50 fbg. Soil samples were collected every 5 feet for soil description, possible chemical analysis, and headspace analysis. TPHg was detected in nine soil samples, at concentrations up to 740 ppm. The hydrocarbon impact to soil in the area investigated was minimal and likely indicative of impacted groundwater.

Grab samples of the first-encountered groundwater were collected from each boring. TPHg was detected in five groundwater samples, at concentrations up to 43,000 parts per billion (ppb). Benzene was detected in SB-8 at a concentration of 170 ppb. MTBE was detected in all samples, at concentrations up to 340 ppb. Tertiary-butyl alcohol (TBA) was detected in five samples, at concentrations up to 3,400 ppb. Di-isopropyl ether (DIPE) was detected in two samples, with concentrations of 210 ppb and 380 ppb in samples from SB-2 and SB-8, respectively. EDB was detected in SB-7 at a concentration of 2.9 ppb. Details of the investigation are presented in Cambria's December 14, 2005 *Subsurface Investigation Report*.

PROPOSED SCOPE OF WORK

As proposed in the December 14, 2005 *Subsurface Investigation Report*, Cambria will install one shallow groundwater monitoring well (MW-7) to an approximate total depth of 35 fbg. The proposed well location is shown on Figure 2. The well installation will be completed as

described in Cambria's Standard Field Procedures for Installing Monitoring Wells (Attachment B). Following ACHCSA approval of this work plan, Cambria will complete the following tasks:

Utility Location: Cambria will notify Underground Service Alert (USA) of our proposed drilling activities. USA will have the utilities in the vicinity identified. Additionally, a private utility locator will be used to identify subsurface obstacles to drilling.

Site Health and Safety Plan: Pursuant to OSHA requirements, Cambria will prepare a comprehensive site safety plan to protect site workers. The plan will be kept on site during field activities and will be reviewed and signed by each site worker.

Permits: Cambria will obtain permits required for drilling and installing the monitoring well.

Site Investigation: As a result of the hydrocarbon impact to groundwater detected in boring SB-2 during the September 2005 subsurface investigation, one boring will be drilled using a hollow-stem auger and converted to a groundwater monitoring well. Well MW-7 will be installed downgradient of the westernmost dispenser island, a suspected source of hydrocarbon impacts to groundwater (see Figure 2).

Groundwater was first encountered in boring SB-2 at approximately 30 fbg, in an interval of sandy silt with gravel that began at approximately 28 fbg. The grab groundwater sample collected at 30 fbg contained 9,900 ppb of TPHg, 110 ppb of MTBE, and 210 ppb of DIPE. Due to the lack of sample recovery between 30 and 35 fbg, it is not known to what depth the sandy silt with gravel interval extends but a clay interval was encountered beginning at 35 fbg. Proposed well MW-7 is intended to monitor the impacted interval between approximately 28 and 35 fbg.

A Cambria geologist will supervise the drilling, and the boring will be continuously logged to provide detailed lithologic profiles. Cambria will prepare a boring log for the well and record photo-ionization detector measurements on the boring logs.

Monitoring Well Installation: The boring will be completed to approximately 35 fbg. The well will be constructed using 4-inch diameter Schedule 40 PVC casing with an approximate screened interval from 25 fbg to 35 fbg. The filter pack will be placed from the bottom of the well screen up to 2 feet above the top of the well screen followed by a 2-foot-thick bentonite seal and cement grout to grade. Actual well construction details will be based on soil types and field conditions encountered during drilling. The well will be secured with a locking cap under a traffic-rated well box.

Well Development and Sampling: Upon waiting at least 72-hours after installation, Blaine Tech will develop the new groundwater monitoring well. Monitoring wells at the site are currently

sampled during the first month of each quarter. Depending on when the well installation and development is completed, Blaine will either sample the new monitoring well 72-hours after the completion of development, or the well will be added to the existing monitoring well network and sampled during the next scheduled sampling event.

Chemical Analyses: A state-certified analytical laboratory will analyze the groundwater sample for TPHg, BTEX, TBA, DIPE, ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), and MTBE using EPA Method 8260B.

Wellhead Survey Activities: Following monitoring well installation, a licensed surveyor will survey the wellhead elevation relative to mean sea level and the well's latitude and longitude.

Report Preparation: Within 60 days following the well installation, or the receipt of groundwater analytical results from the laboratory if the well is sampled immediately, Cambria will prepare a written report which will include field procedures, laboratory results, and a boring log that includes well construction details.

Cambria will perform the scope of work described in this work plan under the supervision of a professional geologist or engineer.

SCHEDULE

Cambria is prepared to begin work upon written approval of this work plan by ACHCSA and receipt of the drilling permit.

CLOSING

If you have any questions regarding the scope of work outlined in this work plan, please call David Gibbs at (510) 420-3363.

Sincerely,
Cambria Environmental Technology, Inc.



David M. Gibbs, P.G.
Project Geologist

Aubrey K. Cool, P.G.
Senior Project Geologist



Figures: 1 - Vicinity/Area Well Survey Map
 2 - Proposed Monitoring Well Location

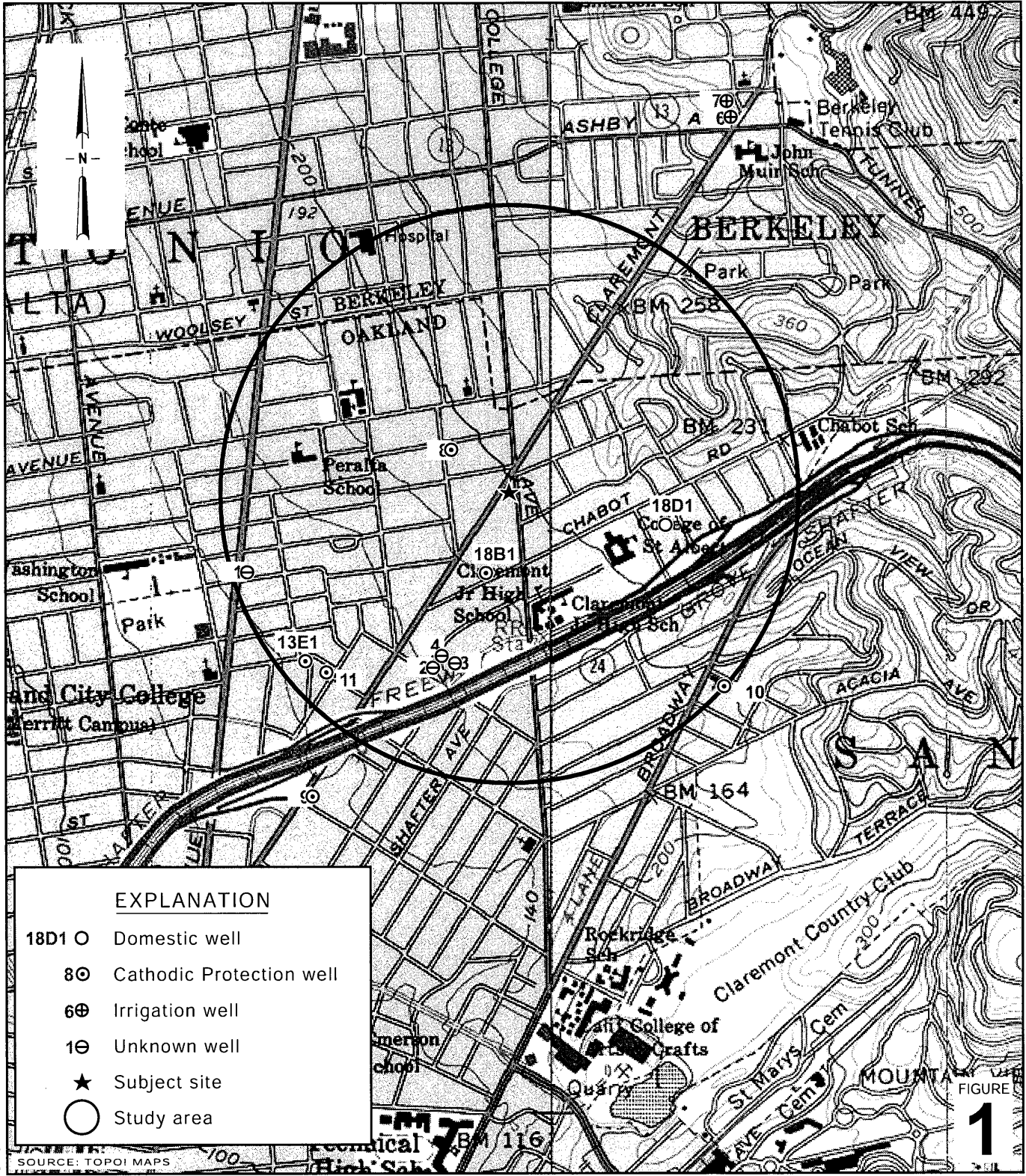
Tables: 1 - Well Construction Data
 2 - Historical Soil Analytical Results
 3 - Historical Groundwater Analytical Data

Attachments: A - Geologic Cross-sections
 B - Well Concentration Table
 C - Standard Field Procedures for Installing Monitoring Wells

cc: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810
 Russell J. Bruzzone, Inc., 899 Hope Lane, Lafayette, CA 94549
 Montrose Investment Co., 242 Rivera Circle, Greenbrae Marina, Larkspur, CA 94939
 Attn: Jim Graham
 Claremont Enterprises, Attn. Miriam Clark, 6013 Auburn Ave., Oakland, CA 94618

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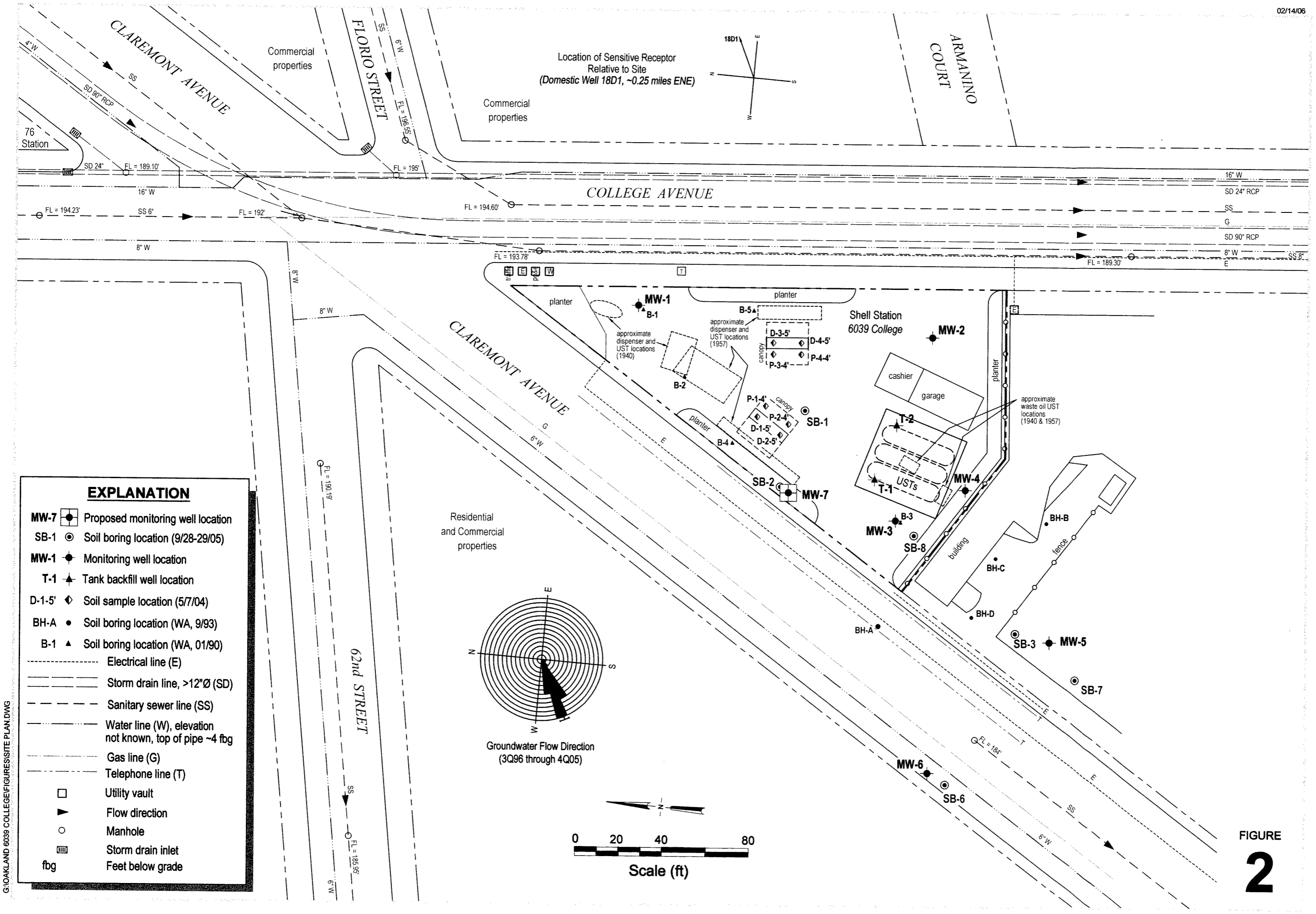


Shell-branded Service Station
 6039 College Avenue
 Oakland, California
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Vicinity / Area Well Survey Map
 1/2 Mile Radius

FIGURE 1



Proposed Monitoring Well Location



C A M B R I A

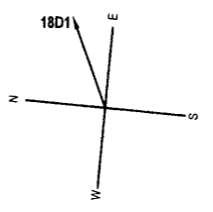
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FIGURE 2

G:\OAKLAND 6039 COLLEGE\FIGURES\SITE PLAN.DWG

Location of Sensitive Receptor
Relative to Site
(Domestic Well 18D1, ~0.25 miles ENE)



CLAREMONT AVENUE

COLLEGE AVENUE

ARMANNINO COURT

62nd STREET

Shell Station
6039 College

Residential
and Commercial
properties

Commercial
properties

Commercial
properties

approximate
waste oil UST
locations
(1940 & 1957)

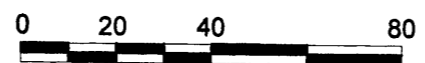
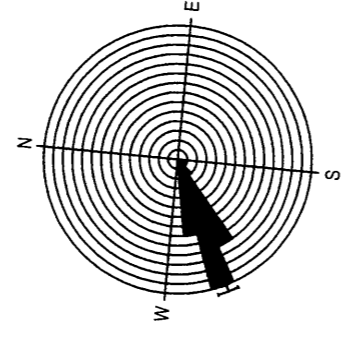
approximate
dispenser and
UST locations
(1940)

approximate
dispenser and
UST locations
(1957)

building

cashier
garage

fence



Scale (ft)

Table 1. Well Construction Data, Shell-branded Service Station, 6039 College Avenue, Oakland, CA, Incident #98995745

Name	Type	Date	TOC	Total	Borehole	Screen Depth (fbg)		Slot Size	Filter Pack (fbg)		Filter Pack	Seal Depth (fbg)		Grout Interval (fbg)	
		Installed	Elev (ft msl)	Depth (fbg)	Diameter (in)	Top	Bottom	(in)	Top	Bottom	Material	Top	Bottom	Top	Bottom
MW-1	Monitoring Well	2/8/1990	200.56	25	12	14.5	24.5	0.020	13	24.5	Monterey #3 sand	11	13	0	11
MW-2	Monitoring Well	2/8/1990	198.95	25	12	14.5	24.5	0.020	13	25	Monterey #3 sand	11	13	0	11
MW-3	Monitoring Well	2/7/1990	197.18	25	12	14.5	24.5	0.020	13	25	Monterey #3 sand	11	13	0	11
MW-4	Monitoring Well	2/7/1990	198.03	25	12	14.5	24.5	0.020	13	25	Monterey #3 sand	11	13	0	11
MW-5	Monitoring Well	8/26/1991	195.01	30	12	13.5	28.5	0.020	11.5	30	Monterey #3 sand	9.5	11.5	0	9.5
MW-6	Monitoring Well	9/10/1993	193.75	25	9	10	24.5	0.020	8	25	Monterey #3 sand	7	8	0	7

Abbreviations:

TOC = Top of casing

ft msl = Feet referenced to mean sea level

fbg = feet below grade

ft = Feet

in = Inches

Table 2. Historical Soil Analytical Data - Shell-branded Service Station, 6039 College Avenue, Oakland, CA, Incident #98995745

Sample ID	Date	Depth (fbg)	TPHg	TPHd	TPHmo	Oil and Grease	Benzene	Toluene	Ethyl- benzene	Total Xylenes	(parts per million)								
											MTBE	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	Ethanol	Lead
<i>1990 Soil Borings</i>																			
B-1	1/4/1990	22.5	8.1	--	--	--	<0.0050	<0.1	<0.1	<0.1	--	--	--	--	--	--	--	--	--
B-2	1/5/1990	18	130	--	--	--	0.62	<0.1	0.48	1.2	--	--	--	--	--	--	--	--	--
B-2	1/5/1990	24	1.8	--	--	--	<0.0050	<0.1	<0.1	<0.1	--	--	--	--	--	--	--	--	--
B-3	1/5/1990	19	610	5,900	110,000	810	0.24	0.18	4.1	9.8	--	--	--	--	--	--	--	--	13
B-3	1/5/1990	21	71	750	14,000	380	0.19	<0.1	0.53	0.68	--	--	--	--	--	--	--	--	7.6
B-4	1/4/1990	18.5	170	--	--	--	0.57	0.11	0.65	1.3	--	--	--	--	--	--	--	--	--
B-4	1/4/1990	25	<1	--	--	--	<0.0050	<0.1	<0.1	<0.1	--	--	--	--	--	--	--	--	--
B-5	1/4/1990	22	<1	--	--	--	<0.0050	<0.1	<0.1	<0.1	--	--	--	--	--	--	--	--	--
B-5	1/4/1990	23	4.4	--	--	--	<0.0050	<0.1	<0.1	<0.1	--	--	--	--	--	--	--	--	--
B-6	1/5/1990	19.5	260	--	12,000	1,100	0.28	<0.1	1.3	2.1	--	--	--	--	--	--	--	--	8.1
B-6	1/5/1990	22.5	<1	--	320	91	<0.0050	<0.1	<0.1	<0.1	--	--	--	--	--	--	--	--	9.2
<i>1990 Soil Boring and Well Installations</i>																			
MW-2	2/8/1990	11	<1	<1	<10	--	<0.0050	<0.1	<0.1	<0.1	--	--	--	--	--	--	--	--	--
MW-2	2/8/1990	15.5	<1	<1	<1	--	<0.0050	<0.1	<0.1	<0.1	--	--	--	--	--	--	--	--	--
MW-2	2/8/1990	20.5	<1	1.1	<10	--	<0.0050	<0.1	<0.1	<0.1	--	--	--	--	--	--	--	--	--
MW-3	2/7/1990	10	12	4.4	<10	--	<0.0050	<0.1	<0.1	0.11	--	--	--	--	--	--	--	--	--
MW-3	2/7/1990	15.5	230	200	1,800	--	1.1	0.7	3.1	1.9	--	--	--	--	--	--	--	--	--
MW-3	2/7/1990	20.5	28	9.9	<10	--	<0.0050	<0.1	<0.1	<0.1	--	--	--	--	--	--	--	--	--
MW-4	2/7/1990	10.5	<1	1.2	<1	--	<0.0050	<0.1	<0.1	<0.1	--	--	--	--	--	--	--	--	--
MW-4	2/7/1990	15.5	140	61	6,400	--	0.31	0.34	0.92	2.60	--	--	--	--	--	--	--	--	--
MW-4	2/7/1990	20.5	72	2,200	46,000	--	0.06	<0.1	0.46	0.57	--	--	--	--	--	--	--	--	--
<i>1991 Soil Boring and Well Installation</i>																			
MW-5	8/24/1991	6	<1	<1.2	<12	--	<0.0050	0.005	<0.00	<0.0050	--	--	--	--	--	--	--	--	--
MW-5	8/24/1991	16	23 ^a	7 ^c	13	--	<0.0050	<0.0050	0.02	0.1	--	--	--	--	--	--	--	--	--
MW-5	8/24/1991	21	<1	<1.2	<12	--	<0.0050	<0.0050	<0.00	<0.0050	--	--	--	--	--	--	--	--	--

Table 2. Historical Soil Analytical Data - Shell-branded Service Station, 6039 College Avenue, Oakland, CA, Incident #98995745

Sample ID	Date	Depth (fbg)	TPHg	TPHd	TPHmo	Oil and Grease		Benzene	Toluene	Ethyl-benzene	Total Xylenes (parts per million)								Ethanol	Lead
						MTBE	TBA				DIPE	ETBE	TAME	1,2-DCA	EDB					
<i>1993 Soil Boring and Well Installation</i>																				
BH-A	9/9/1993	6	<1	--	--	--	<0.0025	<0.002	<0.00	<0.0025	--	--	--	--	--	--	--	--	--	
BH-A	9/9/1993	11	28^a	11^c	--	<50	<0.0025	<0.002	<0.00	<0.0025	--	--	--	--	--	--	--	--	--	
BH-A	9/9/1993	16	130	27^c	--	<50	<0.025	<0.0025	1.4	0.51	--	--	--	--	--	--	--	--	--	
BH-B	9/9/1993	11	<1	--	--	--	<0.0025	<0.002	<0.00	<0.0025	--	--	--	--	--	--	--	--	--	
BH-B	9/9/1993	15.7	<1	<1	--	<50	<0.0025	<0.002	<0.00	<0.0025	--	--	--	--	--	--	--	--	--	
BH-C	9/10/1993	10.7	<1	--	--	--	<0.0025	<0.002	<0.00	<0.0025	--	--	--	--	--	--	--	--	--	
BH-C	9/10/1993	15.7	580^a	4,900^c	--	930	<0.125	<0.125	<0.12	<0.125	--	--	--	--	--	--	--	--	--	
BH-C	9/10/1993	20.7	<1	--	--	--	<0.0025	<0.002	<0.00	<0.0025	--	--	--	--	--	--	--	--	--	
BH-D	9/10/1993	10.7	6.8^a	8.9^c	--	<50	<0.0025	<0.002	<0.00	<0.0025	--	--	--	--	--	--	--	--	--	
BH-D	9/10/1993	15.7	150	55	--	69	0.42	<0.0025	<0.02	<0.025	--	--	--	--	--	--	--	--	--	
BH-D	9/10/1993	20.7	5.6	2.9^c	--	<50	<0.0025	0.007	0.01	<0.0025	--	--	--	--	--	--	--	--	--	
BH-E (MW-6)	9/10/1993	10.7	<1	--	--	--	<0.0025	<0.0025	<0.00	<0.0025	--	--	--	--	--	--	--	--	--	
BH-E (MW-6)	9/10/1993	15.7	<1	3.5^c	--	<50	<0.0025	<0.0025	<0.00	<0.0025	--	--	--	--	--	--	--	--	--	
<i>1998 Dispenser and Piping Upgrade Soil Sampling</i>																				
Disp-A-2.0'	2/12/1998	2.0	3.2	--	--	--	0.016	0.045	< 0.0050	0.0072	< 0.10	--	--	--	--	--	--	--	--	
Disp-A-4.0'	2/12/1998	4.0	53	--	--	--	< 0.025	< 0.025	< 0.025	< 0.025	NA	--	--	--	--	--	--	--	--	
Disp-B-2.0'	2/12/1998	2.0	1.2	--	--	--	< 0.0050	0.011	< 0.0050	< 0.0050	< 0.10	--	--	--	--	--	--	--	--	
Disp-B-4.0'	2/12/1998	4.0	< 1.0	--	--	--	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA	--	--	--	--	--	--	--	--	
Disp-C-2.0'	2/12/1998	2.0	1,900	--	--	--	10	190	42	260	240	--	--	--	--	--	--	--	--	

Table 2. Historical Soil Analytical Data - Shell-branded Service Station, 6039 College Avenue, Oakland, CA, Incident #98995745

Sample ID	Date	Depth (fbg)	TPHg	TPHd	TPHmo	Oil and			Ethyl- benzene	Total							Lead		
						Grease	Benzene	Toluene		Xylenes	MTBE	TBA	DIPE	ETBE	TAME	1,2-DCA		EDB	Ethanol
Disp-C-4.0'	2/12/1998	4.0	5,300	--	--	--	< 2.5	5.0	26	250	NA	--	--	--	--	--	--	--	--
Disp-D-2.0'	2/12/1998	2.0	31	--	--	--	< 0.025	0.035	< 0.025	0.17	0.69	--	--	--	--	--	--	--	--
Disp-D-4.0'	2/12/1998	4.0	6.3	--	--	--	0.011	0.013	< 0.010	< 0.010	0.13	--	--	--	--	--	--	--	--
2004 Dispenser and Piping Upgrade Soil Sampling																			
D-1-5'	5/7/2004	5.0	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--
D-2-5'	5/7/2004	5.0	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--
D-3-5'	5/7/2004	5.0	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--
D-4-5'	5/7/2004	5.0	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--
P-1-4'	5/7/2004	4.0	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--
P-2-4'	5/7/2004	4.0	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--
P-3-4'	5/7/2004	4.0	17^a	--	--	--	<0.022	<0.022	<0.022	<0.022	<0.022	--	--	--	--	--	--	--	--
P-4-4'	5/7/2004	4.0	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--
2005 Subsurface Investigation																			
SB-1-5.0	9/29/2005	5.0	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	0.015	<0.0050	0.090	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	0.53	--
SB-1-9.5	9/29/2005	9.5	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	0.28	0.53	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.50	--
SB-1-14.5	9/29/2005	14.5	7.3^a	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	0.035	0.053	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.50	--
SB-1-19.5	9/29/2005	19.5	96^a	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	--
SB-1-23.5	9/29/2005	23.5	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--
SB-1-29.5	9/29/2005	29.5	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1 ^b	--
SB-2-9.5	9/29/2005	9.5	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.50	--
SB-2-14.5	9/29/2005	14.5	8.4^a	--	--	--	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	<0.50	--

Table 2. Historical Soil Analytical Data - Shell-branded Service Station, 6039 College Avenue, Oakland, CA, Incident #98995745

Sample ID	Date	Depth (fbg)	TPHg	TPHd	TPHmo	Oil and			Ethyl- benzene	Total Xylenes	Total						Ethanol	Lead	
						Grease	Benzene	Toluene			MTBE	TBA	DIPE	ETBE	TAME	1,2-DCA			EDB
SB-2-19.5	9/29/2005	19.5	14 ^a	--	--	--	<0.024	<0.024	<0.024	<0.024	<0.024	<0.049	<0.049	<0.024	<0.024	<0.024	<0.024	<0.49	--
SB-2-23.5	9/29/2005	23.5	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	0.0087	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.50	--
SB-2-29.5	9/29/2005	29.5	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.50	--
SB-3-14.5	9/28/2005	14.5	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.32	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--
SB-3-17.0	9/28/2005	17.0	370 ^a	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<2.5	<0.50	<0.50	<0.50	<0.50	<25	--
SB-3-20.5	9/28/2005	20.5	9.7 ^a	--	--	--	<0.023	<0.023	<0.023	<0.023	<0.023	0.30	<0.045	<0.023	<0.023	<0.023	<0.023	<0.45	--
SB-6-9.5	9/28/2005	9.5	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--
SB-6-17.5	9/28/2005	17.5	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.013	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--
SB-7-9.5	9/28/2005	9.5	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--
SB-7-14.5	9/28/2005	14.5	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.041	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--
SB-7-17.0	9/28/2005	17.0	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--
SB-8-9.5	9/29/2005	9.5	<1.0	--	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--
SB-8-14.5	9/29/2005	14.5	460 ^a	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	--
SB-8-19.5	9/29/2005	19.5	740 ^a	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	--
SB-8-22.0	9/29/2005	22.0	<50	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	--

Notes and Abbreviations:

fbg = feet below grade

<x = Not detected at detection limit x

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B

Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B

MTBE = methyl tertiary butyl ether analyzed by EPA Method 8260B

TBA= tert-Butyl alcohol analyzed by EPA Method 8260B

DIPE=di-isopropyl ether analyzed by EPA Method 8260B

ETBE= Ethyl tert butyl ether analyzed by EPA Method 8260B

TAME= tert amyl methyl ether analyzed by EPA Method 8260B

1,2-DCA = 1,2-dichloroethane

EDB = 1,2-dibromomethane

Table 2. Historical Soil Analytical Data - Shell-branded Service Station, 6039 College Avenue, Oakland, CA, Incident #98995745

Sample ID	Date	Depth (fbg)	TPHg	TPHd	TPHmo	Oil and			Ethyl-	Total							Lead	
						Grease	Benzene	Toluene	benzene	Xylenes	MTBE	TBA	DIPE	ETBE	TAME	1,2-DCA		EDB
															(parts per million)			

Ethanol by EPA Method 8260B

- a = Quantity of unknown hydrocarbon(s) in sample based on gasoline.
- b = Analyzed out of hold time.
- c = Not characteristic of standard diesel pattern

Table 3. Historical Groundwater Analytical Data - Shell-branded Service Station, 6039 College Avenue, Oakland, CA, Incident #98995745

Sample ID	Date	TPHg	TPHd	Oil and Grease	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	Ethanol
1993 Soil Boring and Well Installation																
BH-A	9/9/1993	4,900	2,900 ^c	<5,000	18	<5	54	11	--	--	--	--	--	--	--	--
BH-B	9/9/1993	<50	150	<5,000	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
BH-C	9/10/1993	640 ^d	100	<5,000	3.5	<0.5	0.6	<0.5	--	--	--	--	--	--	--	--
BH-D	9/10/1993	24,000 ^b	25,000 ^c	20,000	720	86	44	11	--	--	--	--	--	--	--	--
2005 Subsurface Investigation																
SB-3-W	9/28/2005	2,700	--	--	<0.50	<0.50	<0.50	<1.0	4.0	3,400	<2.0	<2.0	<2.0	<0.50	<0.50	<50
SB-6-W ^a	9/28/2005	71	--	--	<0.50	0.81	<0.50	<1.0	3.8	370	<2.0	<2.0	<2.0	<0.50	<0.50	<50
SB-7-W	9/28/2005	<500	--	--	<0.50	<0.50	1.4	<1.0	1.3	65	<2.0	<2.0	<2.0	<0.50	2.9	<50
SB-1-W	9/29/2005	290	--	--	<0.50	0.86	0.63	2.2	4.0	5.4	<2.0	<2.0	<2.0	<0.50	<0.50	<50
SB-2-W	9/29/2005	9,900	--	--	<20	<20	91	<40	110	<200	210	<80	<80	<20	<20	<2,000
SB-8-W	9/29/2005	43,000	--	--	170	<10	15	34	340	180	380	<40	<40	<10	<10	<5,000

Notes and Abbreviations:

--' = not analyzed

<x = Not detected at detection limit x

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B

Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B

MTBE = methyl tertiary butyl ether analyzed by EPA Method 8260B

TBA = tert-Butyl alcohol analyzed by EPA Method 8260B

DIPE = di-isopropyl ether analyzed by EPA Method 8260B

ETBE = Ethyl tert butyl ether analyzed by EPA Method 8260B

TAME = tert amyl methyl ether analyzed by EPA Method 8260B

1,2-DCA = 1,2-dichloroethane

EDB = 1,2-dibromomethane

Ethanol by EPA Method 8260B

Table 3. Historical Groundwater Analytical Data - Shell-branded Service Station, 6039 College Avenue, Oakland, CA, Incident #98995745

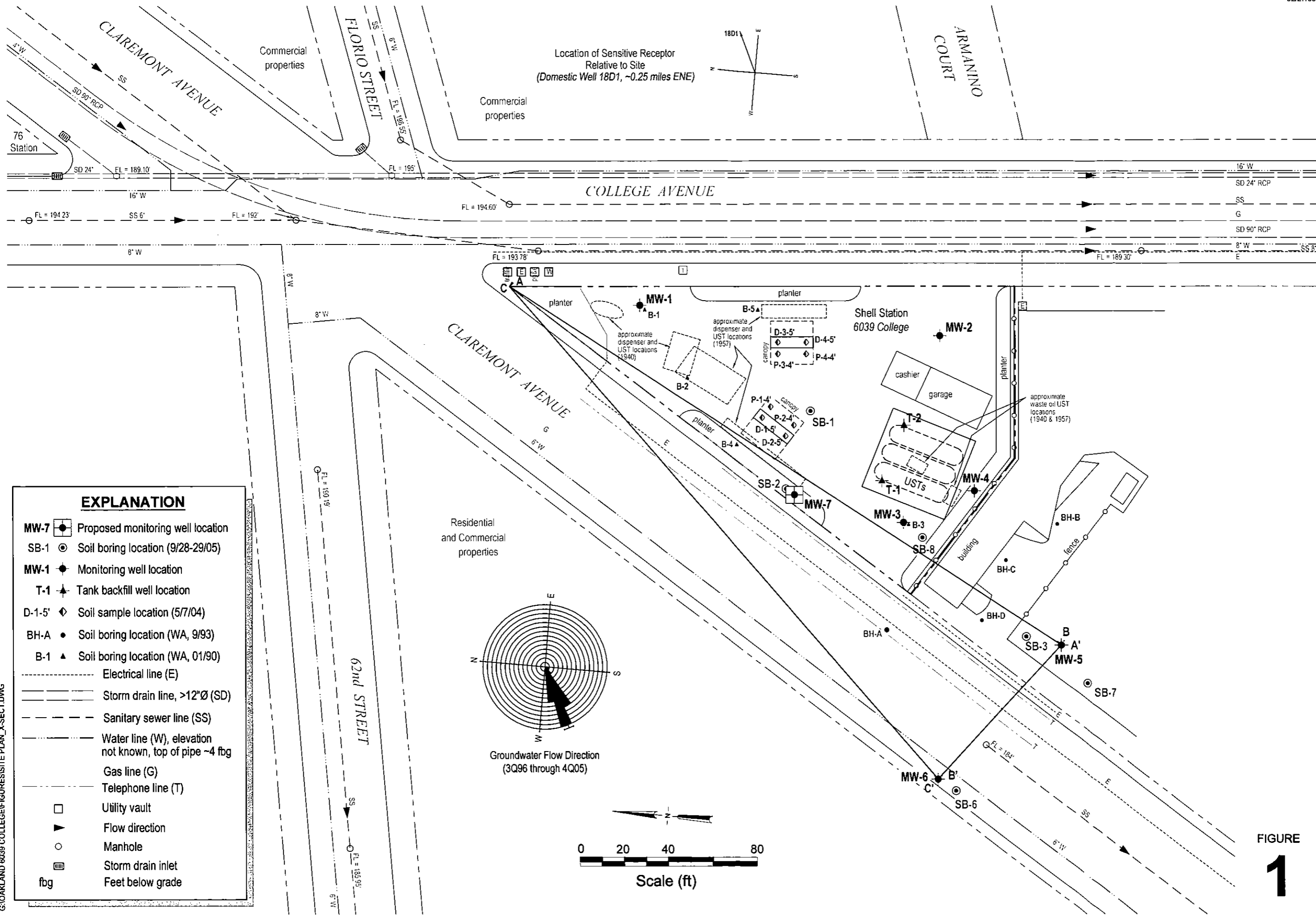
Sample ID	Date	TPHg	TPHd	Oil and Grease	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	Ethanol
		← (parts per billion) →														

a = Extracted out of hold time

b = Atypical gasoline pattern

c = Not characteristic of standard diesel pattern

ATTACHMENT A
Geologic Cross-sections



G:\OAKLAND\6039 COLLEGE\FIGURES\SITE PLAN_X-SECT.DWG

EXPLANATION

- MW-7 Proposed monitoring well location
- SB-1 Soil boring location (9/28-29/05)
- MW-1 Monitoring well location
- T-1 Tank backfill well location
- D-1-5' Soil sample location (5/7/04)
- BH-A Soil boring location (WA, 9/93)
- B-1 Soil boring location (WA, 01/90)
- Electrical line (E)
- Storm drain line, >12"Ø (SD)
- Sanitary sewer line (SS)
- Water line (W), elevation not known, top of pipe ~4 fbg
- Gas line (G)
- Telephone line (T)
- Utility vault
- Flow direction
- Manhole
- Storm drain inlet
- Feet below grade

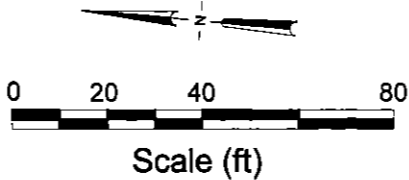
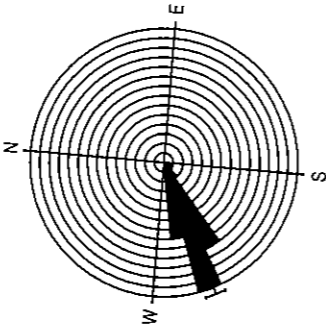


FIGURE
1

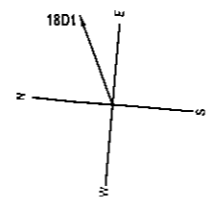
Shell-branded Service Station

6039 College Avenue
Oakland, California
Incident No. 98995745

C A M B R I A



Location of Sensitive Receptor
Relative to Site
(Domestic Well 18D1, ~0.25 miles ENE)

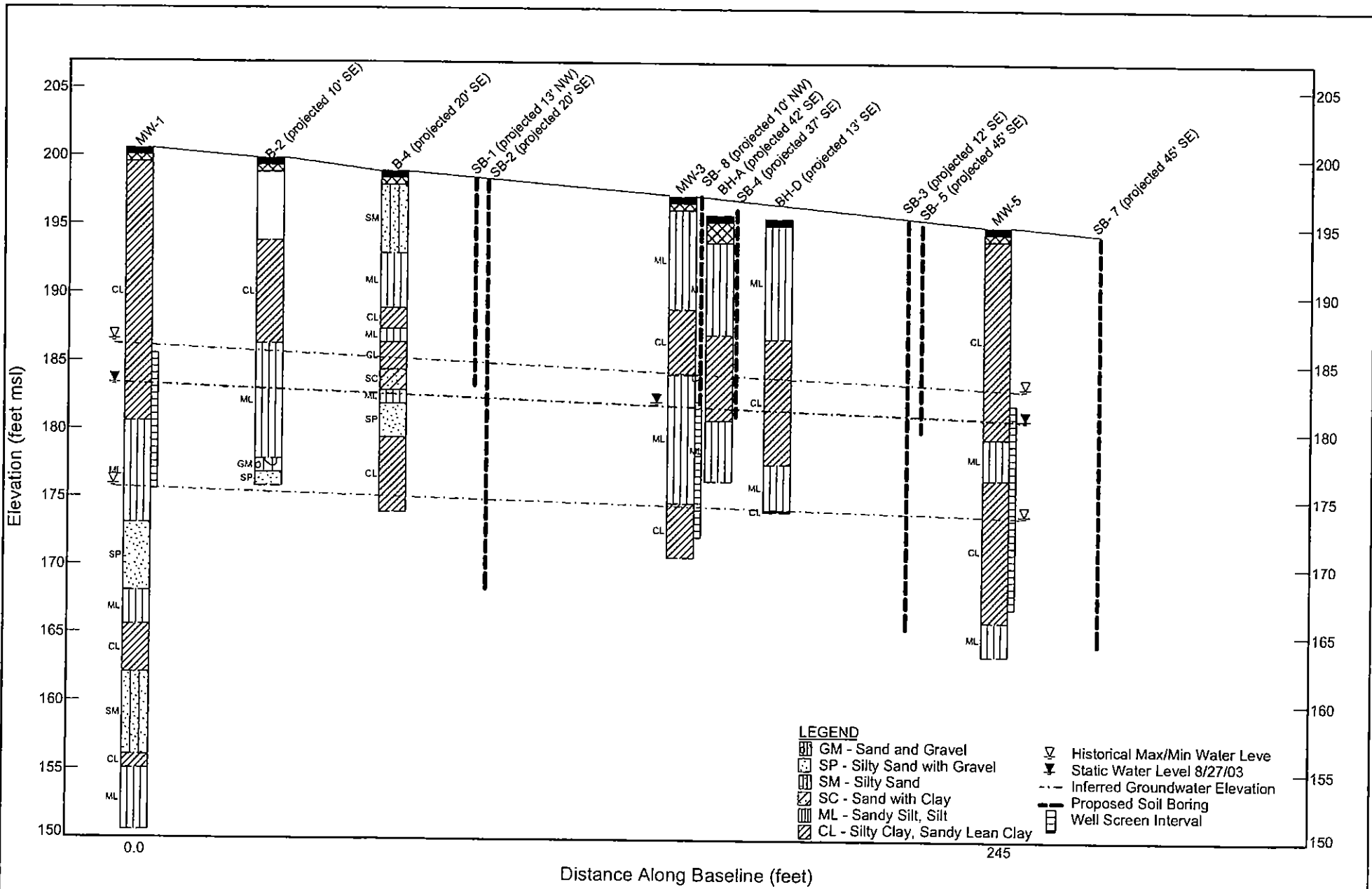


76
Station

Shell Station
6039 College

C A M B R I A

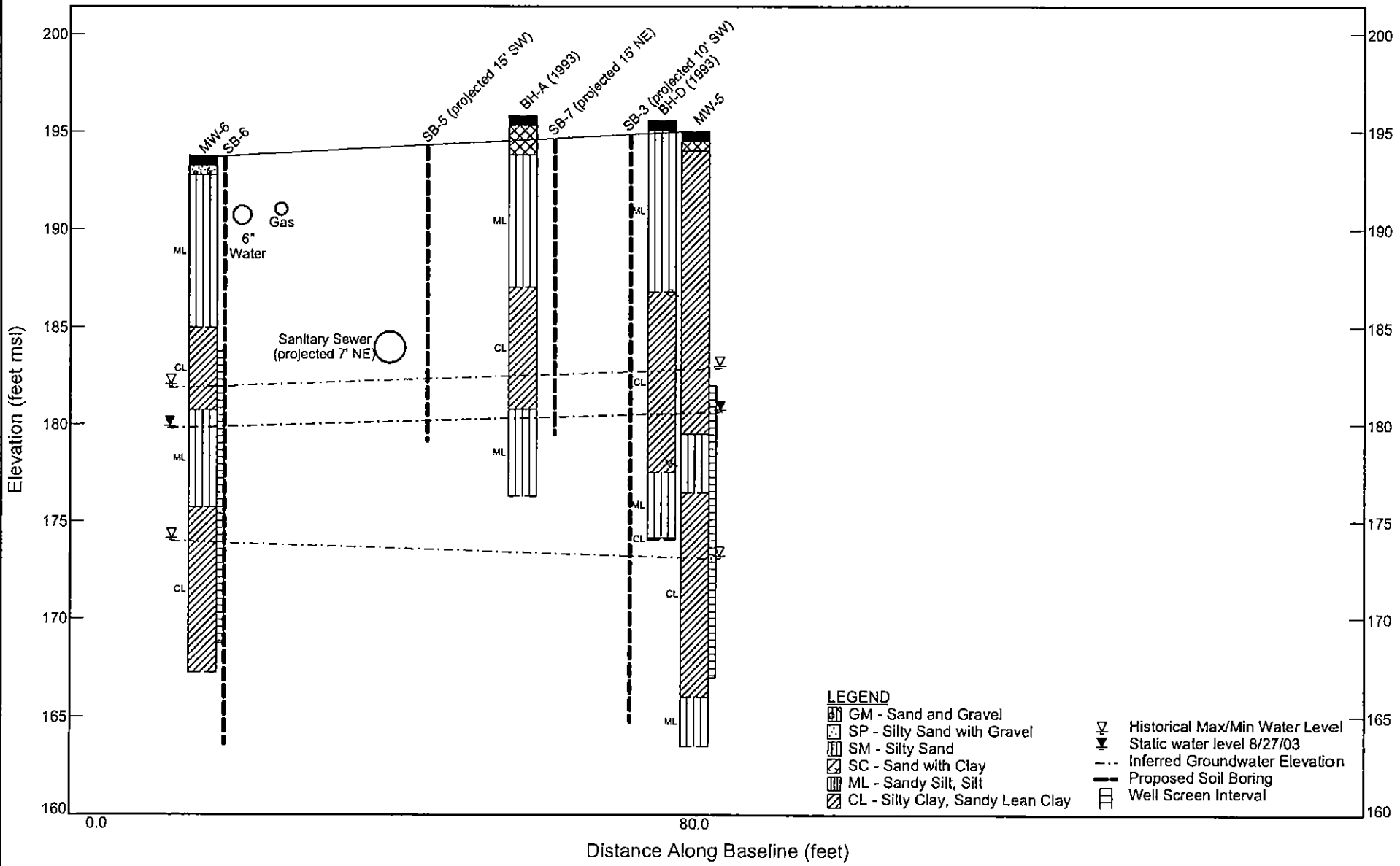
X-SECTION G:\OAKLAND\6039 COLLEGE\GINT\6039 COLLEGE OAKLAND.GPJ DEFAULT.GDT 10/30/03



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

Shell Oil Products US
 6039 College Avenue, Oakland
 CROSS SECTION A-A'
 FIGURE 2

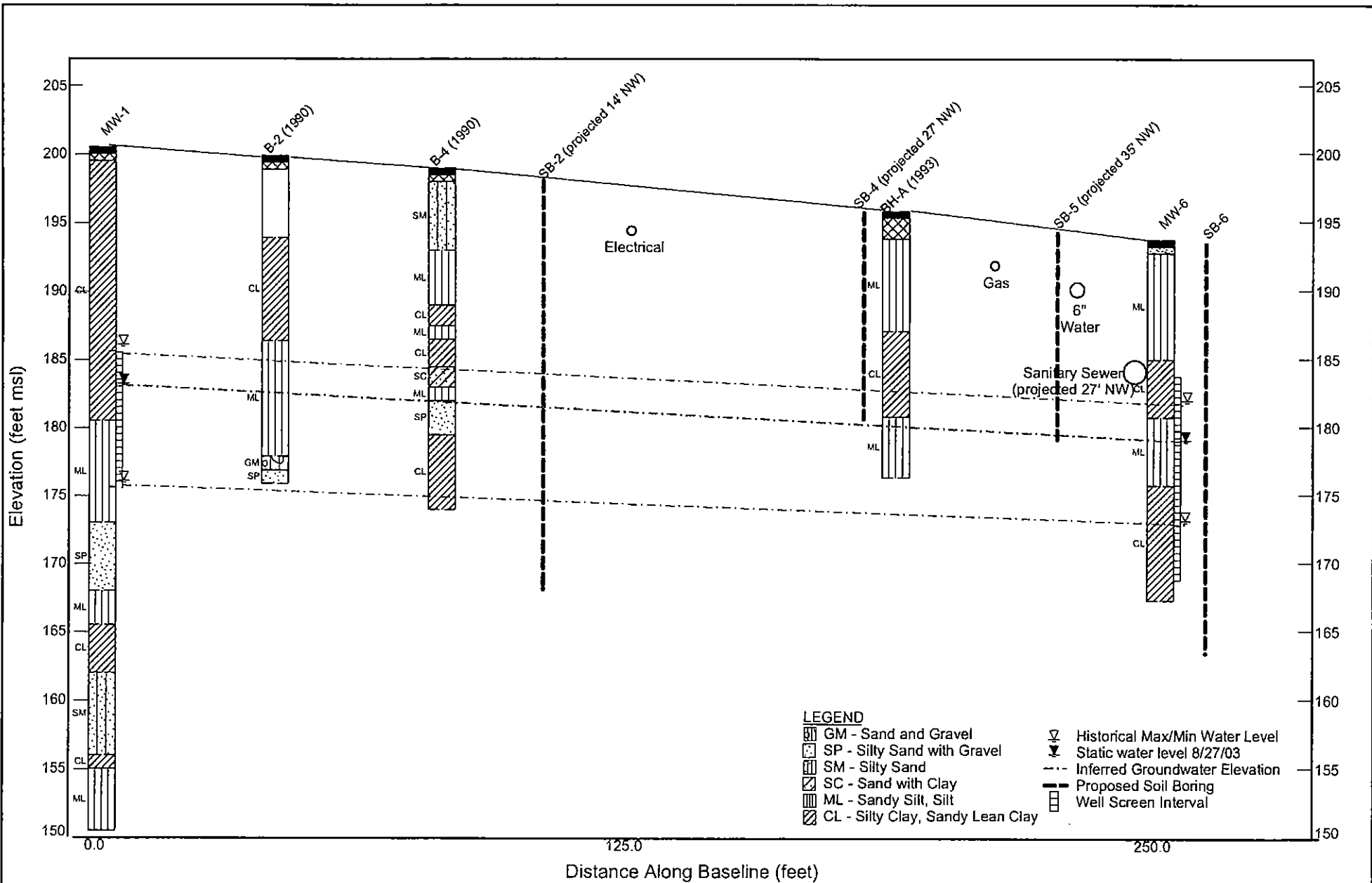
X-SECTION G:\OAKLAND 6039 COLLEGE\GINT\6039 COLLEGE OAKLAND.GPJ DEFAULT.GDT 11/18/03



Cambria Environmental Technology, Inc.
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Shell Oil Products US
 6039 College Avenue, Oakland
 B-B'
 FIGURE 3

SECTION G:\OAKLAND_6039 COLLEGE\GINT\6039 COLLEGE OAKLAND.GPJ DEFAULT.GDT 11/18/03



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Shell Oil Products US
 6039 College Avenue, Oakland
 C-C'
 FIGURE 4

ATTACHMENT B

Well Concentration Table

WELL CONCENTRATIONS
Shell-branded Service Station
6039 College Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2 DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-1	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	195.89	13.32	NA	182.57	NA	NA
MW-1	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	195.89	14.01	NA	181.88	NA	NA
MW-1	02/03/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	195.89	15.62	NA	180.27	NA	NA
MW-1	06/04/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	195.89	14.72	NA	181.17	NA	NA
MW-1	08/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	195.89	17.00	NA	178.89	NA	NA
MW-1	12/10/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	195.89	18.36	NA	177.53	NA	NA
MW-1	02/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	195.89	15.09	NA	180.80	NA	NA
MW-1	05/04/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	195.89	12.97	NA	182.92	NA	NA
MW-1	08/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	195.89	15.02	NA	180.87	NA	NA
MW-1	11/30/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	195.89	12.90	NA	182.99	NA	NA
MW-1	02/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	195.89	14.28	NA	181.61	NA	NA
MW-1	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	195.89	16.04	NA	179.85	NA	NA
MW-1	07/30/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	195.89	17.53	NA	178.36	NA	NA
MW-1	12/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	195.89	14.79	NA	181.10	NA	NA
MW-1	01/31/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	195.89	13.71	NA	182.18	NA	NA
MW-1	05/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	195.89	15.63	NA	180.26	NA	NA
MW-1	07/25/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	195.89	17.08	NA	178.81	NA	NA
MW-1	11/26/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200.56	19.30	NA	181.26	NA	NA
MW-1	01/29/2003	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	200.56	13.90	NA	186.66	NA	NA
MW-1	06/03/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200.56	15.30	NA	185.26	NA	NA
MW-1	08/27/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200.56	17.32	NA	183.24	NA	NA
MW-1	11/13/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200.56	18.61	NA	181.95	NA	NA
MW-1	02/05/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	<5.0	NA	NA	200.56	14.46	NA	186.10	NA	NA
MW-1	05/03/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200.56	14.52	NA	186.04	NA	NA
MW-1	08/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200.56	16.73	NA	183.83	NA	NA
MW-1	11/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200.56	16.86	NA	183.70	NA	NA
MW-1	02/02/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	<5.0	NA	NA	200.56	12.82	NA	187.74	NA	NA
MW-1	05/09/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200.56	12.20	NA	188.36	NA	NA
MW-1	08/16/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200.56	15.25	NA	185.31	NA	NA
MW-1	11/16/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200.56	17.44	NA	183.12	NA	NA
MW-2	02/15/1990	ND	560	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	16.90	NA	177.37	NA	NA
MW-2	04/19/1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	17.69	NA	176.58	NA	NA
MW-2	05/14/1990	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	18.01	NA	176.26	NA	NA
MW-2	06/21/1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	17.39	NA	176.88	NA	NA
MW-2	09/12/1990	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	19.00	NA	175.27	NA	NA
MW-2	11/27/1990	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	19.44	NA	174.83	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
6039 College Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2 DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-2	03/08/1991	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	15.96	NA	178.31	NA	NA
MW-2	06/03/1991	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	17.00	NA	177.27	NA	NA
MW-2	08/30/1991	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	18.95	NA	175.32	NA	NA
MW-2	11/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	19.55	NA	174.72	NA	NA
MW-2	03/18/1992	<30	NA	<0.3	<0.3	<0.3	<0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	12.91	NA	181.36	NA	NA
MW-2	05/28/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	16.25	NA	178.02	NA	NA
MW-2	08/19/1992	<50	NA	<0.5	2	1.2	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	18.21	NA	176.06	NA	NA
MW-2	11/17/1992	<50	NA	<0.5	2	1.2	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	19.15	NA	175.12	NA	NA
MW-2	02/12/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	11.60	NA	182.67	NA	NA
MW-2	06/10/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	14.14	NA	180.13	NA	NA
MW-2	08/18/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	16.10	NA	178.17	NA	NA
MW-2	11/19/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	18.77	NA	175.50	NA	NA
MW-2	02/28/1994	<50	NA	<0.5	<0.5	<0.5	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	14.35	NA	179.92	NA	NA
MW-2	05/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	16.34	NA	177.93	NA	NA
MW-2	08/10/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	15.79	NA	178.48	NA	NA
MW-2	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	15.04	NA	179.23	NA	NA
MW-2	02/01/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	10.08	NA	184.19	NA	NA
MW-2	05/10/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	11.68	NA	182.59	NA	NA
MW-2	08/24/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	14.94	NA	179.33	NA	NA
MW-2	11/10/1995	<50	NA	1.7	0.8	1.4	4.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	13.36	NA	180.91	NA	NA
MW-2	02/24/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	9.90	NA	184.37	NA	NA
MW-2	05/22/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	194.27	11.80	NA	182.47	NA	NA
MW-2	08/19/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	194.27	15.08	NA	179.19	NA	NA
MW-2	12/05/1996	<50	NA	1.5	1.6	1.2	5.2	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	194.27	15.16	NA	179.11	NA	NA
MW-2	01/08/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	194.27	9.76	NA	184.51	NA	NA
MW-2	02/20/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	194.27	11.47	NA	182.80	NA	NA
MW-2	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	14.30	NA	179.97	NA	NA
MW-2	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	16.33	NA	177.94	NA	NA
MW-2	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	15.54	NA	178.73	NA	NA
MW-2	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	9.43	NA	184.84	NA	NA
MW-2	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	11.45	NA	182.82	NA	NA
MW-2	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	12.71	NA	181.56	NA	NA
MW-2	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	13.98	NA	180.29	NA	NA
MW-2	02/03/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	15.01	NA	179.26	NA	NA
MW-2	06/04/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	13.93	NA	180.34	NA	NA
MW-2	08/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	16.22	NA	178.05	NA	NA
MW-2	12/10/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	17.58	NA	176.69	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
6039 College Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2 DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-2	02/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	14.10	NA	180.17	NA	NA
MW-2	05/04/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	12.72	NA	181.55	NA	NA
MW-2	08/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	14.39	NA	179.88	NA	NA
MW-2	11/30/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	17.00	NA	177.27	NA	NA
MW-2	02/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	13.58	NA	180.69	NA	NA
MW-2	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	15.26	NA	179.01	NA	NA
MW-2	07/30/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	16.67	NA	177.60	NA	NA
MW-2	12/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	13.91	NA	180.36	NA	NA
MW-2	01/31/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	194.27	12.96	NA	181.31	NA	NA
MW-2	05/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	14.85	NA	179.42	NA	NA
MW-2	07/25/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	194.27	16.24	NA	178.03	NA	NA
MW-2	11/26/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	198.95	18.35	NA	180.60	NA	NA
MW-2	01/29/2003	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	198.95	13.19	NA	185.76	NA	NA
MW-2	06/03/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	198.95	14.53	NA	184.42	NA	NA
MW-2	08/27/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	198.95	16.46	NA	182.49	NA	NA
MW-2	11/13/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	198.95	17.68	NA	181.27	NA	NA
MW-2	02/05/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	<5.0	NA	NA	NA	198.95	13.68	NA	185.27	NA	NA
MW-2	05/03/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	198.95	13.82	NA	185.13	NA	NA
MW-2	08/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	198.95	15.94	NA	183.01	NA	NA
MW-2	11/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	198.95	15.96	NA	182.99	NA	NA
MW-2	02/02/2005	<50 e	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	<5.0	NA	NA	NA	198.95	12.24	NA	186.71	NA	NA
MW-2	05/09/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	198.95	11.80	NA	187.15	NA	NA
MW-2	08/16/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	198.95	14.39	NA	184.56	NA	NA
MW-2	11/16/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	198.95	16.52	NA	182.43	NA	NA

MW-3	02/15/1990	4,700	3,100	320	29	110	33	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	15.81	NA	176.71	NA	NA
MW-3	04/19/1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	16.57	NA	175.95	NA	NA
MW-3	05/14/1990	1,400	60	130	8.6	40	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	16.97	NA	175.55	NA	NA
MW-3	06/21/1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	16.27	NA	176.25	NA	NA
MW-3	09/12/1990	2,000	1,500	58	5.8	16	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	18.78	NA	173.74	NA	NA
MW-3	11/27/1990	540	240	18	1.5	8.7	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	18.27	NA	174.25	NA	NA
MW-3	03/08/1991	3,400	2,100	630	33	270	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	14.86	NA	177.66	NA	NA
MW-3	06/03/1991	1,700	690 a	260	13	98	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	15.84	NA	176.68	NA	NA
MW-3	08/30/1991	870	370 a	44	6.1	10	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	17.79	NA	174.73	NA	NA
MW-3	11/22/1991	310	140	18	1.2	3.3	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	18.40	NA	174.12	NA	NA
MW-3	03/18/1992	67,100	1,900	620	28	220	38	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	12.03	NA	180.49	NA	NA
MW-3	05/28/1992	2,300	1,100 a	200	9	71	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	15.16	NA	177.36	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
6039 College Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2 DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-3	08/19/1992	5,700	1,000 a	71	77	52	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	17.03	NA	175.49	NA	NA
MW-3	11/17/1992	3,600	160 a	16	8.6	24	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	17.94	NA	174.58	NA	NA
MW-3	02/12/1993	4,700	560 a	820	58	130	77	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	9.16	NA	183.36	NA	NA
MW-3	06/10/1993	2,200	NA	310	23	89	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	13.20	NA	179.32	NA	NA
MW-3	08/18/1993	260	NA	27	2	7	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	14.93	NA	177.59	NA	NA
MW-3	11/19/1993	1,500a	NA	24	54	37	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	17.58	NA	174.94	NA	NA
MW-3	02/28/1994	2,700	NA	65	5.2	16	6.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	13.30	NA	179.22	NA	NA
MW-3	05/04/1994	780	NA	120	7.5	21	6.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	15.25	NA	177.27	NA	NA
MW-3	08/10/1994	920	NA	20	2.3	3	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	16.63	NA	175.89	NA	NA
MW-3	11/08/1994	1,300	NA	180	16	7	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	13.88	NA	178.64	NA	NA
MW-3	02/01/1995	1,400	NA	210	8.5	11	8.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	9.25	NA	183.27	NA	NA
MW-3	05/10/1995	460	NA	97	10	1	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	10.76	NA	181.74	NA	NA
MW-3	08/24/1995	640	NA	68	21	14	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	13.90	NA	178.62	NA	NA
MW-3	11/10/1995	350	NA	15	2.3	1.2	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	16.20	NA	176.32	NA	NA
MW-3	02/24/1996	3,300	NA	240	53	38	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	8.93	NA	183.59	NA	NA
MW-3	05/22/1996	1,300	NA	110	15	<10	<10	3,500	NA	NA	NA	NA	NA	NA	NA	NA	192.52	10.86	NA	181.66	NA	NA
MW-3	08/19/1996	350	NA	15	3.3	3.4	3.3	340	NA	NA	NA	NA	NA	NA	NA	NA	192.52	13.97	NA	178.55	NA	NA
MW-3	12/05/1996	290	NA	12	7.6	5.4	16	370	NA	NA	NA	NA	NA	NA	NA	NA	192.52	14.06	NA	178.46	NA	NA
MW-3	02/20/1997	980	NA	69	7.9	14	15	3,200	NA	NA	NA	NA	NA	NA	NA	NA	192.52	10.60	NA	181.92	NA	NA
MW-3	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	13.26	NA	179.26	NA	NA
MW-3	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	15.21	NA	177.31	NA	NA
MW-3	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	14.49	NA	178.03	NA	NA
MW-3	01/20/1998	3,100	NA	360	1,000	73	420	59,000	NA	NA	NA	NA	NA	NA	NA	NA	192.52	8.43	NA	184.09	NA	NA
MW-3	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	10.55	NA	181.97	NA	NA
MW-3	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	11.80	NA	180.72	NA	NA
MW-3	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	11.97	NA	180.55	NA	NA
MW-3	02/03/1999	<10,000	NA	840	131	<100	316	27,600	NA	NA	NA	NA	NA	NA	NA	NA	192.52	13.55	NA	178.97	NA	2.3
MW-3	06/04/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	12.90	NA	179.62	NA	NA
MW-3	08/31/1999	1,550	NA	232	<10.0	125	293	4,620	2,460 b	NA	NA	NA	NA	NA	NA	NA	192.52	14.99	NA	177.53	NA	3.4
MW-3	12/10/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	16.35	NA	176.17	NA	NA
MW-3	02/11/2000	10,900	NA	1,030	<50.0	308	1,000	19,300	NA	NA	NA	NA	NA	NA	NA	NA	192.52	12.85	NA	179.67	NA	1.0
MW-3	05/04/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	17.05	NA	175.47	NA	NA
MW-3	08/31/2000	2,560	NA	165	7.19	77.6	183	4,090	NA	NA	NA	NA	NA	NA	NA	NA	192.52	14.26	NA	178.26	NA	c
MW-3	11/30/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	192.52	15.75	NA	176.77	NA	NA
MW-3	02/13/2001	5,880	NA	563	<50.0	282	472	8,960	NA	NA	NA	NA	NA	NA	NA	NA	192.52	13.05	NA	179.47	NA	3.6
MW-3	05/29/2001	1,800	NA	130	<5.0	84	100	NA	1,900	NA	NA	NA	NA	NA	NA	NA	192.52	13.84	NA	178.68	NA	NA
MW-3	07/30/2001	2,700	NA	250	8.8	130	120	NA	5,200	NA	NA	NA	NA	NA	NA	NA	192.52	15.46	NA	177.06	NA	NA

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MW-3	12/12/2001	<10,000	NA	720	<100	260	260	NA	6,600	<100	<100	<100	<1,000	NA	NA	<1,000	192.52	12.93	NA	179.59	NA	NA
MW-3	01/31/2002	11,000	NA	750	14	570	510	NA	5,800	NA	NA	NA	NA	NA	NA	NA	192.52	11.88	NA	180.64	NA	NA
MW-3	05/31/2002	5,100	NA	410	8.6	300	190	NA	3,600	NA	NA	NA	NA	NA	NA	NA	192.52	13.65	NA	178.87	NA	NA
MW-3	07/25/2002	2,100	NA	170	<10	73	33	NA	2,600	NA	NA	NA	NA	NA	NA	NA	192.52	15.04	NA	177.48	NA	NA
MW-3	11/26/2002	510	NA	26	<2.0	<2.0	2.1	NA	940	NA	NA	NA	NA	NA	NA	NA	197.18	17.15	NA	180.03	NA	NA
MW-3	01/29/2003	6,000	NA	460	8.5	250	87	NA	3,500	NA	NA	NA	NA	NA	NA	NA	197.18	12.21	NA	184.97	NA	NA
MW-3	06/03/2003	5,300	NA	350	<25	130	51	NA	2,200	<100	<100	<100	920	<25	<25	<2,500	197.18	13.40	NA	183.78	NA	NA
MW-3	08/27/2003	700 a	NA	100	<5.0	20	<10	NA	810	NA	NA	NA	460	NA	NA	NA	197.18	15.14	NA	182.04	NA	NA
MW-3	11/13/2003	590	NA	36	<2.5	<2.5	<5.0	NA	440	NA	NA	NA	400	NA	NA	NA	197.18	16.46	NA	180.72	NA	NA
MW-3	02/05/2004	<2,500	NA	420	<25	74	<50	NA	2,400	NA	NA	NA	950	NA	NA	NA	197.18	12.84	NA	184.34	NA	NA
MW-3	05/03/2004	2,600	NA	210	<10	42	21	NA	1,600	NA	NA	NA	820	NA	NA	NA	197.18	12.57	NA	184.61	NA	NA
MW-3	08/30/2004	2,100	NA	120	6.8	5.7	11	NA	730	<20	<20	<20	460	NA	NA	NA	197.18	14.76	NA	182.42	NA	NA
MW-3	11/22/2004	2,600	NA	160	5.5	5.1	<10	NA	570	NA	NA	NA	540	NA	NA	NA	197.18	14.58	NA	182.60	NA	NA
MW-3	02/02/2005	4,500	NA	380	17	23	27	NA	1,900	NA	NA	NA	730	NA	NA	NA	197.18	11.48	NA	185.70	NA	NA
MW-3	05/09/2005	63 f	NA	<0.50	<0.50	<0.50	<1.0	NA	21	NA	NA	NA	8.2	NA	NA	NA	197.18	10.86	NA	186.32	NA	NA
MW-3	08/16/2005	3,800	NA	230	11	17	23	NA	840	<40	<40	<40	460	NA	NA	NA	197.18	13.13	NA	184.05	NA	NA
MW-3	11/16/2005	3,400	NA	107	5.16	4.61	7.64	NA	321	NA	NA	NA	166	NA	NA	NA	197.18	15.31	NA	181.87	NA	NA

MW-4	02/15/1990	ND	1,200	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	16.73	NA	176.65	NA	NA
MW-4	04/19/1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	17.48	NA	175.89	NA	NA
MW-4	05/14/1990	650	350	160	7	1.9	3.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	17.88	NA	175.49	NA	NA
MW-4	06/21/1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	17.18	NA	176.19	NA	NA
MW-4	09/12/1990	440	260	91	1.1	0.75	0.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	17.85	NA	175.52	NA	NA
MW-4	11/27/1990	470	2,400	64	1.2	0.8	2.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	19.16	NA	174.21	NA	NA
MW-4	03/08/1991	1,100	2,600	330	3.5	88	5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	15.77	NA	177.60	NA	NA
MW-4	06/03/1991	670	1,100	240	2.3	1.6	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	16.77	NA	176.60	NA	NA
MW-4	08/30/1991	570	280	64	1.8	0.9	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	18.71	NA	174.66	NA	NA
MW-4	11/22/1991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	NA	NA	NA	NA	NA
MW-4	01/15/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	NA	NA	NA	NA	NA
MW-4	02/15/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	NA	NA	NA	NA	NA
MW-4	03/18/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	13.15	NA	180.41	0.24	NA
MW-4	04/29/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	NA	NA	NA	NA	NA
MW-4	05/28/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	16.22	NA	177.25	0.12	NA
MW-4	08/19/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	18.05	NA	175.39	0.09	NA
MW-4	11/17/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	18.89	NA	174.48	NA	NA
MW-4	02/12/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	11.78	NA	181.59	<0.01	NA
MW-4	06/10/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.37	14.20	NA	179.17	0.02	NA

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MW-6	05/29/2001	<500	NA	<5.0	<5.0	<5.0	<5.0	NA	2,000	NA	NA	NA	NA	NA	NA	NA	189.05	12.94	NA	176.11	NA	NA
MW-6	07/30/2001	<500	NA	<5.0	<5.0	<5.0	<5.0	NA	2,700	NA	NA	NA	NA	NA	NA	NA	189.05	14.10	NA	174.95	NA	NA
MW-6	12/12/2001	<500	NA	<5.0	<5.0	<5.0	<5.0	NA	2,100	<5.0	<5.0	<5.0	97	NA	NA	<500	189.05	12.11	NA	176.94	NA	NA
MW-6	01/31/2002	<500	NA	<5.0	<5.0	<5.0	<5.0	NA	2,000	NA	NA	NA	NA	NA	NA	NA	189.05	11.16	NA	177.89	NA	NA
MW-6	05/31/2002	<500	NA	<5.0	<5.0	<5.0	<5.0	NA	1,800	NA	NA	NA	NA	NA	NA	NA	189.05	12.52	NA	176.53	NA	NA
MW-6	07/25/2002	<500	NA	<5.0	<5.0	<5.0	<5.0	NA	1,800	NA	NA	NA	NA	NA	NA	NA	189.05	13.68	NA	175.37	NA	NA
MW-6	11/26/2002	Well Inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.75	NA	NA	NA	NA	NA
MW-6	12/06/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	280	NA	NA	NA	NA	NA	NA	NA	193.75	16.01	NA	177.74	NA	NA
MW-6	01/29/2003	Well Inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	193.75	NA	NA	NA	NA	NA
MW-6	02/05/2003	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	120	NA	NA	NA	NA	NA	NA	NA	193.75	11.71	NA	182.04	NA	NA
MW-6	06/03/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	69	<2.0	<2.0	<2.0	970	<0.50	<0.50	<50	193.75	12.33	NA	181.42	NA	NA
MW-6	08/27/2003	130	NA	<1.3	<1.3	<1.3	<2.5	NA	28	NA	NA	NA	880	NA	NA	NA	193.75	13.83	NA	179.92	NA	NA
MW-6	11/13/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	6.8	NA	NA	NA	710	NA	NA	NA	193.75	15.05	NA	178.70	NA	NA
MW-6	02/05/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	14	NA	NA	NA	290	NA	NA	NA	193.75	11.44	NA	182.31	NA	NA
MW-6	05/03/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	10	NA	NA	NA	200	NA	NA	NA	193.75	11.74	NA	182.01	NA	NA
MW-6	08/30/2004	78 e	NA	<0.50	<0.50	<0.50	<1.0	NA	4.9	<2.0	<2.0	<2.0	120	NA	NA	NA	193.75	13.52	NA	180.23	NA	NA
MW-6	11/22/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	4.6	NA	NA	NA	110	NA	NA	NA	193.75	13.65	NA	180.10	NA	NA
MW-6	02/02/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	12	NA	NA	NA	95	NA	NA	NA	193.75	10.78	NA	182.97	NA	NA
MW-6	05/09/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	2.1	NA	NA	NA	<5.0	NA	NA	NA	193.75	10.10	NA	183.65	NA	NA
MW-6	08/16/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	3.6	<2.0	<2.0	<2.0	27	NA	NA	NA	193.75	12.05	NA	181.70	NA	NA
MW-6	11/16/2005	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	1.52	NA	NA	NA	12.5	NA	NA	NA	193.75	13.85	NA	179.90	NA	NA
T-1	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	02/03/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	06/04/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	08/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	12/10/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	02/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	05/04/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	08/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	11/30/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA

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T-1	02/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	07/30/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	12/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	01/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	05/22/2002 d	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	198.07	NA	NA	NA	NA	NA
T-2	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	02/03/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	06/04/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	08/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	12/10/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	02/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	05/04/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	08/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	11/30/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.50	NA	NA	NA	NA
T-2	02/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	07/30/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	12/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	01/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	05/22/2002 d	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	198.47	NA	NA	NA	NA	NA

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2 DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to May 29, 2001, analyzed by EPA Method 8015.

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

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to May 29, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

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

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

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

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

1,2-DCA = 1,2-dichloroethane, analyzed by EPA Method 8260B

EDB = Ethylene dibromide, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

NA = Not applicable

ND = Not detected at or above the minimum quantitation limits.

Notes:

a = Chromatogram patterns indicate an unidentified hydrocarbon/Hydrocarbon does not match pattern of laboratory's standard.

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

c = DO Readings not taken this event.

d = Survey date only.

e = Sample contains discrete peak in gasoline range.

f = Quantity of unknown hydrocarbon(s) in sample based on gasoline.

Ethanol analyzed by EPA Method 8260B.

Site surveyed May 22, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

When separate-phase hydrocarbons are present, ground water elevation is adjusted using the relation: Corrected ground water elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).

ATTACHMENT C

**Standard Field Procedures for Soil Borings and Monitoring
Wells**

CAMBRIA

STANDARD FIELD PROCEDURES FOR INSTALLING MONITORING WELLS

This document describes Cambria Environmental Technology's standard field methods for drilling, installing, developing and sampling groundwater monitoring wells. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Well Construction and Surveying

Groundwater monitoring wells are installed in soil borings to monitor groundwater quality and determine the groundwater elevation, flow direction and gradient. Well depths and screen lengths are based on groundwater depth, occurrence of hydrocarbons or other compounds in the borehole, stratigraphy and State and local regulatory guidelines. Well screens typically extend 10 to 15 feet below and 5 feet above the static water level at the time of drilling. However, the well screen will generally not extend into or through a clay layer that is at least three feet thick.

Well casing and screen are flush-threaded, Schedule 40 PVC. Screen slot size varies according to the sediments screened, but slots are generally 0.010 or 0.020 inches wide. A rinsed and graded sand occupies the annular space between the boring and the well screen to about one to two ft above the well screen. A two feet thick hydrated bentonite seal separates the sand from the overlying sanitary surface seal composed of Portland type I,II cement.

Well-heads are secured by locking well-caps inside traffic-rated vaults finished flush with the ground surface. A stovepipe may be installed between the well-head and the vault cap for additional security. The well top-of-casing elevation is surveyed with respect to mean sea level and the well is surveyed for horizontal location with respect to an onsite or nearby offsite landmark.

Well Development

Wells are generally developed using a combination of groundwater surging and extraction. Surging agitates the groundwater and dislodges fine sediments from the sand pack. After about ten minutes of surging, groundwater is extracted from the well using bailing, pumping and/or reverse air-lifting through an eductor pipe to remove the sediments from the well. Surging and extraction continue until at least ten well-casing volumes of groundwater are extracted and the sediment volume in the groundwater is negligible. This process usually occurs prior to installing the sanitary surface seal to ensure sand pack stabilization. If development occurs after surface seal installation, then development occurs 24 to 72 hours after seal installation to ensure that the Portland cement has set up correctly.

All equipment is steam-cleaned prior to use and air used for air-lifting is filtered to prevent oil entrained in the compressed air from entering the well. Wells that are developed using air-lift evacuation are not sampled until at least 24 hours after they are developed.

Groundwater Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of groundwater are purged prior to sampling. Purging continues until groundwater pH, conductivity, and temperature have stabilized. Groundwater samples are collected using bailers or pumps and are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.