

Ro-404

# C A M B R I A

August 7, 2002

eva chu  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, California 94502

Re: **First and Second Quarter 2002 Monitoring Report**  
Former Shell Service Station  
8930 Bancroft Avenue  
Oakland, California  
Incident #98995742  
Cambria Project #244-1408-002

AUG 12 2002



Dear Ms. chu:

Effective March 1, 2002, Equiva Services LLC and Equilon Enterprises LLC are now doing business as (dba) Shell Oil Products US (Shell). On behalf of Shell, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

## REMEDIATION SUMMARY

Weekly groundwater extraction (GWE) was performed on well MW-4 during March through May 2000. Approximately 1,075 gallons of water were extracted from the well, and an estimated 0.1 pounds of methyl tertiary butyl ether were removed. GWE was discontinued due to low extraction volumes.

## FIRST QUARTER 2002 ACTIVITIES

**Groundwater Monitoring:** On February 26, 2002, Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled the site wells. Blaine calculated groundwater elevations, and compiled the analytical data. Cambria prepared a vicinity map which includes previously submitted well survey information (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

Oakland, CA  
San Ramon, CA  
Sonoma, CA

**Cambria  
Environmental  
Technology, Inc.**

1144 65th Street  
Suite B  
Oakland, CA 94608  
Tel (510) 420-0700  
Fax (510) 420-9170

Separate phase hydrocarbons (SPH) were encountered in well MW-5 during the sampling event. Blaine returned to the site on March 12, 2002, measured SPH thickness in well MW-5, and collected an SPH sample from well MW-5. The SPH sample collected from well MW-5 was inadvertently not transported within hold time to an analytical laboratory, and it was therefore not analyzed. As stated below, Blaine resampled SPH detected in well MW-5 during the second quarter 2002 monitoring event.

**Oxygenate Analysis:** As requested in a February 27, 2002 Alameda County Health Care Services correspondence, collected quarterly samples were analyzed additionally for diisopropyl ether, ethyl tertiary butyl ether, tertiary amyl methyl ether, tertiary butyl alcohol, 1,2-dichloroethane and 1,2-dibromoethane. None of the additional analytes were detected in the site wells. Analytical results are presented in Table 1.

**Oxygen Releasing Compound (ORC):** As recommended in our November 26, 2001 *Third Quarter 2001 Monitoring Report*, Blaine installed ORC in well MW-4 during the fourth quarter 2001 to enhance the biological degradation of residual chemicals in groundwater at the site. The ORC in well MW-4 will be replaced approximately every six months. To monitor the ORC effectiveness, Blaine measured dissolved oxygen (DO) concentrations in well MW-4 and in upgradient (background) well MW-3.

## SECOND QUARTER 2002 ACTIVITIES

**Groundwater Monitoring:** On June 6, 2002, Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled the site wells. Blaine calculated groundwater elevations, and compiled the analytical data. Cambria prepared a vicinity map which includes previously submitted well survey information (Figure 1) and a groundwater elevation contour map (Figure 3). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment B.

SPH were encountered in well MW-5 during the sampling event. Blaine collected an SPH sample from well MW-5 which was submitted to Westhollow Technology Center (WTC) of Houston, Texas. The analytical report is included as Attachment C. According to WTC, the SPH sample collected from well MW-5 contained unleaded, weathered gasoline most likely regular grade product produced after 1996. The SPH sample collected from well MW-5 did not match samples collected from dispenser number 1 of each grade gasoline sold onsite. Based on the laboratory results, it could not be determined whether the SPH encountered are in well MW-5 as a result of a more recent or a previous release. Shell has not owned or operated underground

storage tanks at the site since 1999. Prior to February 2002, no SPH had been encountered at the site. Soil samples collected during site demolition in July 1999 from beneath the tanks, dispensers and piping removed by Shell did not contain any total petroleum hydrocarbons as gasoline (TPHg) or benzene, except for 3.2 parts per million (ppm) TPHg in tank sample T1-2-13' and 12 ppm TPHg in sample P-5-4' (see Attachment D).

**ORC:** The ORC installed in well MW-4 was replaced during the second quarter 2002 monitoring event.



### ANTICIPATED THIRD QUARTER 2002 ACTIVITIES

**Groundwater Monitoring:** Blaine will gauge and sample selected site wells, measure DO concentrations in selected site wells, and tabulate the data. Cambria will prepare a monitoring report.

**Short-Term Mobile GWE:** Based on the recent SPH detections in well MW-5 and the inconclusive SPH analytical results, Shell will voluntarily conduct short-term GWE from well MW-5. Cambria will coordinate four weekly mobile GWE events at the site beginning in August 2002. Mobile GWE is the process of extracting groundwater from wells using a vacuum truck. In this process, the vacuum created by the truck is applied to a dedicated extraction "stinger" installed in the extraction well. The extracted water is contained by the truck and removed from the site for disposal. The volume of extracted fluid is recorded and used to calculate the quantity of aqueous-phase constituents removed from the subsurface. During the first two GWE events, SPH thickness in well MW-5 will be gauged prior to extraction, and if no SPH are detected, grab groundwater samples will be collected prior to GWE. In addition, groundwater samples will be collected from well MW-5 following extraction during the first two events. During the third and fourth events, groundwater samples will be collected following GWE only. Mass removal data will be presented in forthcoming quarterly monitoring reports, and continued groundwater extraction will be based on extracted groundwater volumes and groundwater concentration trends.


**ORC:** The ORC installed in well MW-4 is due to be replaced during the fourth quarter 2002 monitoring event.

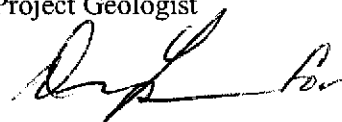
**CLOSING**

We appreciate the opportunity to work with you on this project. Please call Jacquelyn Jones at (510) 420-3316 if you have any questions or comments.

Sincerely,  
**Cambria Environmental Technology, Inc**



  
Jacquelyn L. Jones  
Project Geologist

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



Figures: 1 - Vicinity/Well Survey Map  
2 - Groundwater Elevation Contour Map – February 26, 2002  
3 - Groundwater Elevation Contour Map – June 6, 2002

Table: 1 - Oxygenates

Attachments: A - Blaine Groundwater Monitoring Report and Field Notes – First Quarter 2002  
B - Blaine Groundwater Monitoring Report and Field Notes – Second Quarter 2002  
C - Laboratory Analytical Reports for SPH Sampling  
D - Previous Soil Sampling Results

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869  
Leroy Griffin, Fire Prevention Bureau, 250 Frank Ogawa Plaza, 3<sup>rd</sup> Floor, Suite 3341,  
Oakland, CA 94612  
Sidhu Associates, 8930 Bancroft Ave., Oakland, CA 94605

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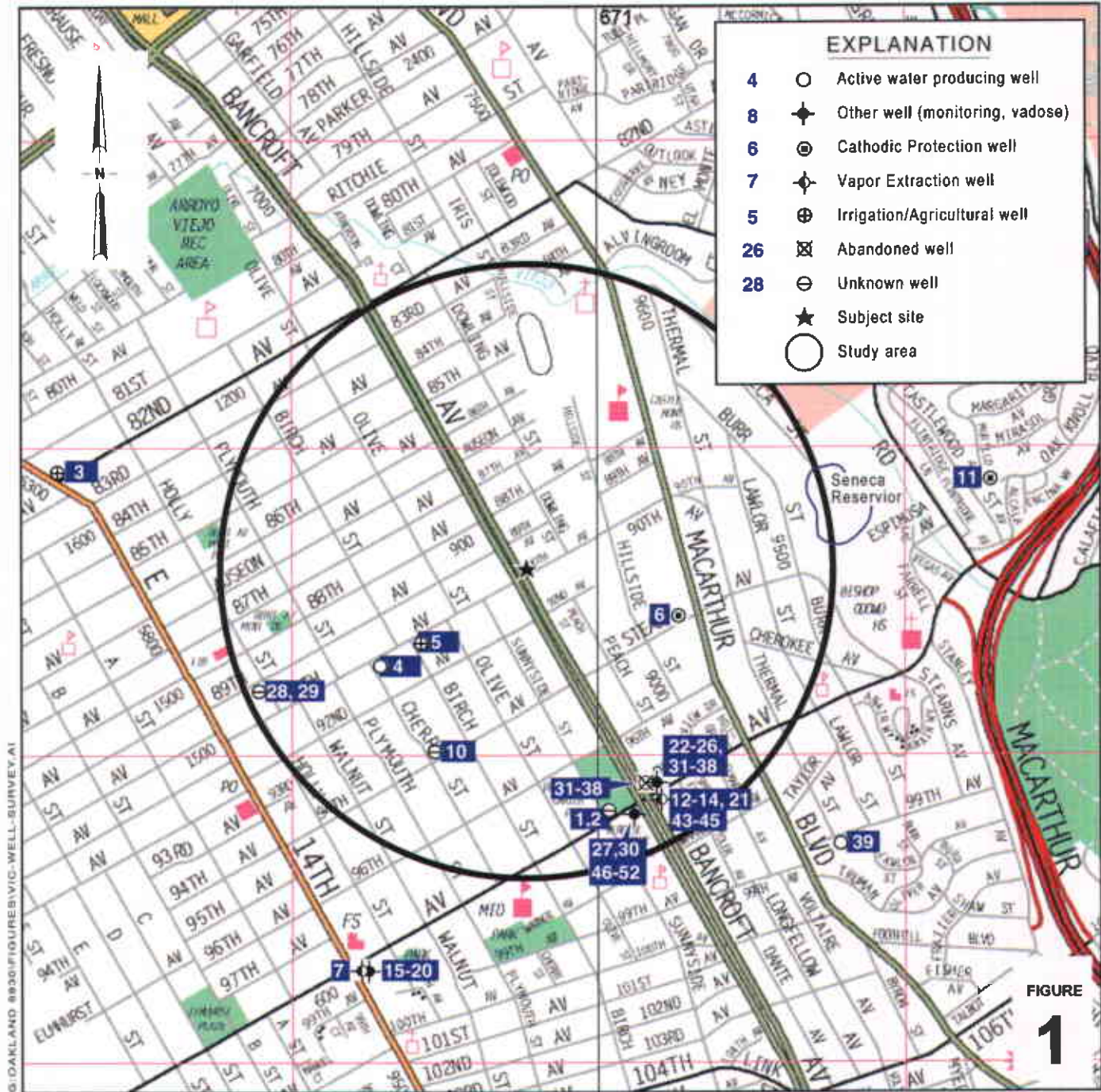


FIGURE 1

### Former Shell-branded Station

8930 Bancroft Avenue  
Oakland, California  
Incident #98995742

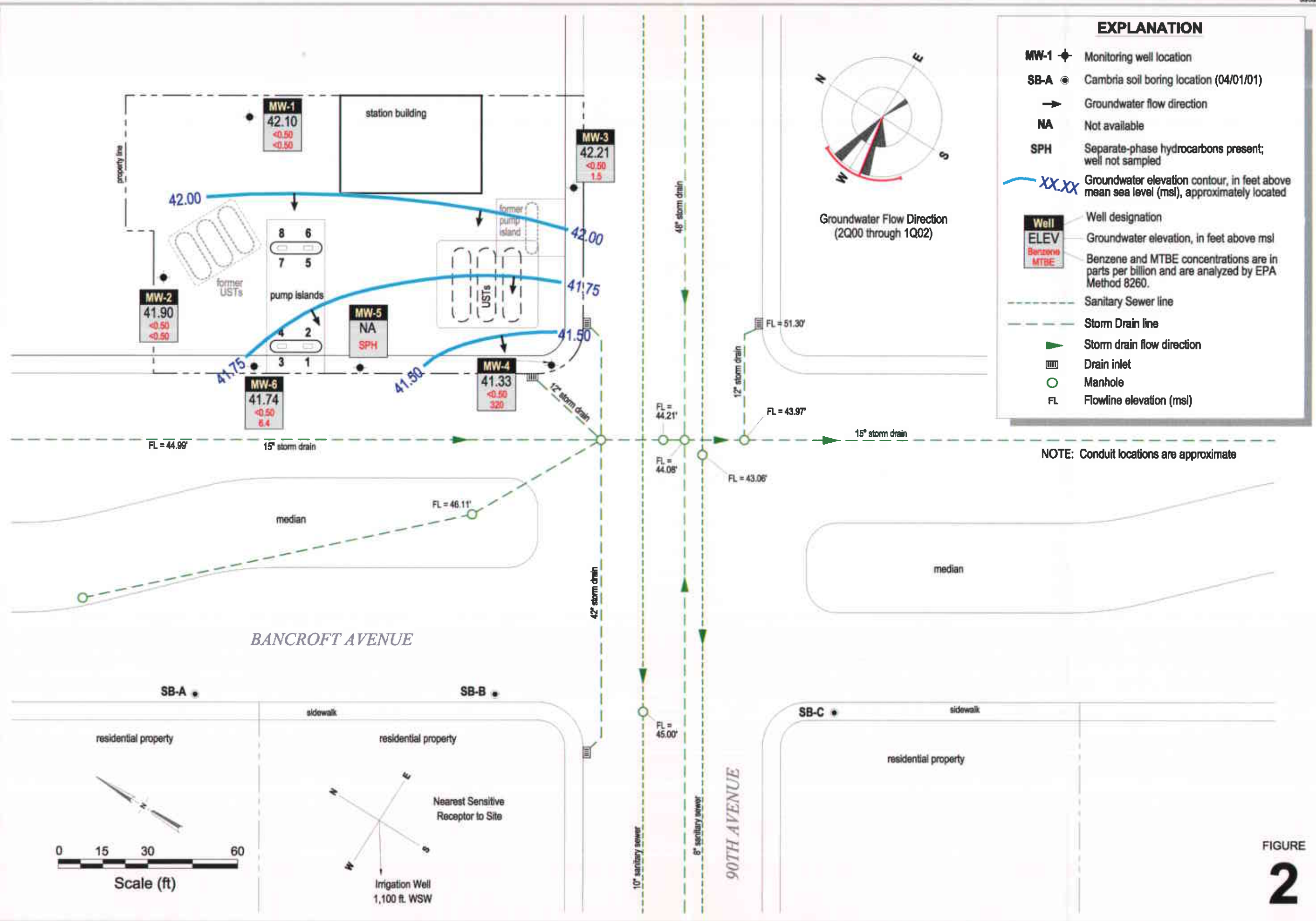


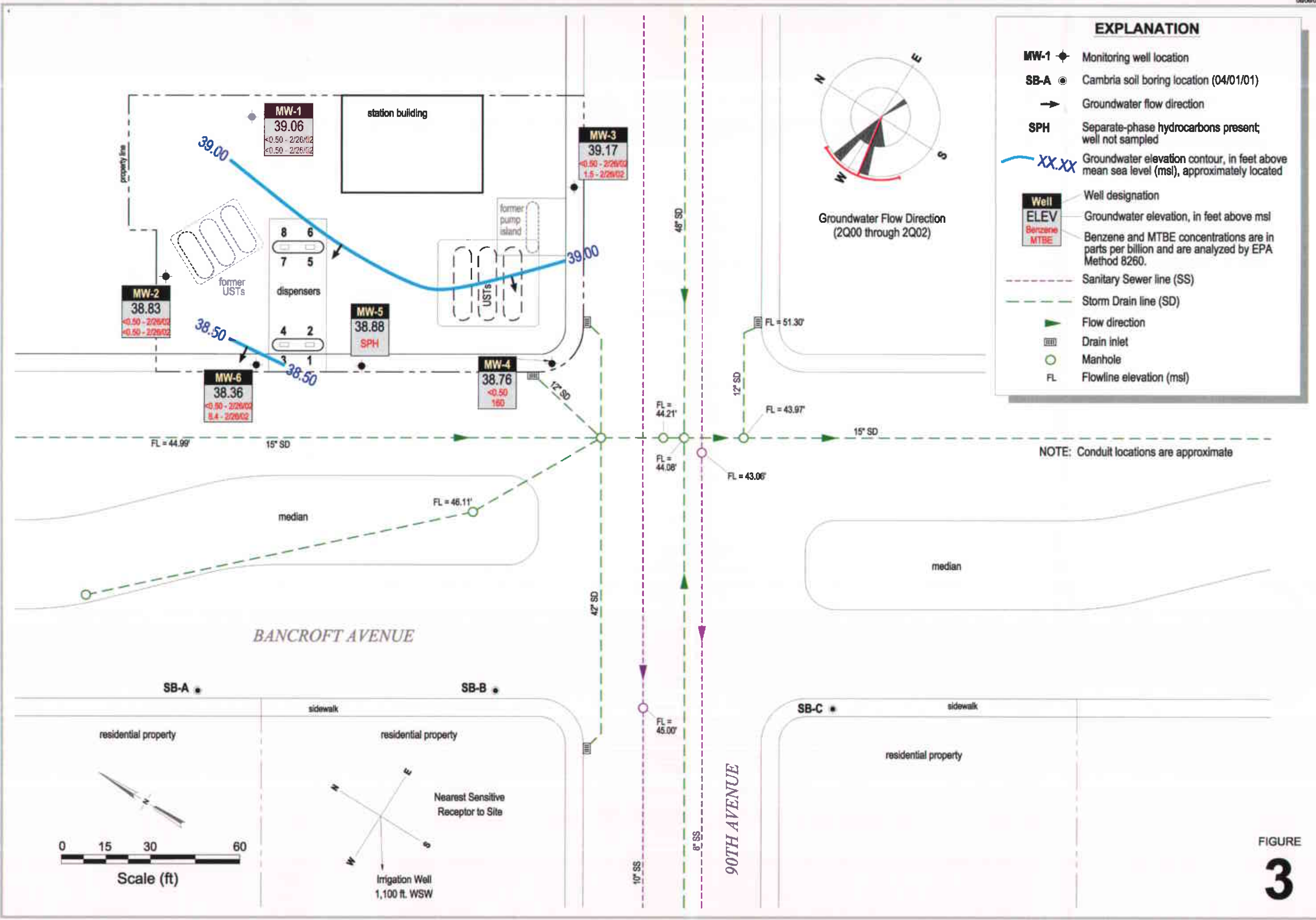
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### Vicinity / Well Survey Map

(1/2 Mile Radius)







G:\OAKLAND\8930BANCROFT\FIGURES\G3\M3.MXD

# CAMBRIA

**Table 1. Groundwater Analytical Data - Oxygenates - Former Shell Service Station, Incident #98995742, 8930 Bancroft Avenue, Oakl**

Sample ID	Date Sampled	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		(Concentrations in ppb)						
MW-1	02/26/02	<0.50	<2.0	<2.0	<2.0	<50	<2.0	<2.0
MW-2	02/26/02	<0.50	<2.0	<2.0	<2.0	<50	<2.0	<2.0
MW-3	02/26/02	1.5	<2.0	<2.0	<2.0	<50	<2.0	<2.0
MW-4	02/26/02	320	<2.0	<2.0	<2.0	<50	<2.0	<2.0
MW-5	02/26/02	6.4	<2.0	<2.0	<2.0	<50	<2.0	<2.0

**Abbreviations:**

MTBE = Methyl tert-butyl ether, analyzed by by EPA Method 8260  
 DIPE = Di-isopropyl ether, analyzed by EPA Method 8260  
 ETBE = Ethyl tert-butyl ether, analyzed by EPA Method 8260  
 TAME = Tert-amyl methyl ether, analyzed by EPA Method 8260  
 TBA = Tert-butyl alcohol, analyzed by EPA Method 8260  
 1,2-DCA = 1,2-dichloroethane, analyzed by EPA Method 8260  
 EDB = 1,2-dibromomethane or ethylene dibromide, analyzed by EPA Method 8260  
 ppb = Parts per billion



**ATTACHMENT A**  
**Blaine Groundwater Monitoring Report**  
**and Field Notes – First Quarter 2002**

**BLAINE**  
TECH SERVICES INC.



1680 ROGERS AVENUE  
SAN JOSE, CA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE  
CONTRACTOR'S LICENSE #746684  
www.blainetech.com

March 19, 2002

Karen Petryna  
Equiva Services LLC  
P.O. Box 7869  
Burbank, CA 91510-7869

First Quarter 2002 Groundwater Monitoring at  
Shell-branded Service Station  
8930 Bancroft Avenue  
Oakland, CA

Monitoring performed on February 26 and  
March 12, 2002

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**Groundwater Monitoring Report 020226-SO-3**

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 Shell Martinez Manufacturing Complex.

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/mrb

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

cc: Anni Kreml  
Cambria Environmental Technology, Inc.  
1144 65<sup>th</sup> Street, Suite C  
Oakland, CA 94608-2411

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**8930 Bancroft Avenue**  
**Oakland, CA**  
**Wic #204-5508-1305**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (mg/L)
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MW-1	12/17/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	53.19	11.87	NA	41.32	NA	NA
MW-1	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	8.21	NA	44.98	NA	NA
MW-1	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	15.04	NA	38.15	NA	NA
MW-1	09/30/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	16.02	NA	37.17	NA	NA
MW-1	12/23/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	14.78	NA	38.41	NA	NA
MW-1	03/22/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	8.44	NA	44.75	NA	NA
MW-1	06/01/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	13.71	NA	39.48	NA	NA
MW-1	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	14.95	NA	38.24	NA	NA
MW-1	12/04/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	5.82	NA	53.19	13.85	NA	39.34	NA	NA
MW-1	03/09/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	9.07	NA	44.12	NA	NA
MW-1	06/27/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	53.19	14.90	NA	38.29	NA	NA
MW-1	09/20/2001	NA	NA	NA	NA	NA	NA	NA	NA	53.19	15.53	NA	37.66	NA	NA
MW-1	12/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	53.19	10.41	NA	42.78	NA	3.8
MW-1	02/26/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	53.19	11.09	NA	42.10	NA	NA

MW-2	12/17/1998	9,900	NA	<5.0	37	22	47	48	<20	52.66	11.65	NA	41.01	NA	NA
MW-2	03/09/1999	2,760	NA	12.3	7.50	85.4	444	<50.0	NA	52.66	8.07	NA	44.59	NA	NA
MW-2	06/16/1999	2,570	NA	36.3	11.6	6.19	10.8	<50.0	NA	52.66	14.63	NA	38.03	NA	NA
MW-2	09/30/1999	1,960	NA	19.1	3.20	4.55	26.9	<25.0	NA	52.66	15.63	NA	37.03	NA	NA
MW-2	12/23/1999	145	NA	1.30	<0.500	<0.500	0.899	<2.50	NA	52.66	14.42	NA	38.24	NA	NA
MW-2	03/22/2000	6,060	NA	18.9	<10.0	210	651	<100	NA	52.66	8.19	NA	44.47	NA	NA
MW-2	06/01/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	52.66	11.46	NA	41.20	NA	NA
MW-2	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	52.66	14.63	NA	38.03	NA	NA
MW-2	12/04/2000	201	NA	1.35	<0.500	3.39	8.58	<2.50	NA	52.66	13.45	NA	39.21	NA	NA
MW-2	03/09/2001	396	NA	2.82	<0.500	8.69	18.7	<2.50	NA	52.66	8.89	NA	43.77	NA	NA
MW-2	06/27/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	52.66	14.88	NA	37.78	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**8930 Bancroft Avenue**  
**Oakland, CA**  
**Wic #204-5508-1305**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (mg/L)
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MW-2	09/20/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	52.66	15.19	NA	37.47	NA	NA
MW-2	12/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	52.66	10.02	NA	42.64	NA	2.8
MW-2	02/26/2002	180	NA	<0.50	<0.50	2.7	4.1	NA	<0.50	52.66	10.76	NA	41.90	NA	NA

MW-3	12/17/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	10	11	51.30	11.85	NA	39.45	NA	NA
MW-3	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.30	6.53	NA	44.77	NA	NA
MW-3	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.30	12.71	NA	38.59	NA	NA
MW-3	09/30/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	5.14	NA	51.30	14.07	NA	37.23	NA	NA
MW-3	12/23/1999	<500	NA	<5.00	<5.00	<5.00	<5.00	<25.0	NA	51.30	12.82	NA	38.48	NA	NA
MW-3	03/22/2000	<50.0	NA	<0.500	1.48	<0.500	1.90	<5.00	NA	51.30	6.81	NA	44.49	NA	NA
MW-3	06/01/2000	<50.0	NA	<0.500	0.821	<0.500	<0.500	4.39	NA	51.30	11.85	NA	39.45	NA	NA
MW-3	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	3.62	NA	51.30	12.55	NA	38.75	NA	NA
MW-3	12/04/2000	<50.0	NA	<0.500	<0.500	<0.500	0.588	4.74	NA	51.30	11.65	NA	39.65	NA	NA
MW-3	03/09/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	51.30	7.28	NA	44.02	NA	NA
MW-3	06/27/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	51.30	13.16	NA	38.14	NA	NA
MW-3	09/20/2001	NA	NA	NA	NA	NA	NA	NA	NA	51.30	13.35	NA	37.95	NA	NA
MW-3	12/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	51.30	8.14	NA	43.16	NA	1.2
MW-3	02/26/2002	<50	NA	<0.50	7.2	<0.50	<0.50	NA	1.5	51.30	9.09	NA	42.21	NA	0.6

MW-4	12/17/1998	700	NA	4.3	0.88	<0.50	<0.50	21,000	26,000	50.73	10.80	NA	39.93	NA	NA
MW-4	03/09/1999	83.9	NA	<0.500	<0.500	<0.500	<0.500	17,900	23,700	50.73	6.91	NA	43.82	NA	NA
MW-4	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	10,600	19,200	50.73	12.84	NA	37.89	NA	NA
MW-4	09/30/1999	51.2	NA	<0.500	<0.500	<0.500	<0.500	12,200	12,300	50.73	13.74	NA	36.99	NA	NA
MW-4	12/23/1999	<100	NA	<1.00	<1.00	<1.00	<1.00	7,990	8,400	50.73	12.40	NA	38.33	NA	NA
MW-4	03/22/2000	<500	NA	<5.00	<5.00	<5.00	<5.00	4,970	5,020	50.73	7.32	NA	43.41	NA	NA
MW-4	06/01/2000	<100	NA	<1.00	<1.00	<1.00	<1.00	5,260	3,580	50.73	11.50	NA	39.23	NA	NA
MW-4	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	3,610	3,300a	50.73	12.55	NA	38.18	NA	NA



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**8930 Bancroft Avenue**  
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MW-4	12/04/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	2,960	3,520a	50.73	11.77	NA	38.96	NA	NA
MW-4	03/09/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	1,930	2,500	50.73	7.48	NA	43.25	NA	NA
MW-4	06/27/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	1,100	1,100	50.73	12.97	NA	37.76	NA	NA
MW-4	09/20/2001	<250	NA	3.8	14	2.6	7.8	NA	940	50.73	13.30	NA	37.43	NA	NA
MW-4	12/05/2001	<200	NA	<2.0	<2.0	<2.0	<2.0	NA	750	50.73	8.41	NA	42.32	NA	1.2
MW-4	02/26/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	320	50.73	9.40	NA	41.33	NA	0.7
MW-5	12/17/1998	750	NA	<0.50	17	1.8	3.5	33	32	51.43	11.51	NA	39.92	NA	NA
MW-5	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.43	7.15	NA	44.28	NA	NA
MW-5	06/16/1999	646	NA	9.26	1.05	<1.00	<1.00	<10.0	NA	51.43	13.47	NA	37.96	NA	NA
MW-5	09/30/1999	484	NA	1.93	0.511	<0.500	<0.500	159	NA	51.43	14.41	NA	37.02	NA	NA
MW-5	12/23/1999	944	NA	4.59	17.7	3.79	16.7	214	NA	51.43	14.07	NA	37.36	NA	NA
MW-5	03/22/2000	8,770	NA	197	96.5	<50.0	188	2,450	NA	51.43	7.31	NA	44.12	NA	NA
MW-5	06/01/2000	227	NA	0.565	<0.500	<0.500	<0.500	35.9	NA	51.43	12.15	NA	39.28	NA	NA
MW-5	09/08/2000	159	NA	0.606	<0.500	<0.500	1.74	1,000	NA	51.43	13.30	NA	38.13	NA	NA
MW-5	12/04/2000	1,510	NA	19.2	<10.0	<10.0	134	1,360	NA	51.43	12.19	NA	39.24	NA	NA
MW-5	03/09/2001	3,460	NA	37.9	121	40.6	208	235	NA	51.43	7.79	NA	43.64	NA	NA
MW-5	06/27/2001	310	NA	0.97	<0.50	<0.50	<0.50	14	NA	51.43	13.89	NA	37.54	NA	NA
MW-5	09/20/2001	310	NA	<0.50	<0.50	<0.50	<0.50	NA	21	51.43	13.95	NA	37.48	NA	NA
MW-5	12/05/2001	8,800	NA	14	2.9	33	410	NA	2,300	51.43	8.89	NA	42.54	NA	0.6
MW-5	02/26/2002	NA	NA	NA	NA	NA	NA	NA	NA	51.43	9.87	NA	NA	b	NA
MW-5	03/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	51.43	8.84	8.64	42.75	0.20	NA
MW-6	12/17/1998	940	NA	27	0.32	2.4	2.3	3.0	3.2	51.88	11.37	NA	40.51	NA	NA
MW-6	03/09/1999	336	NA	7.78	1.60	2.40	6.36	<10.0	NA	51.88	8.10	NA	43.78	NA	NA
MW-6	06/16/1999	308	NA	2.45	<0.500	<0.500	<0.500	7.39	NA	51.88	14.49	NA	37.39	NA	NA
MW-6	09/30/1999	80.2	NA	<0.500	<0.500	<0.500	<0.500	24.8	NA	51.88	15.30	NA	36.58	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**8930 Bancroft Avenue**  
**Oakland, CA**  
**Wic #204-5508-1305**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (mg/L)
MW-6	12/23/1999	149	NA	0.518	<0.500	<0.500	<0.500	6.43	NA	51.88	13.19	NA	38.69	NA	NA
MW-6	03/22/2000	382	NA	3.31	2.18	0.619	2.35	5.61	NA	51.88	8.27	NA	43.61	NA	NA
MW-6	06/01/2000	158	NA	0.830	<0.500	<0.500	1.10	10.9	NA	51.88	11.13	NA	40.75	NA	NA
MW-6	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	51.88	14.28	NA	37.60	NA	NA
MW-6	12/04/2000	231	NA	4.93	<0.500	<0.500	<0.500	4.57	NA	51.88	12.62	NA	39.26	NA	NA
MW-6	03/09/2001	789	NA	11.6	2.72	<2.00	<2.00	28.0	NA	51.88	8.65	NA	43.23	NA	NA
MW-6	06/27/2001	140	NA	<0.50	1.1	<0.50	<0.50	<2.5	NA	51.88	14.95	NA	36.93	NA	NA
MW-6	09/20/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	51.88	14.70	NA	37.18	NA	NA
MW-6	12/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	51.88	9.62	NA	42.26	NA	1.8
MW-6	02/26/2002	130	NA	<0.50	2.6	0.69	4.1	NA	6.4	51.88	10.14	NA	41.74	NA	NA

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to September 20, 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 September 20, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

SPH = Separate-phase hydrocarbons

GW = Groundwater

ug/L = Parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

NA = Not applicable

DO = Dissolved oxygen

mg/L = Parts per million

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**8930 Bancroft Avenue**  
**Oakland, CA**  
**Wic #204-5508-1305**

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

a = This sample analyzed outside of EPA recommended holding time.

b = SPH detected in well, but exact thickness could not be measured.

When separate-phase hydrocarbons are present, groundwater elevation is adjusted using the relation:

$$\text{Groundwater Elevation} = \text{Top-of-Casing Elevation} - \text{Depth to Water} + (0.8 \times \text{Hydrocarbon Thickness}).$$



Report Number : 25014

Date : 3/11/2002

Leon Gearhart  
Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Subject : 5 Water Samples  
Project Name : 8930 Bancroft Avenue, Oakland  
Project Number : 020226-SO-3  
P.O. Number : 98995742

Dear Mr. Gearhart,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large, looped "J" and a long, sweeping "K".

Joel Kiff



Report Number : 25014

Date : 3/11/2002

Subject : 5 Water Samples  
Project Name : 8930 Bancroft Avenue, Oakland  
Project Number : 020226-SO-3  
P.O. Number : 98995742

## Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with samples MW-1, MW-3 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By:  \_\_\_\_\_  
Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800





Report Number : 25014

Date : 3/11/2002

Project Name : 8930 Bancroft Avenue, Oakland

Project Number : 020226-SO-3

Sample : MW-1

Matrix : Water

Lab Number : 25014-01

Sample Date :2/26/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	3/8/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/8/2002
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Toluene - d8 (Surr)	96.7		% Recovery	EPA 8260B	3/8/2002
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	3/8/2002
Dibromofluoromethane (Surr)	99.8		% Recovery	EPA 8260B	3/8/2002
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	3/8/2002

Approved By: Joel Kiff



Report Number : 25014

Date : 3/11/2002

Project Name : 8930 Bancroft Avenue, Oakland

Project Number : 020226-SO-3

Sample : MW-2

Matrix : Water

Lab Number : 25014-02

Sample Date : 2/26/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Ethylbenzene	2.7	0.50	ug/L	EPA 8260B	3/8/2002
Total Xylenes	4.1	0.50	ug/L	EPA 8260B	3/8/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	3/8/2002
TPH as Gasoline	180	50	ug/L	EPA 8260B	3/8/2002
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	3/8/2002
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	3/8/2002
Dibromofluoromethane (Surr)	104		% Recovery	EPA 8260B	3/8/2002
1,2-Dichloroethane-d4 (Surr)	99.1		% Recovery	EPA 8260B	3/8/2002

Approved By:  Joel Kiff



Report Number : 25014

Date : 3/11/2002

Project Name : 8930 Bancroft Avenue, Oakland

Project Number : 020226-SO-3

Sample : MW-3

Matrix : Water

Lab Number : 25014-03

Sample Date :2/26/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Toluene	7.2	0.50	ug/L	EPA 8260B	3/8/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Methyl-t-butyl ether (MTBE)	1.5	0.50	ug/L	EPA 8260B	3/8/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	3/8/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/8/2002
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	3/8/2002
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	3/8/2002
Dibromofluoromethane (Surr)	101		% Recovery	EPA 8260B	3/8/2002
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	3/8/2002

Approved By:  Joel Kiff



Report Number : 25014

Date : 3/11/2002

Project Name : 8930 Bancroft Avenue, Oakland

Project Number : 020226-SO-3

Sample : MW-4

Matrix : Water

Lab Number : 25014-04

Sample Date : 2/26/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/2/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/2/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/2/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/2/2002
Methyl-t-butyl ether (MTBE)	320	0.50	ug/L	EPA 8260B	3/2/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	3/2/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	3/2/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	3/2/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	3/2/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/2/2002
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	3/2/2002
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	3/2/2002
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	3/2/2002
4-Bromofluorobenzene (Surr)	99.0		% Recovery	EPA 8260B	3/2/2002
Dibromofluoromethane (Surr)	102		% Recovery	EPA 8260B	3/2/2002
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	3/2/2002

Approved By:  Joel Kiff



Report Number : 25014

Date : 3/11/2002

Project Name : 8930 Bancroft Avenue, Oakland

Project Number : 020226-SO-3

Sample : MW-6

Matrix : Water

Lab Number : 25014-05

Sample Date :2/26/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Toluene	2.6	0.50	ug/L	EPA 8260B	3/8/2002
Ethylbenzene	0.69	0.50	ug/L	EPA 8260B	3/8/2002
Total Xylenes	4.1	0.50	ug/L	EPA 8260B	3/8/2002
Methyl-t-butyl ether (MTBE)	6.4	0.50	ug/L	EPA 8260B	3/8/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	3/8/2002
TPH as Gasoline	130	50	ug/L	EPA 8260B	3/8/2002
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	3/8/2002
4-Bromofluorobenzene (Surr)	98.3		% Recovery	EPA 8260B	3/8/2002
Dibromofluoromethane (Surr)	103		% Recovery	EPA 8260B	3/8/2002
1,2-Dichloroethane-d4 (Surr)	94.6		% Recovery	EPA 8260B	3/8/2002

Approved By:  Joel Kiff



Report Number : 25014

Date : 3/11/2002

**QC Report : Method Blank Data**

Project Name : **8930 Bancroft Avenue, Oakland**

Project Number : **020226-SO-3**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/8/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	3/8/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/8/2002
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	3/8/2002
Toluene - d8 (Surr)	92.8		%	EPA 8260B	3/8/2002
4-Bromofluorobenzene (Surr)	98.1		%	EPA 8260B	3/8/2002
Dibromofluoromethane (Surr)	93.3		%	EPA 8260B	3/8/2002
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	3/8/2002

Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/2/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/2/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/2/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/2/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/2/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	3/2/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	3/2/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	3/2/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	3/2/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/2/2002
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	3/2/2002
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	3/2/2002
Toluene - d8 (Surr)	102		%	EPA 8260B	3/2/2002
4-Bromofluorobenzene (Surr)	99.9		%	EPA 8260B	3/2/2002
Dibromofluoromethane (Surr)	102		%	EPA 8260B	3/2/2002
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	3/2/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 8930 Bancroft Avenue,

Project Number : 020226-SO-3

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	25046-01	<0.50	40.0	40.0	39.9	39.1	ug/L	EPA 8260B	3/8/2002	99.7	97.7	2.05	70-130	25
Toluene	25046-01	<0.50	40.0	40.0	39.3	38.8	ug/L	EPA 8260B	3/8/2002	98.3	97.0	1.28	70-130	25
Tert-Butanol	25046-01	88	200	200	291	283	ug/L	EPA 8260B	3/8/2002	102	97.3	4.20	70-130	25
Methyl-t-Butyl Ether	25046-01	230	40.0	40.0	251	252	ug/L	EPA 8260B	3/8/2002	55.4	58.6	5.57	70-130	25
Benzene	25014-02	<0.50	40.0	40.0	45.2	42.1	ug/L	EPA 8260B	3/2/2002	113	105	6.99	70-130	25
Toluene	25014-02	<0.50	40.0	40.0	46.1	41.9	ug/L	EPA 8260B	3/2/2002	115	105	9.41	70-130	25
Tert-Butanol	25014-02	<5.0	200	200	220	206	ug/L	EPA 8260B	3/2/2002	110	103	6.64	70-130	25
Methyl-t-Butyl Ether	25014-02	<0.50	40.0	40.0	44.7	43.6	ug/L	EPA 8260B	3/2/2002	112	109	2.51	70-130	25

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By: Joel Kiff



Report Number : 25014

Date : 3/11/2002

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **8930 Bancroft Avenue,**

Project Number : **020226-SO-3**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	3/8/2002	107	70-130
Toluene	40.0	ug/L	EPA 8260B	3/8/2002	98.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/8/2002	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/8/2002	97.1	70-130
Benzene	40.0	ug/L	EPA 8260B	3/2/2002	109	70-130
Toluene	40.0	ug/L	EPA 8260B	3/2/2002	108	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/2/2002	105	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/2/2002	110	70-130

KIFF ANALYTICAL, LLC

Approved By:  Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

LAD: \_\_\_\_\_

# EQUIVA Services LLC Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Equiva Project Manager to be invoiced:

SCIENCE & ENGINEERING  
 TECHNICAL SERVICES  
 OIL & PETROLEUM

Karen Petryna

25014

INCIDENT NUMBER (DATE ONLY)

9 8 9 9 5 7 4 2

SAR or CRMT NUMBER (EQUIVA)

DATE: 2/26/02

PAGE: 1 of 1

SAMPLING COMPANY <b>Blaine Tech Services</b>		JOB CODE <b>BTSS</b>	SITE ADDRESS (Street and City): <b>8930 Bancroft Avenue, Oakland</b>		GLOBAL ID NO.
ADDRESS <b>1680 Rogers Avenue, San Jose, CA 95112</b>		EDF DELIVERABLE TO (Responsible Party or Designee) <b>Anni Krenl</b>		PHONE NO. <b>510-420-3335</b>	EMAIL <b>SheilOaklandEDF@cambridge-env.com</b>
PROJECT CONTACT (Name, Title or POC Request to) <b>Leon Gearhart</b>		SAMPLER NAME(S) (Print): <b>Shawn O'Poryan</b>		CONSULTANT PROJECT NO. <b>BTS #020226-500</b>	
TELEPHONE <b>408-573-0535</b>	FAX <b>408-573-7771</b>	EMAIL <b>lgearhart@blainetech.com</b>	LAB USE ONLY		

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

1A - RWQCB REPORT FORMAT  1ST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES: \_\_\_\_\_ CHECK BOX IF EDD IS NEEDED

## REQUESTED ANALYSIS

Field Sample Identification	SAMPLING DATE	TIME	MATRIX	NO. OF CONFL.	TPH - Gas, Purgeable	BTEX	MTBE (R219 - 8ppb RL)	MTBE (R2208 - 0.8ppb RL)	Oxymethole (a) by (R2201)	Ethanol (R2201B)	Methanol	1,1-DCA (R2201B)	DOA (R2201B)	TPH - Diesel, Extractable (R215m)	MTBE (R2201) Confirmation, See Note	MTBE, Oxymethole	TMA
MW-1	2/26/02	1218	W	3	X	X	X					X	X			X	X
MW-2		1207			X	X	X					X	X			X	X
MW-3		1218			X	X	X					X	X			X	X
MW-4		1306			X	X	X					X	X			X	X
MW-6		1253		2	X	X	X					X	X			X	X

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

TEMPERATURE ON RECEIPT C°

Requested by (Signature):	Received by (Signature): _____	Date: _____	Time: _____
Requested by (Signature): _____	Received by (Signature): _____	Date: _____	Time: _____
Requested by (Signature): _____	Received by (Signature): _____	Date: _____	Time: _____

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

10/16/00 Revision

2025-020 (9/17) Graphing O&P

EQU. 7-1 V2 (REV) 10:08 BLAINE TECH SERVICES, INC TEL: 408 573 7771 P. 002

# EQUIVA Services LLC Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

**Equiva Project Manager to be invoiced:**

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Karen Petryna

25014

INCIDENT NUMBER (SEE ONLY)

9 8 9 9 5 7 4 2

SAP or CRMT NUMBER (TS/CRMT)

DATE: 2/26/02

PAGE: 1 of 1

SAMPLING COMPANY: <b>Blaine Tech Services</b>		LOG CODE: <b>BTSS</b>	SITE ADDRESS (Street and City): <b>8930 Bancroft Avenue, Oakland</b>		GLOBAL ID NO.:
ADDRESS: <b>1680 Rogers Avenue, San Jose, CA 95112</b>		EDF DELIVERABLE TO (Responsible Party or Designee): <b>Anni Kreml</b>		PHONE NO.: <b>510-420-3335</b>	E-MAIL: <b>ShellOaklandEDF@cambria-env.com</b>
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Leon Gearhart</b>		CONSULTANT PROJECT NO.: <b>BTS # 020026-503</b>		LAB USE ONLY	
TELEPHONE: <b>408-573-0555</b>	FAX: <b>408-573-7771</b>	E-MAIL: <b>lgearhart@blainetech.com</b>		SAMPLER NAME(S) (PPE): <b>Shawn O'Boyan</b>	

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

LA - RWQCB REPORT FORMAT  UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDO IS NEEDED

**REQUESTED ANALYSIS**

TPH - Gas, Purgeable	BTEX	MTBE (6021B - 5ppb RL)	MTBE (6260B - 0.5ppb RL)	Oxygenates (5) by (6260B)	Ethanol (6260B)	Methanol	1,2-DCA (6260B)	EDB (6260B)	TPH - Diesel, Extractable (6015m)	MTBE (6260B) Confirmation, See Note
MW-1	X	X	X							
MW-2	X	X	X							
MW-3	X	X	X							
MW-4	X	X	X							
MW-6	X	X	X							

**FIELD NOTES:**

Container/Preservative  
or PID Readings  
or Laboratory Notes

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.
		DATE	TIME		
	MW-1	2/26/02	1248	W	3
	MW-2	1	1207		
	MW-3	1	1248		
	MW-4	1	1306		
	MW-6	1	1233		2

Relinquished by (Signature):	Received by (Signature):	Date: <u>2/27/02</u>	Time: <u>11:10</u>
Relinquished by (Signature):	Received by (Signature):	Date: _____	Time: _____
Relinquished by (Signature):	Received by (Signature):	Date: <u>022702</u>	Time: <u>1122</u>

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





## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>020312-MM2</u>	Site: <u>8930 BANCROFT, OAKLAND</u>
Sampler: <u>MSM</u>	Date: <u>3-12-02</u>
Well I.D.: <u>PUMP (89 OCTANE)</u>	Well Diameter: 2 3 4 6 8
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC      Grade	D.O. Meter (if req'd): YSI      HACH

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

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

(Gals.) X _____	=	_____ Gals.
I Case Volume	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations

Did well dewater? Yes      No      Gallons actually evacuated: \_\_\_\_\_

Sampling Time: 1612      Sampling Date: 3-12-02

Sample I.D.: 89 OCTANE      Laboratory: Sequoia      Columbia      Other: WEST HOLLOW

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

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
--------------------	------------	----	-------------	----

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>020312-MMZ</u>	Site: <u>8930 BANCROFT, OAKLAND</u>
Sampler: <u>[REDACTED] MJM</u>	Date: <u>3-12-02</u>
Well I.D.: <u>Pump (87 OCTANE)</u>	Well Diameter: 2 3 4 6 8
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> <u>HACH</u>

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other: \_\_\_\_\_

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: \_\_\_\_\_

\_\_\_\_\_ (Gals.) X \_\_\_\_\_ = \_\_\_\_\_ Gals.  
 1 Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations

Did well dewater? Yes  No  Gallons actually evacuated: \_\_\_\_\_

Sampling Time: ~~87 OCTANE~~ 1611 Sampling Date: 3-12-02

Sample I.D.: 87 OCTANE Laboratory: Sequoia Columbia Other: WEST HOLLOW

Analyzed for: TPH-G BTEX MTBE TPH-D Other: FUSE FINGER PRINT

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

## EQUIVA WELL MONITORING DATA SHEET

BTS #: 020512-mm2	Site: 8930 BANCROFT, OAKLAND
Sampler: MATHEW	Date: 3-12-02
Well I.D.: PUMP (91 OCTANE)	Well Diameter: 2 3 4 6 8
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

Bailer  
 Disposable Bailer  
 Middleburg  
 Electric Submersible  
 Waterra  
 Peristaltic  
 Extraction Pump  
 Other \_\_\_\_\_

Sampling Method: Bailer

Disposable Bailer  
 Extraction Port  
 Dedicated Tubing  
 Other: \_\_\_\_\_

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

(Gals.) X \_\_\_\_\_ = \_\_\_\_\_ Gals.  
 1 Case Volume      Specified Volumes      Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations

Did well dewater? Yes  No  Gallons actually evacuated: \_\_\_\_\_

Sampling Time: 1613      Sampling Date: 3-12-02

Sample I.D.: 91 OCTANE      Laboratory: Sequoia Columbia Other WEST HULLLOW

Analyzed for: TPH-G BTEX MTBE TPH-D Other: FUEL FINGER PRINT

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):	mV	Post-purge:	mV

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <b>020312-MM2</b>	Site: <b>8930 Bancroft</b>
Sampler: <b>mjm</b>	Date: <b>3/12/02</b>
Well I.D.: <b>MW.5</b>	Well Diameter: 2 <b>(3)</b> 4 6 8
Total Well Depth: <b>—</b>	Depth to Water: <b>8.84</b>
Depth to Free Product: <b>8.64</b>	Thickness of Free Product (feet): <b>0.20</b>
Referenced to: <b>(PVC)</b> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: \_\_\_\_\_

$$\frac{\text{Gals.} \times \text{Specified Volumes}}{\text{Case Volume}} = \text{Calculated Volume}$$

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
						<b>grab sample of product ~ 3/4 L water ~ 1/4 L of product</b>

Did well dewater? Yes  **(No)**  Gallons actually evacuated: **0**

Sampling Time: **1605** Sampling Date: **3/12/02**

Sample I.D.: **MW.5** Laboratory: Sequoia Columbia Other **Kief**

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



WELL GAUGING DATA

Project # 020226-803 Date 2/26/02 Client Equiva

Site 8930 Bancroft Way, Oakland 5895742

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	3					11.09	16.88	TOC	
MW-2	3					10.76	19.25		
MW-3	3					9.09	19.66		
MW-4	3	stinger / ORL				9.40	19.57		
MW-5	3	Free Product				9.87	19.64		
MW-6	3					10.14	19.70		↓
* Pulled ORL For gauging									



## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>020226-803</u>	Site: <u>989957R</u>
Sampler: <u>O'Ryan</u>	Date: <u>2/26/02</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>2 3/4</u> 4 6 8
Total Well Depth: <u>16.88</u>	Depth to Water: <u>11.09</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer      Water  
 Disposable Bailer      Peristaltic  
 Middleburg      Extraction Pump  
~~Electric Submersible~~      Other \_\_\_\_\_

Sampling Method: Bailer  
 Disposable Bailer  
 Extraction Port  
 Dedicated Tubing

Other: \_\_\_\_\_

$$2.1 \text{ (Gals.)} \times 3 = 6.3 \text{ Gals.}$$

Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
12:12	73.4	6.8	407	7200	2.5	Brown
12:13	72.0	6.8	377	7200	4.5	"
12:14	69.5	6.6	363	7200	6.5	"

Did well dewater?    Yes  No       Gallons actually evacuated: 6.5

Sampling Time: 12:18      Sampling Date: 2/26/02

Sample I.D.: MW-1      Laboratory: Kiff    Sequoia    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

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>020226-803</u>	Site: <u>9895742</u>
Sampler: <u>D. Bongers</u>	Date: <u>2/26/02</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>2</u> 4 6 8
Total Well Depth: <u>19.20</u>	Depth to Water: <u>10.76</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACII

Purge Method: Bailer      Water  
 Disposable Bailer      Peristaltic  
 Middleburg      Extraction Pump  
 Electric Submersible      Other \_\_\_\_\_

Sampling Method: Bailer  
 Disposable Bailer  
 Extraction Port  
 Dedicated Tubing  
 Other: \_\_\_\_\_

3.1 (Gals.) X 3 = 9.3 Gals.  
 1 Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.17
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1159	74.1	7.3	1327	7200	4	Brown
1200	70.9	7.4	583	7200	8	
1201	69.8	7.2	395	7200	12	↓

Did well dewater? Yes  No       Gallons actually evacuated: 12

Sampling Time: 1207      Sampling Date: 2/26/02

Sample I.D.: MW-2      Laboratory: Riff Sequoia 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

# EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>020296-80-3</u>	Site: <u>9899.572</u>
Sampler: <u>O'Boyan</u>	Date: <u>2/26/02</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>3</u> 4 6 8
Total Well Depth: <u>19.66</u>	Depth to Water: <u>9.87 9.09</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method: Bailer      Water      Sampling Method: Bailer  
 Disposable Bailer      Peristaltic      Disposable Bailer  
 Middleburg      Extraction Pump      Extraction Port  
 Electric Submersible      Other \_\_\_\_\_      Dedicated Tubing

Other: \_\_\_\_\_

<u>3.9</u> (Gals.) X <u>3</u> = <u>11.7</u> Gals.	
Case Volume	Specified Volumes
	Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>1212</u>						
<u>1227</u>	<u>69.7</u>	<u>6.7</u>	<u>583</u>	<u>7200</u>	<u>4</u>	<u>Blackening/Odor-Free</u>
<u>1213</u>						
<u>1228</u>	<u>69.6</u>	<u>6.3</u>	<u>585</u>	<u>7200</u>	<u>8</u>	<u>2.1</u>
<u>1211</u>						
<u>1229</u>	<u>69.5</u>	<u>6.3</u>	<u>523</u>	<u>7200</u>	<u>12</u>	<u>1.7</u>

Did well dewater? Yes  No  Gallons actually evacuated: 12

Sampling Time: 1233 1248 Sampling Date: 2/26/02

Sample I.D.: MW-3 Laboratory: KIFF Sequoia 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): <u>Pre-purge: 0.6</u> mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd): <u>Pre-purge: _____</u> mV	Post-purge: _____ mV

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>020226-80-3</u>	Site: <u>98995742</u>
Sampler: <u>O'Boyan</u>	Date: <u>2/26/02</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 <u>(3)</u> 4 6 8
Total Well Depth: <u>19.57</u>	Depth to Water: <u>9.40</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:  Bailer       Water      Sampling Method:  Bailer

Disposable Bailer       Peristaltic       Disposable Bailer

Middleburg       Extraction Pump       Extraction Port

Electric-Submersible       Other \_\_\_\_\_       Dedicated Tubing

Other: \_\_\_\_\_

3.8 (Gals.) X 3 = 11.4 Gals.

I Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>1300</u>	<u>70.9</u>	<u>6.8</u>	<u>895</u>	<u>2200</u>	<u>2</u>	<u>Black/Grey/odorless</u>
<u>1301</u>	<u>70.0</u>	<u>7.1</u>	<u>376</u>	<u>2200</u>	<u>8</u>	<u>Brown/No odor</u>
<u>1302</u>	<u>68.8</u>	<u>7.1</u>	<u>359</u>	<u>2200</u>	<u>12</u>	<u>"</u>

Did well dewater? Yes  No  Gallons actually evacuated: 12

Sampling Time: 1306 Sampling Date: 2/26/02

Sample I.D.: MW-4 Laboratory:  Kiff       Sequoia       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): <u>Pre-purge:</u> <u>0.7</u> <small>mg/L</small>	Post-purge: _____ <small>mg/L</small>
D.R.P. (if req'd): <u>Pre-purge:</u> _____ <small>mV</small>	Post-purge: _____ <small>mV</small>

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>020226-80-3</u>	Site: <u>98995742</u>
Sampler: <u>O'Byan</u>	Date: <u>2/26/02</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>19.64</u>	Depth to Water: <u>?</u>
Depth to Free Product: <u>9.87</u>	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:  Bailer       Waterra      Sampling Method:  Bailer  
 Disposable Bailer       Peristaltic       Disposable Bailer  
 Middleburg       Extraction Pump       Extraction Port  
 Electric Submersible      Other \_\_\_\_\_       Dedicated Tubing  
 Other \_\_\_\_\_

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
						Free product present in disposable Bailer, ~1" (200 ml, max). Released back in well due to no drums present on-site. No sampling performed.

Did well dewater?    Yes    No      Gallons actually evacuated: \_\_\_\_\_

Sampling Time: \_\_\_\_\_      Sampling Date: 2/26/02

Sample I.D.: \_\_\_\_\_      Laboratory: Kiff    Sequoia    Other \_\_\_\_\_

Analyzed for: TPH-G    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

# EQUIVA WELL MONITORING DATA SHEET

WTS #: <u>020226-893</u>	Site: <u>9899 5742</u>
Sampler: <u>0 Bongon</u>	Date: <u>2/26/02</u>
Well I.D.: <u>MW-C</u>	Well Diameter: 2 <u>(3)</u> 4 6 8
Total Well Depth: <u>19.70</u>	Depth to Water: <u>10.14</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Sample Method:  Bailer       Disposable Bailer       Middleburg       Electric Submersible  
 Water:  Peristaltic       Extraction Pump       Other \_\_\_\_\_  
 Sampling Method:  Bailer       Disposable Bailer       Extraction Port       Dedicated Tubing  
 Other: \_\_\_\_\_

$$\underline{3.5} \text{ (Gals.)} \times \underline{3} = \underline{10.5} \text{ Gals.}$$

Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>1227</u>	<u>68.6</u>	<u>6.7</u>	<u>461</u>	<u>7200</u>	<u>4</u>	<u>Black Green Odor Fe</u>
<u>1228</u>	<u>68.4</u>	<u>6.4</u>	<u>727</u>	<u>7200</u>	<u>8</u>	
<u>1229</u>	<u>68.1</u>	<u>6.5</u>	<u>750</u>	<u>7200</u>	<u>12</u>	

Did well dewater?    Yes     No       Gallons actually evacuated: 12

Sampling Time: 1223      Sampling Date: 2/26/02

Sample I.D.: MW-C      Laboratory: Kiff    Sequoia    Other \_\_\_\_\_

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

SB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D. (if applicable): \_\_\_\_\_

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

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

**ATTACHMENT B**

**Blaine Groundwater Monitoring Report  
and Field Notes – Second Quarter 2002**

BLAINE  
TECH SERVICES, INC.



1680 ROGERS AVENUE  
SAN JOSE, CA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE  
CONTRACTOR'S LICENSE #746684  
www.blainetech.com

June 19, 2002

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

Second Quarter 2002 Groundwater Monitoring at  
Shell-branded Service Station  
8930 Bancroft Avenue  
Oakland, CA

Monitoring performed on June 6, 2002

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**Groundwater Monitoring Report 020606-MM-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 Shell Martinez Manufacturing Complex.

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

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



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

Please call if you have any questions.

Yours truly,

Leon Gearhart  
Project Coordinator

LG/jt

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

cc: Anni Kreml  
Cambria Environmental Technology, Inc.  
1144 65<sup>th</sup> Street, Suite C  
Oakland, CA 94608-2411

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**8930 Bancroft Avenue**  
**Oakland, CA**  
**Wic #204-5508-1305**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (mg/L)
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MW-1	12/17/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	53.19	11.87	NA	41.32	NA	NA
MW-1	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	8.21	NA	44.98	NA	NA
MW-1	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	15.04	NA	38.15	NA	NA
MW-1	09/30/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	16.02	NA	37.17	NA	NA
MW-1	12/23/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	14.78	NA	38.41	NA	NA
MW-1	03/22/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	8.44	NA	44.75	NA	NA
MW-1	06/01/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	13.71	NA	39.48	NA	NA
MW-1	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	14.95	NA	38.24	NA	NA
MW-1	12/04/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	5.82	NA	53.19	13.85	NA	39.34	NA	NA
MW-1	03/09/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	9.07	NA	44.12	NA	NA
MW-1	06/27/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	53.19	14.90	NA	38.29	NA	NA
MW-1	09/20/2001	NA	NA	NA	NA	NA	NA	NA	NA	53.19	15.53	NA	37.66	NA	NA
MW-1	12/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	53.19	10.41	NA	42.78	NA	3.8
MW-1	02/26/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	53.19	11.09	NA	42.10	NA	NA
MW-1	06/06/2002	NA	NA	NA	NA	NA	NA	NA	NA	53.19	14.13	NA	39.06	NA	NA

MW-2	12/17/1998	9,900	NA	<5.0	37	22	47	48	<20	52.66	11.65	NA	41.01	NA	NA
MW-2	03/09/1999	2,760	NA	12.3	7.50	85.4	444	<50.0	NA	52.66	8.07	NA	44.59	NA	NA
MW-2	06/16/1999	2,570	NA	36.3	11.6	6.19	10.8	<50.0	NA	52.66	14.63	NA	38.03	NA	NA
MW-2	09/30/1999	1,960	NA	19.1	3.20	4.55	26.9	<25.0	NA	52.66	15.63	NA	37.03	NA	NA
MW-2	12/23/1999	145	NA	1.30	<0.500	<0.500	0.899	<2.50	NA	52.66	14.42	NA	38.24	NA	NA
MW-2	03/22/2000	6,060	NA	18.9	<10.0	210	651	<100	NA	52.66	8.19	NA	44.47	NA	NA
MW-2	06/01/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	52.66	11.46	NA	41.20	NA	NA
MW-2	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	52.66	14.63	NA	38.03	NA	NA
MW-2	12/04/2000	201	NA	1.35	<0.500	3.39	8.58	<2.50	NA	52.66	13.45	NA	39.21	NA	NA
MW-2	03/09/2001	396	NA	2.82	<0.500	8.69	18.7	<2.50	NA	52.66	8.89	NA	43.77	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**8930 Bancroft Avenue**  
**Oakland, CA**  
**Wic #204-5508-1305**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (mg/L)
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MW-2	06/27/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	52.66	14.88	NA	37.78	NA	NA
MW-2	09/20/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	52.66	15.19	NA	37.47	NA	NA
MW-2	12/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	52.66	10.02	NA	42.64	NA	2.8
MW-2	02/26/2002	180	NA	<0.50	<0.50	2.7	4.1	NA	<0.50	52.66	10.76	NA	41.90	NA	NA
MW-2	06/06/2002	NA	NA	NA	NA	NA	NA	NA	NA	52.66	13.83	NA	38.83	NA	NA

MW-3	12/17/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	10	11	51.30	11.85	NA	39.45	NA	NA
MW-3	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.30	6.53	NA	44.77	NA	NA
MW-3	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.30	12.71	NA	38.59	NA	NA
MW-3	09/30/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	5.14	NA	51.30	14.07	NA	37.23	NA	NA
MW-3	12/23/1999	<500	NA	<5.00	<5.00	<5.00	<5.00	<25.0	NA	51.30	12.82	NA	38.48	NA	NA
MW-3	03/22/2000	<50.0	NA	<0.500	1.48	<0.500	1.90	<5.00	NA	51.30	6.81	NA	44.49	NA	NA
MW-3	06/01/2000	<50.0	NA	<0.500	0.821	<0.500	<0.500	4.39	NA	51.30	11.85	NA	39.45	NA	NA
MW-3	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	3.62	NA	51.30	12.55	NA	38.75	NA	NA
MW-3	12/04/2000	<50.0	NA	<0.500	<0.500	<0.500	0.588	4.74	NA	51.30	11.65	NA	39.65	NA	NA
MW-3	03/09/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	51.30	7.28	NA	44.02	NA	NA
MW-3	06/27/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	51.30	13.16	NA	38.14	NA	NA
MW-3	09/20/2001	NA	NA	NA	NA	NA	NA	NA	NA	51.30	13.35	NA	37.95	NA	NA
MW-3	12/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	51.30	8.14	NA	43.16	NA	1.2
MW-3	02/26/2002	<50	NA	<0.50	7.2	<0.50	<0.50	NA	1.5	51.30	9.09	NA	42.21	NA	0.6
MW-3	06/06/2002	NA	NA	NA	NA	NA	NA	NA	NA	51.30	12.13	NA	39.17	NA	0.8

MW-4	12/17/1998	700	NA	4.3	0.88	<0.50	<0.50	21,000	26,000	50.73	10.80	NA	39.93	NA	NA
MW-4	03/09/1999	83.9	NA	<0.500	<0.500	<0.500	<0.500	17,900	23,700	50.73	6.91	NA	43.82	NA	NA
MW-4	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	10,600	19,200	50.73	12.84	NA	37.89	NA	NA
MW-4	09/30/1999	51.2	NA	<0.500	<0.500	<0.500	<0.500	12,200	12,300	50.73	13.74	NA	36.99	NA	NA
MW-4	12/23/1999	<100	NA	<1.00	<1.00	<1.00	<1.00	7,990	8,400	50.73	12.40	NA	38.33	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**8930 Bancroft Avenue**  
**Oakland, CA**  
**Wic #204-5508-1305**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (mg/L)
MW-4	03/22/2000	<500	NA	<5.00	<5.00	<5.00	<5.00	4,970	5,020	50.73	7.32	NA	43.41	NA	NA
MW-4	06/01/2000	<100	NA	<1.00	<1.00	<1.00	<1.00	5,260	3,580	50.73	11.50	NA	39.23	NA	NA
MW-4	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	3,610	3,300a	50.73	12.55	NA	38.18	NA	NA
MW-4	12/04/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	2,960	3,520a	50.73	11.77	NA	38.96	NA	NA
MW-4	03/09/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	1,930	2,500	50.73	7.48	NA	43.25	NA	NA
MW-4	06/27/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	1,100	1,100	50.73	12.97	NA	37.76	NA	NA
MW-4	09/20/2001	<250	NA	3.8	14	2.6	7.8	NA	940	50.73	13.30	NA	37.43	NA	NA
MW-4	12/05/2001	<200	NA	<2.0	<2.0	<2.0	<2.0	NA	750	50.73	8.41	NA	42.32	NA	1.2
MW-4	02/26/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	320	50.73	9.40	NA	41.33	NA	0.7
MW-4	06/06/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	160	50.73	11.97	NA	38.76	NA	0.6
MW-5	12/17/1998	750	NA	<0.50	17	1.8	3.5	33	32	51.43	11.51	NA	39.92	NA	NA
MW-5	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.43	7.15	NA	44.28	NA	NA
MW-5	06/16/1999	646	NA	9.26	1.05	<1.00	<1.00	<10.0	NA	51.43	13.47	NA	37.96	NA	NA
MW-5	09/30/1999	484	NA	1.93	0.511	<0.500	<0.500	159	NA	51.43	14.41	NA	37.02	NA	NA
MW-5	12/23/1999	944	NA	4.59	17.7	3.79	16.7	214	NA	51.43	14.07	NA	37.36	NA	NA
MW-5	03/22/2000	8,770	NA	197	96.5	<50.0	188	2,450	NA	51.43	7.31	NA	44.12	NA	NA
MW-5	06/01/2000	227	NA	0.565	<0.500	<0.500	<0.500	35.9	NA	51.43	12.15	NA	39.28	NA	NA
MW-5	09/08/2000	159	NA	0.606	<0.500	<0.500	1.74	1,000	NA	51.43	13.30	NA	38.13	NA	NA
MW-5	12/04/2000	1,510	NA	19.2	<10.0	<10.0	134	1,360	NA	51.43	12.19	NA	39.24	NA	NA
MW-5	03/09/2001	3,460	NA	37.9	121	40.6	208	235	NA	51.43	7.79	NA	43.64	NA	NA
MW-5	06/27/2001	310	NA	0.97	<0.50	<0.50	<0.50	14	NA	51.43	13.89	NA	37.54	NA	NA
MW-5	09/20/2001	310	NA	<0.50	<0.50	<0.50	<0.50	NA	21	51.43	13.95	NA	37.48	NA	NA
MW-5	12/05/2001	8,800	NA	14	2.9	33	410	NA	2,300	51.43	8.89	NA	42.54	NA	0.6
MW-5	02/26/2002	NA	NA	NA	NA	NA	NA	NA	NA	51.43	9.87	NA	NA	b	NA
MW-5	03/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	51.43	8.84	8.64	42.75	0.20	NA
MW-5	06/06/2002	NA	NA	NA	NA	NA	NA	NA	NA	51.43	12.59	12.54	38.88	0.05	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**8930 Bancroft Avenue**  
**Oakland, CA**  
**Wic #204-5508-1305**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (mg/L)
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MW-6	12/17/1998	940	NA	27	0.32	2.4	2.3	3.0	3.2	51.88	11.37	NA	40.51	NA	NA
MW-6	03/09/1999	336	NA	7.78	1.60	2.40	6.36	<10.0	NA	51.88	8.10	NA	43.78	NA	NA
MW-6	06/16/1999	308	NA	2.45	<0.500	<0.500	<0.500	7.39	NA	51.88	14.49	NA	37.39	NA	NA
MW-6	09/30/1999	80.2	NA	<0.500	<0.500	<0.500	<0.500	24.8	NA	51.88	15.30	NA	36.58	NA	NA
MW-6	12/23/1999	149	NA	0.518	<0.500	<0.500	<0.500	6.43	NA	51.88	13.19	NA	38.69	NA	NA
MW-6	03/22/2000	382	NA	3.31	2.18	0.619	2.35	5.61	NA	51.88	8.27	NA	43.61	NA	NA
MW-6	06/01/2000	158	NA	0.830	<0.500	<0.500	1.10	10.9	NA	51.88	11.13	NA	40.75	NA	NA
MW-6	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	51.88	14.28	NA	37.60	NA	NA
MW-6	12/04/2000	231	NA	4.93	<0.500	<0.500	<0.500	4.57	NA	51.88	12.62	NA	39.26	NA	NA
MW-6	03/09/2001	789	NA	11.6	2.72	<2.00	<2.00	28.0	NA	51.88	8.65	NA	43.23	NA	NA
MW-6	06/27/2001	140	NA	<0.50	1.1	<0.50	<0.50	<2.5	NA	51.88	14.95	NA	36.93	NA	NA
MW-6	09/20/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	51.88	14.70	NA	37.18	NA	NA
MW-6	12/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	51.88	9.62	NA	42.26	NA	1.8
MW-6	02/26/2002	130	NA	<0.50	2.6	0.69	4.1	NA	6.4	51.88	10.14	NA	41.74	NA	NA
MW-6	06/06/2002	NA	NA	NA	NA	NA	NA	NA	NA	51.88	13.52	NA	38.36	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**8930 Bancroft Avenue**  
**Oakland, CA**  
**Wic #204-5508-1305**

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

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to September 20, 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 September 20, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

SPH = Separate-phase hydrocarbons

GW = Groundwater

ug/L = Parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

NA = Not applicable

DO = Dissolved oxygen

mg/L = Parts per million

**Notes:**

a = This sample analyzed outside of EPA recommended holding time.

b = SPH detected in well, but exact thickness could not be measured.

When separate-phase hydrocarbons are present, groundwater elevation is adjusted using the relation:

$$\text{Groundwater Elevation} = \text{Top-of-Casing Elevation} - \text{Depth to Water} + (0.8 \times \text{Hydrocarbon Thickness}).$$



Report Number : 26781

Date : 6/13/02

Leon Gearhart  
Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Subject : 1 Water Sample  
Project Name : 8930 Bancroft Avenue, Oakland  
Project Number : 020606-MM1  
P.O. Number : 98995742

Dear Mr. Gearhart,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large, looping initial "J".

Joel Kiff



Report Number : 26781

Date : 6/13/02

Project Name : 8930 Bancroft Avenue, Oakland

Project Number : 020606-MM1

Sample : MW-4

Matrix : Water

Lab Number : 26781-01

Sample Date :6/6/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.50	0.50	ug/L	EPA 8260B	6/11/02
<b>Toluene</b>	< 0.50	0.50	ug/L	EPA 8260B	6/11/02
<b>Ethylbenzene</b>	< 0.50	0.50	ug/L	EPA 8260B	6/11/02
<b>Total Xylenes</b>	< 0.50	0.50	ug/L	EPA 8260B	6/11/02
<b>Methyl-t-butyl ether (MTBE)</b>	160	5.0	ug/L	EPA 8260B	6/11/02
<b>TPH as Gasoline</b>	< 50	50	ug/L	EPA 8260B	6/11/02
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	6/11/02
4-Bromofluorobenzene (Surr)	92.1		% Recovery	EPA 8260B	6/11/02

Approved By:  Joel Kiff



Report Number : 26781

Date : 6/13/02

**QC Report : Method Blank Data**

Project Name : **8930 Bancroft Avenue, Oakland**

Project Number : **020606-MM1**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/10/02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/10/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/10/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/10/02
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	6/10/02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/10/02
Toluene - d8 (Sum)	99.6		%	EPA 8260B	6/10/02
4-Bromofluorobenzene (Surr)	96.3		%	EPA 8260B	6/10/02

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  \_\_\_\_\_  
Joel Kiff

Report Number : 26781

Date : 6/13/02

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 8930 Bancroft Avenue,

Project Number : 020606-MM1

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	26803-01	<0.50	40.0	40.0	41.5	40.1	ug/L	EPA 8260B	6/10/02	104	100	3.43	70-130	25
Toluene	26803-01	<0.50	40.0	40.0	38.9	38.2	ug/L	EPA 8260B	6/10/02	97.4	95.5	1.94	70-130	25
Tert-Butanol	26803-01	<5.0	200	200	202	205	ug/L	EPA 8260B	6/10/02	101	102	1.13	70-130	25
Methyl-t-Butyl Ether	26803-01	<0.50	40.0	40.0	40.1	40.2	ug/L	EPA 8260B	6/10/02	100	101	0.398	70-130	25

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

Report Number : 26781

Date : 6/13/02

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **8930 Bancroft Avenue,**

Project Number : **020606-MM1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	6/10/02	98.7	70-130
Toluene	40.0	ug/L	EPA 8260B	6/10/02	92.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/10/02	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/10/02	98.7	70-130

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff



WELL GAUGING DATA

Project # 020606-mm1 Date 6/6/02 Client Stell

Site 8930 Bancroft Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <u>TOC</u>	Pre Purge D.O.
mw-1	3					14.13	16.88		
mw-2	3					13.83	19.20		
mw-3	3					12.13	19.66		0.8
mw-4	3	gauged w/ stringer in well				11.97	19.57		
mw-5	3		12.54	0.05		12.57	19.63		0.6 <sup>Post</sup> purge
mw-6	3					13.52	19.70		

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>020606-MM1</u>	Site: <u>8930 Bancroft</u>
Sampler: <u>MTM</u>	Date: <u>6/6/02</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth: <u>19.57</u>	Depth to Water: <u>11.97</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd): <input checked="" type="radio"/> YSI <input type="radio"/> HACH

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Middleburg <input checked="" type="checkbox"/> Electric Submersible	Water: <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: _____
--	---	--

<u>2.8</u> (Gals.) X <u>3</u>	=	<u>8.4</u> Gals.	
1 Case Volume	Specified Volumes	Calculated Volume	

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>948</u>	<u>70.9</u>	<u>6.18</u>	<u>442</u>	<u>&gt;200</u>	<u>3</u>	<u>ods r / later bro</u>
<u>949</u>	<u>69.5</u>	<u>6.29</u>	<u>419</u>	<u>&gt;200</u>	<u>6</u>	<u>"</u>
<u>950</u>	<u>69.3</u>	<u>6.40</u>	<u>411</u>		<u>8.4</u>	<u>"</u>

Did well dewater? Yes  No  Gallons actually evacuated: 8.4

Sampling Time: 955 Sampling Date: 6/6/02

Sample I.D.: MW-4 Laboratory:  Kiff  Sequoia  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:	<u>0.6</u> mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>020606-MM1</u>	Site: <u>8930 Bancroft</u>
Sampler: <u>MTM</u>	Date: <u>6/6/02</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth: <u>19.63</u>	Depth to Water: <u>12.59</u>
Depth to Free Product: <u>12.54</u>	Thickness of Free Product (feet): <u>0.05</u>
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd): <input checked="" type="radio"/> YSI <input type="radio"/> HACH

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible	Water: <input type="checkbox"/> Peristaltic <input type="checkbox"/> Extraction Pump <input type="checkbox"/> Other _____	Sampling Method: <input checked="" type="radio"/> Bailer <input type="radio"/> Disposable Bailer <input type="radio"/> Extraction Port <input type="radio"/> Dedicated Tubing Other: _____
---	---	--

\_\_\_\_\_ (Gals.) X 3 = \_\_\_\_\_ Gals.  
 I Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
						<u>bailed ~ 75 ml product + ~ 1L H<sub>2</sub>O</u>

Did well dewater?    Yes   No      Gallons actually evacuated: 1L

Sampling Time: 1015      Sampling Date: 6/6/02

Sample I.D.: MW-5      Laboratory:  Kiff  Sequoia  Other \_\_\_\_\_

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

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):	mV	mV	mV

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>020606-MM1</u>	Site: <u>8930 Bancroft</u>
Sampler: <u>MTM</u>	Date: <u>6/6/02</u>
Well I.D.: <del>MW</del> <u>REGULAR 87OCTANE</u>	Well Diameter: 2 <u>(3)</u> 4 6 8
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method: Bailer Disposable Bailer Middleburg Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
---	--	--

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
						<u>sampled gas pump #1 for regular 87octane</u>
						<u>~ .504 gal</u>

Did well dewater?    Yes    No	Gallons actually evacuated: _____
Sampling Time: _____	Sampling Date: <u>6/6/02</u>
Sample I.D.: <u>MW</u>	Laboratory: <u>KIEF</u> Sequoia    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



## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>020606-MMI</u>	Site: <u>8930 Bancroft</u>
Sampler: <u>MTM</u>	Date: <u>6/6/02</u>
Well I.D.: <u>Plus 89octae</u>	Well Diameter: 2 (3) 4 6 8
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric Submersible	Water: <u>Peristaltic</u> Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
--	--	--

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
						<u>sampled gas pump ~ 4987 gal</u>

Did well dewater?    Yes    No                      Gallons actually evacuated: \_\_\_\_\_

Sampling Time: \_\_\_\_\_                      Sampling Date: 6/6/02

Sample I.D.: MW-                      Laboratory: Kiff    Sequoia    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

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>020606-MM1</u>	Site: <u>8930 Bancroft</u>
Sampler: <u>MTM</u>	Date: <u>6/6/02</u>
Well I.D.: <u>mw- Premium 9/16</u>	Well Diameter: 2" <input checked="" type="radio"/> 4" <input type="radio"/> 6" <input type="radio"/> 8" <input type="radio"/>
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method: Bailer      Waterra      Sampling Method: Bailer  
 Disposable Bailer      Peristaltic      Disposable Bailer  
 Middleburg      Extraction Pump      Extraction Port  
 Electric Submersible      Other \_\_\_\_\_      Dedicated Tubing  
 Other: \_\_\_\_\_

(Gals.) X 3 = \_\_\_\_\_ Gals.  
 I Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>sampled gas pump ~ 495 gal</u>						

Did well dewater?    Yes     No       Gallons actually evacuated: \_\_\_\_\_

Sampling Time: \_\_\_\_\_      Sampling Date: 6/6/02

Sample I.D.: MW-      Laboratory: Kiff    Sequoia    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



**ATTACHMENT C**

**Laboratory Analytical Reports for SPH Sampling**

X-Sender: jjones@mail.cambria-env.com  
X-Mailer: QUALCOMM Windows Eudora Pro Version 3.0.3 (32)  
Date: Wed, 07 Aug 2002 14:42:28 -0700  
To: jjones@cambria-env.com  
From: Jacquelyn Jones <jjones@cambria-env.com>  
Subject: FW: 8930 Bancroft Ave., Oakland, CA

-----Original Message-----

From: Milazzo, Julie JA OGUS-OGCH  
Sent: Tuesday, July 16, 2002 12:18 PM  
To: Petryna, Karen E Alliance  
Subject: 8930 Bancroft Ave., Oakland, CA

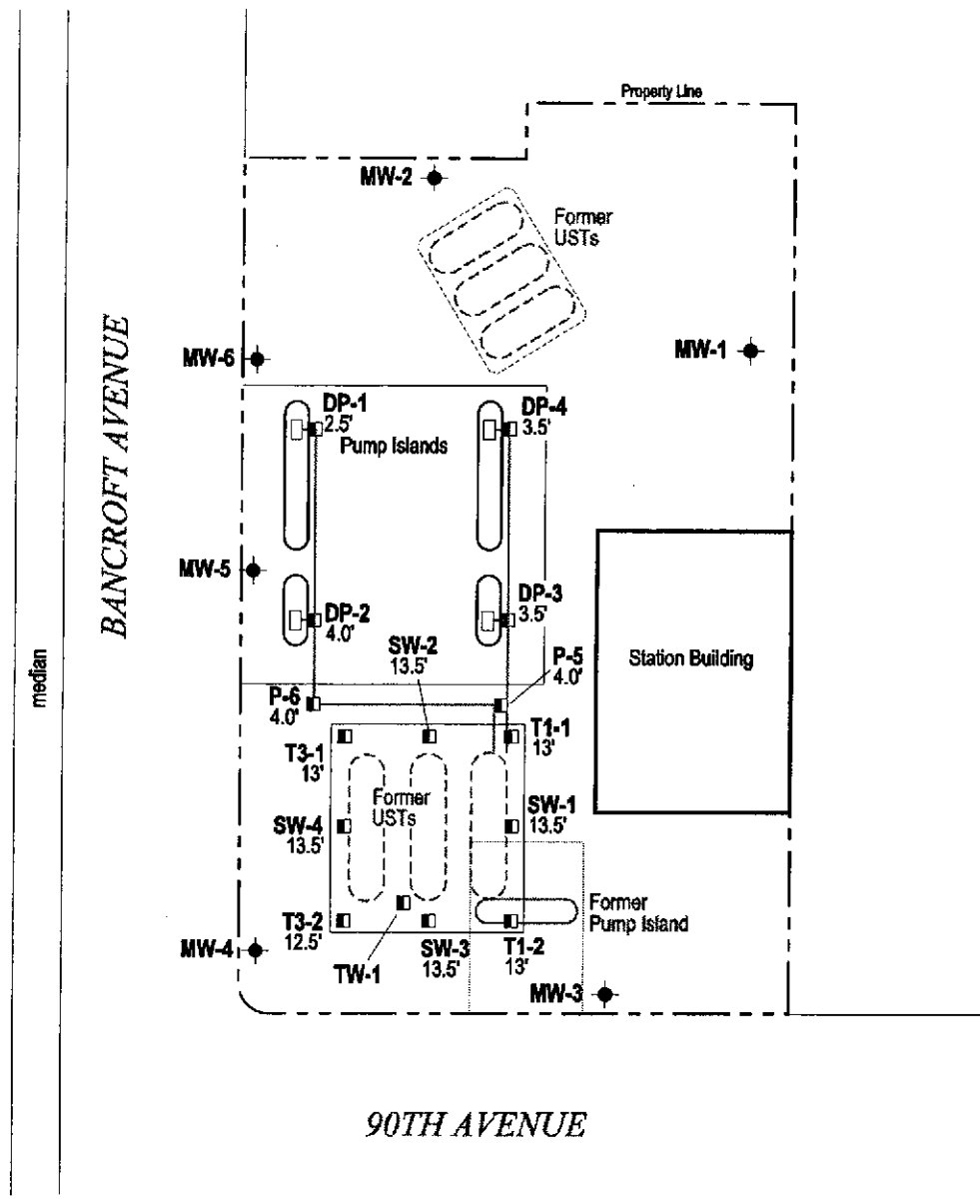
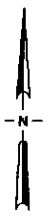
A sample of phase separated hydrocarbons (MW-4) and three reference samples (Premium, Plus and Regular) were collected from a retail facility located at 8930 Bancroft Ave., Oakland, CA and were received at Shell's Westhollow Technology Center (WTC) from Blaine Tech Services on 6/13/02.

The samples were analyzed at WTC to determine product type using gas chromatography with flame ionization detection (GC-FID). Total lead was determined using x-ray fluorescence. Speciation of organic lead and determination of MTBE were done using gas chromatography with mass selective detection (GC/MS).

The product sample from MW-4 contains unleaded, weathered gasoline. There are significant losses of volatile components most likely due to evaporation (isopentane is not detected and there is <1% n-pentane). MTBE was not detected (<0.01%) and sulfur is present at 40ppm. Based on the sulfur concentration, this material was most likely produced after 1996. In 1996 California lowered the maximum sulfur concentration in gasoline to 80ppm sulfur. This is likely a regular grade product. The material in MW-4 is different from the reference materials.

Shell Global Solutions (US) Inc.  
Westhollow Technology Center, 3333 Highway 6 South, Houston, TX  
77082-3101, USA

**ATTACHMENT D**  
**Previous Soil Sampling Results**



**EXPLANATION**

MW-1 Ground Water Monitoring Well

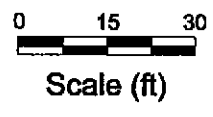


FIGURE  
**2**

G:\CADD\99\FIGURES\99\LOC.DWG

**Shell-branded Service Station**  
 8930 Bancroft Avenue  
 Oakland, California  
 Incident #98995742



C A M B R I A

**UST Removal  
 Sample Locations**

Table 1. Soil Analytical Data - Former Shell-branded Service Station, Incident #98995742, 8930 Bancroft Avenue, Oakland, California

Sample ID	Depth (ft)	Date Sampled	TPH(g)	MTBE	Benzene (Concentrations reported in milligrams/kilogram)	Toluene	Ethylbenzene	Xylenes	Lead
T1-1-13'	13	7/8/99	<1.0	6.6 (6.100)	<0.005	<0.005	<0.005	<0.005	8.9
T1-2-13'	13	7/8/99	3.2	0.67 (0.370)	<0.005	<0.005	<0.005	<0.005	9.1
T3-1-13'	11	7/8/99	<1.0	5.7 (6.200)	<0.005	<0.005	<0.005	<0.005	9.9
T3-2-12.5'	12.5	7/8/99	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	9.7
D/P-1-2.5'	2.5	7/8/99	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	10
D/P-2-4'	4	7/8/99	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	11
D/P-3-3.5'	3.5	7/8/99	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	9.5
D/P-4-3.5'	3.5	7/8/99	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	11
P-5-4'	4	7/8/99	12	0.92 (0.770)	<0.005	0.18	0.01	0.37	60
P-6-4'	4	7/8/99	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	9.4
SW-1-13.5'	13.5	7/15/99	<1.0	1.1 (1.400)	<0.005	<0.005	<0.005	<0.005	12
SW-2-13.5'	13.5	7/15/99	<1.0	1.2 (1.500)	<0.005	<0.005	<0.005	<0.005	11
SW-3-13.5'	13.5	7/15/99	<1.0	0.06 (0.071)	<0.005	<0.005	<0.005	<0.005	13
SW-4-13.5'	13.5	7/15/99	<1.0	0.19 (0.240)	<0.005	<0.005	<0.005	<0.005	10

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

MTBE = Methyl tert-butyl ether by EPA Method 8020.

(n) = MTBE by EPA method 8260 (converted from µg/kg to mg/kg)

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020

<n = Below detection limit of n mg/kg

NT = Not Tested



**Table 2. Groundwater Analytical Data - Former Shell-branded Service Station, Incident #98995742, 8930 Bancroft Avenue, Oakland, California**

Sample ID	Date Sampled	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	Lead	
		←—————			(Concentrations reported in micrograms/kilogram)				—————→
TW-1	7/8/99	7,100	2,000 (2,900)	8.9	8.2	25	17	7.8	

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

MTBE = Methyl ter-butyl ether by EPA method 8260

(n) = MTBE by EPA method 8260

BTEX = benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020

<n = Below detection limit of n mg/kg