

C A M B R I A

MAR 06 2002

February 28, 2002

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

Re: **Fourth Quarter 2001 Monitoring Report**  
Shell-branded Service Station  
1784 150th Avenue  
San Leandro, California  
Incident #98996068  
Cambria Project #244-0612-002



Dear Mr. Seery:

On behalf of Equiva Services LLC, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

#### **FOURTH QUARTER 2001 ACTIVITIES**

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

In addition to the usual gasoline constituents, all wells are analyzed quarterly for volatile organic compounds (VOCs) by EPA Method 8260B. No VOCs were reported this quarter, except 1,2-dichloroethane at 2.6 parts per billion in MW-3. Since 1992, the concentration of 1,2-dichloroethane in water has fluctuated between 0.85 and 99.9 parts per billion, and therefore Cambria proposed to reduce VOC monitoring to an annual schedule in the third quarter of 2001. Cambria will contact the caseworker prior to the first quarter 2001 monitoring event to confirm acceptance of the reduced monitoring proposal.

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

**Monitoring Well Installation:** On August 27, 2001 Cambria submitted an *Offsite Monitoring Well Installation Work Plan* for installing two downgradient monitoring wells to further define the extent of the dissolved gasoline plume and to monitor long-term plume stability. The work plan was approved by the Alameda County Health Care Services Agency on August 28, 2001.

Cambria completed the work on October 24, 2001 and submitted a monitoring well installation report on December 27, 2001. The new wells (MW-5 and MW-6) were developed on January 31, 2002 and will be added to the quarterly groundwater monitoring schedule beginning in the first quarter of 2002.

**ANTICIPATED FIRST QUARTER 2002 ACTIVITIES**

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


**Well Survey:** Cambria will prepare a well survey to identify potential receptors within a 1/2-mile radius of the site.

**CLOSING**

We appreciate the opportunity to work with you on this project. Please call Melody Munz at (510) 420-3324 if you have any questions or comments.

Sincerely,  
**Cambria Environmental Technology, Inc**

  
Melody Munz  
Project Engineer

  
Stephan A. Bork, C.E.G., C.HG.  
Associate Hydrogeologist

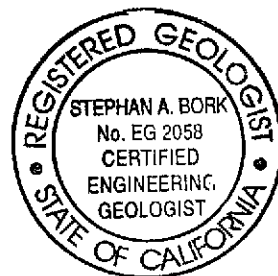


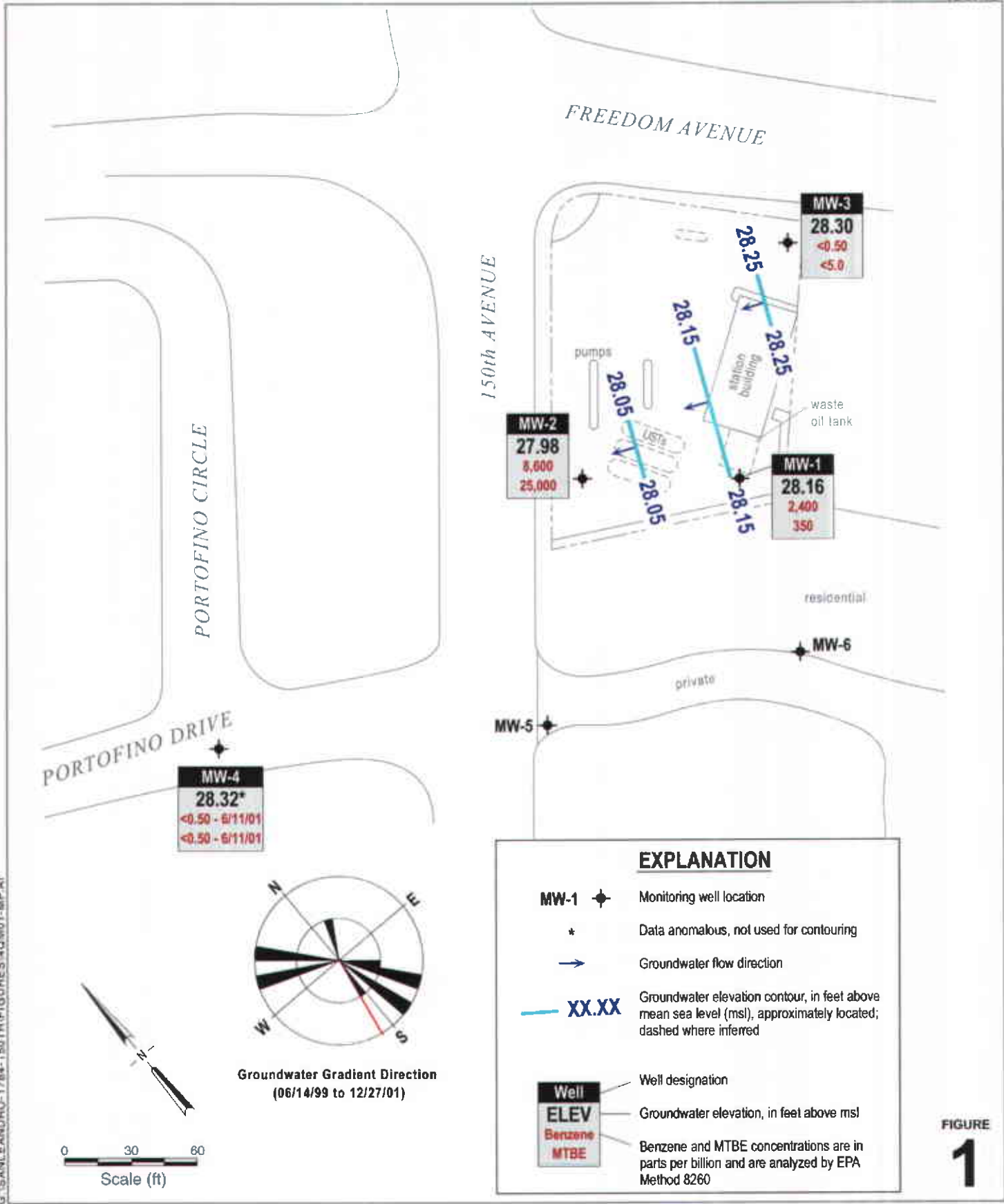
Figure: 1 - Groundwater Elevation Contour Map

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869

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G:\SANLEANDRO-1784-150TH\FIGURES\4QM01-MPA1



**EXPLANATION**

- MW-1 + Monitoring well location
- \* Data anomalous, not used for contouring
- Groundwater flow direction
- XX.XX Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred
- Well ELEV Benzene MTBE Well designation
- Groundwater elevation, in feet above msl
- Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260

**FIGURE 1**

**Shell-branded Service Station**  
 1784 150th Avenue  
 San Leandro, California  
 Incident #98996068



C A M B R I A

**Groundwater Elevation Contour Map**

December 27, 2001

**ATTACHMENT A**  
**Blaine Groundwater Monitoring Report**  
**and Field Notes**

**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

January 22, 2002

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

Fourth Quarter 2001 Groundwater Monitoring at  
Shell-branded Service Station  
1784 150<sup>th</sup> Avenue  
San Leandro, CA

Monitoring performed on December 27, 2001

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**Groundwater Monitoring Report 011227-MN-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, Ste. C  
Oakland, CA 94608

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**1784 150th Avenue**  
**San Leandro, CA**  
**Wic #204-6852-1404**

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.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-1	03/08/1990	510	120	1.5	0.8	<0.5	5.4	NA	NA	49.13	25.29	23.84	NA	NA
MW-1	06/12/1990	390	100	86	1.3	0.7	6.2	NA	NA	49.13	25.85	23.28	NA	NA
MW-1	09/13/1990	100	130	56	0.75	2.4	2.8	NA	NA	49.13	27.49	21.64	NA	NA
MW-1	12/18/1990	480	<50	54	1.7	3.3	3.7	NA	NA	49.13	27.41	21.72	NA	NA
MW-1	03/07/1991	80	<50	266	<0.5	1.2	<1.5	NA	NA	49.13	25.79	23.34	NA	NA
MW-1	06/07/1991	510	<50	130	3.8	6.1	11	NA	NA	49.13	25.64	23.49	NA	NA
MW-1	09/17/1991	330	120a	67	<0.5	3.0	2.2	NA	NA	49.13	27.54	21.59	NA	NA
MW-1	12/09/1991	140a	80	<0.5	<0.5	1.7	4.7	NA	NA	49.13	27.81	21.32	NA	NA
MW-1	02/13/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	25.57	23.56	NA	NA
MW-1	02/24/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	22.83	26.30	NA	NA
MW-1	02/27/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	23.09	26.04	NA	NA
MW-1	03/01/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	49.13	23.26	25.87	NA	NA
MW-1	06/03/1992	1,500	NA	520	180	72	230	NA	NA	49.13	24.64	24.49	NA	NA
MW-1	09/01/1992	130	NA	16	1.4	1.8	3.4	NA	NA	49.13	26.74	22.39	NA	NA
MW-1	10/06/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	27.18	21.95	NA	NA
MW-1	11/11/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	27.99	21.14	NA	NA
MW-1	12/04/1992	150	NA	360	0.7	1.8	2.1	NA	NA	49.13	27.14	21.99	NA	NA
MW-1	01/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	49.13	20.09	29.04	NA	NA
MW-1	02/10/1993	NA	NA	NA	NA	NA	NA	NA	NA	49.13	24.26	24.87	NA	NA
MW-1	03/03/1993	<50	NA	1.5	<0.5	<0.5	<0.5	NA	NA	49.13	20.50	28.63	NA	NA
MW-1	05/11/1993	NA	NA	NA	NA	NA	NA	NA	NA	49.13	21.70	27.43	NA	NA
MW-1	06/17/1993	1,600	NA	340	120	120	440	NA	NA	49.13	22.42	26.71	NA	NA
MW-1	09/10/1993	2,600	NA	670	340	310	730	NA	NA	49.13	24.11	25.02	NA	NA
MW-1	12/13/1993	11,000	NA	470	320	380	2,300	NA	NA	49.13	23.73	25.40	NA	NA
MW-1	03/03/1994	16,000	NA	700	690	480	3,200	NA	NA	49.13	22.08	27.05	NA	NA
MW-1	06/06/1994	7,500	NA	420	280	200	1,000	NA	NA	49.13	23.10	26.03	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**1784 150th Avenue**  
**San Leandro, CA**  
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MW-1	09/12/1994	1,200	NA	110	21	3.3	420	NA	NA	49.13	25.19	23.94	NA	NA
MW-1	12/19/1994	4,600	NA	470	330	230	1,300	NA	NA	49.13	23.06	26.07	NA	NA
MW-1	02/28/1995	500	NA	59	32	6.8	68	NA	NA	49.13	20.90	28.23	NA	NA
MW-1	03/24/1995	NA	NA	NA	NA	NA	NA	NA	NA	49.13	18.28	30.85	NA	NA
MW-1	06/26/1995	5,500	NA	740	420	300	1,800	NA	NA	49.13	20.40	28.73	NA	NA
MW-1	09/13/1995	84,000	NA	1,900	2,600	3,000	14,000	NA	NA	49.13	22.62	26.51	NA	NA
MW-1	12/19/1995	80,000	NA	660	350	170	18,000	NA	NA	49.13	22.10	27.03	NA	NA
MW-1	03/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	49.13	18.83	30.34	0.05	NA
MW-1	06/28/1996	270,000	NA	2,800	820	1,000	16,000	<0.5	NA	49.13	21.46	27.67	NA	NA
MW-1 (D)	06/28/1996	790,000	NA	2,200	780	1,000	13,000	15,000	NA	49.13	21.46	27.67	NA	NA
MW-1	09/26/1996	29,000	NA	1,100	260	270	1,900	<1,000	NA	49.13	23.57	25.57	0.01	NA
MW-1	09/26/1996	25,000	NA	1,200	320	240	1,900	<1,000	NA	49.13	NA	NA	NA	NA
MW-1	12/10/1996	13,000	NA	510	240	230	1,200	100	NA	49.13	21.43	27.70	NA	1.0
MW-1 (D)	12/10/1996	8,400	NA	420	130	140	680	81	NA	49.13	21.43	27.70	NA	1.0
MW-1	03/10/1997	4,200	NA	13	8.8	16	74	<12	NA	49.13	20.08	29.05	NA	2.0
MW-1 (D)	03/10/1997	5,100	NA	12	8.9	17	79	<25	NA	49.13	20.08	29.05	NA	2.0
MW-1	06/30/1997	5,700	NA	320	120	140	700	47	NA	49.13	21.68	27.45	NA	1.6
MW-1 (D)	06/30/1997	5,300	NA	300	95	120	580	45	NA	49.13	21.68	27.45	NA	1.6
MW-1	09/12/1997	6,300	NA	120	26	82	260	30	NA	49.13	21.78	27.35	NA	2.1
MW-1 b	12/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	49.13	20.78	28.35	NA	1.3
MW-1	02/02/1998	84	NA	5.1	<0.50	<0.50	2.1	2.5	NA	49.13	19.65	29.48	NA	2.0
MW-1	06/24/1998	13,000	NA	3,000	260	410	1,400	<250	NA	49.13	19.65	29.48	NA	2.5
MW-1 (D)	06/24/1998	12,000	NA	3,800	250	47	1,400	710	NA	49.13	19.65	29.48	NA	2.5
MW-1	08/26/1998	3,100	NA	1,200	27	170	50	88	NA	49.13	20.49	28.64	NA	2.1
MW-1	12/23/1998	45,000	NA	5,300	220	1,000	3,600	970	NA	49.13	21.22	27.91	NA	3.8
MW-1	03/01/1999	22,300	NA	2,540	436	753	3,370	<400	NA	49.13	19.27	29.86	NA	1.8



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MW-1	06/14/1999	18,800	NA	6,820	210	436	958	1,360	NA	49.13	20.80	28.33	NA	2.2
MW-1	09/28/1999	21,500	NA	7,470	281	467	927	1,800	NA	49.13	22.55	26.58	NA	2.0
MW-1	12/08/1999	22,300	NA	6,140	135	256	367	232	NA	49.13	23.12	26.01	NA	2.1
MW-1	03/14/2000	6,690	NA	1,880	63.5	134	307	460	NA	49.13	18.87	30.26	NA	2.3
MW-1	06/28/2000	8,080	NA	2,690	85.1	149	514	701	NA	49.13	21.12	28.01	NA	2.4
MW-1	09/06/2000	17,800	NA	7,390	212	329	1,270	<1,000	NA	49.13	21.90	27.23	NA	3.0
MW-1	12/14/2000	8,900	NA	4,870	79.2	106	370	1,840	673*	49.13	22.60	26.53	NA	2.0
MW-1	03/05/2001	7,520	NA	2,120	66.0	107	129	668	NA	49.13	20.06	29.07	NA	0.4
MW-1	06/11/2001	30,000	NA	7,400	390	600	2,300	NA	170	49.13	22.39	26.74	NA	1.6
MW-1	09/12/2001	23,000	NA	7,500	120	280	910	NA	320	49.13	23.37	25.76	NA	2.2
MW-1	12/27/2001	16,000	NA	2,400	190	330	1,500	NA	350	49.13	20.97	28.16	NA	1.3

MW-2	02/13/1992	NA	NA	NA	NA	NA	NA	NA	NA	45.83	22.22	23.61	NA	NA
MW-2	02/24/1992	17,000	2,700a	6,200	1,600	550	1,900	NA	NA	45.83	19.61	26.22	NA	NA
MW-2	02/27/1992	NA	NA	NA	NA	NA	NA	NA	NA	45.83	19.92	25.91	NA	NA
MW-2	03/01/1992	86,000	1,000a	30,000	34,000	2,300	16,000	NA	NA	45.83	21.11	24.72	NA	NA
MW-2	06/03/1992	87,000	NA	28,000	18,000	2,000	10,000	NA	NA	45.83	21.58	24.25	NA	NA
MW-2	09/01/1992	110,000	NA	21,000	13,000	1,900	7,800	NA	NA	45.83	23.46	22.37	NA	NA
MW-2	10/06/1992	NA	NA	NA	NA	NA	NA	NA	NA	45.83	23.99	21.84	NA	NA
MW-2	11/11/1992	NA	NA	NA	NA	NA	NA	NA	NA	45.83	24.25	21.58	NA	NA
MW-2	12/04/1992	42,000	NA	15,000	2,400	960	2,900	NA	NA	45.83	23.89	21.94	NA	NA
MW-2	01/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	45.83	17.03	28.80	NA	NA
MW-2	02/10/1993	NA	NA	NA	NA	NA	NA	NA	NA	45.83	18.08	27.75	NA	NA
MW-2	03/03/1993	160,000	NA	36,000	3,800	32,000	21,000	NA	NA	45.83	17.28	28.55	NA	NA
MW-2 (D)	03/03/1993	150,000	NA	31,000	3,100	20,000	14,000	NA	NA	45.83	17.28	28.55	NA	NA
MW-2	05/11/1993	NA	NA	NA	NA	NA	NA	NA	NA	45.83	18.41	27.42	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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-2	06/17/1993	65,000	NA	34,000	15,000	3,200	11,000	NA	NA	45.83	19.06	26.77	NA	NA
MW-2 (D)	06/17/1993	62,000	NA	28,000	14,000	2,700	10,000	NA	NA	45.83	19.06	26.77	NA	NA
MW-2	09/10/1993	72,000	NA	24,000	16,000	2,300	11,000	NA	NA	45.83	20.88	24.95	NA	NA
MW-2 (D)	09/10/1993	71,000	NA	23,000	15,000	2,300	10,000	NA	NA	45.83	20.88	24.95	NA	NA
MW-2	12/13/1993	19,000	NA	5,400	4,900	680	3,100	NA	NA	45.83	20.42	25.41	NA	NA
MW-2 (D)	12/13/1993	17,000	NA	6,200	5,500	720	3,500	NA	NA	45.83	20.42	25.41	NA	NA
MW-2	03/03/1994	110,000	NA	21,000	24,000	2,000	13,000	NA	NA	45.83	18.48	27.35	NA	NA
MW-2 (D)	03/03/1994	93,000	NA	19,000	22,000	1,800	12,000	NA	NA	45.83	18.48	27.35	NA	NA
MW-2	06/06/1994	10,000	NA	1,900	3,300	2,500	13,000	NA	NA	45.83	20.26	25.57	NA	NA
MW-2 (D)	06/06/1994	99,000	NA	9,900	12,000	2,400	12,000	NA	NA	45.83	20.26	25.57	NA	NA
MW-2	09/12/1994	160,000	NA	22,000	33,000	3,400	23,000	NA	NA	45.83	21.80	24.03	NA	NA
MW-2 (D)	09/12/1994	150,000	NA	23,000	34,000	3,500	23,000	NA	NA	45.83	21.80	24.03	NA	NA
MW-2	12/19/1994	80,000	NA	17,000	16,000	2,300	14,000	NA	NA	45.83	19.66	26.17	NA	NA
MW-2 (D)	12/19/1994	100,000	NA	28,000	26,000	3,400	20,000	NA	NA	45.83	19.66	26.17	NA	NA
MW-2	02/28/1995	100,000	NA	24,000	18,000	2,300	17,000	NA	NA	45.83	17.51	28.32	NA	NA
MW-2 (D)	02/28/1995	100,000	NA	31,000	21,000	3,200	18,000	NA	NA	45.83	17.51	28.32	NA	NA
MW-2	03/24/1995	NA	NA	NA	NA	NA	NA	NA	NA	45.83	14.88	30.95	NA	NA
MW-2	06/26/1995	45,000	NA	14,000	12,000	1,500	7,500	NA	NA	45.83	17.58	28.25	NA	NA
MW-2 (D)	06/26/1995	68,000	NA	13,000	11,000	1,800	7,700	NA	NA	45.83	17.58	28.25	NA	NA
MW-2	09/13/1995	110,000	NA	19,000	19,000	2,800	15,000	NA	NA	45.83	19.28	26.55	NA	NA
MW-2 (D)	09/13/1995	120,000	NA	20,000	20,000	2,900	15,000	NA	NA	45.83	19.28	26.55	NA	NA
MW-2	12/19/1995	180,000	NA	18,000	29,000	4,100	24,000	NA	NA	45.83	18.61	27.22	NA	NA
MW-2 (D)	12/19/1995	160,000	NA	18,000	28,000	3,800	24,000	NA	NA	45.83	18.61	27.22	NA	NA
MW-2	03/06/1996	120,000	NA	28,000	15,000	3,900	17,000	NA	NA	45.83	15.41	30.42	NA	NA
MW-2	06/28/1996	96,000	NA	20,000	20,000	4,100	22,000	2,400	NA	45.83	17.84	27.99	NA	NA
MW-2	09/26/1996	87,000	NA	7,600	11,000	2,500	15,000	990	840	45.83	19.60	26.23	NA	NA

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MW-2	12/10/1996	NA	NA	NA	NA	NA	NA	NA	NA	45.83	18.15	27.88	0.25	NA
MW-2	03/10/1997	NA	NA	NA	NA	NA	NA	NA	NA	45.83	17.02	28.97	0.20	NA
MW-2	06/30/1997	57,000	NA	3,600	4,600	1,300	9,700	2,300	NA	45.83	19.42	26.41	NA	2.4
MW-2	09/12/1997	88,000	NA	7,800	8,800	2,600	16,000	3,200	NA	45.83	19.40	26.43	NA	1.7
MW-2 (D)	09/12/1997	90,000	NA	8,300	9,400	2,700	17,000	3,400	NA	45.83	19.40	26.43	NA	1.7
MW-2 b	12/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	45.83	17.56	28.27	NA	1.3
MW-2	02/02/1998	<50	NA	0.6	1.9	0.93	6.0	9.3	NA	45.83	18.14	27.69	NA	2
MW-2 (D)	02/02/1998	56	NA	1.0	2.8	1.4	9.3	13	NA	45.83	18.14	27.69	NA	2
MW-2	06/24/1998	20,000	NA	<200	620	560	4,500	<1,000	NA	45.83	16.08	29.75	NA	2.4
MW-2	08/26/1998	22,000	NA	380	1,100	560	4,400	330	NA	45.83	19.25	26.58	NA	NA
MW-2 (D)	08/26/1998	11,000	NA	180	130	290	500	1,400	NA	45.83	19.25	26.58	NA	NA
MW-2	12/23/1998	100,000	NA	4,100	6,500	2,400	16,000	<500	NA	45.83	18.29	27.54	NA	3.8
MW-2	03/01/1999	50,800	NA	3,910	7,480	1,890	13,100	9,620	NA	45.83	22.81	23.02	NA	2.0
MW-2	06/14/1999	4,930	NA	128	270	139	1,040	2,200	2,540*	45.83	18.86	26.97	NA	1.6
MW-2	09/28/1999	16,200	NA	647	1,070	542	4,130	5,320	4,790	45.83	21.41	24.42	NA	1.8
MW-2	12/08/1999	25,700	NA	1,670	2,110	977	6,600	6,190	5,970	45.83	21.89	23.94	NA	1.8
MW-2	03/14/2000	45,100	NA	2,070	4,710	1,920	12,800	16,700	18,300*	45.83	15.57	30.26	NA	2.0
MW-2	06/28/2000	52,100	NA	5,150	4,200	1,880	13,300	15,500	13,500*	45.83	17.79	28.04	NA	1.9
MW-2	09/06/2000	39,500	NA	4,490	3,290	2,100	14,000	18,500	9,060*	45.83	18.65	27.18	NA	3.5
MW-2	12/14/2000	209	NA	3.51	1.11	1.00	64.4	79.4	NA	45.83	19.00	26.83	NA	1.5
MW-2	03/05/2001	38,200	NA	2,010	927	1,250	8,300	13,100	15,400	45.83	16.66	29.17	NA	1.0
MW-2	06/11/2001	50,000	NA	4,400	2,200	1,800	11,000	NA	26,000	45.83	18.93	26.90	NA	1.7
MW-2	09/12/2001	59,000	NA	6,100	2,800	2,300	14,000	NA	21,000	45.83	19.85	25.98	NA	1.6
MW-2	12/27/2001	74,000	NA	8,600	2,500	2,500	17,000	NA	25,000	45.83	17.85	27.98	NA	2.6
MW-3	02/13/1992	NA	NA	NA	NA	NA	NA	NA	NA	51.97	27.97	24.00	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**1784 150th Avenue**  
**San Leandro, CA**  
**Wic #204-6852-1404**

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.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-3	02/24/1992	4,500	1,300a	97	<5	78	18	NA	NA	51.97	25.60	26.37	NA	NA
MW-3	02/27/1992	NA	NA	NA	NA	NA	NA	NA	NA	51.97	25.88	26.09	NA	NA
MW-3	03/01/1992	2,200	440	69	<0.5	<0.5	<0.5	NA	NA	51.97	26.00	25.97	NA	NA
MW-3	06/03/1992	4,100	NA	13	72	44	65	NA	NA	51.97	27.70	24.27	NA	NA
MW-3	09/01/1992	1,900	NA	20	6.8	5.5	<5	NA	NA	51.97	29.46	22.51	NA	NA
MW-3 (D)	09/01/1992	1,900	NA	21	6.6	3.4	<5	NA	NA	51.97	29.46	22.51	NA	NA
MW-3	10/06/1992	NA	NA	NA	NA	NA	NA	NA	NA	51.97	30.01	21.96	NA	NA
MW-3	11/11/1992	NA	NA	NA	NA	NA	NA	NA	NA	51.97	30.26	21.71	NA	NA
MW-3	12/04/1992	2,400	NA	8.2	<5	<5	<5	NA	NA	51.97	29.93	22.04	NA	NA
MW-3 (D)	12/04/1992	2,100	NA	11	<0.5	5.7	<0.5	NA	NA	51.97	29.93	22.04	NA	NA
MW-3	01/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	51.97	22.76	29.21	NA	NA
MW-3	02/10/1993	NA	NA	NA	NA	NA	NA	NA	NA	51.97	21.40	30.57	NA	NA
MW-3	03/03/1993	5,100	NA	63	61	75	150	NA	NA	51.97	23.08	28.89	NA	NA
MW-3	05/11/1993	NA	NA	NA	NA	NA	NA	NA	NA	51.97	24.51	27.46	NA	NA
MW-3	06/17/1993	4,000	NA	94	140	82	150	NA	NA	51.97	25.21	26.76	NA	NA
MW-3	09/10/1993	3,200	NA	140	12.5	12.5	12.5	NA	NA	51.97	26.95	25.02	NA	NA
MW-3	12/13/1993	6,200	NA	<12.5	<12.5	<12.5	<12.5	NA	NA	51.97	26.52	25.45	NA	NA
MW-3	03/03/1994	4,500	NA	73	<5	<5	<5	NA	NA	51.97	24.50	27.47	NA	NA
MW-3	06/06/1994	3,200	NA	<0.5	<0.5	3.1	<0.5	NA	NA	51.97	26.33	25.64	NA	NA
MW-3	09/12/1994	3,900	NA	<0.5	<0.5	9.6	4.1	NA	NA	51.97	27.98	23.99	NA	NA
MW-3	12/19/1994	2,400	NA	21	22	4.2	2.6	NA	NA	51.97	25.63	26.34	NA	NA
MW-3	02/28/1995	4,000	NA	58	<0.5	7.1	3.5	NA	NA	51.97	23.45	28.52	NA	NA
MW-3	03/24/1995	NA	NA	NA	NA	NA	NA	NA	NA	51.97	21.07	30.90	NA	NA
MW-3	06/26/1995	3,900	NA	8.1	<0.5	12	2.4	NA	NA	51.97	23.64	28.33	NA	NA
MW-3	09/13/1995	4,100	NA	58	5.5	5.5	<0.5	NA	NA	51.97	25.40	26.57	NA	NA
MW-3	12/19/1995	3,600	NA	<0.5	4.3	2.1	1.1	NA	NA	51.97	24.53	27.44	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**1784 150th Avenue**  
**San Leandro, CA**  
**Wic #204-6852-1404**

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.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-3	03/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	51.97	21.59	30.41	0.04	NA
MW-3	06/28/1996	2,400	NA	55	<0.5	<0.5	11	120	NA	51.97	23.95	28.02	NA	NA
MW-3	09/26/1996	2,500	NA	<5.0	<5.0	<5.0	<5.0	160	NA	51.97	25.89	26.08	NA	NA
MW-3	12/10/1996	1,600	NA	28	4.2	<2.0	3.9	110	NA	51.97	24.22	27.75	NA	0.8
MW-3	03/10/1997	130	NA	<0.50	<0.50	<0.50	1.4	4.2	NA	51.97	23.05	28.92	NA	2.8
MW-3	06/30/1997	1,200	NA	21	2.3	<2.0	<2.0	69	NA	51.97	24.34	27.63	NA	2.3
MW-3	09/12/1997	440	NA	8.3	0.82	<0.50	1.9	3.4	NA	51.97	24.47	27.50	NA	1.9
MW-3 b	12/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	51.97	23.54	28.43	NA	0.8
MW-3	02/02/1998	400	NA	9.3	0.68	<0.50	<0.50	9	NA	51.97	21.92	30.05	NA	1.5
MW-3	06/24/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	51.97	22.35	29.62	NA	1.9
MW-3	08/26/1998	140	NA	7.4	<0.50	<0.50	2.5	13	NA	51.97	23.45	28.52	NA	1.3
MW-3	12/23/1998	1,200	NA	50	<2.0	<2.0	<2.0	69	NA	51.97	24.01	27.96	NA	4.2
MW-3	03/01/1999	2,550	NA	<0.500	<0.500	<0.500	0.658	32.4	NA	51.97	22.08	29.89	NA	2.0
MW-3	06/14/1999	514	NA	18.1	0.728	<0.500	<0.500	15.9	NA	51.97	23.15	28.82	NA	1.7
MW-3	09/28/1999	1,180	NA	<1.00	<1.00	<1.00	<1.00	<10.0	NA	51.97	25.36	26.61	NA	1.2
MW-3	12/08/1999	1,740	NA	71.5	23.0	24.2	61.3	103	NA	51.97	25.75	26.22	NA	2.0
MW-3	03/14/2000	1,410	NA	5.63	35.6	<5.00	8.41	38.7	NA	51.97	21.64	30.33	NA	2.1
MW-3	06/28/2000	2,460	NA	<5.00	9.48	<5.00	28.4	64.0	NA	51.97	23.84	28.13	NA	2.87
MW-3	09/06/2000	887	NA	<1.00	<1.00	<1.00	<1.00	<10.0	NA	51.97	24.73	27.24	NA	2.0
MW-3	12/14/2000	955	NA	25.4	1.96	<0.500	1.13	10.2	NA	51.97	25.45	26.52	NA	2.1
MW-3	03/05/2001	2,100	NA	4.90	56.5	<2.00	3.62	261	NA	51.97	22.83	29.14	NA	0.8
MW-3	06/11/2001	2,000	NA	1.0	<0.50	<0.50	<0.50	NA	<0.50	51.97	25.20	26.77	NA	0.7
MW-3	09/12/2001	1,500	NA	0.50	0.54	<0.50	1.8	NA	<5.0	51.97	26.15	25.82	NA	1.5
MW-3	12/27/2001	2,100	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	51.97	23.67	28.30	NA	1.9
MW-4	03/24/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	9.16	31.35	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**1784 150th Avenue**  
**San Leandro, CA**  
**Wic #204-6852-1404**

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.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-4	06/26/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	12.06	28.45	NA	NA
MW-4	09/13/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	13.90	26.61	NA	NA
MW-4	12/19/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	12.90	27.61	NA	NA
MW-4	03/06/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	9.63	30.88	NA	NA
MW-4	06/28/1996	40	NA	<0.5	0.59	0.97	3.8	26	NA	40.51	12.30	28.21	NA	NA
MW-4	09/26/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	40.51	14.12	26.39	NA	NA
MW-4	12/10/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	40.51	12.31	28.20	NA	1.2
MW-4	03/10/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	11.34	29.17	NA	NA
MW-4	06/30/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	13.80	26.71	NA	1.9
MW-4	09/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	13.99	26.52	NA	1.7
MW-4 b	12/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	40.51	12.02	28.49	NA	1.8
MW-4	02/02/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	11.23	29.28	NA	1
MW-4	06/24/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	10.58	29.93	NA	1.9
MW-4	08/26/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	11.75	28.76	NA	1.2
MW-4	12/23/1998	<50	NA	0.60	<0.50	<0.50	<0.50	<2.5	NA	40.51	12.41	28.10	NA	4.2
MW-4	03/01/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	40.51	10.38	30.13	NA	2.1
MW-4	06/14/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	40.51	11.91	28.60	NA	2.4
MW-4	09/28/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	40.51	10.19	30.32	NA	2.2
MW-4	12/08/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	40.51	10.67	29.84	NA	1.8
MW-4	03/14/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	40.51	9.95	30.56	NA	2.5
MW-4	06/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	40.51	12.22	28.29	NA	0.9
MW-4	09/06/2000	NA	NA	NA	NA	NA	NA	NA	NA	40.51	13.17	27.34	NA	3.0
MW-4	12/14/2000	NA	NA	NA	NA	NA	NA	NA	NA	40.51	8.65	31.86	NA	NA
MW-4	03/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	40.51	11.07	29.44	NA	NA
MW-4	06/11/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	40.51	13.62	26.89	NA	1.3
MW-4	09/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	40.51	14.61	25.90	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**1784 150th Avenue**  
**San Leandro, CA**  
**Wic #204-6852-1404**

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.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-4	12/27/2001	NA	NA	NA	NA	NA	NA	NA	NA	40.51	12.19	28.32	NA	NA

**Abbreviations:**

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 11, 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 June 11, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

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

D = Duplicate sample

NA = Not applicable

**Notes:**

a = Chromatogram pattern indicates an unidentified hydrocarbon.

b = Samples not analyzed due to laboratory oversight.

\* = Sample analyzed out of EPA recommended hold time.



Report Number : 24099

Date : 1/9/2002

Nick Sudano  
Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Subject : 3 Water Samples  
Project Name : 1784 150th Avenue, San Leandro  
Project Number : 011227-MM3  
P.O. Number : 98996068

Dear Mr. Sudano,

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,

  
Joel Kiff





Report Number : 24099

Date : 1/9/2002

Subject : 3 Water Samples  
Project Name : 1784 150th Avenue, San Leandro  
Project Number : 011227-MM3  
P.O. Number : 98996068

## Case Narrative

Method Reporting Limits were raised for Chloromethane due to interference from Hydrocarbons for the following sample:

MW-1

Method Reporting Limits were raised for Trichloroethene, and Bromodichloromethane due to interference from Hydrocarbons for the following sample:

MW-3

Approved By:  Joel Kiff

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



Report Number : 24099

Date : 1/9/2002

Sample : MW-1

Project Name : 1784 150th Avenue, San

Project Number : 011227-MM3

Date Analyzed : 1/4/2002

Lab Number : 24099-01

Matrix : Water

Sample Date :12/27/2001

Analysis Method: EPA 8260B

Parameter	Measured Value	MRL <sup>1</sup>	Units
Benzene	2400	10	ug/L
Toluene	190	10	ug/L
Ethylbenzene	330	10	ug/L
Total Xylenes	1500	10	ug/L
Methyl-t-butyl ether (MTBE)	350	10	ug/L
TPH as Gasoline	16000	1000	ug/L
Chloromethane	< 60	60	ug/L
Vinyl Chloride	< 10	10	ug/L
Bromomethane	< 500	500	ug/L
Chloroethane	< 10	10	ug/L
Trichlorofluoromethane	< 10	10	ug/L
1,1-Dichloroethene	< 10	10	ug/L
Methylene Chloride	< 100	100	ug/L
trans-1,2-Dichloroethene	< 10	10	ug/L
1,1-Dichloroethane	< 10	10	ug/L
cis-1,2-Dichloroethene	< 10	10	ug/L
Chloroform	< 10	10	ug/L
1,1,1-Trichloroethane	< 10	10	ug/L
1,2-Dichloroethane	< 10	10	ug/L
Carbon Tetrachloride	< 10	10	ug/L
Trichloroethene	< 10	10	ug/L
1,2-Dichloropropane	< 10	10	ug/L
Bromodichloromethane	< 10	10	ug/L
cis-1,3-Dichloropropene	< 10	10	ug/L
trans-1,3-Dichloropropene	< 10	10	ug/L
1,1,2-Trichloroethane	< 10	10	ug/L
Tetrachloroethene	< 10	10	ug/L
Dibromochloromethane	< 10	10	ug/L
Chlorobenzene	< 10	10	ug/L
Bromoform	< 10	10	ug/L
1,1,2,2-Tetrachloroethane	< 10	10	ug/L
1,3-Dichlorobenzene	< 10	10	ug/L
1,4-Dichlorobenzene	< 10	10	ug/L
1,2-Dichlorobenzene	< 10	10	ug/L
1,2-Dibromoethane	< 10	10	ug/L

Parameter	Measured Value	MRL <sup>1</sup>	Units
Toluene - d8 (Surr)	97.5		% Recovery
4-Bromofluorobenzene (Surr)	102		% Recovery
Dibromofluoromethane (Surr)	103		% Recovery
1,2-Dichloroethane-d4 (Surr)	98.1		% Recovery

1) MRL = Method reporting limit  
tr = Trace detected below reporting limit

Approved By:  Joel Kiff



Report Number : 24099

Date : 1/9/2002

Sample : MW-2

Project Name : 1784 150th Avenue, San

Project Number : 011227-MM3

Date Analyzed : 1/4/2002

Lab Number : 24099-02

Matrix : Water

Sample Date :12/27/2001

Analysis Method: EPA 8260B

Parameter	Measured Value	MRL <sup>1</sup>	Units
Benzene	8600	50	ug/L
Toluene	2500	50	ug/L
Ethylbenzene	2500	50	ug/L
Total Xylenes	17000	50	ug/L
Methyl-t-butyl ether (MTBE)	25000	50	ug/L
TPH as Gasoline	74000	5000	ug/L
Chloromethane	< 50	50	ug/L
Vinyl Chloride	< 50	50	ug/L
Bromomethane	< 2000	2000	ug/L
Chloroethane	< 50	50	ug/L
Trichlorofluoromethane	< 50	50	ug/L
1,1-Dichloroethene	< 50	50	ug/L
Methylene Chloride	< 500	500	ug/L
trans-1,2-Dichloroethene	< 50	50	ug/L
1,1-Dichloroethane	< 50	50	ug/L
cis-1,2-Dichloroethene	< 50	50	ug/L
Chloroform	< 50	50	ug/L
1,1,1-Trichloroethane	< 50	50	ug/L
1,2-Dichloroethane	< 50	50	ug/L
Carbon Tetrachloride	< 50	50	ug/L
Trichloroethene	< 50	50	ug/L
1,2-Dichloropropane	< 50	50	ug/L
Bromodichloromethane	< 50	50	ug/L
cis-1,3-Dichloropropene	< 50	50	ug/L
trans-1,3-Dichloropropene	< 50	50	ug/L
1,1,2-Trichloroethane	< 50	50	ug/L
Tetrachloroethene	< 50	50	ug/L
Dibromochloromethane	< 50	50	ug/L
Chlorobenzene	< 50	50	ug/L
Bromoform	< 50	50	ug/L
1,1,2,2-Tetrachloroethane	< 50	50	ug/L
1,3-Dichlorobenzene	< 50	50	ug/L
1,4-Dichlorobenzene	< 50	50	ug/L
1,2-Dichlorobenzene	< 50	50	ug/L
1,2-Dibromoethane	< 50	50	ug/L

Parameter	Measured Value	MRL <sup>1</sup>	Units
Toluene - d8 (Surr)	95.6		% Recovery
4-Bromofluorobenzene (Surr)	101		% Recovery
Dibromofluoromethane (Surr)	104		% Recovery
1,2-Dichloroethane-d4 (Surr)	95.8		% Recovery

1) MRL = Method reporting limit  
tr = Trace detected below reporting limit

Approved By:  Joel Kiff

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



Report Number : 24099

Date : 1/9/2002

Sample : MW-3

Project Name : 1784 150th Avenue, San

Project Number : 011227-MM3

Date Analyzed : 1/4/2002

Lab Number : 24099-03

Matrix : Water

Sample Date :12/27/2001

Analysis Method: EPA 8260B

Parameter	Measured Value	MRL <sup>1</sup>	Units
Benzene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
Total Xylenes	< 0.50	0.50	ug/L
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L
<b>TPH as Gasoline</b>	<b>2100</b>	<b>50</b>	<b>ug/L</b>
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
<b>1,2-Dichloroethane</b>	<b>2.6</b>	<b>0.50</b>	<b>ug/L</b>
Carbon Tetrachloride	< 0.50	0.50	ug/L
Trichloroethene	< 3.0	3.0	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 3.0	3.0	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL <sup>1</sup>	Units
Toluene - d8 (Surr)	99.1		% Recovery
4-Bromofluorobenzene (Surr)	110		% Recovery
Dibromofluoromethane (Surr)	102		% Recovery
1,2-Dichloroethane-d4 (Surr)	99.5		% Recovery

1) MRL = Method reporting limit  
tr = Trace detected below reporting limit

Approved By:  Joel Kiff

Report Number : 24099

Date : 1/9/2002

**QC Report : Method Blank Data**

Project Name : 1784 150th Avenue, San Leandro

Project Number : 011227-MM3

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	1/3/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/3/2002
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
Bromomethane	< 20	20	ug/L	EPA 8260B	1/3/2002
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	1/3/2002
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	1/3/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Toluene - d8 (Surr)	99.2		%	EPA 8260B	1/3/2002
4-Bromofluorobenzene (Surr)	105		%	EPA 8260B	1/3/2002
Dibromofluoromethane (Surr)	99.5		%	EPA 8260B	1/3/2002
1,2-Dichloroethane-d4 (Surr)	99.1		%	EPA 8260B	1/3/2002

KIFF ANALYTICAL, LLC

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

Approved By:  Joel Kiff

Report Number : 24099

Date : 1/9/2002

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 1784 150th Avenue, San

Project Number : 011227-MM3

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	24096-10	<0.50	19.7	18.8	19.0	17.8	ug/L	EPA 8260B	1/3/2002	96.2	95.0	1.23	70-130	25
Toluene	24096-10	<0.50	19.7	18.8	18.5	17.5	ug/L	EPA 8260B	1/3/2002	93.9	93.4	0.534	70-130	25
Tert-Butanol	24096-10	<5.0	98.6	93.9	95.8	94.5	ug/L	EPA 8260B	1/3/2002	97.1	101	3.59	70-130	25
Methyl-t-Butyl Ether	24096-10	<0.50	19.7	18.8	16.5	13.3	ug/L	EPA 8260B	1/3/2002	83.6	70.8	16.7	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By: Joel Kiff



Report Number : 24099

Date : 1/9/2002

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

Project Name : **1784 150th Avenue, San**

Project Number : **011227-MM3**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	19.7	ug/L	EPA 8260B	1/3/2002	95.5	70-130
Toluene	19.7	ug/L	EPA 8260B	1/3/2002	93.9	70-130
Tert-Butanol	98.5	ug/L	EPA 8260B	1/3/2002	97.9	70-130
Methyl-t-Butyl Ether	19.7	ug/L	EPA 8260B	1/3/2002	82.5	70-130

KIFF ANALYTICAL, LLC

Approved By:  Joel Kiff

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

LAB: Kiff

# 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
- CRUST HOUSTON

Karen Petryna

2409a

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 6 0 6 8

SAP or CRM NUMBER (TS/CRM)

DATE: 12/27/14

PAGE: 1 of 1

<p>CONSULTANT COMPANY: <b>Blaine Tech Services</b></p> <p>ADDRESS: <b>1680 Rogers Avenue</b></p> <p>CITY: <b>San Jose, CA 95112</b></p> <p>TELEPHONE: <b>408-573-8555</b>    FAX: <b>408-573-7771</b>    E-MAIL: <b>msudano@blainetech.com</b></p>				<p>SITE ADDRESS (Street and City): <b>1784 150th Avenue, San Leandro</b></p> <p>PROJECT CONTACT (Report to): <b>Nick Sudano</b></p> <p>CONSULTANT PROJECT NO.: <b>BTS # 01120-7-M113</b></p> <p>SAMPLER NAME(S) (Print): <b>Michael Minokata</b></p>																			
<p>TURNAROUND TIME (BUSINESS DAYS):  <input checked="" type="checkbox"/> 10 DAYS    <input type="checkbox"/> 5 DAYS    <input type="checkbox"/> 72 HOURS    <input type="checkbox"/> 48 HOURS    <input type="checkbox"/> 24 HOURS    <input type="checkbox"/> LESS THAN 24 HOURS</p> <p><input type="checkbox"/> LA - RWQCB REPORT FORMAT    <input type="checkbox"/> UST AGENCY:</p> <p>GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____</p> <p>SPECIAL INSTRUCTIONS OR NOTES:    TEMPERATURE ON RECEIPT: _____</p>				<p><b>REQUESTED ANALYSIS</b></p>																			
				<p><b>FIELD NOTES:</b> Container/Preservative or PID Readings or Laboratory Notes</p>																			
LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - Spob RL)	MTBE (8250B - 0.5 ppbRL)	Oxygenates (5) by (8250)	Ethanol (8250B)	Methanol	1,3-DCA (8200B)	ECB (8250B)	TPH-Diesel, Extractable (8015m)	VOCs by 8010B	MTBE (8250B) Confirmation, See note					
			DATE	TIME																			
	MW-1		12/27/14	1316	GW	6	X	X	X								X						-01
	MW-2		↓	1340	↓	↓	X	X	X								X						-02
	MW-3		↓	1254	↓	↓	X	X	X								X						-03
Retrieved by: (Signature) <u>[Signature]</u>				Received by: (Signature) _____				Date: _____				Time: _____											
Retrieved by: (Signature) _____				Received by: (Signature) _____				Date: _____				Time: _____											
Retrieved by: (Signature) _____				Received by: (Signature) <u>John Curtis Kiff Analytical</u>				Date: <u>12/28/14</u>				Time: <u>1130</u>											

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

10/16/00 Revision

C&C Graphics (714) 995-9762



## WELL GAUGING DATA

Project # B11227-MNB Date 12/27/01 Client Equiva  
 Site 1784 <sup>150<sup>th</sup> Ave</sup> ~~San Leandro~~ San Leandro, # 98996068

3  
1  
2

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	4					20.97	44.40	↓ ↘	NO FP
MW-2	4					17.85	44.68		NO FP
MW-3	4					23.67	41.30		NO FP
MW-4	2					12.19	37.90		NO FP

### EQUIVA WELL MONITORING DATA SHEET

BTS #: 011227-MN3	Site: 98996068
Sampler: Mike N	Date: 12/27/01
Well I.D.: MW-1	Well Diameter: 2 3 <b>4</b> 6 8
Total Well Depth: 44.40	Depth to Water: 20.97
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>PVC</b> Grade	D.O. Meter (if req'd): YSI <b>HACH</b>

Purge Method: <input type="checkbox"/> Bailor <input type="checkbox"/> Disposable Bailor <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"/> Bailor <input type="checkbox"/> Disposable Bailor <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing Other: _____
--	---	--

$12.6 \text{ (Gals.)} \times 3 = 37.8 \text{ Gals.}$ 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <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
1309	64.7	6.9	1670	43	12.6	Slightly cloudy, odor
1310	65.9	6.8	1763	37	25.2	" "
1311	66.3	6.8	1794	29	37.8	clear, odor

Did well dewater? Yes  No       Gallons actually evacuated: 37.9

Sampling Time: 1316      Sampling Date: 12/27/01

Sample I.D.: MW-1      Laboratory: **Riff** Sequoia Other \_\_\_\_\_

Analyzed for: **TPH-G BTEX MTBE TPH-D** Other: **VOCs SOLO**

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	<b>Post-purge:</b>	1.3	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

### EQUIVA WELL MONITORING DATA SHEET

BTS #: 011227-MW3	Site: 98996068
Sampler: Mike N	Date: 12/27/01
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 44.68	Depth to Water: 17.85
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

$17.4 \text{ (Gals.)} \times 3 = 52.2 \text{ Gals.}$ 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
1331	66.0	7.1	1304	99	17.4	Cloudy, odor
1333	67.7	6.9	1268	96	36.8	" "
1335	67.6	6.9	1308	94	52.2	" "

Did well dewater? Yes  No  Gallons actually evacuated: 52.4

Sampling Time: 1340      Sampling Date: 12/27/01

Sample I.D.: MW-2      Laboratory: Kiff Sequoia Other \_\_\_\_\_

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

EB LD. (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: 2.6	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## EQUIVA WELL MONITORING DATA SHEET

BTS #: 011227-MW3	Site: 9899 6068
Sampler: Mike N	Date: 12/27/01
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 41.38	Depth to Water: 23.67
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI <u>HACH</u>

Purge Method:  Bailor  Disposable Bailor  Middleburg  Electric Submersible

Watertra  Peristaltic  Extraction Pump  Other \_\_\_\_\_

Sampling Method:  Bailor  Disposable Bailor  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

11.4 (Gals.) X 3 = 34.2 Gals.  
 I Case Volume Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1247	63.3	6.9	1258	32	11.4	Clear, odor
1248	65.7	6.7	1347	29	22.8	" "
1249	66.4	6.7	1381	24	34.2	" "

Did well dewater? Yes  No

Gallons actually evacuated: 34.2

Sampling Time: 1254 Sampling Date: 12/27/01

Sample I.D.: MW-3 Laboratory: Riff Sequoia Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: VOC's SOCD

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	<u>Post-purge:</u>	<u>1.9</u>	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	<u>Post-purge:</u>		mV