

C A M B R I A

Rozas
R0228

Alameda County

October 7, 2002

OCT 11 2002

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

Environmental Health

Re: **Third Quarter 2002 Monitoring Report**
Shell-branded Service Station
630 High Street
Oakland, California
Incident #98995751
Cambria Project #244-0318-002



Dear Mr. Chan:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

THIRD QUARTER 2002 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged all site wells, sampled selected site wells, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a vicinity map with 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.

Subsurface Investigation: On September 16, 2002, Cambria submitted a *Subsurface Investigation Work Plan* for the site proposing to conduct a subsurface utility survey and then install several soil borings downgradient of the site. In a September 19, 2002 correspondence, Mr. Barney Chan of the Alameda County Health Care Services Agency requested that we submit a report of the utility survey prior to determining final soil boring locations. Cambria agreed with this recommendation in a September 23, 2002 correspondence.

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

ANTICIPATED FUTURE ACTIVITIES

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

Utility Survey: As recommended in our September 16, 2002 work plan, Cambria will conduct a utility survey for the site. Results of the survey will be submitted with final proposed soil boring locations.



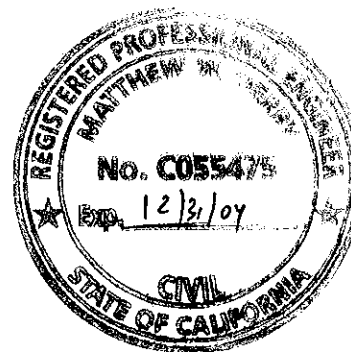
CLOSING

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

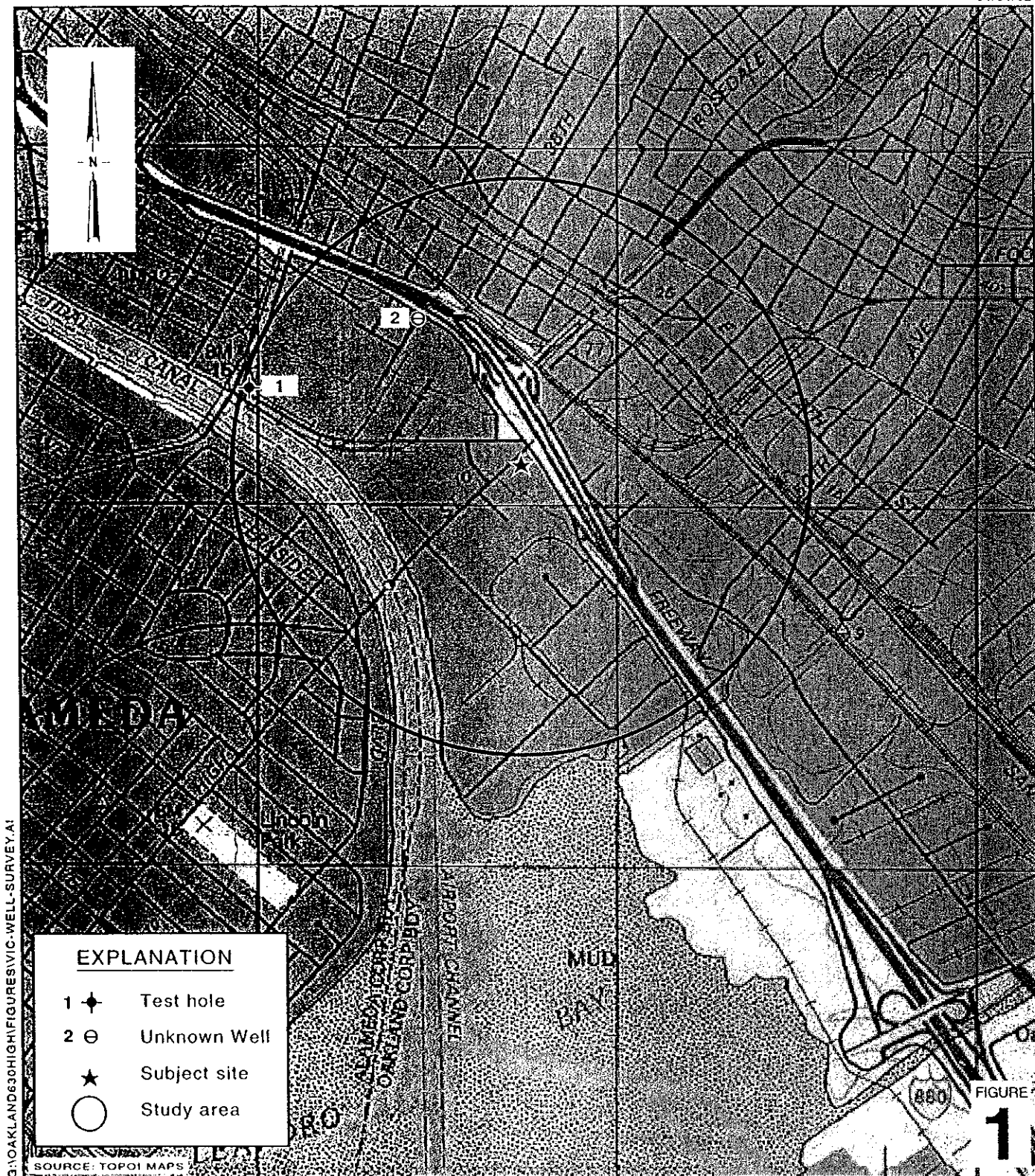


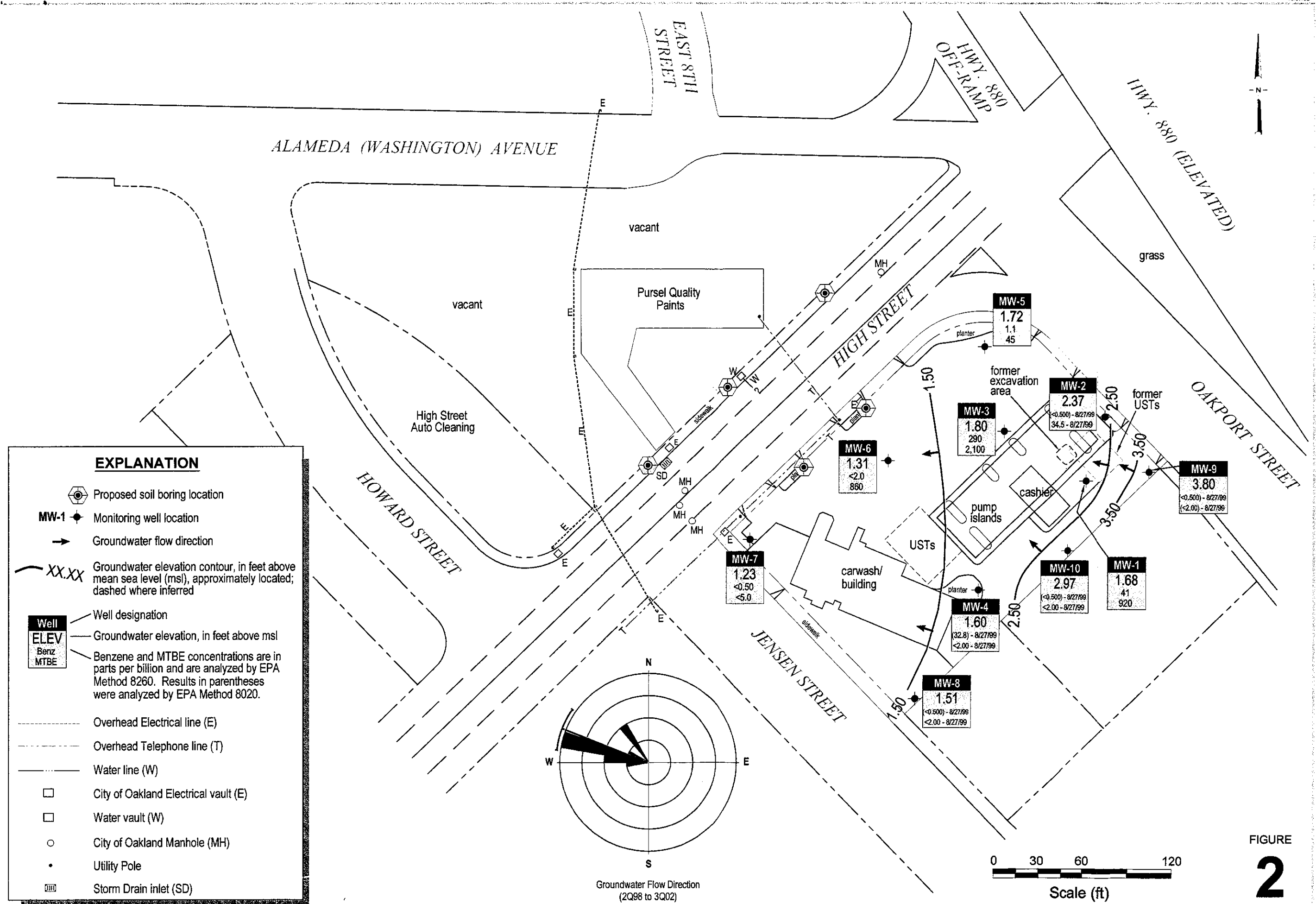
Figures: 1 - Vicinity/Area Well Survey Map
2 - Groundwater Elevation Contour Map

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

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

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EXPLANATION

- Proposed soil boring location
- MW-1** Monitoring well location
- Groundwater flow direction
- XX.XX** Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred

Well	ELEV	Benz	MTBE
MW-1	1.68	41	920
MW-2	2.37	<0.500 - 8/27/99	34.5 - 8/27/99
MW-3	1.80	290	2,100
MW-4	1.60	(32.8) - 8/27/99	<2.00 - 8/27/99
MW-5	1.72	1.1	45
MW-6	1.31	<2.0	860
MW-7	1.23	<0.50	<5.0
MW-8	1.51	<0.500 - 8/27/99	<2.00 - 8/27/99
MW-9	3.80	<0.500 - 8/27/99	<2.00 - 8/27/99
MW-10	2.97	<0.500 - 8/27/99	<2.00 - 8/27/99

- Overhead Electrical line (E)
- Overhead Telephone line (T)
- Water line (W)
- City of Oakland Electrical vault (E)
- Water vault (W)
- City of Oakland Manhole (MH)
- Utility Pole
- Storm Drain inlet (SD)

FIGURE 2

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

August 22, 2002

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

Third Quarter 2002 Groundwater Monitoring at
Shell-branded Service Station
630 High Street
Oakland, CA

Monitoring performed on July 31, 2002

Groundwater Monitoring Report **020731-BA-2**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

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

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

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

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/jt

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

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

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	01/29/1991	11,000	21,000a	310	41	500	400	NA	NA	99.35	10.79	88.56	NA
MW-1	04/30/1991	8,300	2,100	250	32	310	300	NA	NA	99.35	9.48	89.87	NA
MW-1	07/22/1991	11,000	3,800	310	36	290	280	NA	NA	99.35	10.53	88.82	NA
MW-1	02/21/1992	7,300	8,900b	200	36	340	270	NA	NA	99.35	8.31	91.04	NA
MW-1	05/22/1992	7,600	18,000b, c	140	<50	300	140	NA	NA	99.35	10.02	89.33	NA
MW-1	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	99.35	10.06	89.29	NA
MW-1	08/20/1992	9,100	5,200b	530	340	860	540	NA	NA	99.35	10.32	89.03	NA
MW-1	11/18/1992	15,000	4,100b	220	50	790	340	NA	NA	99.35	10.64	88.71	NA
MW-1	02/09/1993	7,000	1,200	130	23	220	160	NA	NA	99.35	8.71	90.64	NA
MW-1	06/16/1993	4,800	NA	150	31	320	130	NA	NA	99.35	9.71	89.64	1.73/1.58k
MW-1	08/24/1993	10,000	NA	170	27	610	170	NA	NA	99.35	10.23	89.12	1.49/1.70k
MW-1	11/23/1993	7,600	NA	190	<12	430	140	NA	NA	99.35	10.48	88.87	1.77/2.80k
MW-1	02/14/1994	8,000	NA	150	47	210	68	NA	NA	99.35	9.17	90.18	6.2/2.5k
MW-1	05/25/1994	8,800	NA	95	<10	210	63	NA	NA	99.35	9.52	89.83	NA
MW-1	08/04/1994	6,200	NA	150	14	350	180	NA	NA	99.35	10.51	88.84	NA
MW-1	11/08/1994	7,600	NA	190	<10	480	200	NA	NA	99.35	10.20	89.15	NA
MW-1	02/01/1995	8,200	NA	130	21	170	130	NA	NA	99.35	6.94	92.41	NA
MW-1	05/04/1995	7,000	NA	130	47	190	180	NA	NA	99.35	8.40	90.95	NA
MW-1	05/16/1997	5,600	NA	57	<10	26	29	84	NA	99.35	9.93	89.42	1.5
MW-1	11/03/1997	6,900	NA	81	<10	32	30	170	NA	99.35	10.27	89.08	0.8/0.6k
MW-1	06/05/1998	4,200	NA	68	7.6	39	69	84	NA	99.35	8.95	90.40	1.0/0.5k
MW-1	11/06/1998	6,200	NA	87	<2.5	48	55	200	NA	99.35	10.69	88.66	1.2/1.8
MW-1	06/07/1999	5,210	NA	33.6	21.9	7.42	<5.00	153	205	99.35	9.81	89.54	NA
MW-1	06/22/1999	NA	NA	NA	NA	NA	NA	NA	NA	99.35	9.55	89.80	0.8
MW-1	08/27/1999	6,080	NA	46.0	<20.0	<20.0	26.1	303	429	99.35	10.00	89.35	0.7/1.5
MW-1	11/11/1999	7,660	NA	92.0	20.4	28.2	46.1	520	542	99.35	10.27	89.08	1.3/1.8

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
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MW-1	04/26/2000	3,730	NA	69.4	<5.00	9.42	28.6	206	NA	99.35	9.54	89.81	2.30/2.71
MW-1	11/02/2000	4,930	NA	81.3	5.32	18.3	29.8	440	NA	99.35	8.90	90.45	3.0/3.2
MW-1	05/31/2001	6,800	NA	64	7.1	7.2	28	NA	790	99.35	9.25	90.10	2.3/2.6
MW-1	11/19/2001	6,100	NA	41	4.9	10	25	NA	710	99.35	10.09	89.26	1.2/0.8
MW-1	01/29/2002	7,100	NA	67	5.6	7.3	22	NA	510	99.35	9.13	90.22	4.3/6.0
MW-1	06/05/2002	4,500	NA	47	4.9	8.9	22	NA	880	99.35	9.95	89.40	NA
MW-1	07/31/2002	8,600	NA	41	6.0	17	23	NA	920	12.02	10.34	1.68	NA

new data ←

MW-2	01/29/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	13.25	87.90	NA
MW-2	04/30/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	10.94	90.21	NA
MW-2	07/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	12.14	89.01	NA
MW-2	02/21/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	10.08	91.07	NA
MW-2	05/22/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	11.52	89.63	NA
MW-2	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	101.15	11.50	89.65	NA
MW-2	08/20/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	11.72	89.43	NA
MW-2	11/18/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	13.06	88.09	NA
MW-2	02/09/1993	95	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	10.06	91.09	NA
MW-2	06/16/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	11.60	89.55	NA
MW-2	08/24/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	12.16	88.99	NA
MW-2	11/23/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	12.74	88.41	NA
MW-2	02/14/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	10.91	90.24	NA
MW-2	05/25/1994	100	NA	1.2	4.9	2.3	13	NA	NA	101.15	11.06	90.09	NA
MW-2	08/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	101.15	12.04	89.11	NA
MW-2	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	12.38	88.77	NA
MW-2	02/01/1995	NA	NA	NA	NA	NA	NA	NA	NA	101.15	8.76	92.39	NA
MW-2	05/04/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	101.15	10.20	90.95	NA
MW-2	05/16/1997	NA	NA	NA	NA	NA	NA	NA	NA	101.15	11.28	89.87	NA

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MW-2	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	101.15	11.71	89.44	NA
MW-2	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	101.15	9.85	91.30	NA
MW-2	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	101.15	12.60	88.55	NA
MW-2	06/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	101.15	11.03	90.12	NA
MW-2	08/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	19.2	34.5	101.15	10.98	90.17	0.71/4.0
MW-2	11/11/1999	NA	NA	NA	NA	NA	NA	NA	NA	101.15	10.33	90.82	NA
MW-2	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	101.15	9.58	91.57	NA
MW-2	11/02/2000	NA	NA	NA	NA	NA	NA	NA	NA	101.15	10.03	91.12	NA
MW-2	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	101.15	10.01	91.14	NA
MW-2	11/19/2001	NA	NA	NA	NA	NA	NA	NA	NA	101.15	11.63	89.52	NA
MW-2	01/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	101.15	10.12	91.03	NA
MW-2	06/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	101.15	11.03	90.12	NA
MW-2	07/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	13.80	11.43	2.37	NA

MW-3	01/29/1991	2,300	410a	17	14.1	10	230	NA	NA	99.49	11.09	88.40	NA
MW-3	04/30/1991	<50	260	22	4	7	17	NA	NA	99.49	9.57	89.92	NA
MW-3	07/22/1991	2,000	310	51	<0.5	<0.5	<0.5	NA	NA	99.49	10.66	88.83	NA
MW-3	02/21/1992	2,800	640d	15	2.8	<2.5	12	NA	NA	99.49	8.97	90.52	NA
MW-3	05/22/1992	3,700	220b, c	27	11	20	110	NA	NA	99.49	9.32	90.17	NA
MW-3	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	99.49	10.22	89.27	NA
MW-3	08/20/1992	13,000	340b	72	85	71	140	NA	NA	99.49	10.44	89.05	NA
MW-3	11/18/1992	2,100	430b	21	3.6	11	13	NA	NA	99.49	10.79	88.70	NA
MW-3	02/09/1993	3,300	83	21	5.6	6.1	<0.5	NA	NA	99.49	9.35	90.14	NA
MW-3	06/16/1993	3,500e	NA	66	6	<0.5	<0.5	NA	NA	99.49	9.56	89.93	NA
MW-3	08/24/1993	3,400e	NA	110	<5	<5	<5	NA	NA	99.49	10.51	88.98	NA
MW-3	11/23/1993	3,000	NA	36	44	6.9	23	NA	NA	99.49	10.77	88.72	NA
MW-3	02/14/1994	4,700g	NA	9.9	5.2	8.8	<5.0	NA	NA	99.49	9.61	89.88	NA

WELL CONCENTRATIONS
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630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
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MW-3	05/25/1994	1,200	NA	<10	<10	<10	<10	NA	NA	99.49	10.00	89.49	NA
MW-3	08/04/1994	2,600	NA	29	<5	14	11	NA	NA	99.49	10.63	88.86	NA
MW-3	11/08/1994	2,600	NA	5.5	1.5	1.9	0.9	NA	NA	99.49	11.02	88.47	NA
MW-3	02/01/1995	4,600	NA	27	1.2	3.2	2.5	NA	NA	99.49	8.31	91.18	NA
MW-3	05/04/1995	1,800	NA	140	11	11	16	NA	NA	99.49	8.70	90.79	NA
MW-3	05/16/1997	NA	NA	NA	NA	NA	NA	NA	NA	99.49	10.30	89.19	NA
MW-3	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	99.49	10.52	88.97	NA
MW-3	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	99.49	9.18	90.31	NA
MW-3	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	99.49	11.00	88.49	NA
MW-3	06/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	99.49	10.93	88.56	NA
MW-3	08/27/1999	8,600	NA	2,410	135	279	1,390	26,400	29,500	99.49	10.23	89.26	0.8/0.7
MW-3	11/11/1999	NA	NA	NA	NA	NA	NA	NA	NA	99.49	10.46	89.03	NA
MW-3	04/26/2000	7,100	NA	1,310	573	89.2	376	35,000	38,000	99.49	9.45	90.04	2.42/2.63
MW-3	11/02/2000	4,750	NA	1,210	29.3	50.5	125	8,750	8,960	99.49	10.05	89.44	2.0/2.5
MW-3	05/31/2001	5,400	NA	860	<20	29	<20	NA	10,000	99.49	10.38	89.11	1.8/2.0
MW-3	11/19/2001	3,200	NA	440	7.8	8.6	23	NA	3,400	99.49	10.29	89.20	3.1/1.5
MW-3	01/29/2002	2,900	NA	370	<20	<20	57	NA	5,400	99.49	9.07	90.42	5.2/3.8
MW-3	06/05/2002	3,500	NA	370	<10	<10	<10	NA	4,700	99.49	10.03	89.46	NA
MW-3	07/31/2002	4,100	NA	290	<5.0	<5.0	<5.0	NA	2,100	12.12	10.32	1.80	NA

MW-4	01/29/1991	2,600	1,300	83	<0.5	<0.5	110	NA	NA	99.24	10.76	88.48	NA
MW-4	04/30/1991	2,600	750	22	4	7	17	NA	NA	99.24	9.45	89.79	NA
MW-4	07/22/1991	4,300	1,200	120	<0.5	<0.5	10	NA	NA	99.24	10.34	88.90	NA
MW-4	02/21/1992	2,000	8,300b	31	6.3	3.5	6.6	NA	NA	99.24	7.60	91.64	NA
MW-4	05/22/1992	3,600	3,400b, c	55	5	3	10	NA	NA	99.24	9.90	89.34	NA
MW-4	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	99.24	10.02	89.22	NA
MW-4	08/20/1992	3,100	3,400	100	45	14	45	NA	NA	99.24	10.32	88.92	NA

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MW-4	11/18/1992	2,200	1,400	32	12	4.2	24	NA	NA	99.24	10.51	88.73	NA
MW-4	02/09/1993	1,500	180	1.1	<0.5	<0.5	<0.5	NA	NA	99.24	8.13	91.11	NA
MW-4	06/16/1993	1,100	NA	120	47	5.1	19	NA	NA	99.24	9.60	89.64	1.86/4.82k
MW-4	08/24/1993	2,700	NA	46	11	25	0.97	NA	NA	99.24	10.05	89.19	1.46/1.27k
MW-4	11/23/1993	2,500	NA	23	5.7	3.7	16	NA	NA	99.24	10.25	89.99	5.29/6.59k
MW-4	02/14/1994	1,500	NA	12	7.8	<2.5	<2.5	NA	NA	99.24	8.83	90.41	2.1/1.9k
MW-4	05/25/1994	810	NA	20	<2	<2	4	NA	NA	99.24	9.64	89.60	NA
MW-4	08/04/1994	2,300	NA	99	15	6.3	24	NA	NA	99.24	10.62	88.62	NA
MW-4	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.24	9.28	89.96	NA
MW-4	02/01/1995	960	NA	5.6	2.2	2.6	2.8	NA	NA	99.24	6.52	92.72	NA
MW-4	05/04/1995	960	NA	20	4.7	3.7	5.6	NA	NA	99.24	8.40	90.84	NA
MW-4	05/16/1997	NA	NA	NA	NA	NA	NA	NA	NA	99.24	9.35	89.89	NA
MW-4	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	99.24	10.17	89.07	NA
MW-4	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	99.24	8.85	90.39	NA
MW-4	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	99.24	10.17	89.07	NA
MW-4	06/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	99.24	11.06	88.18	NA
MW-4	08/27/1999	1,520	NA	32.8	6.25	<2.50	5.65	61.5	<2.00	99.24	10.25	88.99	1.0/1.4
MW-4	11/11/1999	NA	NA	NA	NA	NA	NA	NA	NA	99.24	10.11	89.13	NA
MW-4	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	99.24	9.18	90.06	NA
MW-4	11/02/2000	NA	NA	NA	NA	NA	NA	NA	NA	99.24	9.72	89.52	NA
MW-4	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	99.24	9.29	89.95	NA
MW-4	11/19/2001	NA	NA	NA	NA	NA	NA	NA	NA	99.24	9.98	89.26	NA
MW-4	01/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	99.24	9.12	90.12	NA
MW-4	06/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	99.24	10.09	89.15	NA
MW-4	07/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	11.90	10.30	1.60	NA
MW-5	01/29/1991	3,100	720	86	<0.5	24	28	NA	NA	100.08	11.72	88.36	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)	DO Reading (ppm)
MW-5	04/30/1991	<50	90	46	<0.5	9	9	NA	NA	100.08	10.45	89.63	NA
MW-5	07/22/1991	1,700	300	23	<0.5	6,700	10,000	NA	NA	100.08	11.43	88.65	NA
MW-5	02/21/1992	240	180h	1	<0.5	<0.5	1	NA	NA	100.08	9.24	90.84	NA
MW-5	05/22/1992	6,200	7,100b, c	6	95	56	99	NA	NA	100.08	10.97	89.11	NA
MW-5	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	100.08	10.98	89.10	NA
MW-5	08/20/1992	7,400	120b	56	95	91	150	NA	NA	100.08	11.14	88.94	NA
MW-5	11/18/1992	3,300	320b	27	<12.5	20	470	NA	NA	100.08	11.21	88.87	NA
MW-5	02/09/1993	160	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.08	10.01	90.07	NA
MW-5	06/16/1993	140	NA	0.8	<0.5	<0.5	<0.5	NA	NA	100.08	11.05	89.03	1.53/2.72k
MW-5	08/24/1993	1,000	NA	7.9	<1	2.2	<1.5	NA	NA	100.08	11.32	88.76	2.69/1.41k
MW-5	11/23/1993	2,000	NA	67	15	11	33	NA	NA	100.08	11.35	88.73	8.20/3.09k
MW-5	02/14/1994	660	NA	1.3	<0.5	0.5	0.7	NA	NA	100.08	10.34	89.74	2.0/1.9k
MW-5	05/25/1994	670	NA	0.65	<0.5	2.6	<0.5	NA	NA	100.08	10.54	89.54	NA
MW-5	08/04/1994	700	NA	5	<0.5	1.2	<0.5	NA	NA	100.08	11.50	88.58	NA
MW-5	11/08/1994	810	NA	4.2	<0.5	1.5	0.8	NA	NA	100.08	11.24	88.84	NA
MW-5	02/01/1995	110	NA	7	<0.5	<0.5	<0.5	NA	NA	100.08	9.05	91.03	NA
MW-5	05/04/1995	260	NA	3.1	1.3	2	1.5	NA	NA	100.08	10.35	89.73	NA
MW-5	05/16/1997	440	NA	2.4	3.1	1.6	3.3	7.1	NA	100.08	11.21	88.87	2.9
MW-5	11/03/1997	1,400	NA	34	<2.5	2.8	4.4	33	NA	100.08	11.43	88.65	3.0/1.2k
MW-5	06/05/1998	230	NA	3.6	0.5	<0.50	1.3	34	NA	100.08	10.35	89.73	3.2/1.4k
MW-5	11/06/1998	1,800	NA	29	<0.50	3.8	7.1	26	NA	100.08	11.89	88.19	2.6/3.0
MW-5	06/07/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	19.5	NA	100.08	10.28	89.80	NA
MW-5	06/22/1999	NA	NA	NA	NA	NA	NA	NA	NA	100.08	10.74	89.34	0.6
MW-5	08/27/1999	254	NA	5.09	1.08	<0.500	<0.500	9.97	12.0	100.08	11.01	89.07	NA
MW-5	11/11/1999	549	NA	16.4	3.29	2.18	3.16	18.2	NA	100.08	11.33	88.75	2.3/2.7
MW-5	04/26/2000	338	NA	0.787	2.30	<0.500	3.01	21.7	NA	100.08	10.32	89.76	1.99/3.01
MW-5	11/02/2000	507	NA	0.659	2.39	2.70	3.88	20.0	NA	100.08	10.75	89.33	4.0/2.0

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MW-5	05/31/2001	67	NA	<0.50	<0.50	<0.50	<0.50	NA	87	100.08	10.53	89.55	3.8/2.1
MW-5	11/19/2001	850	NA	2.8	1.4	2.3	8.5	NA	57	100.08	10.88	89.20	2.6/1.9
MW-5	01/29/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	95	100.08	9.95	90.13	5.5/3.6
MW-5	06/05/2002	140	NA	<0.50	<0.50	<0.50	<0.50	NA	36	100.08	10.73	89.35	NA
MW-5	07/31/2002	520	NA	1.1	2.0	<0.50	<0.50	NA	45	12.72	11.00	1.72	NA

MW-6	01/29/1991	<50	860	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	10.23	88.33	NA
MW-6	04/30/1991	<50	1,100	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	9.15	89.41	NA
MW-6	07/22/1991	<50	1,200	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	10.10	88.46	NA
MW-6	02/21/1992	<50	60d	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	7.15	91.41	NA
MW-6	05/22/1992	<50	650c	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	9.55	89.01	NA
MW-6	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	98.56	9.53	89.03	NA
MW-6	08/20/1992	140e	510c	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	9.84	88.72	NA
MW-6	11/18/1992	200e	350	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	10.03	88.53	NA
MW-6	02/09/1993	14,000e	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	7.91	90.65	NA
MW-6	06/16/1993	5,700e	NA	<0.5	22	<0.5	34	NA	NA	98.56	8.74	89.82	8.46/9.73k
MW-6	08/24/1993	4,300e	NA	<12.5	<12.5	<12.5	<12.5	NA	NA	98.56	9.66	88.90	2.15/1.52k
MW-6	11/23/1993	3,300e	NA	<12	<12	<12	<12	NA	NA	98.56	9.86	88.70	3.86/6.75k
MW-6	02/14/1994	14,000e	NA	<12.5	<12.5	<12.5	<12.5	NA	NA	98.56	8.27	90.29	2.3/5.2k
MW-6	05/25/1994	<1,000i	NA	<10	<10	<10	<10	NA	NA	98.56	8.89	89.67	NA
MW-6	08/04/1994	250j	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	10.10	88.46	NA
MW-6	11/08/1994	4,600e	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	8.98	89.58	NA
MW-6	02/01/1995	710	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	7.07	91.49	NA
MW-6	05/04/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.56	8.56	90.00	NA
MW-6	05/16/1997	<500	NA	<5.0	<5.0	<5.0	<5.0	1,700	NA	98.56	9.57	88.99	6.2
MW-6	11/03/1997	<500	NA	<5.0	<5.0	<5.0	<5.0	990	NA	98.56	9.76	88.80	1.4/1.0k
MW-6	06/05/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	590	NA	98.56	8.50	90.06	1.5/1.1k

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MW-6	11/06/1998	<250	NA	<2.5	<2.5	<2.5	<2.5	810	NA	98.56	10.00	88.56	2.0/1.4
MW-6	06/07/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	71.5	NA	98.56	9.35	89.21	NA
MW-6	06/22/1999	NA	NA	NA	NA	NA	NA	NA	NA	98.56	9.20	89.36	1.9
MW-6	08/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	197	276	98.56	9.52	89.04	1.5/7.8
MW-6	11/11/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	212	NA	98.56	9.87	88.69	1.4/1.7
MW-6	04/26/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	236	NA	98.56	9.13	89.43	1.93/2.90
MW-6	11/02/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	497	NA	98.56	9.13	89.43	2.5/3.5
MW-6	05/31/2001	<2,000	NA	<20	<20	<20	<20	NA	5,400	98.56	9.22	89.34	1.8/2.1
MW-6	11/19/2001	<500	NA	5.0	<5.0	<5.0	18	NA	2,600	98.56	9.48	89.08	2.5/1.9
MW-6	01/29/2002	<200	NA	<2.0	<2.0	<2.0	<2.0	NA	1,000	98.56	8.12	90.44	5.6/4.3
MW-6	06/05/2002	<100	NA	<1.0	<1.0	<1.0	<1.0	NA	650	98.56	9.58	88.98	NA
MW-6	07/31/2002	<200	NA	<2.0	<2.0	<2.0	<2.0	NA	860	11.21	9.90	1.31	NA

MW-7	01/29/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	8.91	88.62	NA
MW-7	04/30/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	8.38	89.15	NA
MW-7	07/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	9.13	88.40	NA
MW-7	02/21/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	6.87	90.66	NA
MW-7	05/22/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	8.08	89.45	NA
MW-7	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	97.53	8.82	88.71	NA
MW-7	08/20/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	8.89	88.64	NA
MW-7	11/18/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	9.54	87.99	NA
MW-7	02/09/1993	72	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	7.84	89.69	NA
MW-7	06/16/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	7.80	89.73	NA
MW-7	08/24/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	8.51	89.02	NA
MW-7	11/23/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	8.70	88.83	NA
MW-7	02/14/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	7.52	90.01	NA
MW-7	05/25/1994	<50	NA	<0.5	0.63	<0.5	0.93	NA	NA	97.53	9.04	88.49	NA

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MW-7	08/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	97.53	9.80	87.83	NA
MW-7	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	8.45	89.08	NA
MW-7	02/01/1995	NA	NA	NA	NA	NA	NA	NA	NA	97.53	5.51	92.02	NA
MW-7	05/04/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.53	8.34	89.19	NA
MW-7	05/16/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	2.7	NA	97.53	8.80	88.73	2.8
MW-7	11/03/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	97.53	8.95	88.58	1.6/1.2k
MW-7	06/05/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	4.3	NA	97.53	7.75	89.78	1.5/1.1k
MW-7	11/06/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	4.5	NA	97.53	9.20	88.33	4.1/2.2
MW-7	06/07/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	97.53	8.39	89.14	NA
MW-7	06/22/1999	NA	NA	NA	NA	NA	NA	NA	NA	97.53	8.43	89.10	0.4
MW-7	06/22/1999	NA	NA	NA	NA	NA	NA	NA	NA	97.53	8.43	89.10	0.4
MW-7	08/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	4.33	97.53	8.82	88.71	1.3/1.9
MW-7	11/11/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	4.30	NA	97.53	8.64	88.89	1.1/1.0
MW-7	04/26/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	6.59	NA	97.53	8.31	89.22	1.09/2.41
MW-7	11/02/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	7.38	NA	97.53	7.80	89.73	4.0/4.0
MW-7	05/31/2001	<50	NA	<0.50	1.4	<0.50	4.6	NA	5.3	97.53	7.61	89.92	3.2/3.3
MW-7	11/19/2001	<50	NA	0.64	0.86	1.6	6.1	NA	7.3	97.53	9.11	88.42	2.6/2.1
MW-7	01/29/2002	<50	NA	0.70	<0.50	<0.50	<0.50	NA	<5.0	97.53	7.85	89.68	2.1/2.3
MW-7	06/05/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	97.53	8.68	88.85	NA
MW-7	07/31/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	10.17	8.94	1.23	NA

MW-8	01/29/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	8.47	88.66	NA
MW-8	04/30/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	7.64	89.49	NA
MW-8	07/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	8.36	88.77	NA
MW-8	02/21/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	6.54	90.59	NA
MW-8	05/22/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	7.68	89.45	NA
MW-8	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	97.13	8.16	88.97	NA

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MW-8	08/20/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	8.25	88.88	NA
MW-8	11/18/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	8.32	88.81	NA
MW-8	02/09/1993	63	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	5.58	91.55	NA
MW-8	06/16/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	7.19	89.94	NA
MW-8	08/24/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	7.98	89.15	NA
MW-8	11/23/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	8.09	89.04	NA
MW-8	02/14/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	9.42	87.71	NA
MW-8	05/25/1994	<50	NA	<0.5	1.1	<0.5	2.5	NA	NA	97.13	7.18	89.95	NA
MW-8	08/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	97.13	8.51	88.62	NA
MW-8	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	6.24	90.89	NA
MW-8	02/01/1995	NA	NA	NA	NA	NA	NA	NA	NA	97.13	3.94	93.19	NA
MW-8	05/04/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.13	5.04	92.09	NA
MW-8	05/16/1997	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.65	89.48	NA
MW-8	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.03	90.10	NA
MW-8	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	97.13	6.47	90.66	NA
MW-8	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	97.13	8.27	88.86	NA
MW-8	06/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	97.13	8.69	88.44	NA
MW-8	08/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	97.13	7.82	89.31	1.5/2.0
MW-8	11/11/1999	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.91	89.22	NA
MW-8	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.10	90.03	NA
MW-8	11/02/2000	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.95	89.18	NA
MW-8	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.22	89.91	NA
MW-8	11/19/2001	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.70	89.43	NA
MW-8	01/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	97.13	6.64	90.49	NA
MW-8	06/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.78	89.35	NA
MW-8	07/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	9.75	8.24	1.51	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
MW-9	01/29/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	8.27	91.45	NA
MW-9	04/30/1991	<50	<50	0.6	<0.5	<0.5	1.1	NA	NA	99.72	7.62	92.10	NA
MW-9	07/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	8.48	91.24	NA
MW-9	02/21/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	6.91	92.81	NA
MW-9	05/22/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	8.64	91.08	NA
MW-9	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	99.72	7.55	92.17	NA
MW-9	08/20/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	7.38	92.34	NA
MW-9	11/18/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	10.17	89.55	NA
MW-9	02/09/1993	290	110	6	<0.5	<0.5	<0.5	NA	NA	99.72	6.89	92.83	NA
MW-9	06/16/1993	90e	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	8.74	90.98	1.51/2.17k
MW-9	08/24/1993	50e	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	8.32	91.40	2.86/2.74k
MW-9	11/23/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	8.17	91.55	3.41/3.78k
MW-9	02/14/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	7.67	92.05	4.6/5.2k
MW-9	05/25/1994	56	NA	1.3	4	1.4	8.3	NA	NA	99.72	7.89	91.83	NA
MW-9	08/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	99.72	9.76	89.96	NA
MW-9	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	7.75	91.97	NA
MW-9	02/01/1995	NA	NA	NA	NA	NA	NA	NA	NA	99.72	5.66	94.06	NA
MW-9	05/04/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	99.72	7.40	92.32	NA
MW-9	05/16/1997	NA	NA	NA	NA	NA	NA	NA	NA	99.72	7.72	92.00	NA
MW-9	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	99.72	6.93	92.79	NA
MW-9	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	99.72	7.23	92.49	NA
MW-9	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	99.72	9.91	89.81	NA
MW-9	06/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	99.72	9.03	90.69	NA
MW-9	08/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	99.72	7.45	92.27	3.5/4.3
MW-9	11/11/1999	NA	NA	NA	NA	NA	NA	NA	NA	99.72	7.40	92.32	NA
MW-9	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	99.72	7.66	92.06	NA
MW-9	11/02/2000	NA	NA	NA	NA	NA	NA	NA	NA	99.72	8.41	91.31	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
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MW-9	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	99.72	8.02	91.70	NA
MW-9	11/19/2001	NA	NA	NA	NA	NA	NA	NA	NA	99.72	8.40	91.32	NA
MW-9	01/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	99.72	7.83	91.89	NA
MW-9	06/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	99.72	8.34	91.38	NA
MW-9	07/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	12.34	8.54	3.80	NA

MW-10	01/29/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	10.81	88.18	NA
MW-10	04/30/1991	<50	460	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	8.79	90.20	NA
MW-10	07/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	9.94	89.05	NA
MW-10	02/21/1992	<50	120	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	9.11	89.88	NA
MW-10	05/22/1992	<50	310	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	9.14	89.85	NA
MW-10	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	98.99	9.87	89.12	NA
MW-10	08/20/1992	<50	460	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	9.30	89.69	NA
MW-10	11/18/1992	<50	470	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	10.21	88.78	NA
MW-10	02/09/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	7.63	91.36	NA
MW-10	06/16/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	8.57	90.42	NA
MW-10	08/24/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	9.61	89.38	NA
MW-10	11/23/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	10.10	88.89	NA
MW-10	02/14/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	9.01	89.98	NA
MW-10	05/25/1994	<50	NA	<0.5	1.1	<0.5	1.4	NA	NA	98.99	8.84	90.15	NA
MW-10	08/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	98.99	9.82	89.17	NA
MW-10	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	9.40	89.59	NA
MW-10	02/01/1995	NA	NA	NA	NA	NA	NA	NA	NA	98.99	6.78	92.21	NA
MW-10	05/04/1995	NA	NA	NA	NA	NA	NA	NA	NA	98.99	7.00	91.99	NA
MW-10	05/16/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	98.99	8.66	90.33	NA
MW-10	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	98.99	9.37	89.62	NA
MW-10	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	98.99	7.27	91.72	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
MW-10	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	98.99	9.48	89.51	NA
MW-10	06/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	98.99	8.72	90.27	NA
MW-10	08/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	98.99	8.62	90.37	1.6/1.6
MW-10	11/11/1999	NA	NA	NA	NA	NA	NA	NA	NA	98.99	8.55	90.44	NA
MW-10	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	98.99	7.39	91.60	NA
MW-10	11/02/2000	NA	NA	NA	NA	NA	NA	NA	NA	98.99	8.26	90.73	NA
MW-10	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	98.99	7.98	91.01	NA
MW-10	11/19/2001	NA	NA	NA	NA	NA	NA	NA	NA	98.99	9.34	89.65	NA
MW-10	01/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	98.99	7.34	91.65	NA
MW-10	06/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	98.99	8.11	90.88	NA
MW-10	07/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	11.60	8.63	2.97	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

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

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

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

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

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

MSL = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

NA = Not Applicable

n/h = 1st case volume/3rd case volume D.O.'s

ppm = parts per million

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

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

- a =Compounds detected and calculated as TEPH do not match the diesel standard; pattern is characteristic of weathered diesel.
 - b =Concentration reported as TEPH is primarily due to the presence of a lighter petroleum product, possibly gasoline or kerosene.
 - c =Concentration reported as TEPH is primarily due to a heavier petroleum product, possibly motor oil or aged diesel fuel.
 - d =Compounds detected within the TEPH range are not characteristic of the standard diesel chromatographic pattern.
 - e =Concentration reported as TPPH is primarily due to the presence of a discrete hydrocarbon peak not indicative of gasoline.
 - f =26 ug/L benzene detected using EPA Method 8240.
 - g =The concentration reported as TPPH is due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.
 - h =Compounds detected and calculated as TPPH appear to be the less volatile constituents of gasoline.
 - i =Sample diluted due to high-non hydrocarbon peak.
 - j =The positive result has an atypical pattern for gasoline analysis.
 - k =Field measurement of DO concentrations before and after well purging.
 - l = This sample was analyzed outside of EPA recommended holding time.
- Survey information provided by Cambria Environmental Technology in October, 2002.



Report Number : 27773

Date : 8/6/02

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

Subject : 5 Water Samples
Project Name : 630 High Street, Oakland
Project Number : 020731-BA2
P.O. Number : 98995751

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 initial "J".

Joel Kiff



Report Number : 27773

Date : 8/6/02

Project Name : 630 High Street, Oakland

Project Number : 020731-BA2

Sample : MW-1

Matrix : Water

Lab Number : 27773-01

Sample Date :7/31/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	41	2.0	ug/L	EPA 8260B	8/4/02
Toluene	6.0	2.0	ug/L	EPA 8260B	8/4/02
Ethylbenzene	17	2.0	ug/L	EPA 8260B	8/4/02
Total Xylenes	23	2.0	ug/L	EPA 8260B	8/4/02
Methyl-t-butyl ether (MTBE)	920	20	ug/L	EPA 8260B	8/4/02
TPH as Gasoline	8600	200	ug/L	EPA 8260B	8/4/02
Toluene - d8 (Surr)	106		% Recovery	EPA 8260B	8/4/02
4-Bromofluorobenzene (Surr)	88.8		% Recovery	EPA 8260B	8/4/02

Sample : MW-3

Matrix : Water

Lab Number : 27773-02

Sample Date :7/31/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	290	5.0	ug/L	EPA 8260B	8/4/02
Toluene	< 5.0	5.0	ug/L	EPA 8260B	8/4/02
Ethylbenzene	< 5.0	5.0	ug/L	EPA 8260B	8/4/02
Total Xylenes	< 5.0	5.0	ug/L	EPA 8260B	8/4/02
Methyl-t-butyl ether (MTBE)	2100	50	ug/L	EPA 8260B	8/4/02
TPH as Gasoline	4100	500	ug/L	EPA 8260B	8/4/02
Toluene - d8 (Surr)	109		% Recovery	EPA 8260B	8/4/02
4-Bromofluorobenzene (Surr)	85.2		% Recovery	EPA 8260B	8/4/02

Approved By:  Joel Kiff



Report Number : 27773

Date : 8/6/02

Project Name : 630 High Street, Oakland

Project Number : 020731-BA2

Sample : MW-5

Matrix : Water

Lab Number : 27773-03

Sample Date :7/31/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.1	0.50	ug/L	EPA 8260B	8/2/02
Toluene	2.0	0.50	ug/L	EPA 8260B	8/2/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/2/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/2/02
Methyl-t-butyl ether (MTBE)	45	5.0	ug/L	EPA 8260B	8/2/02
TPH as Gasoline	520	50	ug/L	EPA 8260B	8/2/02
Toluene - d8 (Surr)	93.6		% Recovery	EPA 8260B	8/2/02
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	8/2/02

Sample : MW-6

Matrix : Water

Lab Number : 27773-04

Sample Date :7/31/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 2.0	2.0	ug/L	EPA 8260B	8/4/02
Toluene	< 2.0	2.0	ug/L	EPA 8260B	8/4/02
Ethylbenzene	< 2.0	2.0	ug/L	EPA 8260B	8/4/02
Total Xylenes	< 2.0	2.0	ug/L	EPA 8260B	8/4/02
Methyl-t-butyl ether (MTBE)	860	20	ug/L	EPA 8260B	8/4/02
TPH as Gasoline	< 200	200	ug/L	EPA 8260B	8/4/02
Toluene - d8 (Surr)	109		% Recovery	EPA 8260B	8/4/02
4-Bromofluorobenzene (Surr)	83.7		% Recovery	EPA 8260B	8/4/02

Approved By:  Joel Kiff



Report Number : 27773

Date : 8/6/02

Project Name : 630 High Street, Oakland

Project Number : 020731-BA2

Sample : MW-7

Matrix : Water

Lab Number : 27773-05

Sample Date : 7/31/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/2/02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/2/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/2/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/2/02
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	8/2/02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/2/02
Toluene - d8 (Surr)	90.5		% Recovery	EPA 8260B	8/2/02
4-Bromofluorobenzene (Surr)	98.8		% Recovery	EPA 8260B	8/2/02

Approved By:  Joel Kiff

Report Number : 27773

Date : 8/6/02

QC Report : Method Blank Data

Project Name : **630 High Street, Oakland**

Project Number : **020731-BA2**

<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	8/3/02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/3/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/3/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/3/02
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	8/3/02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/3/02
Toluene - d8 (Surr)	98.7		%	EPA 8260B	8/3/02
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	8/3/02
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/2/02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/2/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/2/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/2/02
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	8/2/02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/2/02
Toluene - d8 (Surr)	87.1		%	EPA 8260B	8/2/02
4-Bromofluorobenzene (Surr)	95.4		%	EPA 8260B	8/2/02

<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 : 27773

Date : 8/6/02

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **630 High Street, Oakland**

Project Number : **020731-BA2**

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	27767-04	<0.50	99.5	98.0	106	104	ug/L	EPA 8260B	8/3/02	106	106	0.377	70-130	25
Toluene	27767-04	<0.50	99.5	98.0	106	104	ug/L	EPA 8260B	8/3/02	107	106	1.10	70-130	25
Tert-Butanol	27767-04	7.6	498	490	542	520	ug/L	EPA 8260B	8/3/02	108	105	2.73	70-130	25
Methyl-t-Butyl Ether	27767-04	770	99.5	98.0	862	847	ug/L	EPA 8260B	8/3/02	94.1	80.2	15.8	70-130	25
Benzene	27760-01	<0.50	40.0	40.0	40.2	39.7	ug/L	EPA 8260B	8/2/02	100	99.3	1.10	70-130	25
Toluene	27760-01	<0.50	40.0	40.0	37.0	36.5	ug/L	EPA 8260B	8/2/02	92.4	91.2	1.33	70-130	25
Tert-Butanol	27760-01	<5.0	200	200	192	193	ug/L	EPA 8260B	8/2/02	95.8	96.3	0.609	70-130	25
Methyl-t-Butyl Ether	27760-01	<0.50	40.0	40.0	39.8	40.6	ug/L	EPA 8260B	8/2/02	99.6	101	1.76	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By: Joel Kiff

Report Number : 27773

Date : 8/6/02

QC Report : Laboratory Control Sample (LCS)

Project Name : 630 High Street, Oakland

Project Number : 020731-BA2

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	8/2/02	105	70-130
Toluene	40.0	ug/L	EPA 8260B	8/2/02	105	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/2/02	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/2/02	109	70-130
Benzene	40.0	ug/L	EPA 8260B	8/2/02	109	70-130
Toluene	40.0	ug/L	EPA 8260B	8/2/02	88.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/2/02	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/2/02	113	70-130

KIFF ANALYTICAL, LLC

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

Approved By:


Joel Kiff

LAB: KIFF

SHELL Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Karen Petryna

27773

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 1

SAP or CRMT NUMBER (TS/CRMT)

DATE: 7/31/02

PAGE: 1 of 1

SAMPLING COMPANY Blaine Tech Services		LOG CODE BTSS	SITE ADDRESS (Street and City): 630 High Street, Oakland		GLOBAL ID NO.: T0600101273
ADDRESS 1680 Rogers Avenue, San Jose, CA 95112		EDF DELIVERABLE TO (Responsible Party or Designee) Anni Kremi		PHONE NO.: 510-420-3335	E-MAIL: ShellOaklandEDF@cambria-env.com
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart		SAMPLER NAME(S) (Print): BROWN ALCOEN		CONSULTANT PROJECT NO.: 020731-BA2	
TELEPHONE 408-573-0555	FAX 408-573-7771	E-MAIL: lgearhart@blainetech.com		LAB USE ONLY	

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

LA - RWQCB REPORT FORMAT UST AGENCY: _____

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

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8280B)	Methanol	1,2-DCA (8280B)	EDB (8280B)	TPH - Diesel, Extractable (8015m)	TEMPERATURE ON RECEIPT C°	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes		
		DATE	TIME																
✓	MW-1	7/31	1525	GW	3	X	X	X									-01		
✓	MW-3		1625			X	X	X										-02	
✓	MW-5		1550			X	X	X										-03	
✓	MW-6		1610			X	X	X										-04	
✓	MW-7		1430			X	X	X										-05	

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>Brown Alcoen</i>	Date: <u>8/1/02</u>	Time: <u>1111</u>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <u>8/1/02</u>	Time: <u>1111</u>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>John Curtis/Kiff Analytical</i>	Date: <u>080102</u>	Time: <u>1111</u>

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

10/18/00 Revision

Q&G Graphic (714) 895-9702

WELL GAUGING DATA

Project # 020731-BN2 Date 7/31/02 Client SHELL

Site 630 HIGH ST, OAKLAND

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-1	4					10.34	13.70	TOC
MW-2	4					11.43	19.21	↓
MW-3	4					10.32	17.26	
MW-4	4					10.30	11.81	
MW-5	4					11.00	17.25	
MW-6	4					9.90	19.30	
MW-7	4					8.94	19.41	
MW-8	4					8.24	20.53	
MW-9	4					8.54	11.45	
MW-10	4					8.63	12.48	

SHELL WELL MONITORING DATA SHEET

BTS #: 020731-BAR	Site: 530 High St, OAKLAND
Sampler: BRIAN ALLEN	Date: 7/31/02
Well I.D.: MW-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 13.70	Depth to Water (DTW): 10.34
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric Submersible	Water Peristaltic Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$\frac{2.2 \text{ (Gals.)} \times 3}{\text{Specified Volume}} = \frac{6.6 \text{ Gals.}}{\text{Calculated Volume}}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td><u>0.05</u></td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² + 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	<u>0.05</u>	2"	0.16	6"	1.47	3"	0.37	Other	radius ² + 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	<u>0.05</u>														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² + 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1514	73.0	7.1	2035	7200	2	cloudy gray odor/light sheen
Dewatered						DTW 1080
1525	72.4	7.0	2047	7200	GRAB SAMPLE @ 80%	DTW 1080

Did well dewater? Yes No Gallons actually evacuated: 2

Sampling Date: 7/31/02 Sampling Time: 1525 Depth to Water: 1080

Sample I.D.: MW-1 Laboratory: Kiff SPL Other _____

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

SB I.D. (if applicable): @ _____ Duplicate I.D. (if applicable):

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 020731-BA2	Site: 530 High St, Oakland
Sampler: Brian Alvarez	Date: 7/31/02
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 17.26	Depth to Water (DTW): 10.32
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:

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

$4.5 \text{ (Gals.)} \times 3 = 13.5 \text{ Gals.}$ Case Volume Specified Volume Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.09</td> <td>4"</td> <td><u>0.64</u></td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.09	4"	<u>0.64</u>	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.09	4"	<u>0.64</u>														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1600	73.9	7.3	1244	40	4.5	clear mild odor
1602	72.3	7.1	1090	22	9	"
<u>DEWATERING</u>					12	DTW 14.45
1625	72.9	7.1	1020	5	GRAB SAMPLER @ DEPARTURE	clear

Did well dewater? Yes No Gallons actually evacuated: 12

Sampling Date: 7/31/02 Sampling Time: 1625 Depth to Water: 11.84

Sample I.D.: MW-5 Laboratory: KIT SPL Other: _____

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

IB 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

D.R.P. (if req'd): Pre-purge: _____ mV Post-purge: _____ mV

SHELL WELL MONITORING DATA SHEET

BTS #: 020731-BAZ	Site: 530 High St, OAKLAND
Sampler: Brian Alcorn	Date: 7/31/02
Well I.D.: MW-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 17.25	Depth to Water (DTW): 11.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:

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

$$4.1 \text{ (Gals.)} \times 3 = 12.3 \text{ Gals.}$$
 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	<u>1.03</u>
2"	0.16	6"	1.17
3"	0.37	Other	multiplier + 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1542	73.0	7.5	1264	18	4	clear mild odor
1543	72.3	6.9	1229	16	8	clear mild odor
1545	72.1	7.0	1211	15	12	clear mild odor

Did well dewater? Yes No Gallons actually evacuated: 12

Sampling Date: 7/31/02 Sampling Time: 1550 Depth to Water: 12.20

Sample I.D.: MW-5 Laboratory: Kiff SPL 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):	Pre-purge:	mg/L	Post-purge:	mg/L
D.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 020731-BA2	Site: 530 High St, Oakland
Sampler: BRIAN ALLARD	Date: 7/31/02
Well I.D.: MW-6	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 19.30	Depth to Water (DTW): 9.90
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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

$\underline{6.1} \text{ (Gals.)} \times \underline{3} = \underline{18.3} \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td><u>0.65</u></td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	<u>0.65</u>	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	<u>0.65</u>														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														
Case Volume	Specified Volumes	Calculated Volume															

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1452	76.2	7.6	1291	20	6	clear
DEWATERED						
					11	DTW 16.04
1610	74.6	7.3	1020	2	GRAB SAMPLE @ PREPARATION	clear

Did well dewater? Yes No Gallons actually evacuated: 11

Sampling Date: 7/31/02 Sampling Time: 1610 Depth to Water: 9.95

Sample I.D.: MW-6 Laboratory: Kiff SPL Other _____

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

SB I.D. (if applicable): @ _____ Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
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D.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV
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SHELL WELL MONITORING DATA SHEET

BTS #: 020731-BA2	Site: 530 High St, OAKLAND
Sampler: Brian Alcorn	Date: 7/31/02
Well I.D.: MW-7	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 19.41	Depth to Water (DTW): 8.94
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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

<u>6.8</u> (Gals.) X <u>3</u> = <u>20.4</u> Gals.	<table border="1" style="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>0.01</td> <td>4"</td> <td><u>0.65</u></td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.17</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.01	4"	<u>0.65</u>	2"	0.16	6"	1.17	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.01	4"	<u>0.65</u>														
2"	0.16	6"	1.17														
3"	0.37	Other	radius ² * 0.163														
Case Volume Specified Volumes Calculated Volume																	

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1418	84.8	7.0	828	200	7	cloudy brown
1419	72.9	6.9	1080	120	14	clear
1421	71.3	6.9	1078	15	21	clear

Did well dewater? Yes No Gallons actually evacuated: 21

Sampling Date: 7/31/02 Sampling Time: 1430 Depth to Water: 16.22

Sample I.D.: MW-7 Laboratory: Kitt SPL 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):	Pre-purge:	mM/L	Post-purge:	mM/L
D.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV