#435

TOXICHEM Management Systems, Inc.
Environmental & Occupational Health Services
1562 44th Avenue
San Francisco, California 94122
(415) 681-8816 / Fax (415) 681-8132

Industrial Hygiene - Exposure Assessment
Quantitative Risk Assessment
Compliance Audits
Real Property Environmental Assessments
Remedial Investigations
Air, Soil, and Groundwater Sampling
Remedial Engineering and Construction
Regulatory Compliance and Negotiation
Litigation Support Services

FEB 14 2002

February 11, 2002
Project EQ-02.1A

REPORTS

Mr. Barney M. Chan
Alameda County Health Care Services Agency
Environmental Protection Division
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

new i Todd Delfino - Delta Env Consultant
3164 Gold Camp Drive Suite 200
Rancho Cordova 95670

Re: **Quarterly Monitoring Report - Fourth Quarter 2001**
Former Texaco/Current Broadway Discount Gas Station
3810 Broadway, Oakland, California
Equiva Incident No. 93995026, SAP No. 128141

Dear Mr. Chan:

On behalf of Equiva Services LLC, this letter transmits the results of fourth quarter 2001 groundwater monitoring and sampling conducted at the site referenced above. This report presents an interpretation of results and recommendations and schedule for future actions. The groundwater elevation and analytical data are shown on Figures 1 and 2, respectively.

INTERPRETATION OF RESULTS

Groundwater Elevation

Groundwater monitoring and sampling data for the reporting was collected by Blaine Tech Services, Inc. on December 20, 2001. The average groundwater elevation at the site decreased approximately 2 to 4 feet since the previous quarterly groundwater monitoring and sampling event, and it remains within the historical range of groundwater elevation.

Groundwater Flow Direction and Gradient

During the reporting quarter, the predominant direction of groundwater flow was to the northwest and the groundwater gradient was estimated to range from 0.006.

Analytical Results

During the reporting quarter, separate phase hydrocarbons (SPH) were not measured in any well. Overall, the dissolved groundwater concentrations appear stable with no apparent fluctuations outside historical ranges. The analysis for methyl tertiary butyl ether by EPA Method 8260 has resumed, pursuant to Alameda County Health Care Services Agency's (ACHCSA's) request dated March 29, 2001.

RECOMMENDATIONS AND SCHEDULE FOR FUTURE ACTIONS

1. Continue the quarterly groundwater monitoring and sampling program.
2. Awaiting ACHCSA approval of the proposed scope of work described in the *Quarterly Monitoring Report - Second Quarter 2001* (TOXICHEM, August 8, 2001) to properly destroy and replace Well MW-5, and install one new well to replace previously destroyed Wells MW-3 and MW-8.

If you have any questions regarding this site, please contact me at (415) 681-8816.

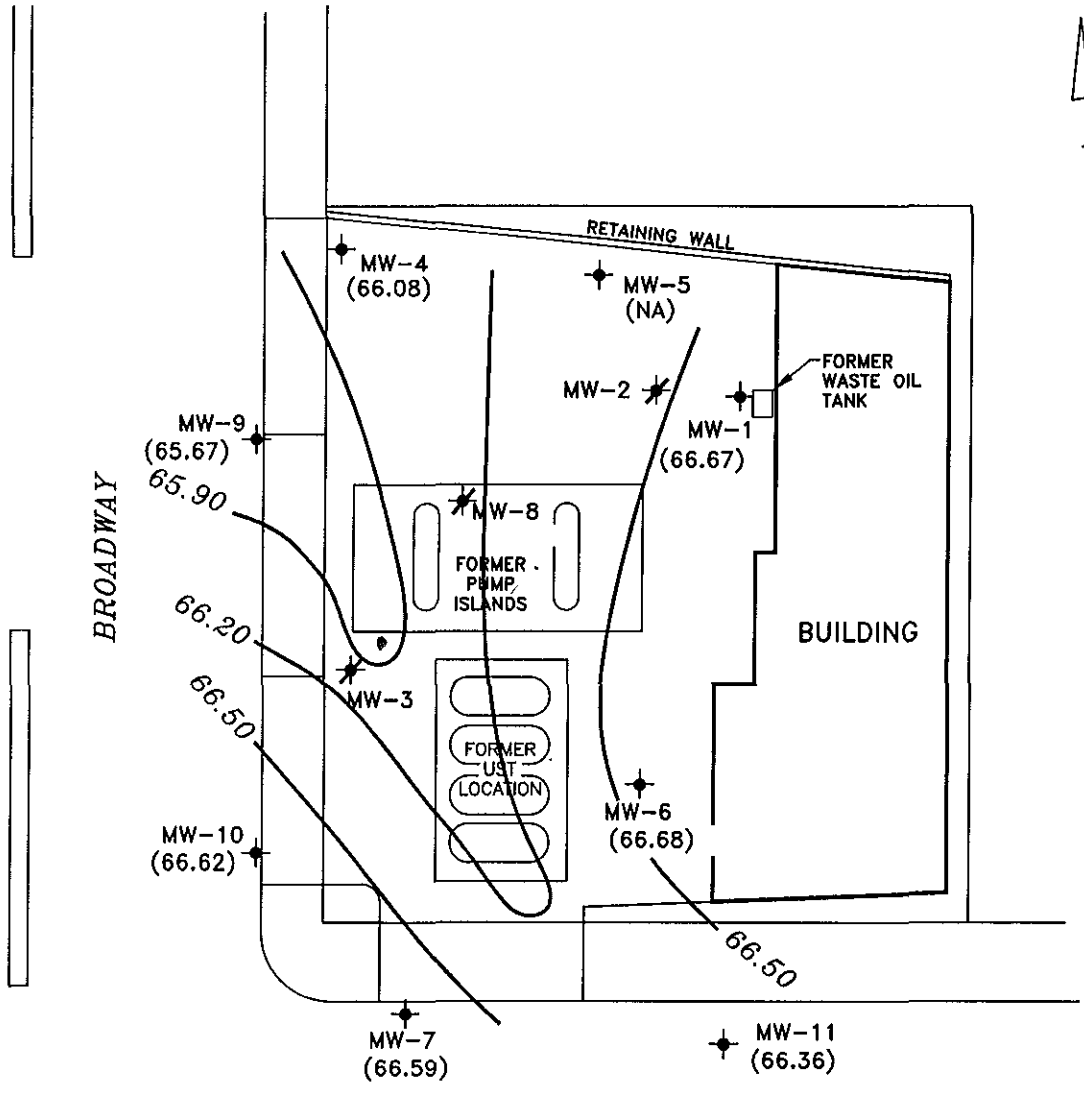
Sincerely,

Toxichem Management Systems, Inc.

Keith Winemiller, P.E.
Senior Engineer

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

cc (without CAR/COC and Field Data Sheets):
Mr. Joe Zadik, 8255 San Leandro Street, Oakland, CA 94621



EXPLANATION

- MONITORING WELL
- DESTROYED WELL
- (64.69) GROUNDWATER ELEVATION IN FEET-MSL, 12-20-01
- 66.50 GROUNDWATER ELEVATION CONTOUR IN FEET-MSL, 12-20-01
- NA NOT AVAILABLE
- APPROXIMATE DIRECTION OF GROUNDWATER; APPROXIMATE GRADIENT = 0.006

SCALE (ft)

0 30

Reference: EQ-02.1A/EQ02QMR.DWG
Basemap from Remediation Risk Management, Inc.

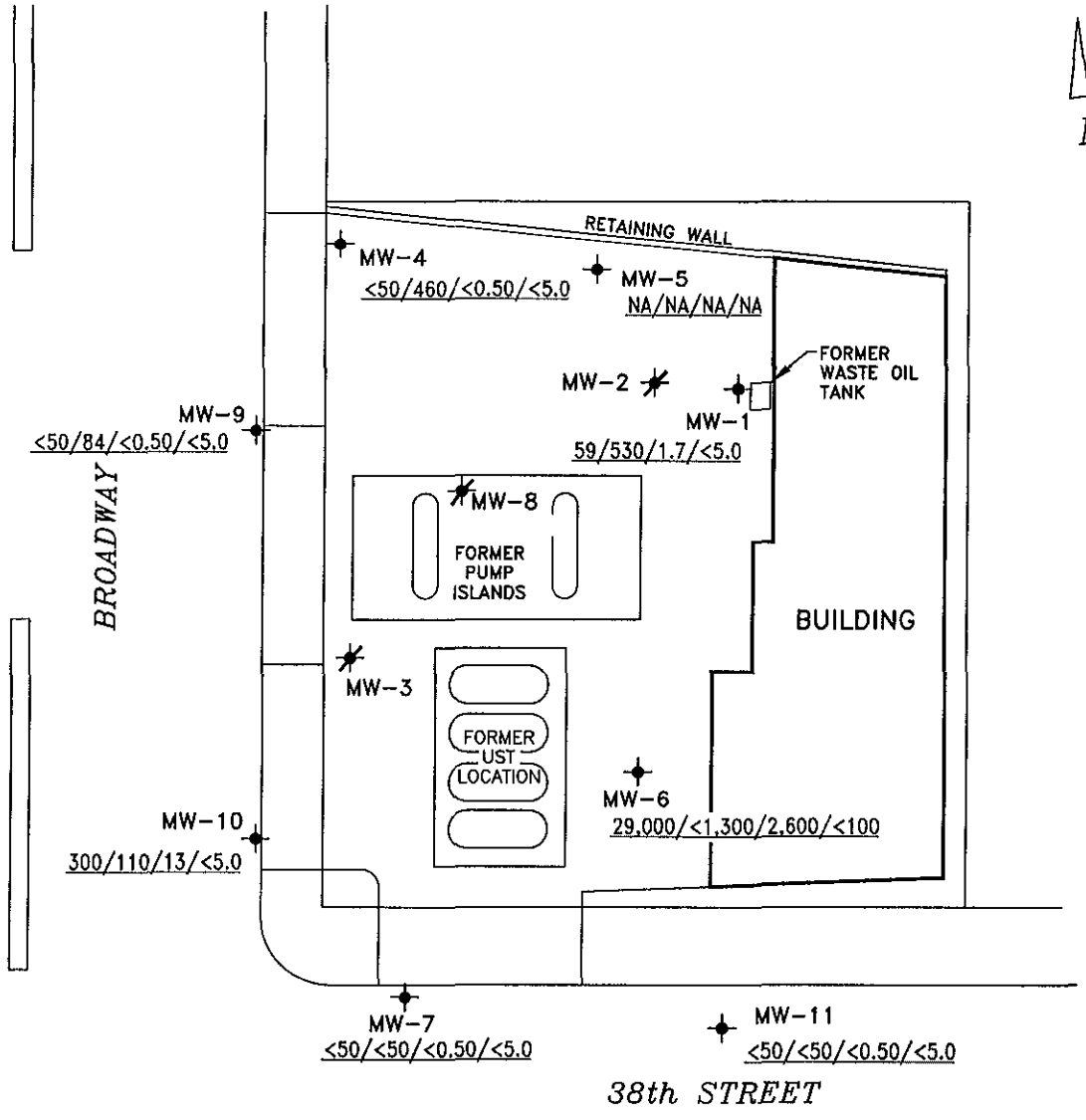
TOXICHEM Management Systems, Inc.
Environmental & Occupational Health Services

GROUNDWATER ELEVATION CONTOUR MAP, DECEMBER 20, 2001

Former Texaco/Current Broadway Discount Gas Station
3810 Broadway
Oakland, California

FIGURE: 1

PROJECT: EQ-02



EXPLANATION

- MONITORING WELL
- DESTROYED WELL

300/110/13/<5.0 TPPH/TEPH/BENZENE CONCENTRATION IN GROUNDWATER, IN MICROGRAMS PER LITER, 12-20-01

NA DATA NOT AVAILABLE

SCALE (ft)

0 30

Reference: EQ-02.1A/EQ02QMR.DWG
Basemap from Remediation Risk Management, Inc.

TOXICHEM Management Systems, Inc.
Environmental & Occupational Health Services

TPPH/TEPH/BENZENE CONCENTRATION MAP, DECEMBER 20, 2001

Former Texaco/Current Broadway Discount Gas Station
3810 Broadway
Oakland, California

FIGURE: 2

PROJECT: EQ-02

BLAINE
TECH SERVICES, Inc.

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
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CONTRACTOR'S LICENSE #746684
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January 16, 2002

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

Fourth Quarter 2001 Groundwater Monitoring at
Former Texaco Service Station
3800 Broadway
Oakland, CA

Monitoring performed on December 20, 2001

Groundwater Monitoring Report **011220-DA-1**

This report covers the routine monitoring of groundwater wells at this former Texaco 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/mrb

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

cc: Keith Winemiller
Toxichem Management Systems, Inc.
1562 44th Avenue
San Francisco, CA 94122

WELL CONCENTRATIONS
Former Texaco Service Station
3800 Broadway
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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O. Readings (ppm)
MW-1	06/28/1996	<100	<50	<0.5	<1.0	<1.0	<2.0	NA	NA	86.69	21.77	NA	64.92	NA	NA
MW-1	10/10/1996	520	<400	9.2	53	17	70	22	16**	86.69	23.26	NA	63.43	NA	NA
MW-1	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	86.69	23.27	NA	63.42	NA	NA
MW-1	12/18/1997	2,200	<50	<3.0	<3.0	<3.0	<3.0	<200	NA	86.69	19.70	NA	66.99	NA	NA
MW-1	04/06/1998	1,600	<50	16.4	0.8	<0.5	<0.5	38.3	NA	86.69	16.88	NA	69.81	NA	NA
MW-1	06/18/1998	330	280	7.8	<0.5	<0.5	<0.5	<0.5	NA	86.69	19.78	NA	66.91	NA	NA
MW-1	08/31/1998	<50	150	1.5	<0.5	<0.5	<0.5	<2.5	NA	86.69	21.71	NA	64.98	NA	NA
MW-1	12/21/1998	130	130	2.3	0.90	<0.5	<0.5	110	13	86.69	22.15	NA	64.54	NA	NA
MW-1	03/24/1999	1,520	305	11.7	<2.50	<2.50	<2.50	21.6	<25.0	86.69	19.55	NA	67.14	NA	NA
MW-1	06/25/1999	231	207	5.29	<0.500	<0.500	<0.500	3.94	1.01	86.69	21.60	NA	65.09	NA	NA
MW-1	09/24/1999	58.6	71.7	6.03	<0.500	<0.500	<0.500	3.70	NA	86.69	22.58	NA	64.11	NA	NA
MW-1	12/29/1999	117	345	4.26	<0.500	<0.500	1.97	26.2	<0.500	86.69	22.81	NA	63.88	NA	NA
MW-1	03/21/2000	834	319	<0.500	<0.500	<0.500	<0.500	21.5	NA	86.69	19.00	NA	67.69	NA	NA
MW-1	07/26/2000	<50.0	125	<0.500	<0.500	<0.500	<0.500	<2.50	NA	86.69	21.50	NA	65.19	NA	NA
MW-1	09/06/2000	88.1	192	15.60	<0.500	<0.500	<0.500	NA	NA	86.69	21.90	NA	64.79	NA	NA
MW-1	11/29/2000	<50.0	331	3.52	<0.500	<0.500	<0.500	NA	NA	86.92	22.05	NA	64.87	NA	NA
MW-1	03/06/2001	NA	NA	NA	NA	NA	NA	NA	NA	86.92	19.79	NA	67.13	NA	NA
MW-1	03/23/2001	204	d	10.7	<0.500	<0.500	<0.500	NA	NA	86.92	20.15	NA	66.77	NA	NA
MW-1	06/19/2001	<50	330	<0.50	<0.50	<0.50	<0.50	NA	0.87	86.92	21.78	NA	65.14	NA	NA
MW-1	09/05/2001	74	400	<0.50	0.63	<0.50	2.7	NA	<5.0	86.92	24.37	NA	62.55	NA	NA
MW-1	**12/20/2001**	**59**	**530**	**1.7**	**<0.50**	**<0.50**	**<0.50**	**NA**	**<5.0**	**86.92**	**20.25**	**NA**	**66.67**	**NA**	**NA**
MW-2	06/28/1996	NA	NA	NA	NA	NA	NA	NA	NA	85.83	22.10	NA	63.73	1.35	NA
MW-2	10/10/1996	99,000	1,800	4,100	9,400	2,300	9,900	390	<25**	85.83	22.36	NA	63.47	NA	NA
MW-2	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	85.83	22.39	NA	63.45	0.01	NA
MW-2	12/18/1997	24,000	4,700	600	1,800	750	2,400	<2,000	NA	85.83	20.19	NA	65.64	NA	NA
MW-2	04/06/1998	20,100	9.5	252	448	430	1,410	<200	NA	85.83	18.00	NA	67.83	NA	NA
MW-2	06/18/1998	20,000	5,200	240	370	270	790	<50	NA	85.83	19.63	NA	66.20	NA	NA

WELL CONCENTRATIONS
Former Texaco Service Station
3800 Broadway
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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O. Readings (ppm)
MW-2	08/31/1998	72,000	19,000	270	990	630	1,700	<125	NA	85.83	21.01	NA	64.82	NA	NA
MW-2	12/21/1998	290	13,000	8.7	18	9.7	38	10	29	85.83	21.31	NA	64.52	NA	NA
MW-2	03/24/1999	80,400	5,590	651	1,860	1,120	3,730	<40.0	<100	85.83	19.18	NA	66.65	NA	NA
MW-2	06/25/1999	34,700	12,100	504	1,300	716	2,160	<40.0	NA	85.83	20.78	NA	65.05	NA	NA
MW-2	09/24/1999	6,510	108	1,030	350	183	680	<50.0	NA	85.83	21.82	NA	64.01	NA	1.0/.80
MW-2	12/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	85.83	22.17	21.87	63.90	0.30	2.6
MW-2	01/07/2000	NA	NA	NA	NA	NA	NA	NA	NA	85.83	22.84	22.45	63.30	0.39	NA
MW-2	03/21/2000	54,100	41,100	1,260	3,320	2,180	8,200	<1,250	NA	a	18.19	NA	NA	NA	3.3/3.6
MW-2	NA	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	06/28/1996	NA	NA	NA	NA	NA	NA	NA	NA	83.18	19.04	NA	64.14	NA	NA
MW-3	10/10/1996	110,000	1,200	6,600	16,000	2,200	12,000	<250	NA	83.18	19.51	NA	63.67	NA	NA
MW-3	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.40	NA	19.84	NA	NA
MW-3	12/18/1997	180,000	6,100,000	1,500	16,000	4,600	23,000	<3,000	NA	83.18	18.79	NA	64.39	NA	NA
MW-3	04/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	83.18	16.58	NA	66.64	0.05	NA
MW-3	06/18/1998	NA	NA	NA	NA	NA	NA	NA	NA	83.18	NA*	NA	NA	>2.0	NA
MW-3	08/31/1998	NA	NA	NA	NA	NA	NA	NA	NA	83.18	19.56	NA	63.68	0.07	NA
MW-3	12/21/1998	NA	NA	NA	NA	NA	NA	NA	NA	83.18	20.23	NA	65.13	2.73	NA
MW-3	03/24/1999	NA	NA	NA	NA	NA	NA	NA	NA	83.18	16.76	15.90	67.11	0.86	NA
MW-3	06/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	83.18	18.47	18.17	64.95	0.30	NA
MW-3	09/24/1999	NA	NA	NA	NA	NA	NA	NA	NA	83.18	19.43	19.35	63.81	0.08	NA
MW-3	12/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	83.18	19.25	19.21	63.96	0.04	NA
MW-3	01/07/2000	NA	NA	NA	NA	NA	NA	NA	NA	83.18	19.87	19.80	63.37	0.07	NA
MW-3	NA	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	06/28/1996	<100	<50	<0.5	<1.0	<1.0	<2.0	NA	NA	83.31	18.83	NA	64.48	NA	NA
MW-4	10/10/1996	650	<50	3.9	65	22	120	<5.0	NA	83.31	19.84	NA	63.47	NA	NA
MW-4	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	83.31	19.84	NA	63.47	NA	NA

WELL CONCENTRATIONS
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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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O. Readings (ppm)
MW-4	12/18/1997	<50	2,000	<0.5	<0.5	<0.5	<0.5	<30	NA	83.31	17.77	NA	65.54	NA	NA
MW-4	04/06/1998	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	83.31	15.45	NA	67.86	NA	NA
MW-4	06/18/1998	<50	53	<0.5	<0.5	<0.5	<0.5	<0.5	NA	83.31	16.89	NA	66.42	NA	NA
MW-4	08/31/1998	<50	60	<0.5	<0.5	<0.5	<0.5	<2.5	NA	83.31	18.48	NA	64.83	NA	NA
MW-4	12/21/1998	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	83.31	18.80	NA	64.51	NA	NA
MW-4	03/24/1999	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	83.31	16.70	NA	66.61	NA	NA
MW-4	06/25/1999	<50.0	128	<0.500	<0.500	<0.500	<0.500	<2.00	NA	83.31	18.16	NA	65.15	NA	NA
MW-4	09/24/1999	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	83.31	19.12	NA	64.19	NA	NA
MW-4	12/29/1999	<50.0	169	<0.500	<0.500	<0.500	<0.500	<5.00	NA	83.31	19.08	NA	64.23	NA	NA
MW-4	03/21/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	83.31	16.10	NA	67.21	NA	NA
MW-4	07/26/2000	Obstruction in well		NA	NA	NA	NA	NA	NA	83.31	NA	NA	NA	NA	NA
MW-4	09/06/2000	<50.0	c	<0.500	<0.500	<0.500	<0.500	NA	NA	83.31	18.52	NA	64.79	NA	NA
MW-4	11/29/2000	<50.0	183	<0.500	<0.500	<0.500	<0.500	NA	NA	83.63	18.75	NA	64.88	NA	NA
MW-4	03/06/2001	<50.0	50.9	<0.500	<0.500	<0.500	<0.500	NA	NA	83.63	17.81	NA	65.82	NA	NA
MW-4	06/19/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	83.63	18.55	NA	65.08	NA	NA
MW-4	09/05/2001	<50	710	<0.50	<0.50	<0.50	<0.50	NA	<5.0	83.63	19.10	NA	64.53	NA	NA
MW-4	**12/20/2001**	**<50**	**460**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**<5.0**	**83.63**	**17.55**	**NA**	**66.08**	**NA**	**NA**
MW-5	10/10/1996	1,800	<50	34	4.7	11	44	21	5.0**	85.41	21.93	NA	63.48	NA	NA
MW-5	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	85.41	21.96	NA	63.45	NA	NA
MW-5	12/18/1997	1,200	<50	15	<1.0	15	<1.0	72	NA	85.41	19.81	NA	65.60	NA	NA
MW-5	04/06/1998	1,000	<50	126	0.5	0.8	1.5	<30	NA	85.41	17.43	NA	67.98	NA	NA
MW-5	06/18/1998	110	100	6.9	<0.5	<0.5	<0.5	<0.5	NA	85.41	19.15	NA	66.26	NA	NA
MW-5	08/31/1998	480	120	5.3	<2.5	<2.5	<2.5	<12	NA	85.41	20.46	NA	64.95	NA	NA
MW-5	12/21/1998	270	100	16	2.9	1.3	<1.0	34	<2.0	85.41	20.91	NA	64.50	NA	NA
MW-5	03/24/1999	143	93.3	2.80	<0.500	0.749	<0.500	<2.00	<5.00	85.41	18.74	NA	66.67	NA	NA
MW-5	06/25/1999	847	125	6.61	<0.500	0.611	<0.500	2.69	<2.00	85.41	20.31	NA	65.10	NA	NA
MW-5	09/24/1999	563	94.0	6.00	<2.50	<2.50	<2.50	25.1	NA	85.41	21.36	NA	64.05	NA	NA

WELL CONCENTRATIONS
Former Texaco Service Station
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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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O. Readings (ppm)
MW-5	12/29/1999	896	173	16.6	1.48	8.92	2.67	61.1	<0.500	85.41	21.41	NA	64.00	NA	NA
MW-5	03/21/2000	858	158	53.7	<1.00	21.4	8.00	11.6	NA	85.41	18.13	NA	67.28	NA	NA
MW-5	07/26/2000	Obstruction in well		NA	NA	NA	NA	NA	NA	85.41	NA	NA	NA	NA	NA
MW-5	09/06/2000	670	231	153	<2.50	7.87	<2.50	NA	NA	85.41	20.33	NA	65.08	NA	NA
MW-5	11/29/2000	Obstruction in well		NA	NA	NA	NA	NA	NA	85.13	NA	NA	NA	NA	NA
MW-5	03/06/2001	Obstruction in well		NA	NA	NA	NA	NA	NA	85.13	NA	NA	NA	NA	NA
MW-5	06/19/2001	Obstruction in well		NA	NA	NA	NA	NA	NA	85.13	NA	NA	NA	NA	NA
MW-5	09/05/2001	Obstruction in well		NA	NA	NA	NA	NA	NA	85.13	NA	NA	NA	NA	NA
MW-5	**12/20/2001**	**Obstruction in well**		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**85.13**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-6	10/10/1996	45,000	500	8,300	2,900	810	3,100	190	40**	86.09	22.44	NA	63.65	NA	NA
MW-6	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	86.09	22.60	NA	63.49	NA	NA
MW-6	12/18/1997	60,000	1,900	12,000	9,800	1,800	8,600	<2,000	NA	86.09	22.28	NA	63.81	NA	NA
MW-6	04/06/1998	30,500	<50	5,950	3,720	952	3,750	<1,000	NA	86.09	19.90	NA	66.19	NA	NA
MW-6	06/18/1998	23,000	1,100	2,600	540	410	1,300	<250	NA	86.09	20.49	NA	65.60	NA	NA
MW-6	08/31/1998	17,000	1,800	3,400	460	530	1,800	<250	NA	86.09	21.05	NA	65.04	NA	NA
MW-6	12/21/1998	7,900	930	1,900	510	280	730	150	2.6	86.09	21.74	NA	64.35	NA	NA
MW-6	03/24/1999	12,200	763	1,970	327	338	794	<40.0	<50.0	86.09	21.18	NA	64.91	NA	NA
MW-6	06/25/1999	14,800	1,050	2,040	1,080	406	1,430	<40.0	NA	86.09	21.34	NA	64.75	NA	NA
MW-6	09/24/1999	17,200	1,720	2,810	1,330	489	2,340	<50.0	NA	86.09	22.28	NA	63.81	NA	1.0/1.2
MW-6	12/29/1999	14,700	1,480	2,790	974	469	1,720	<500	NA	86.09	24.96	NA	61.13	NA	1.3/1.5
MW-6	03/21/2000	20,000	1,120	4,160	962	719	2,330	<250	NA	86.09	18.70	NA	67.39	NA	3.0/4.3
MW-6	07/26/2000	Well inaccessible		NA	NA	NA	NA	NA	NA	86.09	NA	NA	NA	NA	NA
MW-6	09/06/2000	Well inaccessible		NA	NA	NA	NA	NA	NA	86.09	NA	NA	NA	NA	NA
MW-6	11/29/2000	22,800	2,060	4,120	2,010	872	3,180	NA	NA	86.48	21.30	NA	65.18	NA	2.0/1.8
MW-6	03/06/2001	32,100	2,220	3,760	4,590	1,160	5,360	NA	NA	86.48	19.05	NA	67.43	NA	3.7/4.0
MW-6	06/19/2001	40,000	<1,500	2,800	6,000	1,200	5,300	NA	<25	86.48	21.11	NA	65.37	NA	3.0/3.4
MW-6	09/05/2001	18,000	<1,000	3,800	800	730	1,400	NA	<200	86.48	21.37	NA	65.11	NA	10.4/10.8

WELL CONCENTRATIONS
Former Texaco Service Station
3800 Broadway
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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O. Readings (ppm)
MW-6	**12/20/2001**	**29,000**	**<1,300**	**2,600**	**3,700**	**1,100**	**4,100**	**NA**	**<100**	**86.48**	**19.80**	**NA**	**66.68**	**NA**	**1.3/1.5**
MW-7	10/10/1996	<50	<50	0.6	<0.5	<0.5	<0.5	<5.0	NA	84.11	20.78	NA	63.33	NA	NA
MW-7	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	84.11	20.80	NA	63.31	NA	NA
MW-7	12/18/1997	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	84.11	17.27	NA	66.84	NA	NA
MW-7	04/06/1998	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	84.11	15.91	NA	68.20	NA	NA
MW-7	06/18/1998	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA	84.11	17.95	NA	66.16	NA	NA
MW-7	08/31/1998	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	84.11	19.40	NA	64.71	NA	NA
MW-7	12/21/1998	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	84.11	19.75	NA	64.36	NA	NA
MW-7	03/24/1999	<50.0	51.3	<0.500	<0.500	<0.500	<0.500	<2.00	NA	84.11	17.54	NA	66.57	NA	NA
MW-7	06/25/1999	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	84.11	19.22	NA	64.89	NA	NA
MW-7	09/24/1999	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	84.11	20.18	NA	63.93	NA	1.4/1.6
MW-7	12/29/1999	<50.0	99.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	84.11	20.15	NA	63.96	NA	2.3/1.8
MW-7	03/21/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	84.11	16.35	NA	67.76	NA	5.8/9.0
MW-7	07/26/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	84.11	18.99	NA	65.12	NA	6.0/6.6
MW-7	09/06/2000	<50.0	c	<0.500	<0.500	<0.500	<0.500	NA	NA	84.11	19.49	NA	64.62	NA	4.3/5.0
MW-7	11/29/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	84.44	19.52	NA	64.92	NA	4.0/3.7
MW-7	03/06/2001	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	84.44	17.15	NA	67.29	NA	4.7/5.1
MW-7	06/19/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	84.44	19.30	NA	65.14	NA	3.8/4.2
MW-7	09/05/2001	<50	<50	0.64	0.84	0.94	5.2	NA	<5.0	84.44	20.22	NA	64.22	NA	6.7/7.1
MW-7	**12/20/2001**	**<50**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**<5.0**	**84.44**	**17.85**	**NA**	**66.59**	**NA**	**4.9/5.0**
MW-8	10/10/1996	17,000	110	1,300	1,200	64	1,300	110	<5.0**	84.01	20.82	NA	63.19	NA	NA
MW-8	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	84.01	20.44	NA	63.57	NA	NA
MW-8	12/18/1997	15,000	630	3,600	1,800	410	930	<600	NA	84.01	19.36	NA	64.65	NA	NA
MW-8	04/06/1998	32,300	<50	8,230	5,900	718	2,120	<1,000	NA	84.01	16.19	NA	67.82	NA	NA
MW-8	06/18/1998	74,000	<50	5,400	4,500	700	2,200	2,400	NA	84.01	17.75	NA	66.26	NA	NA
MW-8	08/31/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

WELL CONCENTRATIONS
Former Texaco Service Station
3800 Broadway
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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O. Readings (ppm)
MW-8	12/21/1998	9,600	1,200	2,600	410	220	300	700	<2.0	84.01	19.48	NA	64.53	NA	NA
MW-8	03/24/1999	86,100	2,890	9,890	11,700	1,650	7,130	<200	<250	84.01	17.44	NA	66.57	NA	NA
MW-8	06/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	84.01	20.69	20.59	63.40	0.10	NA
MW-8	07/01/1999	NA	NA	NA	NA	NA	NA	NA	NA	84.01	20.45	18.56	65.07	1.89	NA
MW-8	09/24/1999	NA	NA	NA	NA	NA	NA	NA	NA	84.01	20.98	19.45	64.25	1.53	NA
MW-8	12/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	84.01	20.25	19.99	63.97	0.26	NA
MW-8	01/07/2000	NA	NA	NA	NA	NA	NA	NA	NA	84.01	21.00	20.60	63.33	0.40	NA
MW-8	NA	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	10/10/1996	80	520	2.5	13	2.2	13	<5.0	NA	82.17	18.62	NA	63.55	NA	NA
MW-9	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	63.53	NA	63.53	NA	NA
MW-9	12/18/1997	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	82.17	16.42	NA	65.75	NA	NA
MW-9	04/06/1998	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	82.17	14.00	NA	68.17	NA	NA
MW-9	06/18/1998	<50	100	<0.5	<0.5	<0.5	<0.5	<0.5	NA	82.17	15.33	NA	66.84	NA	NA
MW-9	08/31/1998	<50	57	<0.5	<0.5	<0.5	<0.5	<2.5	NA	82.17	17.14	NA	65.03	NA	NA
MW-9	12/21/1998	<50	71	<0.5	<0.5	<0.5	<0.5	<2.5	NA	82.17	17.40	NA	64.77	NA	NA
MW-9	03/24/1999	<50.0	84.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	82.17	16.22	NA	65.95	NA	NA
MW-9	06/25/1999	<50.0	92.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	82.17	16.90	NA	65.27	NA	NA
MW-9	09/24/1999	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	82.17	17.89	NA	64.28	NA	1.0/1.2
MW-9	12/29/1999	<50.0	52.8	<0.500	<0.500	<0.500	<0.500	<5.00	NA	82.17	18.01	NA	64.16	NA	3.3/2.7
MW-9	03/21/2000	<50.0	72.4	<0.500	<0.500	<0.500	<0.500	<2.50	NA	82.17	14.80	NA	67.37	NA	3.2/7.3
MW-9	07/26/2000	<50.0	83.6	<0.500	<0.500	<0.500	<0.500	<2.50	NA	82.17	17.17	NA	65.00	NA	3.6/1.8
MW-9	09/06/2000	<50.0	74.3	<0.500	<0.500	<0.500	<0.500	NA	NA	82.17	17.95	NA	64.22	NA	3.8/4.0
MW-9	11/29/2000	<50.0	96.2	<0.500	<0.500	<0.500	<0.500	NA	NA	82.52	18.10	NA	64.42	NA	2.0/2.0
MW-9	03/06/2001	<50.0	94.2	<0.500	<0.500	<0.500	<0.500	NA	NA	82.52	16.75	NA	65.77	NA	4.0/4.9
MW-9	06/19/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	82.52	17.83	NA	64.69	NA	3.4/4.0
MW-9	09/05/2001	<50	<50	<0.50	<0.50	<0.50	1.6	NA	<5.0	82.52	17.98	NA	64.54	NA	2.7/2.0
MW-9	**12/20/2001**	**<50**	**84**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**<5.0**	**82.52**	**16.85**	**NA**	**65.67**	**NA**	**2.2/2.2**

WELL CONCENTRATIONS
Former Texaco Service Station
3800 Broadway
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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O. Readings (ppm)
MW-10	10/10/1996	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	81.83	18.40	NA	63.43	NA	NA
MW-10	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	81.83	18.43	NA	63.40	NA	NA
MW-10	12/18/1997	350	<50	6.9	0.87	0.88	0.77	<30	NA	81.83	16.18	NA	65.65	NA	NA
MW-10	04/06/1998	2,300	<50	224	168	81.4	253	<30	NA	81.83	14.39	NA	67.44	NA	NA
MW-10	06/18/1998	7,200	320	310	210	83	280	<0.5	NA	81.83	15.11	NA	66.72	NA	NA
MW-10	08/31/1998	460	120	51	8.2	5.1	10	<5.0	NA	81.83	17.03	NA	64.80	NA	NA
MW-10	12/21/1998	120	79	5.5	<1.0	<1.0	<1.0	8.7	<2.0	81.83	17.32	NA	64.51	NA	NA
MW-10	03/24/1999	1,330	923	85.9	42.9	29.7	95.2	20.4	<25.0	81.83	15.25	NA	66.58	NA	NA
MW-10	06/25/1999	1,130	167	115	32.6	17.2	36.3	<4.00	NA	81.83	16.82	NA	65.01	NA	NA
MW-10	09/24/1999	382	76.7	20.0	<1.00	2.21	1.37	8.83	NA	81.83	17.75	NA	64.08	NA	NA
MW-10	12/29/1999	114	107	9.03	<0.500	0.531	<0.500	<5.00	NA	81.83	18.13	NA	63.70	NA	NA
MW-10	03/21/2000	1,270	194	86.3	52.3	38.1	102	19.5	NA	81.83	14.22	NA	67.61	NA	NA
MW-10	07/26/2000	562	192	74.8	7.51	24.3	14.8	13.3	<1.00b	81.83	16.61	NA	65.22	NA	NA
MW-10	09/06/2000	606	205	93.4	5.36	16.7	38.9	NA	NA	81.83	17.08	NA	64.75	NA	NA
MW-10	11/29/2000	583	258	40.0	1.46	4.69	15.8	NA	NA	82.16	16.90	NA	65.26	NA	NA
MW-10	03/06/2001	837	199	34.2	26.4	20.8	27.5	NA	NA	82.16	14.80	NA	67.36	NA	NA
MW-10	06/19/2001	400	<50	47	2.6	8.8	17	NA	0.60	82.16	16.85	NA	65.31	NA	NA
MW-10	09/05/2001	230	<100	20	<0.50	1.2	5.3	NA	<5.0	82.16	17.87	NA	64.29	NA	NA
MW-10	**12/20/2001**	**300**	**110**	**13**	**2.5**	**1.7**	**4.6**	**NA**	**<5.0**	**82.16**	**15.54**	**NA**	**66.62**	**NA**	**NA**
MW-11	08/08/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.61	NA	NA	NA	NA
MW-11	08/16/2000	<50.0	56.80	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	25.50	NA	NA	NA	NA
MW-11	09/06/2000	<50.0	c	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	25.90	NA	NA	NA	NA
MW-11	11/29/2000	<50.0	63.8	<0.500	<0.500	<0.500	<0.500	NA	NA	90.63	25.80	NA	64.83	NA	NA
MW-11	03/06/2001	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	90.63	23.32	NA	67.31	NA	NA
MW-11	06/19/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	90.63	25.57	NA	65.06	NA	NA
MW-11	09/05/2001	<50	<50	<0.50	<0.50	<0.50	0.68	NA	<5.0	90.63	26.42	NA	64.21	NA	NA

WELL CONCENTRATIONS
Former Texaco Service Station
3800 Broadway
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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O. Readings (ppm)
MW-11	12/20/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	90.63	24.27	NA	66.36	NA	NA

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 19, 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 19, 2001, analyzed by EPA Method 8020.
MTBE = methyl-tertiary-butyl ether
TOC = Top of Casing Elevation
SPH = Separate-Phase Hydrocarbons
GW = Groundwater
D.O. = 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
n/n = Pre-purge/Post-purge D.O. reading.

WELL CONCENTRATIONS
Former Texaco Service Station
3800 Broadway
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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O. Readings (ppm)

Notes:

* Free product could not be accurately measured (>2.0 feet of product in well).

** MTBE confirmation by 8240.

a = TOC for MW-2 has changed.

b = This sample analyzed outside of EPA recommended hold time.

c = During shipment by laboratory, sample containers for MW-4, MW-7, and MW-11 were broken.

d = Sample containers for TEPH broke during transport to lab.

Survey information provided by Toxichem Management Systems, Inc., on December 11, 2000.

KIFF ANALYTICAL LLC

Report Number : 24049
Date : 1/8/02

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

Subject : 7 Water Samples
Project Name : 3800 Broadway, Oakland
Project Number : 011220-DA1
P.O. Number : 93995026

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,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 24049
Date : 1/8/02

Subject : 7 Water Samples
Project Name : 3800 Broadway, Oakland
Project Number : 011220-DA1
P.O. Number : 93995026

Case Narrative

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for sample MW-6. Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for sample MW-10. Matrix Spike/Matrix Spike Duplicate Results associated with sample MW-6 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 24049
Date : 1/8/02

Project Name : **3800 Broadway, Oakland**
Project Number : **011220-DA1**

Sample : **MW-1** Matrix : Water Lab Number : 24049-01
Sample Date :12/20/01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1.7**	0.50	ug/L	EPA 8260B	12/27/01
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/27/01
TPH as Gasoline	**59**	50	ug/L	EPA 8260B	12/27/01
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/27/01
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	12/27/01
TPH as Diesel	**530**	50	ug/L	M EPA 8015	1/2/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 24049

Date : 1/8/02

Project Name : **3800 Broadway, Oakland**

Project Number : **011220-DA1**

Sample : **MW-4** Matrix : Water Lab Number : 24049-02

Sample Date :12/20/01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/27/01
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/27/01
Toluene - d8 (Surr)	*102*		*% Recovery*	*EPA 8260B*	*12/27/01*
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	12/27/01
TPH as Diesel	**460**	50	ug/L	M EPA 8015	12/30/01

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 24049

Date : 1/8/02

Project Name : **3800 Broadway, Oakland**

Project Number : **011220-DA1**

Sample : **MW-6** Matrix : Water Lab Number : 24049-03

Sample Date :12/20/01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**2600**	10	ug/L	EPA 8260B	12/30/01
Toluene	**3700**	25	ug/L	EPA 8260B	1/1/02
Ethylbenzene	**1100**	10	ug/L	EPA 8260B	12/30/01
Total Xylenes	**4100**	10	ug/L	EPA 8260B	12/30/01
Methyl-t-butyl ether (MTBE)	**< 100**	100	ug/L	EPA 8260B	12/30/01
TPH as Gasoline	**29000**	1000	ug/L	EPA 8260B	12/30/01
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	12/30/01
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	12/30/01
TPH as Diesel	**< 1300**	1300	ug/L	M EPA 8015	12/30/01

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 24049
Date : 1/8/02

Project Name : **3800 Broadway, Oakland**
Project Number : **011220-DA1**

Sample : **MW-7** Matrix : Water Lab Number : 24049-04
Sample Date :12/20/01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/27/01
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/27/01
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	12/27/01
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	12/27/01
TPH as Diesel	**< 50**	50	ug/L	M EPA 8015	12/30/01

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 24049
Date : 1/8/02

Project Name : **3800 Broadway, Oakland**
Project Number : **011220-DA1**

Sample : **MW-9** Matrix : Water Lab Number : 24049-05
Sample Date :12/20/01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/27/01
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/27/01
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/27/01
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/27/01
TPH as Diesel	**84**	50	ug/L	M EPA 8015	12/30/01

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

Report Number : 24049
Date : 1/8/02

Project Name : **3800 Broadway, Oakland**
Project Number : **011220-DA1**

Sample : **MW-10** Matrix : Water Lab Number : 24049-06
Sample Date :12/20/01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**13**	0.50	ug/L	EPA 8260B	12/27/01
Toluene	**2.5**	0.50	ug/L	EPA 8260B	12/27/01
Ethylbenzene	**1.7**	0.50	ug/L	EPA 8260B	12/27/01
Total Xylenes	**4.6**	0.50	ug/L	EPA 8260B	12/27/01
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/27/01
TPH as Gasoline	**300**	50	ug/L	EPA 8260B	12/27/01
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	12/27/01
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/27/01
TPH as Diesel	**110**	50	ug/L	M EPA 8015	12/30/01

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KIFF ANALYTICAL LLC

Report Number : 24049
Date : 1/8/02

Project Name : **3800 Broadway, Oakland**
Project Number : **011220-DA1**

Sample : **MW-11** Matrix : Water Lab Number : 24049-07
Sample Date :12/20/01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/27/01
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/27/01
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/27/01
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	12/27/01
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/27/01
TPH as Diesel	**< 50**	50	ug/L	M EPA 8015	12/30/01

Approved By: Joel Kiff

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Report Number : 24049

Date : 1/8/02

QC Report : Method Blank Data

Project Name : **3800 Broadway, Oakland**

Project Number : **011220-DA1**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	12/29/01
Benzene	< 0 50	0.50	ug/L	EPA 8260B	12/29/01
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/29/01
Ethylbenzene	< 0.50	0 50	ug/L	EPA 8260B	12/29/01
Total Xylenes	< 0.50	0 50	ug/L	EPA 8260B	12/29/01
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	12/29/01
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/29/01
Toluene - d8 (Surr)	100		%	EPA 8260B	12/29/01
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	12/29/01
Benzene	< 0 50	0 50	ug/L	EPA 8260B	12/27/01
Toluene	< 0 50	0 50	ug/L	EPA 8260B	12/27/01
Ethylbenzene	< 0 50	0 50	ug/L	EPA 8260B	12/27/01
Total Xylenes	< 0 50	0 50	ug/L	EPA 8260B	12/27/01
Methyl-t-butyl ether (MTBE)	< 5 0	5 0	ug/L	EPA 8260B	12/27/01
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/27/01
Toluene - d8 (Surr)	102		%	EPA 8260B	12/27/01
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	12/27/01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

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KIFF ANALYTICAL, LLC

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Report Number . 24049

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 1/8/02

Project Name : **3800 Broadway, Oakland**

Project Number : **011220-DA1**

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
TPH as Diesel	Blank	<50	1000	1000	800	816	ug/L	M EPA 8015	12/29/01	80.0	81.6	1.92	70-130	25
Benzene	24067-04	<0.50	38.9	37.8	40.0	39.2	ug/L	EPA 8260B	12/29/01	103	104	0.847	70-130	25
Toluene	24067-04	<0.50	38.9	37.8	38.3	37.5	ug/L	EPA 8260B	12/29/01	98.5	99.2	0.733	70-130	25
Tert-Butanol	24067-04	<5.0	194	189	189	183	ug/L	EPA 8260B	12/29/01	97.2	96.6	0.624	70-130	25
Methyl-t-Butyl Ether	24067-04	130	38.9	37.8	155	153	ug/L	EPA 8260B	12/29/01	50.9	47.6	6.77	70-130	25
Benzene	24035-01	<0.50	40.0	40.0	37.1	36.7	ug/L	EPA 8260B	12/27/01	92.8	91.7	1.16	70-130	25
Toluene	24035-01	0.60	40.0	40.0	38.7	38.2	ug/L	EPA 8260B	12/27/01	95.2	94.0	1.19	70-130	25
Tert-Butanol	24035-01	<5.0	200	200	176	184	ug/L	EPA 8260B	12/27/01	88.2	92.3	4.47	70-130	25
Methyl-t-Butyl Ether	24035-01	<0.50	40.0	40.0	37.9	37.8	ug/L	EPA 8260B	12/27/01	94.7	94.5	0.211	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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Report Number : 24049

QC Report : Laboratory Control Sample (LCS)

Date : 1/8/02

Project Name : **3800 Broadway, Oakland**

Project Number : **011220-DA1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	12/29/01	103	70-130
Toluene	40.0	ug/L	EPA 8260B	12/29/01	99.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/29/01	94.4	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/29/01	92.9	70-130
Benzene	40.0	ug/L	EPA 8260B	12/27/01	108	70-130
Toluene	40.0	ug/L	EPA 8260B	12/27/01	108	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/27/01	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/27/01	118	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

LAB: Kiff

Lab Identification (if necessary)

Address

City State Zip

EQUIVA Services LLC Chain Of Custody Record

Equiva Project Manager to be invoiced: Karen Petryna

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

24049

INCIDENT NUMBER (S&E ONLY): 9 3 9 9 5 0 2 6

SAP or CRMT NUMBER (TS/CRMT): [redacted]

DATE 12/20/01

PAGE 1 of 1

SAMPLING COMPANY	LOG CODE	SITE ADDRESS (Street and City)	GLOBAL ID NO
Blaine Tech Services	BTSS	3800 Broadway, Oakland	

ADDRESS	EDF DELIVERABLE TO (Responsible Party or Designee)	PHONE NO	E-MAIL	CONSULTANT PROJECT NO
1680 Rogers Avenue, San Jose, CA 95112	Keith Winemiller	(415) 681-8816	keithw@toxichem.com	BTS # 011220-DA1

PROJECT CONTACT (Hardcopy or PDF Report to)	TELEPHONE	FAX	E-MAIL
Leon Gearhart	408-573-0555	408-573-7771	lgearhart@blainetech.com

SAMPLER NAME(S) (Print): David Allbut

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS)

☒ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

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

SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note							FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-1	12/20/01	1230	W	5	X	X	X								X								-01
	MW-4		1312			X	X	X								X								-02
	MW-6		1512			X	X	X								X								-03
	MW-7		1045			X	X	X								X								-04
	MW-9		1400			X	X	X								X								-05
	MW-10		1552			X	X	X								X								-06
	MW-11		1000			X	X	X								X								-07

Relinquished by (Signature)	Received by (Signature)	Date	Time
David Allbut			
Relinquished by (Signature)	Received by (Signature)	Date	Time
Relinquished by (Signature)	Received by (Signature)	Date	Time
	John Cuttle Kiff Analytical	122101	1140

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

10/16/00 Revision

Q&Q Graphic (714) 898-9702

WELL GAUGING DATA

Project # 011220-DA1 Date 12/20/01 Client Equiva

Site 3800 Broadway

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	Order
MW-1	2					20.25	28.80		6
MW-4	2					17.55	35.00		7
MW-5	2	obstruction in	well @	7.93		—	7.93		5
MW-6	2					19.80	32.65		8
MW-7	2					17.85	33.87		2
MW-9	2					16.85	34.10		3
MW-10	2					15.54	33.40		4
MW-11	2					24.27	39.30		1

EQUIVA WELL MONITORING DATA SHEET

BTS #: 011220-DA1	Site: 3800 Broadway, Oakland
Sampler: DA	Date: 12/20/01
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 28.80	Depth to Water: 20.25
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: Bailer (Disposable Bailer) Middleburg Electric Submersible | Waterra Peristaltic Extraction Pump Other_____ | Sampling Method: Bailer (Disposable Bailer) Extraction Port Dedicated Tubing Other:_____

1.3 (Gals.) X 3 = 3.9 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2")	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1214	58.9	6.2	1065	7200	1.3	grey, very cloudy
1219	60.5	6.7	1135	"	2.6	less grey
1222	61.5	6.6	1071	"	3.9	"

Did well dewater? Yes (No) Gallons actually evacuated: 4.0

Sampling Time: 1230 Sampling Date: 12/20/01

Sample I.D.: MW-1 Laboratory: (Kiff) Sequoia Other_____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

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

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EQUIVA WELL MONITORING DATA SHEET

BTS #: 011220-DA1	Site: 3800 Broadway, Oakland
Sampler: DA	Date: 12/20/01
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 35.00	Depth to Water: 17.55
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: Bailer / (Disposable Bailer) / Middleburg / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other ____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Dedicated Tubing / Other: ____

2.8 (Gals.) X 3 = 8.4 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2")	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1254	63.0	6.6	443	7200	2.8	cloudy
1301	63.0	6.6	443	"	5.6	"
1310	62.0	6.9	440	"	8.4	"

Did well dewater? Yes (No) Gallons actually evacuated: 8.4

Sampling Time: 1312 Sampling Date: 12/20/01

Sample I.D.: MW-4 Laboratory: (Kiff) Sequoia Other ____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

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

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EQUIVA WELL MONITORING DATA SHEET

BTS #: 011220-0A1	Site: 3500 BROADWAY, OAKLAND
Sampler: DAVID	Date: 12-20-01
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 7.93	Depth to Water: DRY
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, Other: _____

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

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
	WELL OBSTRUCTED @ 7.93 AND DRY					
		NO PURGE OR SAMPLE				

Did well dewater? Yes No		Gallons actually evacuated:	
Sampling Time:		Sampling Date:	
Sample I.D.:		Laboratory: Kiff Sequoia Other_____	
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:		
EB I.D. (if applicable):	@ Time	Duplicate I.D. (if applicable):	
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:		
D.O. (if req'd): Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV

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EQUIVA WELL MONITORING DATA SHEET

BTS #: 011220-DA1	Site: 3800 Broadway, Oakland
Sampler: DA	Date: 12/20/01
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 32.65	Depth to Water: 19.80
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: Bailer ~~Disposable Bailer~~ Middleburg Electric Submersible Waterra Peristaltic Extraction Pump Other_____

Sampling Method: Bailer (Disposable Bailer) Extraction Port Dedicated Tubing Other:_____

2.0 (Gals.) X 3 = 6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2")	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1452	62.2	6.6	957	>200	2	cloudy, grey, odor
1502	63.0	6.8	960	"	4	"
1508	63.9	6.7	981	"	6	"

Did well dewater? Yes (No) Gallons actually evacuated: 6

Sampling Time: 1512 Sampling Date: 12/20/01

Sample I.D.: MW-6 Laboratory: (Kiff) Sequoia Other_____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	(Pre-purge:)	~~35~~ 1.3 mg/L	(Post-purge:)	1.5 mg/L
O.R.P. (if req'd):	(Pre-purge:)	-35 mV	(Post-purge:)	-50 mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 011220-DA1	Site: 3800 Broadway, Oakland
Sampler: DA	Date: 12/20/01
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 33.87	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 (Disposable Bailer) Middleburg Electric Submersible Waterra Peristaltic Extraction Pump Other_____

Sampling Method: Bailer (Disposable Bailer) Extraction Port Dedicated Tubing Other:

2.6 (Gals.) X	3	=	7.8 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2")	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1029	63.1	6.5	513	7200	2.6	cloudy, tan
1035	63.7	6.1	513	"	5.2	"
1041	64.0	6.5	516	"	7.8	"

Did well dewater? Yes (No) Gallons actually evacuated: 7.8

Sampling Time: 1045 Sampling Date: 12/20/01

Sample I.D.: MW-7 Laboratory: (Kiff) Sequoia Other_____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	4.9 mg/L	Post-purge:	5.0 mg/L	
O.R.P. (if req'd):	Pre-purge:	190 mV	Post-purge:	183 mV	

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EQUIVA WELL MONITORING DATA SHEET

BTS #: 011220-DA1	Site: 3800 Broadway, Oakland
Sampler: DA	Date: 12/20/01
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 34.10	Depth to Water: 16.85
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: Bailer (Disposable Bailer) Middleburg Electric Submersible | Waterra Peristaltic Extraction Pump Other_____

Sampling Method: Bailer (Disposable Bailer) Extraction Port Dedicated Tubing Other:_____

2.8 (Gals.) X 3 = 8.4 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2")	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1342	63.2	6.2	394	>200	2.8	cloudy, brown
1348	64.5	6.3	408	"	5.6	"
1357	63.7	6.8	398	"	8.4	"

Did well dewater? Yes (No) Gallons actually evacuated: 8.4

Sampling Time: 1400 Sampling Date: 12/20/01

Sample I.D.: MW-9 Laboratory: (Kiff) Sequoia Other_____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	2.2 mg/L	Post-purge:	2.2 mg/L
O.R.P. (if req'd):	Pre-purge:	86 mV	Post-purge:	90 mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 011220-DA1	Site: 3800 Broadway, Oakland
Sampler: DA	Date: 12/20/01
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 33.40	Depth to Water: 15.54
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: Bailer (Disposable Bailer) Middleburg Electric Submersible Waterra Peristaltic Extraction Pump Other____

Sampling Method: Bailer (Disposable Bailer) Extraction Port Dedicated Tubing Other:

2.9 (Gals.) X 3 = 8.7 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2")	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1536	62.8	6.7	677	7200	2.9	cloudy, grayish
1542	63.6	6.7	738	"	5.8	"
1548	64.1	6.7	661	"	8.7	"

Did well dewater? Yes (No) Gallons actually evacuated: 8.7

Sampling Time: ~~1552~~ 1552 Sampling Date: 12/20/01

Sample I.D.: MW-10 Laboratory: (Kiff) Sequoia Other____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

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

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EQUIVA WELL MONITORING DATA SHEET

BTS #: 011220-DA1	Site: 3800 Broadway, Oakland
Sampler: DA	Date: 12/20/01
Well I.D.: MW-11	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 39.30	Depth to Water: 24.27
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: Bailer; (Disposable Bailer); Middleburg; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: ____

2.4 (Gals.) X 3 = 7.2 Gals.
1 Case Volume; Specified Volumes; Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2")	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
0944	60.1	6.4	725	>200	2.4	Cloudy, brown
0949	62.2	6.5	735	>200	4.8	"
0957	62.2	6.7	751	>200	7.2	"

Did well dewater? Yes (No) Gallons actually evacuated: 7.2

Sampling Time: 1000 Sampling Date: 12/20/01

Sample I.D.: MW-11 Laboratory: (Kiff) Sequoia Other____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

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

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