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

May 19, 2000
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

Re: **Quarterly Monitoring Report - First Quarter 2000**
Former Texaco Service Station
3810 Broadway, Oakland, California

Dear Mr. Chan:

On behalf of Equiva Services LLC, this letter transmits the results of first quarter 2000 groundwater monitoring and sampling conducted at the site referenced above. This report presents and interpretation of results and recommendations and schedule for future actions.

INTERPRETATION OF RESULTS

Groundwater Elevation

The average groundwater elevation at the site increased approximately 3.89 feet between the fourth quarter 1999 and first quarter 2000, and it remains within the historical range of groundwater elevation.

The groundwater elevation could not be calculated for Well MW-2 because the casing was damaged during the soil excavation project recently completed at the site. The damage changed the top of casing elevation. Additionally, groundwater elevation and sampling data could not be obtained from Wells MW-3 and MW-8, which were destroyed in February 2000 in preparation of the soil excavation project.

Groundwater Flow Direction and Gradient

During the first quarter 2000, the groundwater flow direction reversed from southeasterly to northwesterly. The approximate groundwater gradient also decreased from 0.037 to 0.007. The changes in groundwater elevation, flow direction, and gradient may be due to the soil excavation project completed one week prior to the sampling event. The low permeable soils within the saturated zone were excavated and replaced with a pea gravel backfill.

Analytical Results

During the first quarter 2000, separate phase hydrocarbons (SPH) were not measured in any well. However, Wells MW-3 and MW-8, which historically have contained SPH were destroyed in February 2000 in preparation of the soil excavation project. Overall, the dissolved groundwater concentrations appear stable with no apparent fluctuations outside historical ranges.

RECOMMENDATIONS AND SCHEDULE FOR FUTURE ACTIONS

1. Prepare soil excavation report.
2. Repair and replace damaged and destroyed monitoring wells following completion of the property owner's site renovation project.
3. Continue measuring natural biodegradation parameters, including dissolved oxygen, oxidation-reduction potential, nitrates, sulfates, and ferrous iron.
4. Continue the quarterly groundwater monitoring and sampling program.

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

Sincerely,

Toxichem Management Systems, Inc.

Keith Winemiller, P.E.
Senior Engineer

Enclosure

cc: Ms. Karen Petryna, P.E., Equiva Services LLC, P. O. Box 7869, Burbank, CA 91510-7869
Mr. Joe Zadik, 8255 San Leandro Street, Oakland, CA 94621

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	03/21/2000	54,100	4,610,000	1,260	3,020	2,180	8,200	<5,250	NA	a	19.49	NA	NA	NA	3.3/3.6
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
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

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-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-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
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-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

WELL CONCENTRATIONS
Former Texaco Service Station
3800 Broadway
Oakland, CA

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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-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
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

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Oakland, CA

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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-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

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Abbreviations:
TPPH= Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015
BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020
MTBE = methyl-tertiary-butyl ether
TOC = Top of Casing Elevation
SPH = Separate-Phase Hydrocarbons
GW = Groundwater
ug/L = parts per billion
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.

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; well elevation will be resurveyed.

Table 2

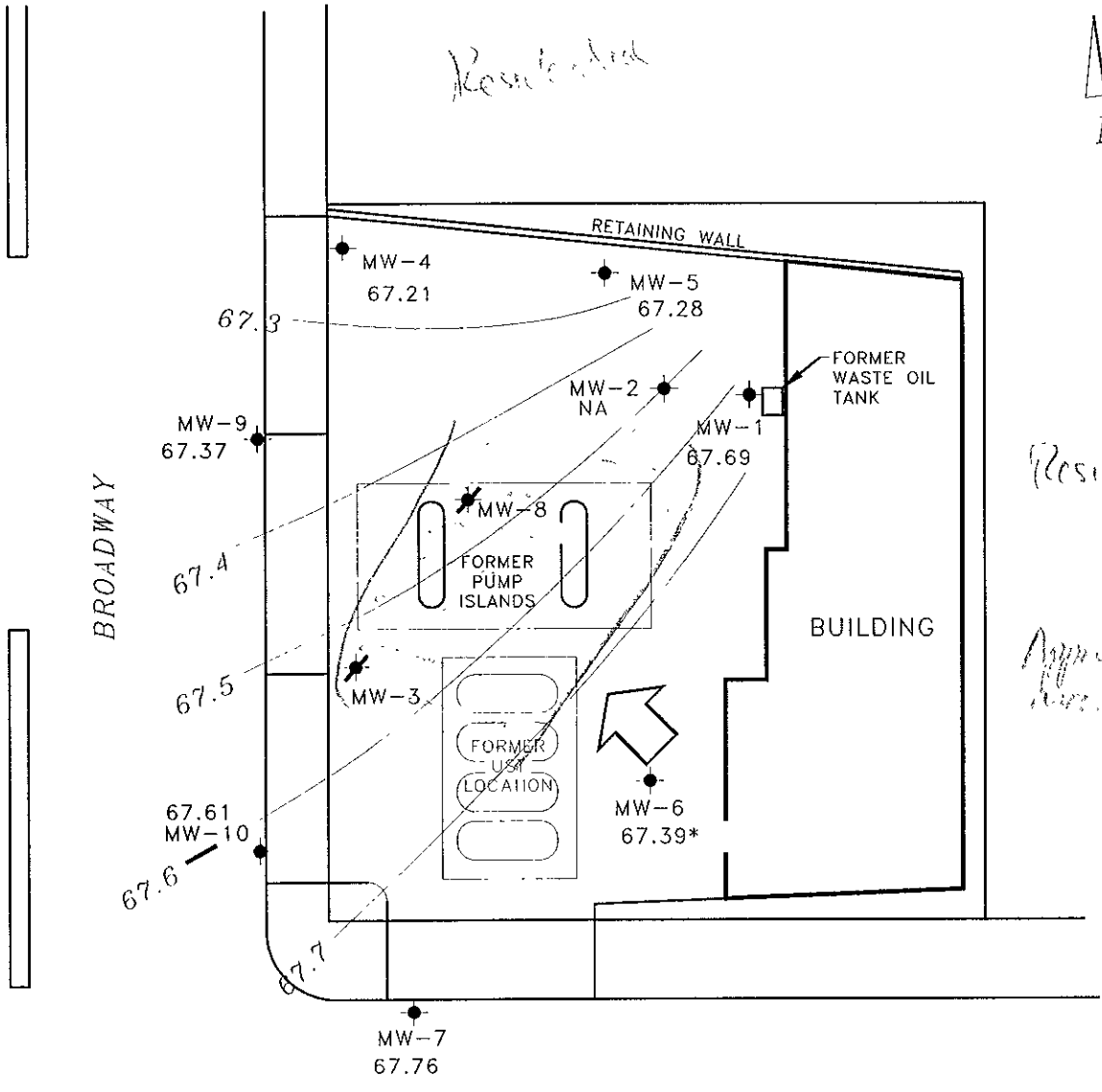
Groundwater Analytical Data

Ferrous Iron, Nitrate, Sulfate, Dissolved Oxygen, and Oxidation/Reduction Potential

Former Texaco Service Station
3810 Broadway, Oakland, California

Boring Number	Date Sampled	Ferrous Iron (mg/L)	Nitrate as NO_3 (mg/L)	Sulfate as SO_4 (mg/L)	Dissolved Oxygen Pre-Purge (mg/L)	Dissolved Oxygen Post-Purge (mg/L)	Oxidation/Reduction Potential Pre-Purge (mV)	Oxidation/Reduction Potential Post-Purge (mV)
MW-2	09/14/99	1.10	<0.100	5.13	1.0	0.8	-211	-225
	12/29/99	NA	NA	NA	2.6	NA	NA	NA
	03/21/00	0.0820	<0.226	21.5	3.3	3.6	-161	-162
MW-6	09/14/99	0.480	<0.100	5.64	1.0	1.2	-241	-267
	12/29/99	2.30	<1.00	<5.00	1.3	1.5	-163	-235
	03/21/00	0.0340	<0.226	4.81	3.0	4.3	-133	-140
MW-7	09/14/99	0.0130	36.5	37.2	1.4	1.6	-102	-78
	12/29/99	0.0108	22.3	27.1	2.3	1.8	-12	62
	03/21/00	0.314	<0.226	30.4	5.8	9.0	22	525
MW-9	09/14/99	0.0130	2.11	34.8	1.0	1.2	-89	-106
	12/29/99	0.200	4.81	29.5	3.3	2.7	0	10
	03/21/00	0 339	<0.226	24.6	3.2	7.3	0	517

mg/L = Milligrams per liter



EXPLANATION

- MONITORING WELL
- DESTROYED WELL
- 63.88 GROUNDWATER ELEVATION (FT, MSL), 3-21-00
- 64.00 GROUNDWATER ELEVATION CONTOUR (FT, MSL), 3-21-00
- APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.007
- * DATA NOT CONTOURED

SCALE (ft)

0 30

Reference: EQ-02 1A/BR-0A DWG
Basemap from Remediation Risk Management, Inc.

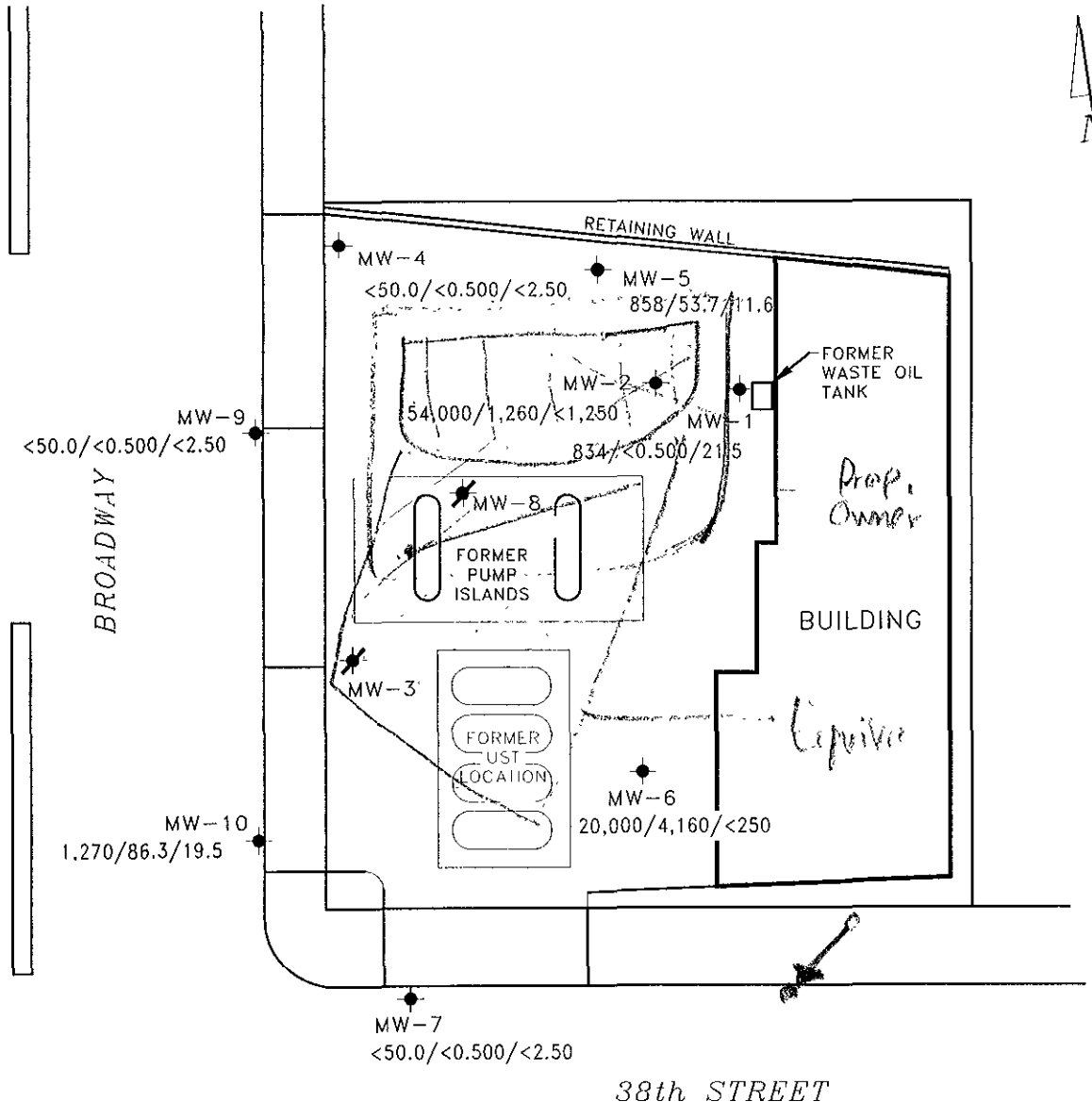
TOXICHEM Management Systems, Inc.
Environmental & Occupational Health Services

GROUNDWATER ELEVATION CONTOUR MAP, MARCH 21, 2000

Former Texaco Service Station
3810 Broadway
Oakland, California

FIGURE: 1

PROJECT: EQ-02



EXPLANATION

- MONITORING WELL
- DESTROYED WELL

<50.0/<0.500/<2.50 TPPH/BENZENE/MtBE CONCENTRATION IN GROUNDWATER, IN MICROGRAMS PER LITER, 3-21-00

NA MtBE BY EPA METHOD 8260, IF AVAILABLE

DATA NOT AVAILABLE

SCALE (ft)

0 30

Reference EQ-02.1A/BR-0A DWG
Basemap from Remediation Risk Management, Inc.

TOXICHEM Management Systems, Inc.
Environmental & Occupational Health Services

TPPH/BENZENE/MtBE CONCENTRATION MAP, MARCH 21, 2000

Former Texaco Service 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
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

May 5, 2000

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

First Quarter 2000 Groundwater Monitoring at
Former Texaco Service Station
3800 Broadway
Oakland, CA

Monitoring performed on March 21, 2000

Groundwater Monitoring Report **000321-U-2**

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. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

Deidre Kerwin
Operations Manager

DK/jt

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

Sequoia
Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

April 17, 2000

Nick Sudano
Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose, CA 95112

RE. Shell 3800 Broadway

Dear Nick Sudano

Enclosed are the results of analyses for sample(s) received by the laboratory on March 22, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

TED TERRASAS

Kayvan Kimyai
Project Manager D.M.

CA ELAP Certificate Number 1210

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequolalabs.com

Blaine Tech Services (Shell)	Project:	Shell	Sampled: 3/21/00
1680 Rogers Avenue	Project Number:	3800 Broadway	Received: 3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported: 4/17/00 19:20

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	MJC0752-01	Water	3/21/00
MW-2	MJC0752-02	Water	3/21/00
MW-4	MJC0752-03	Water	3/21/00
MW-5	MJC0752-04	Water	3/21/00
MW-6	MJC0752-05	Water	3/21/00
MW-7	MJC0752-06	Water	3/21/00
MW-9	MJC0752-07	Water	3/21/00
MW-10	MJC0752-08	Water	3/21/00

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ted Terrana

Kaiyan Kimyai, Project Manager D.M.

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Blaine Tech Services (Shell)	Project:	Shell	Sampled: 3/21/00
1680 Rogers Avenue	Project Number:	3800 Broadway	Received: 3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported: 4/17/00 19:20

Diesel Hydrocarbons (C9-C24) by DHS LUFT
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-1			**MJC0752-01**				**Water**	
Diesel Range Hydrocarbons	0C28010	3/28/00	3/30/00	DHS LUFT	0.0500	**0.319**	mg/l	D-15
Surrogate n-Pentacosane	"	"	"	*50-150*		*102*	%	
MW-2			**MJC0752-02**				**Water**	
Diesel Range Hydrocarbons	0C28010	3/28/00	3/31/00	DHS LUFT	1.00	**41.1**	mg/l	D-15
Surrogate n-Pentacosane	"	"	"	*50-150*		*124*	%	
MW-4			**MJC0752-03**				**Water**	
Diesel Range Hydrocarbons	0C28010	3/28/00	3/30/00	DHS LUFT	0.0500	ND	mg/l	
Surrogate: n-Pentacosane	"	"	"	*50-150*		*99 8*	%	
MW-5			**MJC0752-04**				**Water**	
Diesel Range Hydrocarbons	0C28010	3/28/00	3/30/00	DHS LUFT	0.0500	**0.158**	mg/l	D-15
Surrogate: n-Pentacosane	"	"	"	*50-150*		*91.2*	%	
MW-6			**MJC0752-05**				**Water**	
Diesel Range Hydrocarbons	0C28010	3/28/00	3/30/00	DHS LUFT	0.0500	**1.12**	mg/l	D-15
Surrogate n-Pentacosane	"	"	"	*50-150*		*96.0*	%	
MW-7			**MJC0752-06**				**Water**	
Diesel Range Hydrocarbons	0C28010	3/28/00	3/30/00	DHS LUFT	0.0500	ND	mg/l	
Surrogate. n-Pentacosane	"	"	"	*50-150*		*92.2*	%	
MW-9			**MJC0752-07**				**Water**	
Diesel Range Hydrocarbons	0C29021	3/29/00	3/31/00	DHS LUFT	0.0500	**0.0724**	mg/l	D-15
Surrogate. n-Pentacosane	"	"	"	*50-150*		*79.6*	%	
MW-10			**MJC0752-08**				**Water**	
Diesel Range Hydrocarbons	0C29021	3/29/00	3/31/00	DHS LUFT	0.0500	**0.194**	mg/l	D-15
Surrogate: n-Pentacosane	"	"	"	*50-150*		*83 6*	%	

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Morgan Hill, CA 95037
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Blaine Tech Services (Shell)	Project:	Shell	Sampled: 3/21/00
1680 Rogers Avenue	Project Number:	3800 Broadway	Received: 3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported: 4/17/00 19:20

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-2			**MJC0752-02**				**Water**	
Ferrous Iron	0C24012	3/24/00	4/3/00	EPA 6010A	0.0100	**0.0820**	mg/l	
MW-6			**MJC0752-05**				**Water**	
Ferrous Iron	0C24012	3/24/00	4/3/00	EPA 6010A	0.0100	**0.0340**	mg/l	
MW-7			**MJC0752-06**				**Water**	
Ferrous Iron	0C24012	3/24/00	4/3/00	EPA 6010A	0.0100	**0.314**	mg/l	
MW-9			**MJC0752-07**				**Water**	
Ferrous Iron	0C24012	3/24/00	4/3/00	EPA 6010A	0.0100	**0.339**	mg/l	

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1680 Rogers Avenue	Project Number:	3800 Broadway	Received: 3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported: 4/17/00 19:20

Anions by EPA Method 300.0
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-2			**MJC0752-02**				**Water**	
Nitrate as N	0C24019	3/22/00	3/22/00	EPA 300.0	0.226	ND	mg/l	
Sulfate as SO4	"	"	"	EPA 300.0	5.00	**21.5**	"	
MW-6			**MJC0752-05**				**Water**	
Nitrate as N	0C24019	3/22/00	3/22/00	EPA 300.0	0.226	ND	mg/l	
Sulfate as SO4	"	"	"	EPA 300.0	5.00	ND	"	
MW-7			**MJC0752-06**				**Water**	
Nitrate as N	0C24019	3/22/00	3/22/00	EPA 300.0	0.226	**4.81**	mg/l	
Sulfate as SO4	"	"	"	EPA 300.0	5.00	**30.4**	"	
MW-9			**MJC0752-07**				**Water**	
Nitrate as N	0C24019	3/22/00	3/22/00	EPA 300.0	0.226	**1.03**	mg/l	
Sulfate as SO4	"	"	"	EPA 300.0	5.00	**24.6**	"	

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Blaine Tech Services (Shell)	Project:	Shell	Sampled: 3/21/00
1680 Rogers Avenue	Project Number:	3800 Broadway	Received: 3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported: 4/17/00 19:20

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1			**MJC0752-01**				**Water**	
Gasoline	0040004	4/3/00	4/3/00		50.0	**834**	ug/l	HC-12
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0 500	ND	"	
Xylenes (total)	"	"	"		0 500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	**21.5**	"	QR-04
Surrogate: a,a a-Trifluorotoluene	"	"	"	*65.0-135*		*111*	*%*	
Surrogate. 4-Bromofluorobenzene	"	"	"	*65.0-135*		*92.7*	"	
MW-2			**MJC0752-02**				**Water**	
Gasoline	0040004	4/1/00	4/2/00		25000	**54100**	ug/l	
Benzene	"	"	"		250	**1260**	"	
Toluene	"	"	"		250	**3320**	"	
Ethylbenzene	"	"	"		250	**2180**	"	
Xylenes (total)	"	"	"		250	**8200**	"	
Methyl tert-butyl ether	"	"	"		1250	ND	"	
Surrogate a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*102*	*%*	
Surrogate 4-Bromofluorobenzene	"	"	"	*65 0-135*		*96.7*	"	
MW-4			**MJC0752-03**				**Water**	
Gasoline	0040004	4/1/00	4/2/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*106*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*95.0*	"	
MW-5			**MJC0752-04**				**Water**	
Gasoline	0040004	4/1/00	4/2/00		100	**858**	ug/l	
Benzene	"	"	"		1.00	**53.7**	"	
Toluene	"	"	"		1.00	ND	"	
Ethylbenzene	"	"	"		1.00	**21.4**	"	
Xylenes (total)	"	"	"		1.00	**8.00**	"	
Methyl tert-butyl ether	"	"	"		5.00	**11.6**	"	QR-04
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*103*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*98.7*	"	

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1680 Rogers Avenue	Project Number:	3800 Broadway	Received: 3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported: 4/17/00 19:20

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-6			**MJC0752-05**				**Water**	
Gasoline	0040004	4/1/00	4/2/00		5000	**20000**	ug/l	
Benzene	"	"	"		50.0	**4160**	"	
Toluene	"	"	"		50.0	**962**	"	
Ethylbenzene	"	"	"		50.0	**719**	"	
Xylenes (total)	"	"	"		50.0	**2330**	"	
Methyl tert-butyl ether	"	"	"		250	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*102*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*95.3*	"	
MW-7			**MJC0752-06**				**Water**	
Gasoline	0040004	4/1/00	4/2/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*101*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*95.7*	"	
MW-9			**MJC0752-07**				**Water**	
Gasoline	0040004	4/2/00	4/2/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*104*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*92.3*	"	
MW-10			**MJC0752-08**				**Water**	
Gasoline	0040004	4/2/00	4/2/00		100	**1270**	ug/l	
Benzene	"	"	"		1.00	**86.3**	"	
Toluene	"	"	"		1.00	**52.3**	"	
Ethylbenzene	"	"	"		1.00	**38.1**	"	
Xylenes (total)	"	"	"		1.00	**102**	"	
Methyl tert-butyl ether	"	"	"		5.00	**19.5**	"	QR-04
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*101*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*96.3*	"	

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1680 Rogers Avenue	Project Number:	3800 Broadway	Received: 3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported: 4/17/00 19:20

Diesel Hydrocarbons (C9-C24) by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0C28010	**Date Prepared: 3/28/00**					**Extraction Method: EPA 3510B**				
Blank	**0C28010-BLK1**									
Diesel Range Hydrocarbons	3/28/00			**ND**	mg/l	**0.0500**				
Surrogate: n-Pentacosane	"	*0.100*		*0.0882*	"	*50-150*	*88.2*			
LCS	**0C28010-BS1**									
Diesel Range Hydrocarbons	3/29/00	1.00		0.671	mg/l	60-140	67.1			
Surrogate: n-Pentacosane	*3/28/00*	*0.100*		*0.0774*	"	*50-150*	*77.4*			
LCS Dup	**0C28010-BSD1**									
Diesel Range Hydrocarbons	3/29/00	1.00		0.653	mg/l	60-140	65.3	50	2.72	
Surrogate: n-Pentacosane	*3/28/00*	*0.100*		*0.0748*	"	*50-150*	*74.8*			
Batch: 0C29021	**Date Prepared: 3/29/00**					**Extraction Method: EPA 3510B**				
Blank	**0C29021-BLK1**									
Diesel Range Hydrocarbons	3/31/00			**ND**	mg/l	**0.0500**				
Surrogate: n-Pentacosane	"	*0.100*		*0.0842*	"	*50-150*	*84.2*			
LCS	**0C29021-BS1**									
Diesel Range Hydrocarbons	3/31/00	1.00		0.735	mg/l	60-140	73.5			
Surrogate: n-Pentacosane	"	*0.100*		*0.0812*	"	*50-150*	*81.2*			
LCS Dup	**0C29021-BSD1**									
Diesel Range Hydrocarbons	3/31/00	1.00		0.739	mg/l	60-140	73.9	50	0.543	
Surrogate: n-Pentacosane	"	*0.100*		*0.0786*	"	*50-150*	*78.6*			

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Blaine Tech Services (Shell)	Project:	Shell	Sampled: 3/21/00
1680 Rogers Avenue	Project Number:	3800 Broadway	Received: 3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported: 4/17/00 19:20

Total Metals by EPA 6000/7000 Series Methods/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0C24012	**Date Prepared: 3/24/00**					**Extraction Method: EPA 3005A**				
Blank	**0C24012-BLK1**									
Ferrous Iron	4/3/00			**ND**	mg/l	**0.0100**				
LCS	**0C24012-BS1**									
Ferrous Iron	4/3/00	1.00		1.19	mg/l	80-120	119			
Matrix Spike	**0C24012-MS1**		**MJC0752-02**							
Ferrous Iron	4/3/00	1.00	0.0820	1.16	mg/l	80-120	**108**			
Matrix Spike Dup	**0C24012-MSD1**		**MJC0752-02**							
Ferrous Iron	4/3/00	1.00	0 0820	1.18	mg/l	80-120	**110**	20	**1.71**	

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1680 Rogers Avenue	Project Number:	3800 Broadway	Received: 3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported: 4/17/00 19:20

Anions by EPA Method 300.0/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0C24019	**Date Prepared: 3/22/00**					**Extraction Method: General Preparation**				
Blank	**0C24019-BLK1**									
Nitrate as N	3/22/00			**ND**	mg/l	**0.0226**				
Sulfate as SO4	"			**ND**	"	**0.500**				
LCS	**0C24019-BS1**									
Nitrate as N	3/22/00	2.26		2.20	mg/l	90-110	97.3			
Sulfate as SO4	"	10.0		9.36	"	90-110	93.6			
Matrix Spike	**0C24019-MS1**		**MJC0752-06**							
Nitrate as N	3/22/00	22.6	4.81	26.5	mg/l	80-120	**96.0**			
Sulfate as SO4	"	100	30.4	125	"	80-120	**94.6**			
Matrix Spike Dup	**0C24019-MSD1**		**MJC0752-06**							
Nitrate as N	3/22/00	22.6	4.81	26.4	mg/l	80-120	**95.5**	20	**0.378**	
Sulfate as SO4	"	100	30.4	125	"	80-120	**94.6**	20	**0**	

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1680 Rogers Avenue	Project Number:	3800 Broadway	Received: 3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported: 4/17/00 19:20

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0040004	**Date Prepared: 4/1/00**					**Extraction Method: EPA 5030 waters**				
Blank	**0040004-BLK1**									
Gasoline	4/1/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**2.50**				
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*325*	"	*65.0-135*	*108*			
Surrogate: 4-Bromofluorobenzene	"	*300*		*290*	"	*65.0-135*	*96.7*			
Blank	**0040004-BLK2**									
Gasoline	4/2/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**2.50**				
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*303*	"	*65.0-135*	*101*			
Surrogate: 4-Bromofluorobenzene	"	*300*		*290*	"	*65.0-135*	*96.7*			
Blank	**0040004-BLK3**									
Gasoline	4/3/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**2.50**				
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*321*	"	*65.0-135*	*107*			
Surrogate: 4-Bromofluorobenzene	"	*300*		*279*	"	*65.0-135*	*93.0*			
LCS	**0040004-BS1**									
Surrogate: 4-Bromofluorobenzene	*4/2/00*	*300*		*302*	*ug/l*	*65.0-135*	*101*			
LCS	**0040004-BS2**									
Benzene	4/2/00	100		104	ug/l	65.0-135	104			
Toluene	"	100		104	"	65.0-135	104			
Ethylbenzene	"	100		97.8	"	65.0-135	97.8			
Xylenes (total)	"	300		303	"	65.0-135	101			

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Blaine Tech Services (Shell)	Project:	Shell	Sampled: 3/21/00
1680 Rogers Avenue	Project Number:	3800 Broadway	Received: 3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported: 4/17/00 19:20

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**0040004-BS2**									
Methyl tert-butyl ether	4/2/00	100		95.2	ug/l	65.0-135	95.2			
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*307*	"	*65.0-135*	*102*			
LCS	**0040004-BS3**									
Gasoline	4/3/00	1000		918	ug/l	65.0-135	91.8			
Surrogate: 4-Bromofluorobenzene	"	*300*		*285*	"	*65.0-135*	*95.0*			
Matrix Spike	**0040004-MS1**	**MJC0752-03**								
Gasoline	4/2/00	1000	ND	930	ug/l	65.0-135	**93.0**			
Surrogate: 4-Bromofluorobenzene	"	*300*		*305*	"	*65.0-135*	*102*			
Matrix Spike Dup	**0040004-MSD1**	**MJC0752-03**								
Gasoline	4/2/00	1000	ND	950	ug/l	65.0-135	**95.0**	20.0	**2.13**	
Surrogate: 4-Bromofluorobenzene	"	*300*		*306*	"	*65.0-135*	*102*			

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1680 Rogers Avenue	Project Number.	3800 Broadway	Received: 3/22/00
San Jose, CA 95112	Project Manager.	Nick Sudano	Reported: 4/17/00 19:20

Notes and Definitions

#	Note
D-15	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
HC-12	Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
QR-04	Results between the primary and confirmation columns varied by greater than 40% RPD.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

BLAINE TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY 020321-42

CLIENT: Equiva - Karen Petryna

SITE: 3800 Broadway

Oakland, CA

LAB: _____ DHS #: _____

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION _____

MJC0752

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 93995026

Send report to Blaine Tech Services

Attn: Ann Pember

SAMPLE I.D.			MATRIX S = SOIL W = H2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010	Ferrous Iron, Nitrate, Sulfate	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-1	03-21-00	1326	W	5	01		X	X		X							
MW-2		14:25		8	02								X				
MW-4		12:21		5	03												
MW-5		13:55		5	04												
MW-6		15:00		8	05								X	MTBE	Confirmation by 8260		
MW-7		10:50		8	04								X				
MW-9		11:33		8	07								X				
MW-10	↓	12:57	↓	5	08		X	↓		↓							
												Ferrous Iron 24 Hr Hold					
												Nitrate 48 Hr Hold					

SAMPLING COMPLETED	DATE	TIME
	03-21-00	14:25

SAMPLING PERFORMED BY: Sanjiv

RESULTS NEEDED NO LATER THAN

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	3-21-00	16:30	[signature]	3/21/00	16:30
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
			[signature]	3/22/00	12:30
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

WELL GAUGING DATA

Project # 000321-42 Date 03-21-00 Client 6185 71071

Site 3800 Broadway Oakland, Ca

	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	Pre purge D.O. mg/l
5	MW-1	2					19.00	30.40	TOC	~~2.6~~
-7	MW-2	2					18.19	31.15		3.3
3	MW-4	2					16.10	34.53		~~8.0~~
6	MW-5	2					18.13	33.62		~~3.1~~
-8	MW-6	2					18.70	32.55		3.0
-1	MW-7	2					16.35	33.55		5.8
-2	MW-9	2					14.80	34.03		3.2
4	MW-10	2					14.22	33.28		~~2.8~~

WELL MONITORING DATA SHEET

Project #: 600321-42	Client: 61857107
Sampler: Sanjiv	Start Date: 03-21-00
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 30.40	Depth to Water: 19.00
Before: After:	Before: After:
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; Extraction Pump; Other: ___

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Other: ___

1.8 (Gals.) X 3 = 5.4 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
13:16	69.0	7.9	800	>200	2	HCl Reacted
13:20	68.2	7.6	801	>200	3.5	with water
13:23	67.8	7.6	794	>200	5.5	sample might
						have bubbles

Did well dewater? Yes (No) Gallons actually evacuated: 5.5

Sampling Time: 13:26 Sampling Date: 03-21-00

Sample I.D.: MW-1 Laboratory: Segmore

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

Equipment Blank I.D.: @ Time Duplicate I.D.:

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

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

WELL MONITORING DATA SHEET

Project #: 600521-42	Client: 61857071
Sampler: Sanjek	Start Date: 03-21-00
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 31.15	Depth to Water: 18.19
Before: After:	Before: After:
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 / Extraction Pump / Other: ____

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Other: ____

casing bent no manhole box

2.0 (Gals.) X 3 = 6.0 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
14:15	72.2	6.8	1324	106	2	
14:19	70.8	6.7	1326	>200	4	
14:23	69.7	6.7	1353	>200	6	

Did well dewater? Yes (No)	Gallons actually evacuated: 6
Sampling Time: 14:25	Sampling Date: 03-21-00
Sample I.D.: MW-2	Laboratory: Sequoia
Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D)	Other: Nitrate, Sulfate, Ferrous Iron
Equipment Blank I.D.: @ Time	Duplicate I.D.:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:

D.O. (if req'd):	Pre-purge:	3.3 mg/L	Post-purge:	3.6 mg/L
ORP (if req'd):	Pre-purge:	-161 mV	Post-purge:	-162 mV

WELL MONITORING DATA SHEET

Project #: 000321-00	Client: 61857071
Sampler: Sanjit	Start Date: 03-21-00
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 34.53	Depth to Water: 16.10
Before: After:	Before: After:
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, Extraction Pump, Other: ____

Sampling Method: Bailer, (Disposable Bailer), Extraction Port, Other: ____

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

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
12:10	68.0	6.9	414	>200	3	
12:15	66.5	7.3	415	>200	6	
12:19	65.9	7.3	417	>200	9	

Did well dewater? Yes (No)	Gallons actually evacuated: 9
Sampling Time: 12:21	Sampling Date: 03-21-00
Sample I.D.: MW-4	Laboratory: Sequoia
Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D)	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
D.O. (if req'd): Pre-purge: mg/L	Post-purge: mg/L
ORP (if req'd): Pre-purge: mV	Post-purge: mV

WELL MONITORING DATA SHEET

Project #: 020321-42	Client: 61857107
Sampler: Sanjiv	Start Date: 03-21-07
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 33.62	Depth to Water: 18.13
Before: After:	Before: After:
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 / Extraction Pump / Other: ____

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

24 (Gals.) X 3 = 7.2 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1 47
4"	0 65	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
13:45	72.2	6.8	1366	>200	2.5	
13:49	70.2	7.0	1406	>200	5	
13:53	68.2	6.8	1405	>200	7.5	

Did well dewater? Yes (No) Gallons actually evacuated: 7.5

Sampling Time: 13:55 Sampling Date: 03-21-07

Sample I.D.: MW-5 Laboratory: Sequoia

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

Equipment Blank I.D.: @ Time Duplicate I.D.:

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

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000321-42	Site: 18571071
Sampler: Sanjiv	Date: 03-21-00
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 32.55	Depth to Water: 18.70
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: ____

2.2 (Gals.) X 3 = 6.6 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
14:45	68.3	6.8	1120	>200	2.5	
14:50	66.0	6.8	1110	>200	5	
14:55	66.0	6.6	1113	>200	7.0	

Did well dewater? Yes (No) Gallons actually evacuated: 7

Sampling Time: 15:00 Sampling Date: 03-21-00

Sample I.D.: MW-6 Laboratory: (Sequoia) Columbia Other ____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other: Nitrate, Sulfate, Ferrous Iron

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:	3.0 mg/L	Post-purge:	4.3 mg/L
O.R.P. (if req'd):	Pre-purge:	-133 mV	Post-purge:	-140 mV

WELL MONITORING DATA SHEET

Project #: 000321-002	Client: 6185710711
Sampler: Sanjiv	Start Date: 03-21-00
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: ~~TB~~ 33.55	Depth to Water: 16.35
Before: After:	Before: After:
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; Extraction Pump; Other: ____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Other: ____ needs 9/16 bo14

2 7 (Gals.) X 3 = 8.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
10:30	67.2	6.6	463	<200	3	
10:37	69.3	7.2	457	<200	6	
10:47	68.9	7.6	400	<200	8	

Did well dewater? Yes (No)	Gallons actually evacuated: 8
Sampling Time: 10:50	Sampling Date: 03-21-00
Sample I.D.: MW-7	Laboratory: Sequoia
Analyzed for: (TPH-G BTEX MTBE TPH-D)	Other: Nitrate, Sulfate, Ferrous Iron
Equipment Blank I.D.: @ Time	Duplicate I.D.:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:

D.O. (if req'd):	Pre-purge: 5.8 mg/L	Post-purge: 9.0 mg/L		
ORP (if req'd):	Pre-purge: 22 mV	Post-purge: 525 mV		

WELL MONITORING DATA SHEET

Project #: 000321-Lu2	Client: 61857071
Sampler: Sanjeev	Start Date: 03-21-00
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 34.03	Depth to Water: 14.80
Before: After:	Before: After:
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, Extraction Pump, Other: ______

Sampling Method: Bailer, (Disposable Bailer), Extraction Port, Other: ______

3.0 (Gals.) X 3 = 9.0 Gals.
1 Case Volume, Specified Volumes, Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
11:17	66.8	7.3	413	>200	3	
11:24	66.2	6.9	427	>200	6	
11:30	67.8	7.2	426	>200	9	

Did well dewater? Yes (No)	Gallons actually evacuated: 9
Sampling Time: 11:33	Sampling Date: 03-21-00
Sample I.D.: MW-9	Laboratory: Sequoia
Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D)	Other: Nitrate, Sulfate, Ferrous Iron
Equipment Blank I.D.: @ Time	Duplicate I.D.:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
D.O. (if req'd): Pre-purge: 3.2 mg/L	Post-purge: 7.3 mg/L
ORP (if req'd): Pre-purge: 0 mV	Post-purge: 517 mV

WELL MONITORING DATA SHEET

Project #: 000321-002	Client: 61857071
Sampler: Sanjiv	Start Date: 03-21-00
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 33.28	Depth to Water: 14.22
Before: After:	Before: After:
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, Extraction Pump, Other: _____

Sampling Method: Bailer, (Disposable Bailer), Extraction Port, Other: _____

3.0 (Gals.) X 3 = 9.0 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
12:35	69.1	6.9	769	>200	3	
12:47	68.6	7.2	750	>200	6	
12:54	68.6	7.6	724	>200	9	

Did well dewater? Yes (No) Gallons actually evacuated: 9

Sampling Time: 12:57 Sampling Date: 03-21-00

Sample I.D.: MW-10 Laboratory: Sequoia

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

Equipment Blank I.D.: @ Time Duplicate I.D.:

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

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