



ENVIRONMENTAL  
PROTECTION

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**IT Corporation**

1921 Ringwood Avenue  
San Jose, CA 95131-1721  
Tel. 408.453.7300  
Fax. 408.437.9526

A Member of The IT Group

CEP 1109

March 3, 2000  
Project 340-414.9C

Ms. Susan Hugo  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor  
Alameda, California 94502-6577

Re: **Quarterly Monitoring Report - Fourth Quarter 1999**  
Former Texaco Service Station  
500 Grand Avenue at Euclid Avenue  
Oakland, California  
Incident Number: 88870189

Dear Ms. Hugo:

The following presents the results of the fourth quarter 1999 monitoring program for the site referenced above. This letter has been prepared for Equiva Services LLC (Equiva) by IT Corporation (IT), formerly Pacific Environmental Group, Inc. (PEG).

**QUARTERLY MONITORING FINDINGS**

Groundwater monitoring wells were gauged and sampled by Blaine Tech Services, Inc. (Blaine) at the direction of IT on November 3, 1999. Blaine's groundwater monitoring report, which includes the Well Concentrations Table (historical and current analytical results), field data, and the certified analytical reports, is presented as Attachment A.

Groundwater elevation data for this sampling event are found in the Well Concentrations Table and are presented on Figure 1.

All wells sampled were analyzed for total purgeable petroleum hydrocarbons (TPPH); benzene, toluene, ethylbenzene, xylenes (BTEX compounds); total extractable petroleum hydrocarbons (TEPH); total recoverable petroleum hydrocarbons (TRPH); and methyl tert-butyl ether (MtBE) by EPA Methods 8015 (modified) and 8020. The presence of MtBE was confirmed in samples collected from all wells by EPA Method 8260. TPPH, benzene, TEPH, and MtBE concentrations for the November 1999 sampling event are presented on Figure 1.

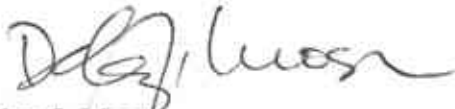
March 3, 2000

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If you have questions regarding the content of this letter, please call (408) 453-7300.

Sincerely,

**IT Corporation**



Debra J. Moser  
Senior Geologist  
CEG 1293



Attachments: Table 1 – Groundwater Analytical Data  
Figure 1 – Groundwater Monitoring Map  
Attachment A – Groundwater Monitoring Report

cc: Ms. Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, CA 91501-7869  
Mr. Richard Hiatt, California Regional Water Quality Control Board, San Francisco Bay Region,  
1515 Clay Street, Suite 1400, Oakland, CA 94612

Table 1  
**Groundwater Analytical Data**  
 Total Recoverable Petroleum Hydrocarbons

Former Texaco Service Station  
 500 Grand Avenue at Euclid Avenue  
 Oakland, California

Well Number	Date Sampled	TRPH (ppb)
MW-8F	02/16/99	<1,000
	06/04/99	<1,000
	08/31/99	<5,000
	11/03/99	<5,000
MW-8G	02/16/99	<1,000
	06/04/99	23,000
	08/31/99	<5,000
	11/03/99	<5,000
MW-8H	11/03/99	24,000
MW-8I	11/03/99	11,000
MW-8J	11/03/99	10,000
MW-8K	11/03/99	<5,000
TRPH	= Total recoverable petroleum hydrocarbons (quantified as oil and grease)	
ppb	= Parts per billion	
<	= Less than laboratory detection limit stated to the right	

PROJECT NUMBER 340-414.9C

APPROVED BY

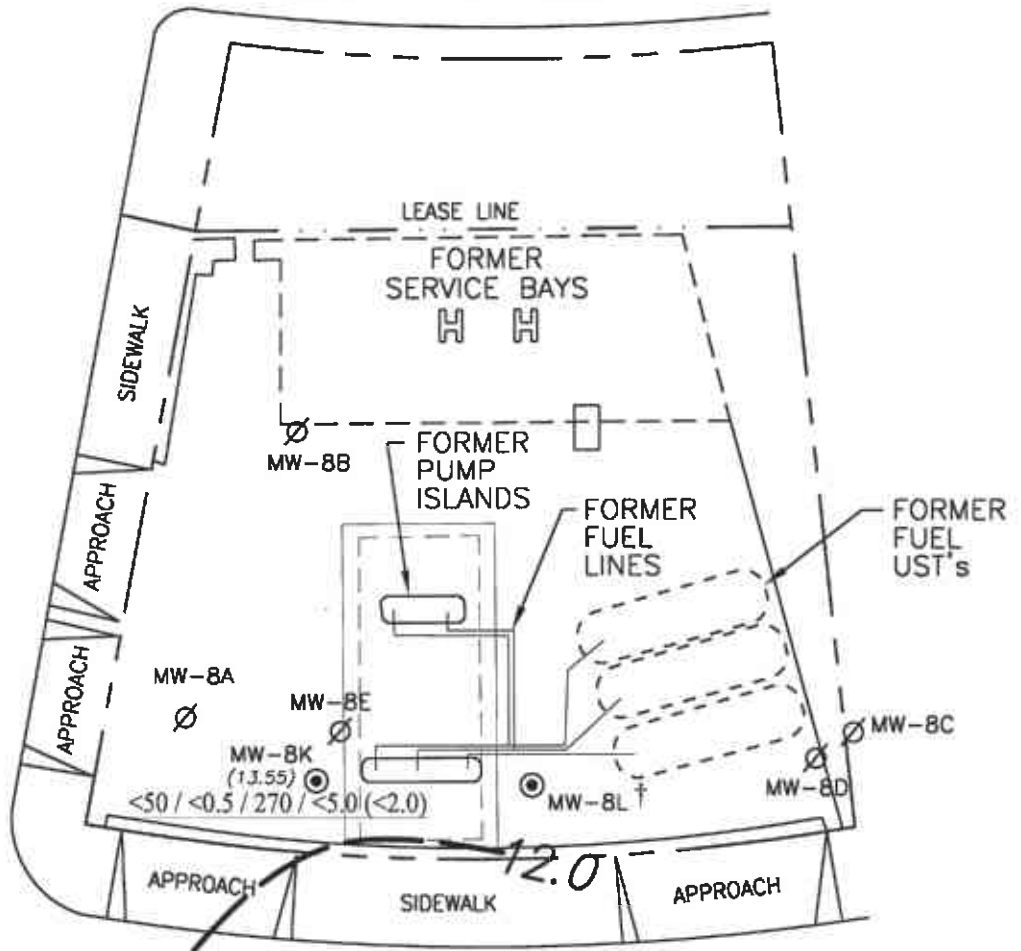
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EUCLID AVENUE

BARK STREET



APPROXIMATE DIRECTION OF GROUNDWATER FLOW  
APPROXIMATE GRADIENT = 0.04

**LEGEND**

- GROUNDWATER MONITORING WELL
- ∅ ABANDONED MONITORING WELL

(4.64) GROUNDWATER ELEVATION (FT.-MSL); 11-03-99

— GROUNDWATER ELEVATION CONTOUR (FT.-MSL)

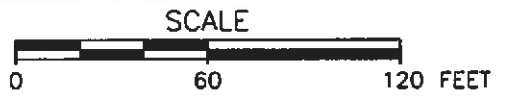
<50 / <0.5 / 130 / <5.0 TPHH/BENZENE/TEPH/MtBE by EPA METHOD 8020 CONCENTRATIONS IN GROUNDWATER (PARTS PER BILLION); SAMPLES COLLECTED 11-03-99

(<2.0) MtBE CONFIRMED BY EPA METHOD 8260

† WELL REMOVED FROM GAUGING AND SAMPLING PROGRAM

GRAND AVENUE

LAKE MERRIT PARK



EQUIVA SERVICES LLC  
FORMER TEXACO SERVICE STATION

**FIGURE 1**  
**GROUNDWATER MONITORING MAP**  
**FOURTH QUARTER 1999**  
500 GRAND AVENUE at EUCLID AVENUE  
OAKLAND, CALIFORNIA

**ATTACHMENT A**  
**GROUNDWATER MONITORING REPORT**

**BLAINE**  
TECH SERVICES INC.



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

**DEC 13 1999**

December 6, 1999

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

Fourth Quarter 1999 Groundwater Monitoring at  
Former Texaco Service Station  
500 Grand Avenue  
Oakland, CA

Monitoring performed on November 3, 1999

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Groundwater Monitoring Report **991103-J-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.

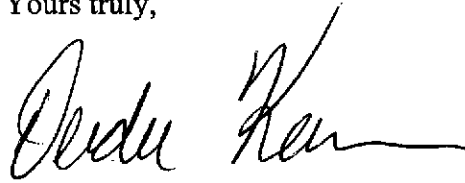
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

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. 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,

A handwritten signature in black ink, appearing to read "Deidre Kerwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Deidre Kerwin  
Operations Manager

DK/ek

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

cc: Janet Yantis  
Pacific Environmental Group, Inc.  
1921 Ringwood Avenue  
San Jose, CA 95131

**WELL CONCENTRATIONS**  
**Former Texaco Service Station**  
**500 Grand Avenue**  
**Oakland, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O Reading mg/L
MW-8A	NA	Well abandoned	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8B	NA	Well abandoned	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8C	NA	Well abandoned	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8D	NA	Well abandoned	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8E	NA	Well abandoned	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8F	1/23/92	<50	1300	4.0	1.3	<0.5	1.9	NA	NA	97.94	10.24	87.70	NA	NA
MW-8F	2/28/92	NA	NA	NA	NA	NA	NA	NA	NA	97.94	9.93	88.01	NA	NA
MW-8F	3/26/92	NA	NA	NA	NA	NA	NA	NA	NA	97.94	8.78	89.16	NA	NA
MW-8F	4/30/92	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	97.94	9.36	88.58	NA	NA
MW-8F	9/28/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.94	11.83	86.11	NA	NA
MW-8F	11/19/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.94	11.22	86.72	NA	NA
MW-8F	2/12/93	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	97.94	9.66	88.28	NA	NA
MW-8F	5/6/93	<50	<100	<0.5	<0.5	<0.5	<0.5	NA	NA	97.94	8.83	89.11	NA	NA
MW-8F	8/16/93	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	14.04	10.16	3.88	NA	NA
MW-8F	10/12/93	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	14.04	10.60	3.44	NA	NA
MW-8F	2/3/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	14.04	9.29	4.75	NA	NA
MW-8F	5/31/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	14.04	9.34	4.70	NA	NA
MW-8F	8/25/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	14.04	10.14	3.90	NA	NA
MW-8F	11/2/94	<50	520	<0.5	<0.5	<0.5	<0.5	NA	NA	14.04	10.42	3.62	NA	NA
MW-8F	1/31/95	<50	290	<0.5	<0.5	<0.5	<0.5	NA	NA	14.04	7.47	6.57	NA	NA
MW-8F	5/18/95	<50	54	<0.5	<0.5	<0.5	<0.5	NA	NA	14.04	8.00	6.04	NA	NA
MW-8F	8/29/95	<50	83	<0.5	<0.5	<0.5	<0.5	<10	NA	14.04	8.08	5.96	NA	NA



**WELL CONCENTRATIONS**  
**Former Texaco Service Station**  
**500 Grand Avenue**  
**Oakland, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O Reading mg/L
MW-8F	11/2/95	<50	51	<0.5	<0.5	<0.5	<0.5	<10	NA	14.04	8.70	5.34	NA	NA
MW-8F	2/5/96	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	14.04	7.16	6.88	NA	NA
MW-8F	4/30/96	<50	62	<0.5	<0.5	<0.5	<0.5	NA	NA	14.04	7.25	6.79	NA	NA
MW-8F	8/28/96	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	14.04	8.72	5.32	NA	NA
MW-8F	12/5/96	210	110	17	17	11	46	<30	NA	14.04	8.16	5.88	NA	NA
MW-8F	2/21/97	<50	85	<0.5	<0.5	<0.5	<0.5	<30	NA	14.04	5.53	8.51	NA	NA
MW-8F	5/2/97	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	14.04	7.85	6.19	NA	NA
MW-8F	7/30/97	<50	93	<0.5	<0.5	<0.5	<0.5	<30	NA	14.04	8.87	5.17	NA	NA
MW-8F	11/5/97	<50	140	<0.5	<0.5	<0.5	<0.5	<30	NA	14.04	9.16	4.88	NA	NA
MW-8F	1/21/98	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	14.04	8.56	5.48	NA	NA
MW-8F	6/3/98	<50	730	<0.5	<0.5	<0.5	<0.5	2.9	NA	14.04	8.30	5.74	NA	NA
MW-8F	8/4/98	<50	210	<0.5	<0.5	<0.5	<0.5	<2.5	NA	14.04	10.67	3.37	NA	NA
MW-8F	11/5/98	<50	210	<0.50	<0.50	<0.50	<0.50	<2.5	NA	14.04	8.72	5.32	NA	NA
MW-8F	2/16/99	<50.0	230	<0.500	<0.500	<0.500	<0.500	<2.00	NA	14.04	8.78	5.26	NA	NA
MW-8F	6/4/99	<50	120	<0.50	<0.50	<0.50	<0.50	<2.5	NA	14.04	8.24	5.80	NA	NA
MW-8F	8/31/99	<50.0	176	<0.500	<0.500	<0.500	<0.500	<2.50	NA	14.04	8.87	5.17	NA	1.7/1.4
MW-8F	11/3/99	<50.0	130	<0.500	<0.500	<0.500	<0.500	<2.00	NA	14.04	9.40	4.64	NA	4.6/2.0
MW-8G**	1/23/92	<50	980	<0.5	<0.5	<0.5	<0.5	NA	NA	97.24	11.30	85.94	NA	NA
MW-8G	2/28/92	NA	NA	NA	NA	NA	NA	NA	NA	97.24	10.83	86.41	NA	NA
MW-8G	3/26/92	NA	NA	NA	NA	NA	NA	NA	NA	97.24	9.20	88.04	NA	NA
MW-8G	4/30/92	<50	<50	1.7	<0.5	<0.5	<0.5	NA	NA	97.24	9.00	88.24	NA	NA
MW-8G	9/28/92	Well dry	NA	NA	NA	NA	NA	NA	NA	97.24	13.32	83.92	NA	NA
MW-8G	11/19/92	Well inaccessible	NA	NA	NA	NA	NA	NA	NA	97.24	NA	NA	NA	NA
MW-8G	2/12/93	Well inaccessible	NA	NA	NA	NA	NA	NA	NA	97.24	NA	NA	NA	NA
MW-8G	5/6/93	<50	60	<0.5	<0.5	<0.5	<0.5	NA	NA	97.24	11.18	86.06	NA	NA
MW-8G	8/16/93	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.32	9.51	3.81	NA	NA
MW-8G	10/12/93	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.32	10.93	2.39	NA	NA

**WELL CONCENTRATIONS**  
**Former Texaco Service Station**  
**500 Grand Avenue**  
**Oakland, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O Reading mg/L
MW-8G	2/3/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.32	9.69	3.63	NA	NA
MW-8G	5/31/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.32	9.24	4.08	NA	NA
MW-8G	8/25/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.32	9.74	3.58	NA	NA
MW-8G	11/2/94	<50	530	<0.5	<0.5	<0.5	<0.5	NA	NA	13.32	10.08	3.24	NA	NA
MW-8G	1/31/95	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.32	5.75	7.57	NA	NA
MW-8G	5/18/95	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.32	6.60	6.72	NA	NA
MW-8G	8/29/95	<50	120	<0.5	<0.5	<0.5	<0.5	<10	NA	13.32	8.14	5.18	NA	NA
MW-8G	11/2/95	<50	140	<0.5	<0.5	<0.5	<0.5	<10	NA	13.32	9.16	4.16	NA	NA
MW-8G	2/5/96	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.32	7.18	6.14	NA	NA
MW-8G	4/30/96	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.32	7.00	6.32	NA	NA
MW-8G	8/28/96	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.32	8.94	4.38	NA	NA
MW-8G	12/5/96	190	57	16	16	9.0	39	<30	NA	13.32	9.22	4.10	NA	NA
MW-8G	2/21/97	<50	54	<0.5	<0.5	<0.5	<0.5	<30	NA	13.32	6.11	7.21	NA	NA
MW-8G	5/2/97	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.32	7.54	5.78	NA	NA
MW-8G	7/30/97	Well inaccessible		NA	NA	NA	NA	NA	NA	13.32	NA	NA	NA	NA
MW-8G	11/5/97	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	13.32	9.65	3.67	NA	NA
MW-8G	11/5/97	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	13.32	NA	NA	NA	NA
MW-8G	1/21/98	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	13.32	7.57	5.75	NA	NA
MW-8G	6/3/98	<50	570	<0.5	<0.5	<0.5	<0.5	4.0	NA	13.32	9.37	3.95	NA	NA
MW-8G	8/4/98	<50	200	<0.5	<0.5	<0.5	<0.5	<2.5	NA	13.32	9.89	3.43	NA	NA
MW-8G	11/5/98	<50	170	<0.50	<0.50	<0.50	<0.50	<2.5	NA	13.32	10.81	2.51	NA	NA
MW-8G	2/16/99	<50.0	270	<0.500	<0.500	<0.500	<0.500	<2.00	NA	13.32	8.63	4.69	NA	NA
MW-8G	6/4/99	<50	190	<0.50	<0.50	<0.50	<0.50	<2.5	NA	13.32	7.95	5.37	NA	NA
MW-8G	8/31/99	<50.0	247	<0.500	<0.500	<0.500	<0.500	<2.50	NA	13.32	9.11	4.21	NA	4.5/1.3
MW-8G	11/3/99	<50.0	174	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	13.32	9.58	3.74	NA	11/3/98
MW-8H	1/23/92	110	<60	7.2	1.2	4.7	3.2	NA	NA	98.90	3.74	95.16	NA	NA
MW-8H	2/28/92	NA	NA	NA	NA	NA	NA	NA	NA	98.90	4.44	94.46	NA	NA

**WELL CONCENTRATIONS**  
**Former Texaco Service Station**  
**500 Grand Avenue**  
**Oakland, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O Reading mg/L
MW-8H	3/26/92	NA	NA	NA	NA	NA	NA	NA	NA	98.90	4.21	94.69	NA	NA
MW-8H	4/30/92	190	90	11	1.5	5.6	3.6	NA	NA	98.90	3.46	95.44	NA	NA
MW-8H	9/28/92	Well inaccessible		NA	NA	NA	NA	NA	NA	98.90	NA	NA	NA	NA
MW-8H	11/19/92	130	NA	6.8	<0.5	1.1	1.5	NA	NA	98.90	3.75	95.15	NA	NA
MW-8H	2/12/93	73	NA	5.9	<0.5	0.8	<0.5	NA	NA	98.90	4.12	94.78	NA	NA
MW-8H	5/6/93	57	<100	1.7	<0.5	<0.5	<0.5	NA	NA	98.90	3.85	95.05	NA	NA
MW-8H	8/16/93	<50	<50	0.5	<0.5	0.5	1.4	NA	NA	15.04	3.88	11.16	NA	NA
MW-8H	10/12/93	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	15.04	3.80	11.24	NA	NA
MW-8H	2/3/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	15.04	3.71	11.33	NA	NA
MW-8H	5/31/94	<50	<50	0.79	<0.5	<0.5	<0.5	NA	NA	15.04	3.80	11.24	NA	NA
MW-8H	8/25/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	15.04	3.89	11.15	NA	NA
MW-8H	11/2/94	<50	760	<0.5	<0.5	<0.5	<0.5	NA	NA	15.04	3.64	11.40	NA	NA
MW-8H	1/31/95	<50	190	<0.5	<0.5	<0.5	<0.5	NA	NA	15.04	3.58	11.46	NA	NA
MW-8H	5/18/95	<50	370	<0.5	<0.5	<0.5	<0.5	NA	NA	15.04	3.53	11.51	NA	NA
MW-8H	8/29/95	<50	1000	<0.5	<0.5	<0.5	<0.5	<10	NA	15.04	3.55	11.49	NA	NA
MW-8H	11/2/95	<50	<50	<0.5	<0.5	<0.5	<0.5	<10	NA	15.04	3.49	11.55	NA	NA
MW-8H	2/5/96	<50	190	<0.5	<0.5	<0.5	<0.5	NA	NA	15.04	3.54	11.50	NA	NA
MW-8H	4/30/96	<50	1800	<0.5	<0.5	<0.5	<0.5	NA	NA	15.04	3.50	11.54	NA	NA
MW-8H	8/28/96	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	15.04	3.62	11.42	NA	NA
MW-8H	12/5/96	100	350	6.2	7.3	5.0	22	<30	NA	15.04	3.38	11.66	NA	NA
MW-8H	2/21/97	<50	900	<0.5	<0.5	<0.5	<0.5	<30	NA	15.04	3.77	11.27	NA	NA
MW-8H	5/2/97	<50	450	<0.5	<0.5	<0.5	<0.5	NA	NA	15.04	3.64	11.40	NA	NA
MW-8H	7/30/97	<50	180	<0.5	0.62	<0.5	<0.5	<30	NA	15.04	3.65	11.39	NA	NA
MW-8H	11/5/97	<50	280	<0.5	<0.5	<0.5	<0.5	<30	NA	15.04	3.61	11.43	NA	NA
MW-8H	1/21/98	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	15.04	3.57	11.47	NA	NA
MW-8H	6/3/98	<50	440	<0.5	<0.5	<0.5	<0.5	<0.5	NA	15.04	3.50	11.54	NA	NA
MW-8H	8/4/98	<50	300	<0.5	<0.5	<0.5	<0.5	<2.5	NA	15.04	3.64	11.40	NA	NA
MW-8H	11/3/99	<50	576	<0.500	<0.500	<0.500	<0.500	<3.00	<2.00	15.04	3.49	11.55	NA	NA

**WELL CONCENTRATIONS**  
**Former Texaco Service Station**  
**500 Grand Avenue**  
**Oakland, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O Reading mg/L
MW-8I	1/23/92	820	210	420	7	27	20	NA	NA	98.27	6.33	91.94	NA	NA
MW-8I	2/28/92	NA	NA	NA	NA	NA	NA	NA	NA	98.27	6.55	91.72	NA	NA
MW-8I	3/26/92	NA	NA	NA	NA	NA	NA	NA	NA	98.27	6.45	91.82	NA	NA
MW-8I	4/30/92	2,200	430	1,800	19	180	25	NA	NA	98.27	6.48	91.79	NA	NA
MW-8I	9/28/92	Well inaccessible		NA	NA	NA	NA	NA	NA	98.27	NA	NA	NA	NA
MW-8I	11/19/92	720	NA	120	1.1	29	13	NA	NA	98.27	6.37	91.90	NA	NA
MW-8I	2/12/93	4,000	NA	970	9.2	52	36	NA	NA	98.27	6.44	91.83	NA	NA
MW-8I	5/6/93	1,400	<10	370	2.4	40	8.4	NA	NA	98.27	6.36	91.91	NA	NA
MW-8I	8/16/93	<50	<50	3.1	<0.5	6	<0.5	NA	NA	14.40	6.35	8.05	NA	NA
MW-8I	10/12/93	<50	<50	1.4	<0.5	<0.5	<0.5	NA	NA	14.40	5.99	8.41	NA	NA
MW-8I	2/3/94	1,000	<50	270	3.2	51	14	NA	NA	14.40	5.84	8.56	NA	NA
MW-8I	5/31/94	1,400	<50	330	4.6	52	16	NA	NA	14.40	6.25	8.15	NA	NA
MW-8I	8/25/94	540	<50	14	0.58	30	4.3	NA	NA	14.40	6.31	8.09	NA	NA
MW-8I	11/2/94	310	370	5.7	0.74	20	<0.5	NA	NA	14.40	6.10	8.30	NA	NA
MW-8I	1/31/95	840	910	290	4.5	45	1.6	NA	NA	14.40	5.83	8.57	NA	NA
MW-8I	5/18/95	1,700	1100	390	7.8	80	10	NA	NA	14.40	6.09	8.31	NA	NA
MW-8I	8/29/95	300	560	81	<0.5	13	0.63	<10	NA	14.40	6.09	8.31	NA	NA
MW-8I	11/2/95	81	160	<0.5	4.1	1.5	<0.5	<10	NA	14.40	6.26	8.14	NA	NA
MW-8I	2/5/96	300	140	75	0.75	8.4	1.2	NA	NA	14.40	5.97	8.43	NA	NA
MW-8I	4/30/96	350	<50	150	0.77	3.2	1.3	NA	NA	14.40	6.04	8.36	NA	NA
MW-8I	8/28/96	1100	380	300	2.9	3.2	2.1	NA	NA	14.40	6.20	8.20	NA	NA
MW-8I	12/5/96	340	53	23	8.7	11	26	<30	NA	14.40	6.01	8.39	NA	NA
MW-8I	2/21/97	<50	330	<0.5	<0.5	<0.5	<0.5	<30	NA	14.40	6.15	8.25	NA	NA
MW-8I	5/2/97	110	<50	39	<0.5	0.92	<0.5	NA	NA	14.40	6.20	8.20	NA	NA
MW-8I	7/30/97	<50	170	4.2	<0.5	<0.5	<0.5	<30	NA	14.40	6.12	8.28	NA	NA
MW-8I	11/5/97	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	14.40	6.26	8.14	NA	NA
MW-8I	1/21/98	<50	<50	1.5	<0.5	<0.5	<0.5	<30	NA	14.40	6.00	8.40	NA	NA

**WELL CONCENTRATIONS**  
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**500 Grand Avenue**  
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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O Reading mg/L
MW-8I	6/3/98	<50	360	<0.5	<0.5	<0.5	<0.5	1.5	NA	14.40	6.74	7.66	NA	NA
MW-8I	8/4/98	<50	83	<0.5	<0.5	<0.5	<0.5	<2.5	NA	14.40	6.16	8.24	NA	NA
MW-8I	11/5/98	<50	67	<0.50	<0.50	<0.50	<0.50	<2.5	NA	14.40	6.14	8.26	NA	NA
MW-8I	8/31/99	NA	NA	NA	NA	NA	NA	NA	NA	14.40	6.12	8.28	NA	NA
MW-8I	11/3/99	<50.0	192	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	14.40	6.45	7.95	NA	7.15/9.6
MW-8J	1/23/92	<50	<50	1	<0.5	<0.5	<0.5	NA	NA	97.69	6.31	91.38	NA	NA
MW-8J	2/28/92	NA	NA	NA	NA	NA	NA	NA	NA	97.69	6.28	91.41	NA	NA
MW-8J	3/26/92	NA	NA	NA	NA	NA	NA	NA	NA	97.69	6.20	91.49	NA	NA
MW-8J	4/30/92	<50	<50	2	<0.5	<0.5	<0.5	NA	NA	97.69	6.48	91.21	NA	NA
MW-8J	9/28/92	Well inaccessible		NA	NA	NA	NA	NA	NA	97.69	NA	NA	NA	NA
MW-8J	11/19/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.69	6.55	91.14	NA	NA
MW-8J	2/12/93	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	97.69	7.46	90.23	NA	NA
MW-8J	5/6/93	<50	<10	<0.5	<0.5	<0.5	<0.5	NA	NA	97.69	6.21	91.48	NA	NA
MW-8J	8/16/93	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.82	6.29	7.53	NA	NA
MW-8J	10/12/93	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.82	5.87	7.95	NA	NA
MW-8J	2/3/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.82	5.98	7.84	NA	NA
MW-8J	5/31/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.82	6.10	7.72	NA	NA
MW-8J	8/25/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.82	6.01	7.81	NA	NA
MW-8J	11/2/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.82	5.90	7.92	NA	NA
MW-8J	1/31/95	<50	<50	3.7	<0.5	<0.5	<0.5	NA	NA	13.82	5.07	8.75	NA	NA
MW-8J	5/18/95	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.82	5.33	8.49	NA	NA
MW-8J	8/29/95	<50	250	<0.5	<0.5	<0.5	<0.5	<10	NA	13.82	3.50	10.32	NA	NA
MW-8J	11/2/95	<50	520	<0.5	<0.5	<0.5	<0.5	<10	NA	13.82	5.94	7.88	NA	NA
MW-8J	2/5/96	<50	65	<0.5	<0.5	<0.5	<0.5	NA	NA	13.82	5.34	8.48	NA	NA
MW-8J	4/30/96	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.82	5.96	7.86	NA	NA
MW-8J	8/28/96	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	13.82	6.38	7.44	NA	NA
MW-8J	12/5/96	160	<50	13	14	8.9	38	<30	NA	13.82	5.94	7.88	NA	NA

**WELL CONCENTRATIONS**  
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**500 Grand Avenue**  
**Oakland, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O Reading mg/L
MW-8J	2/21/97	<50	<50	<0.5	<05	<0.5	<0.5	<30	NA	13.82	5.60	8.22	NA	NA
MW-8J	5/2/97	<50	<50	<0.5	<05	<0.5	<0.5	NA	NA	13.82	6.22	7.60	NA	NA
MW-8J	7/30/97	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	13.82	6.28	7.54	NA	NA
MW-8J	11/5/97	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	13.82	6.03	7.79	NA	NA
MW-8J	1/21/98	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	13.82	5.71	8.11	NA	NA
MW-8J	6/3/98	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA	13.82	5.45	8.37	NA	NA
MW-8J	8/4/98	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	13.82	5.93	7.89	NA	NA
MW-8J	11/5/98	<50	<50	2.0	<0.50	<0.50	<0.50	<2.5	NA	13.82	6.05	7.77	NA	NA
MW-8J	11/3/99	<50.0	58.9	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	13.82	5.84	7.98	NA	NA
MW-8K	5/21/93	54	<50	12	<0.5	<0.5	<0.5	NA	NA	15.18	NA	NA	NA	NA
MW-8K	8/16/93	<50	<50	<0.5	<0.5	1.0	<0.5	NA	NA	15.18	2.08	13.10	NA	NA
MW-8K	10/12/93	<50	<50	4.2	<0.5	<0.5	<0.5	NA	NA	15.18	1.95	13.23	NA	NA
MW-8K	1/3/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	15.18	1.48	13.70	NA	NA
MW-8K	5/31/94	<50	<50	1.0	0.57	<0.5	<0.5	NA	NA	15.18	1.59	13.59	NA	NA
MW-8K	8/25/94	<50	<50	0.78	<0.5	<0.5	<0.5	NA	NA	15.18	2.00	13.18	NA	NA
MW-8K	11/2/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	15.18	2.10	13.08	NA	NA
MW-8K	1/31/95	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	15.18	1.35	13.83	NA	NA
MW-8K	8/18/95	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	15.18	1.36	13.82	NA	NA
MW-8K	8/29/95	<50	160	<0.5	<0.5	<0.5	<0.5	<10	NA	15.18	1.55	13.63	NA	NA
MW-8K	11/2/95	<50	<50	<0.5	<0.5	<0.5	<0.5	<10	NA	15.18	1.88	13.30	NA	NA
MW-8K	2/5/96	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	15.18	1.46	13.72	NA	NA
MW-8K	4/30/96	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	15.18	1.43	13.75	NA	NA
MW-8K	8/28/96	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	15.18	1.75	13.43	NA	NA
MW-8K	12/5/96	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	15.18	1.42	13.76	NA	NA
MW-8K	2/21/97	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	15.18	1.49	13.69	NA	NA
MW-8K	5/2/97	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	15.18	1.60	13.58	NA	NA
MW-8K	7/30/97	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	15.18	1.66	13.52	NA	NA

**WELL CONCENTRATIONS**  
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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O Reading mg/L
MW-8K	11/5/97	<50	300	<0.5	<0.5	<0.5	<0.5	<30	NA	15.18	1.62	13.56	NA	NA
MW-8K	1/21/98	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	15.18	1.29	13.89	NA	NA
MW-8K	6/3/98	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA	15.18	1.17	14.01	NA	NA
MW-8K	8/4/98	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	15.18	1.21	13.97	NA	NA
MW-8K	11/5/98	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	15.18	2.30	12.88	NA	NA
MW-8K	11/3/99	<50.0	270	<0.500	<0.500	<0.500	<0.500	<300	<200	15.18	1.62	13.55	NA	NA
MW-8L	5/21/93	76	<50	1.1	<0.5	<0.5	6	NA	NA	14.44	NA	NA	NA	NA
MW-8L	8/16/93	<50	<50	<0.5	<0.5	0.7	1.1	NA	NA	14.44	2.47	11.97	NA	NA
MW-8L	10/12/93	110	<50	13	<0.5	6	<0.5	NA	NA	14.44	2.36	12.08	NA	NA
MW-8L	1/3/94	590	<50	61	2.4	<0.5	110	NA	NA	14.44	2.82	11.62	NA	NA
MW-8L	5/31/94	410	<50	77	<0.5	20	1.1	NA	NA	14.44	2.66	11.78	NA	NA
MW-8L	8/25/94	260	<50	16	<0.5	2.5	<0.5	NA	NA	14.44	2.34	12.10	NA	NA
MW-8L	11/2/94	Well inaccessible	NA	NA	NA	NA	NA	NA	NA	14.44	NA	NA	NA	NA
MW-8L	1/31/95	Well inaccessible	NA	NA	NA	NA	NA	NA	NA	14.44	0.08	14.36	NA	NA
MW-8L	8/18/95	Well inaccessible	NA	NA	NA	NA	NA	NA	NA	14.44	0.42	14.02	NA	NA
MW-8L	8/29/95	Well inaccessible	NA	NA	NA	NA	NA	NA	NA	14.44	NA	NA	NA	NA
MW-8L	11/2/95	Well inaccessible	NA	NA	NA	NA	NA	NA	NA	14.44	NA	NA	NA	NA
MW-8L	2/5/96	Well inaccessible	NA	NA	NA	NA	NA	NA	NA	14.44	NA	NA	NA	NA
MW-8L	4/30/96	Well inaccessible	NA	NA	NA	NA	NA	NA	NA	14.44	NA	NA	NA	NA
MW-8L	8/28/96	Well inaccessible	NA	NA	NA	NA	NA	NA	NA	14.44	0.75	13.69	NA	NA
MW-8L	12/5/96	Well inaccessible	NA	NA	NA	NA	NA	NA	NA	14.44	NA	NA	NA	NA
MW-8L	2/21/97	Well inaccessible	NA	NA	NA	NA	NA	NA	NA	14.44	NA	NA	NA	NA
MW-8L	5/2/97	Well inaccessible	NA	NA	NA	NA	NA	NA	NA	14.44	0.60	13.84	NA	NA
MW-8L	7/30/97	Well inaccessible	NA	NA	NA	NA	NA	NA	NA	14.44	NA	NA	NA	NA
MW-8L	11/5/97	NA	NA	NA	NA	NA	NA	NA	NA	14.44	0.67	13.77	NA	NA
MW-8L	1/21/98	NA	NA	NA	NA	NA	NA	NA	NA	14.44	NA	NA	NA	NA

**WELL CONCENTRATIONS**  
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**500 Grand Avenue**  
**Oakland, CA**

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

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

NA = Not Applicable

Notes:

\*\* = Non-diesel mix >C16. The certified analytical report for sample MW-8G was revised on 10/21/93.

New well elevation survey performed at wells MW-8F through MW-8L on August 16, 1993 based on mean sea level (MSL). Prior data based on arbitrary site data.





November 22, 1999

Leah Davis  
Blaine Tech Services (Shell)  
1680 Rogers Avenue  
San Jose, CA 95112

RE: Equiva 500 Grand Avenue, Oakland/M911197

Dear Leah Davis

Enclosed are the results of analyses for sample(s) received by the laboratory on November 4, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kayvan Kimyai  
Project Manager D.M.

CA ELAP Certificate Number 1210





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 991103-51/500 Grand Ave., Oakland Project Manager: Leah Davis	Sampled: 11/3/99 Received: 11/4/99 Reported: 11/22/99
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**ANALYTICAL REPORT FOR M911197**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-8F	M911197-01	Water	11/3/99
MW-8G	M911197-02	Water	11/3/99
MW-8H	M911197-03	Water	11/3/99
MW-8I	M911197-04	Water	11/3/99
MW-8J	M911197-05	Water	11/3/99
MW-8K	M911197-06	Water	11/3/99





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 991103-51/500 Grand Ave., Oakland Project Manager: Leah Davis	Sampled: 11/3/99 Received: 11/4/99 Reported: 11/22/99
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**Diesel Hydrocarbons (C9-C24) by DHS LUFT  
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>MW-8F</b> <b>Diesel Range Hydrocarbons</b> <i>Surrogate: n-Pentacosane</i>	9110403	11/11/99	11/12/99	<u>M911197-01</u> 50.0-150	0.0500	<b>0.130</b> 115	<u>Water</u> mg/l %	1
<b>MW-8G</b> <b>Diesel Range Hydrocarbons</b> <i>Surrogate: n-Pentacosane</i>	9110403	11/11/99	11/12/99	<u>M911197-02</u> 50.0-150	0.0500	<b>0.174</b> 129	<u>Water</u> mg/l %	1
<b>MW-8H</b> <b>Diesel Range Hydrocarbons</b> <i>Surrogate: n-Pentacosane</i>	9110403	11/11/99	11/18/99	<u>M911197-03</u> 50.0-150	0.0500	<b>0.576</b> 186	<u>Water</u> mg/l %	1 2
<b>MW-8I</b> <b>Diesel Range Hydrocarbons</b> <i>Surrogate: n-Pentacosane</i>	9110403	11/11/99	11/13/99	<u>M911197-04</u> 50.0-150	0.0500	<b>0.192</b> 137	<u>Water</u> mg/l %	1
<b>MW-8J</b> <b>Diesel Range Hydrocarbons</b> <i>Surrogate: n-Pentacosane</i>	9110403	11/11/99	11/13/99	<u>M911197-05</u> 50.0-150	0.0500	<b>0.0589</b> 129	<u>Water</u> mg/l %	1
<b>MW-8K</b> <b>Diesel Range Hydrocarbons</b> <i>Surrogate: n-Pentacosane</i>	9110403	11/11/99	11/13/99	<u>M911197-06</u> 50.0-150	0.0500	<b>0.270</b> 125	<u>Water</u> mg/l %	1





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 991103-51/500 Grand Ave., Oakland Project Manager: Leah Davis	Sampled: 11/3/99 Received: 11/4/99 Reported: 11/22/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT  
Sequoia Analytical - San Carlos**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>MW-8F</b>				<b>M911197-01</b>		<b>Water</b>		
Purgeable Hydrocarbons as Gasoline	9110102	11/16/99	11/17/99		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	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		108	%	
<b>MW-8G</b>				<b>M911197-02</b>		<b>Water</b>		
Purgeable Hydrocarbons as Gasoline	9110102	11/16/99	11/17/99		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	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		107	%	
<b>MW-8H</b>				<b>M911197-03</b>		<b>Water</b>		
Purgeable Hydrocarbons as Gasoline	9110115	11/17/99	11/17/99		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	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		107	%	
<b>MW-8I</b>				<b>M911197-04</b>		<b>Water</b>		
Purgeable Hydrocarbons as Gasoline	9110115	11/17/99	11/17/99		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	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		110	%	
<b>MW-8J</b>				<b>M911197-05</b>		<b>Water</b>		
Purgeable Hydrocarbons as Gasoline	9110114	11/17/99	11/17/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 991103-51/500 Grand Ave., Oakland Project Manager: Leah Davis	Sampled: 11/3/99 Received: 11/4/99 Reported: 11/22/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT  
Sequoia Analytical - San Carlos**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b><u>MW-8J (continued)</u></b>				<b><u>M911197-05</u></b>			<b><u>Water</u></b>	
Methyl tert-butyl ether	9110114	11/17/99	11/17/99		5.00	ND	ug/l	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		70.7	%	
<b><u>MW-8K</u></b>				<b><u>M911197-06</u></b>			<b><u>Water</u></b>	
Purgeable Hydrocarbons as Gasoline	9110114	11/17/99	11/17/99		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	"	"	"		5.00	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		71.0	%	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 991103-51/500 Grand Ave., Oakland Project Manager: Leah Davis	Sampled: 11/3/99 Received: 11/4/99 Reported: 11/22/99
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**MTBE by EPA Method 8260A  
Sequoia Analytical - San Carlos**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b><u>MW-8F</u></b>				<b><u>M911197-01</u></b>			<b><u>Water</u></b>	
Methyl tert-butyl ether	9110058	11/11/99	11/11/99		2.00	ND	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	76.0-114		88.6	%	
<b><u>MW-8G</u></b>				<b><u>M911197-02</u></b>			<b><u>Water</u></b>	
Methyl tert-butyl ether	9110058	11/11/99	11/11/99		2.00	ND	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	76.0-114		88.2	%	
<b><u>MW-8H</u></b>				<b><u>M911197-03</u></b>			<b><u>Water</u></b>	
Methyl tert-butyl ether	9110058	11/11/99	11/11/99		2.00	ND	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	76.0-114		90.0	%	
<b><u>MW-8I</u></b>				<b><u>M911197-04</u></b>			<b><u>Water</u></b>	
Methyl tert-butyl ether	9110068	11/11/99	11/11/99		2.00	ND	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	76.0-114		93.2	%	
<b><u>MW-8J</u></b>				<b><u>M911197-05</u></b>			<b><u>Water</u></b>	
Methyl tert-butyl ether	9110068	11/11/99	11/11/99		2.00	ND	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	76.0-114		93.0	%	
<b><u>MW-8K</u></b>				<b><u>M911197-06</u></b>			<b><u>Water</u></b>	
Methyl tert-butyl ether	9110068	11/11/99	11/11/99		2.00	ND	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	76.0-114		90.4	%	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 991103-51/500 Grand Ave., Oakland Project Manager: Leah Davis	Sampled: 11/3/99 Received: 11/4/99 Reported: 11/22/99
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**Conventional Chemistry Parameters by APHA/EPA Methods  
Sequoia Analytical - Walnut Creek**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
<b><u>MW-8F</u></b> Oil & Grease	9K12010	11/12/99	11/14/99	<b><u>M911197-01</u></b> SM 5520B	5.0	ND	<b><u>Water</u></b> mg/l	
<b><u>MW-8G</u></b> Oil & Grease	9K12010	11/12/99	11/14/99	<b><u>M911197-02</u></b> SM 5520B	5.0	ND	<b><u>Water</u></b> mg/l	
<b><u>MW-8H</u></b> Oil & Grease	9K12010	11/12/99	11/14/99	<b><u>M911197-03</u></b> SM 5520B	5.0	24	<b><u>Water</u></b> mg/l	
<b><u>MW-8I</u></b> Oil & Grease	9K12010	11/12/99	11/14/99	<b><u>M911197-04</u></b> SM 5520B	5.0	11	<b><u>Water</u></b> mg/l	
<b><u>MW-8J</u></b> Oil & Grease	9K12010	11/12/99	11/14/99	<b><u>M911197-05</u></b> SM 5520B	5.0	10	<b><u>Water</u></b> mg/l	
<b><u>MW-8K</u></b> Oil & Grease	9K12010	11/12/99	11/14/99	<b><u>M911197-06</u></b> SM 5520B	5.0	ND	<b><u>Water</u></b> mg/l	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 991103-51/500 Grand Ave., Oakland Project Manager: Leah Davis	Sampled: 11/3/99 Received: 11/4/99 Reported: 11/22/99
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**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*
<b>Batch: 9110403</b>			<b>Date Prepared: 11/11/99</b>			<b>Extraction Method: EPA 3510B</b>				
<b>Blank</b>			<b>9110403-BLK1</b>							
Diesel Range Hydrocarbons	11/12/99			ND	mg/l	0.0500				
Surrogate: <i>n</i> -Pentacosane	"	0.100		0.124	"	50.0-150	124			
<b>LCS</b>			<b>9110403-BS1</b>							
Diesel Range Hydrocarbons	11/12/99	1.00		0.973	mg/l	60.0-140	97.3			
Surrogate: <i>n</i> -Pentacosane	"	0.100		0.124	"	50.0-150	124			
<b>LCS Dup</b>			<b>9110403-BSD1</b>							
Diesel Range Hydrocarbons	11/12/99	1.00		0.957	mg/l	60.0-140	95.7	50.0	1.66	
Surrogate: <i>n</i> -Pentacosane	"	0.100		0.110	"	50.0-150	110			







Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 991103-51/500 Grand Ave., Oakland Project Manager: Leah Davis	Sampled: 11/3/99 Received: 11/4/99 Reported: 11/22/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control**  
**Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. %	RPD Limit	RPD %	Notes*
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<b>Batch: 9110102</b>	<b>Date Prepared: 11/16/99</b>		<b>Extraction Method: EPA 5030B [P/T]</b>						
<b>Blank</b>	<b>9110102-BLK1</b>								
Purgeable Hydrocarbons as Gasoline	11/16/99			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	"	5.00			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		7.24	"	70.0-130	72.4		

<b>LCS</b>	<b>9110102-BS1</b>								
Benzene	11/16/99	10.0		7.43	ug/l	70.0-130	74.3		
Toluene	"	10.0		7.49	"	70.0-130	74.9		
Ethylbenzene	"	10.0		7.57	"	70.0-130	75.7		
Xylenes (total)	"	30.0		23.2	"	70.0-130	77.3		
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		7.78	"	70.0-130	77.8		

<b>LCS</b>	<b>9110102-BS2</b>								
Purgeable Hydrocarbons as Gasoline	11/16/99	250		227	ug/l	70.0-130	90.8		
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		7.83	"	70.0-130	78.3		

<b>Matrix Spike</b>	<b>9110102-MS1</b>	<b>L911093-02</b>							
Benzene	11/16/99	10.0	ND	9.39	ug/l	60.0-140	93.9		
Toluene	"	10.0	ND	9.38	"	60.0-140	93.8		
Ethylbenzene	"	10.0	ND	9.53	"	60.0-140	95.3		
Xylenes (total)	"	30.0	ND	28.7	"	60.0-140	95.7		
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		10.3	"	70.0-130	103		

<b>Matrix Spike Dup</b>	<b>9110102-MSD1</b>	<b>L911093-02</b>							
Benzene	11/16/99	10.0	ND	9.62	ug/l	60.0-140	96.2	25.0	2.42
Toluene	"	10.0	ND	9.55	"	60.0-140	95.5	25.0	1.80
Ethylbenzene	"	10.0	ND	9.60	"	60.0-140	96.0	25.0	0.732
Xylenes (total)	"	30.0	ND	29.0	"	60.0-140	96.7	25.0	1.04
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		10.6	"	70.0-130	106		

<b>Batch: 9110114</b>	<b>Date Prepared: 11/17/99</b>		<b>Extraction Method: EPA 5030B [P/T]</b>						
<b>Blank</b>	<b>9110114-BLK1</b>								
Purgeable Hydrocarbons as Gasoline	11/17/99			ND	ug/l	50.0			
Benzene	"			ND	"	0.500			
Toluene	"			ND	"	0.500			
Ethylbenzene	"			ND	"	0.500			
Xylenes (total)	"			ND	"	0.500			





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 991103-51/500 Grand Ave., Oakland Project Manager: Leah Davis	Sampled: 11/3/99 Received: 11/4/99 Reported: 11/22/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control  
Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Blank (continued)</b>										
<b>9110114-BLK1</b>										
Methyl tert-butyl ether	11/17/99			ND	ug/l	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.70	"	70.0-130	87.0			
<b>LCS</b>										
<b>9110114-BS1</b>										
Benzene	11/17/99	10.0		8.57	ug/l	70.0-130	85.7			
Toluene	"	10.0		8.69	"	70.0-130	86.9			
Ethylbenzene	"	10.0		9.02	"	70.0-130	90.2			
Xylenes (total)	"	30.0		27.0	"	70.0-130	90.0			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.98	"	70.0-130	79.8			
<b>LCS</b>										
<b>9110114-BS2</b>										
Purgeable Hydrocarbons as Gasoline	11/17/99	250		254	ug/l	70.0-130	102			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.18	"	70.0-130	81.8			
<b>Matrix Spike</b>										
<b>9110114-MS1 M911197-06</b>										
Purgeable Hydrocarbons as Gasoline	11/17/99	250	ND	239	ug/l	60.0-140	95.6			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.56	"	70.0-130	95.6			
<b>Matrix Spike Dup</b>										
<b>9110114-MSD1 M911197-06</b>										
Purgeable Hydrocarbons as Gasoline	11/17/99	250	ND	238	ug/l	60.0-140	95.2	25.0	0.419	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.96	"	70.0-130	89.6			
<b>Batch: 9110115</b>										
<b>Date Prepared: 11/17/99</b>										
<b>Extraction Method: EPA 5030B [P/T]</b>										
<b>Blank</b>										
<b>9110115-BLK1</b>										
Purgeable Hydrocarbons as Gasoline	11/17/99			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	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.75	"	70.0-130	97.5			
<b>LCS</b>										
<b>9110115-BS1</b>										
Benzene	11/17/99	10.0		8.85	ug/l	70.0-130	88.5			
Toluene	"	10.0		8.73	"	70.0-130	87.3			
Ethylbenzene	"	10.0		8.80	"	70.0-130	88.0			
Xylenes (total)	"	30.0		26.3	"	70.0-130	87.7			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.79	"	70.0-130	87.9			
<b>LCS</b>										
<b>9110115-BS2</b>										
Purgeable Hydrocarbons as Gasoline	11/17/99	250		241	ug/l	70.0-130	96.4			





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 991103-51/500 Grand Ave., Oakland Project Manager: Leah Davis	Sampled: 11/3/99 Received: 11/4/99 Reported: 11/22/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control**  
**Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>LCS (continued)</b>										
<b>9110115-BS2</b>										
Surrogate: <i>a,a,a</i> -Trifluorotoluene	11/17/99	10.0		10.8	ug/l	70.0-130	108			
<b>Matrix Spike</b>										
<b>9110115-MS1      M911197-03</b>										
Purgeable Hydrocarbons as Gasoline	11/17/99	250	ND	212	ug/l	60.0-140	84.8			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		11.4	"	70.0-130	114			
<b>Matrix Spike Dup</b>										
<b>9110115-MSD1      M911197-03</b>										
Purgeable Hydrocarbons as Gasoline	11/17/99	250	ND	230	ug/l	60.0-140	92.0	25.0	8.14	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		11.3	"	70.0-130	113			





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 991103-51/500 Grand Ave., Oakland Project Manager: Leah Davis	Sampled: 11/3/99 Received: 11/4/99 Reported: 11/22/99
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**MTBE by EPA Method 8260A/Quality Control  
Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9110058</b>			<b>Date Prepared: 11/10/99</b>			<b>Extraction Method: EPA 5030B [P/T]</b>				
<b>Blank</b>			<b>9110058-BLK1</b>							
Methyl tert-butyl ether	11/10/99			ND	ug/l	2.00				
Surrogate: 1,2-Dichloroethane-d4	"	50.0		46.9	"	76.0-114	93.8			
<b>Blank</b>			<b>9110058-BLK2</b>							
Methyl tert-butyl ether	11/11/99			ND	ug/l	2.00				
Surrogate: 1,2-Dichloroethane-d4	"	50.0		44.8	"	76.0-114	89.6			
<b>LCS</b>			<b>9110058-BS1</b>							
Methyl tert-butyl ether	11/10/99	50.0		45.0	ug/l	70.0-130	90.0			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		46.3	"	76.0-114	92.6			
<b>LCS</b>			<b>9110058-BS2</b>							
Methyl tert-butyl ether	11/11/99	50.0		45.0	ug/l	70.0-130	90.0			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		46.7	"	76.0-114	93.4			
<b>Matrix Spike</b>			<b>9110058-MS1 L911117-01</b>							
Methyl tert-butyl ether	11/10/99	50.0	6.76	61.3	ug/l	60.0-140	109			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		46.6	"	76.0-114	93.2			
<b>Matrix Spike Dup</b>			<b>9110058-MSD1 L911117-01</b>							
Methyl tert-butyl ether	11/10/99	50.0	6.76	69.1	ug/l	60.0-140	125	25.0	13.7	
Surrogate: 1,2-Dichloroethane-d4	"	50.0		51.9	"	76.0-114	104			
<b>Batch: 9110068</b>			<b>Date Prepared: 11/11/99</b>			<b>Extraction Method: EPA 5030B [P/T]</b>				
<b>Blank</b>			<b>9110068-BLK1</b>							
Methyl tert-butyl ether	11/11/99			ND	ug/l	0.500				
Surrogate: 1,2-Dichloroethane-d4	"	50.0		46.2	"	76.0-114	92.4			
<b>LCS</b>			<b>9110068-BS1</b>							
Methyl tert-butyl ether	11/11/99	50.0		45.2	ug/l	70.0-130	90.4			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		46.4	"	76.0-114	92.8			
<b>Matrix Spike</b>			<b>9110068-MS1 M911197-04</b>							
Methyl tert-butyl ether	11/11/99	50.0	ND	51.7	ug/l	60.0-140	103			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		49.0	"	76.0-114	98.0			
<b>Matrix Spike Dup</b>			<b>9110068-MSD1 M911197-04</b>							
Methyl tert-butyl ether	11/11/99	50.0	ND	49.4	ug/l	60.0-140	98.8	25.0	4.16	
Surrogate: 1,2-Dichloroethane-d4	"	50.0		45.7	"	76.0-114	91.4			





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 991103-51/500 Grand Ave., Oakland Project Manager: Leah Davis	Sampled: 11/3/99 Received: 11/4/99 Reported: 11/22/99
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**Conventional Chemistry Parameters by APHA/EPA Methods/Quality Control**  
**Sequoia Analytical - Walnut Creek**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9K12010</b>	<b>Date Prepared: 11/12/99</b>					<b>Extraction Method: EPA 3510B</b>				
<b>Blank</b>	<b>9K12010-BLK1</b>									
Oil & Grease	11/14/99			ND	mg/l	5.0				
<b>LCS</b>	<b>9K12010-BS1</b>									
Oil & Grease	11/14/99	100		116	mg/l	70-130	116			
<b>LCS Dup</b>	<b>9K12010-BSD1</b>									
Oil & Grease	11/14/99	100		118	mg/l	70-130	118	30	1.71	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 991103-51/500 Grand Ave., Oakland Project Manager: Leah Davis	Sampled: 11/3/99 Received: 11/4/99 Reported: 11/22/99
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**Notes and Definitions**

#	Note
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- 1 Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
- 2 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- 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  
991103-51

CLIENT  
Equiva - Karen Petryna

SITE  
500 Grand Avenue  
Oakland, CA

SAMPLE ID.	Date	Time	MATRIX	CONTAINERS		TPH - GAS, BTEX	MTBE by 8020	MTBE by 8260	TPH-diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010	oil/grease
			S = SOIL W = WATER	TOTAL	Net Vol Liters M/Liter							
MW-8F	11-03-99	11:35	W	7		X	X	X	X			X
MW-8G		12:15				X	X	X	X			X
MW-8H		10:55				X	X	X	X			X
MW-8I		10:25				X	X	X	X			X
MW-8J		9:50				X	X	X	X			X
MW-8K		9:05				X	X	X	X			X

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	oil/grease
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LAB SEQUOIA DHS #

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

EPA  RWQCB REGION

LIA

OTHER

M914/92 11/28/99

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 88870189

Send report to Blaine Tech Services

Attn: Ann Pember

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
confirm MTOE by 8260			
if detected or if Detection Limit raised above T.P.P.O.			
		Permeal (Per Kegging)	
		1/10	

\*  
\*  
\*  
\*  
\*  
\*  
\*

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN	
	11-03-99	12:15	Josh	Standard	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #		

NOV. - 10 99 (WED) 10:51  
BLAINE TECH SERVICES, INC  
TEL: 408 573 7771  
P. 002

# BLAINE

TECH SERVICES INC.

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

## CONDUCT ANALYSIS TO DETECT

LAB SEQUOIA

DHS #

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

EPA

RWQCB REGION

LIA

OTHER

### SPECIAL INSTRUCTIONS

Send invoice to Equiva

4 12 20

Incident # 88870189

Send report to Blaine Tech Services

Attn: Ann Pember

CHAIN OF CUSTODY  
991103-51

CLIENT  
Equiva - Karen Petryna

SITE  
500 Grand Avenue  
Oakland, CA

MATRIX  
S = SOIL  
W = H2O

CONTAINERS

C = COMPOSITE ALL CONTAINERS

TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH-diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010	oil & grease
X	X	X	X			X
X	X	X	X			X
X	X	X	X			X
X	X	X	X			X
X	X	X	X			X
X	X	X	X			X

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
confirm MTOE			1
by 8260			2
if detected or			3
if detection limit			4
Raised above S.P.P.S.			5
			6

X  
X  
X  
X  
X  
X

SAMPLE I.D.	Date	Time	MATRIX	TOTAL	CONTAINERS
✓ MW-8FV	11-03-99	11:35	W	7	1 gal water 1 liter
✓ MW-8GV		12:15			
✓ MW-8HV		10:55			
✓ MW-8IV		10:25			
✓ MW-8JV		9:50			
✓ MW-8KV		9:05			

O&G:-  
no leak 11/3/99  
3:23pm

O&G 5520 B

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RECEIVE	DATE	TIME
	11-03-99	12:15	Josh			
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME	
				11/4	11:25	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME	
				11/4/99	12:24	
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #			





# EQUIVA WELL MONITORING DATA SHEET

Project #: 991103-J1	Job # 624880235
Sampler: Josh.	Date: 11-03-99.
Well I.D.: MW-8F	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 14.35	Depth to Water: 9.40
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
Middleburg      Extraction Port  
Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump

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

3.2	x	3	=	9.6	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
11:30	71.8	7.4	837	156	4	
11:31	69.1	8.6	3925	33	7	
11:33	69.1	8.6	4062	23	10	
* Removed ORP Before Purge.						
* ✓ calibr. on D.O. Meter						
* Replaced ORP after Sample.						

Did well dewater? Yes  No  Gallons actually evacuated: 10

Sampling Time: ~~MW-8F~~ 11:35      Sampling Date: 11-03-99

Sample I.D.: MW-8F      Laboratory: Sequoia BC Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oil & Grease

* D.O. (if req'd):	Pre-purge:	4.6 <sup>mg/L</sup>	Post-purge:	2.0 <sup>mg/L</sup>
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

# EQUIVA WELL MONITORING DATA SHEET

Project #: 991103-J1	Job # 624880235
Sampler: Josh.	Date: 11-03-99.
Well I.D.: MW-86	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 14.00	Depth to Water: 9.58
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>3</sup> * 0.163

Purge Method: Bailer      Sampling Method: (Bailer)  
Middleburg      Extraction Port  
(Electric Submersible)      Other: \_\_\_\_\_  
 Extraction Pump  
 Other: \_\_\_\_\_

3	x	3	=	9	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
12:09	70.7	8.5	4022	18	3	
12:10	69.5	8.9	4448	20	6	
12:11	69.5	8.9	4305	30	9	
		* Removed ORC to purge & sample				
		* ✓ Calib on D.O.				
		* Replaced ORC in well after sample				

Did well dewater? Yes  No       Gallons actually evacuated: 9

Sampling Time: ~~MW-86~~ 12:15      Sampling Date: 11-03-99

Sample I.D.: MW-86      Laboratory: (Sequoia) BC Other \_\_\_\_\_

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

D.O. (if req'd):	Pre-purge:	11.6	mg/L	Post-purge:	4.9	mg/L
	O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:	

# EQUIVA WELL MONITORING DATA SHEET

Project #: 991103-J1	Job # 624880235
Sampler: Josh.	Date: 11-03-99.
Well I.D.: MW-8H	Well Diameter: 2 3 <b>(4)</b> 6 8
Total Well Depth: <del>8</del> 14.80	Depth to Water: 3.49
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>(PVC)</b> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: **Bailer** Middleburg **(Electric Submersible)** Extraction Pump

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

Sampling Method: **(Bailer)** Extraction Port

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

7.4	X	3	=	22.2	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
10:50	69.5	<del>8.86</del> <sup>8.49</sup>	1043	79	8	
10:51	72.0	7.5	807	88	15	
10:52	72.3	7.2	845	113	23	

Did well dewater? Yes  **(No)** Gallons actually evacuated: 23

Sampling Time: 10:55 Sampling Date: 11-03-99

Sample I.D.: MW-8H Laboratory: **(Sequoia)** BC Other \_\_\_\_\_

Analyzed for: **(TPH-G)** **(BTEX)** **(MTBE)** **(TPH-D)** Other: Oil & Grease

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

# EQUIVA WELL MONITORING DATA SHEET

Project #: 991103-J1	Job # 6248802.35
Sampler: Josh.	Date: 11-03-99.
Well I.D.: MW-8 I	Well Diameter: 2 3 <b>4</b> 6 8
Total Well Depth: 14.50	Depth to Water: 6.45
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>PVC</b> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: **Bailer**      Sampling Method: **Bailer**  
 Middleburg      Extraction Port  
**Electric Submersible**      Other: \_\_\_\_\_  
 Extraction Pump

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

5.2	x	3	=	15.6 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations	
10:20	67.8	7.5	1451	>200	6		
10:21	72.2	8.8	994	>200	12		
10:22	72.5	9.3	1001	>200	16		
		✓ - D.O. calibration					
		* - Removed ORC after gauging					

Did well dewater? Yes **(No)**      Gallons actually evacuated: 16

Sampling Time: 1025      Sampling Date: 11-03-99

Sample I.D.: MW-8 I      Laboratory: **Sequoia** BC Other \_\_\_\_\_

Analyzed for: **TPH-G** **BTEX** **MTBE** **TPH-D** Other: Oil & Grease

D.O. (if req'd):	Pre-purge:	715 mg/L	Post-purge:	9.6 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

\* Replaced ORC after sampling

## EQUIVA WELL MONITORING DATA SHEET

Project #: 991103-J1	Job # 624880235
Sampler: Josh.	Date: 11-03-99.
Well I.D.: MW-8J	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 14.70	Depth to Water: 5.84
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer Middleburg Electric Submersible Extraction Pump

Sampling Method: Bailer Extraction Port

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

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

5.8	x	3	=	17.4 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
9:46	61.2	7.6	1510	7200	6	
9:47	70.5	7.3	1486	7200	12	
9:49	71.5	7.3	1491	7200	18	

Did well dewater? Yes  No

Gallons actually evacuated: 18

Sampling Time: 9:50      Sampling Date: 11-03-99

Sample I.D.: MW-8J      Laboratory: Sequoia BC Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oil & Grease

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

## EQUIVA WELL MONITORING DATA SHEET

Project #: 991103-J1	Job # 624880235
Sampler: Josh.	Date: 11-03-99
Well I.D.: MW-8K	Well Diameter: (2) 3 4 6 8
Total Well Depth: <del>AW</del> 16.45	Depth to Water: 1.63
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: (Bailer) Middleburg  
 Electric Submersible Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method: (Bailer) Extraction Port  
 Other: \_\_\_\_\_

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
8:54	69.6	6.9	1122	>200	3	
8:58	70.4	6.9	1088	>200	5	
8:59	70.8	6.9	1139	>200	8	

Did well dewater? Yes  No  Gallons actually evacuated: 8

Sampling Time: 9:05 Sampling Date: 11-03-99

Sample I.D.: MW-8K Laboratory: (Sequoia) BC Other \_\_\_\_\_

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

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

