

PACIFIC
ENVIRONMENTAL
GROUP, INC.

AN **ITT** COMPANY

ST10 3014

June 25, 1999
Project 340-083.9A

Ms. Eva Chu
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502-6577

Re: **Quarterly Monitoring Report - Fourth Quarter 1998**
Former Texaco Service Station
930 Springtown Boulevard at Lassen Road
Livermore, California

Dear Ms. Chu:

The following presents the results of the fourth quarter 1998 monitoring program for the site referenced above. This letter has been prepared for Equiva Services LLC (Equiva) by Pacific Environmental Group, Inc. (PEG). Equiva is managing the subject site on behalf of Texaco, Inc.

FINDINGS

Ground-water monitoring wells were gauged and sampled by Blaine Tech Services, Inc. (Blaine) at the direction of PEG on November 4, 1998. Blaine's ground-water monitoring report, which includes the Ground Water Chemical Analytical Data Table, field data, and the certified analytical report, are presented as Attachment A.

Ground-water elevation contours for this sampling event is shown on Figure 1. The Ground Water Chemical Analytical Data Table presents the ground-water elevation data for ground-water monitoring wells gauged this quarter.

All wells sampled were analyzed for total purgeable petroleum hydrocarbons (TPPH), benzene, toluene, ethylbenzene, xylenes (BTEX compounds), and methyl tert-butyl ether (MtBE) by EPA Methods 8015 (modified) and 8020. The presence of MtBE was confirmed in selected wells by EPA Method 8260. TPPH, benzene, and MtBE concentrations for the November 1998 sampling date are shown on Figure 2. Ground-water analytical data are presented in the Ground Water Chemical Analytical Data Table.

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ENVIRONMENTAL
PROTECTION

DISCUSSION

Concentrations of TPPH and benzene were reported in four of the six monitoring wells, sampled on-site during the fourth quarter 1998. Concentrations of TPPH ranged from 230 parts per billion (ppb) detected in Well MW-3 to 24,000 ppb detected in Well MW-B. Concentrations of benzene ranged from 11 ppb detected in Well MW-3 to 150 ppb detected in Well MW-B. All on-site wells reported non-detectable concentrations of MtBE with the exception of upgradient Well MW-3, which reported a concentration of 14 ppb MtBE by EPA Method 8260.

Wells MW-4 and MW-8 located downgradient of the site reported non-detectable concentrations of TPPH and MtBE. Benzene was non-detect in Well MW-4, but was detectable in Well MW-8 at a concentration of 1.2 ppb.

Concentrations of TPPH, BTEX compounds, and MtBE for ground-water samples collected during the fourth quarter 1998 appear to be consistent with historic levels for all of the sampled wells. PEG will conduct ground-water monitoring activities on an annual basis in the fourth quarter 1999.

PEG submitted a *Work Plan for Soil Vapor Sampling* dated December 3, 1998 to the Alameda County Health Care Services Agency (ACHCSA). The work plan was approved by the ACHCSA on June 11, 1999. The proposed work activities involve the collection of soil and soil vapor samples, and this additional data which will be used to revise the *Risk-Based Corrective Action (RBCA) Analysis* dated October 31, 1997 submitted by Kaprealian Engineering, Inc. PEG is currently in the process of obtaining permits for the proposed work activities and seeks case closure once the revised RBCA analysis is approved by the ACHCSA.

If you have any questions or comments regarding this site, please contact me at your convenience at (408) 441-7500.

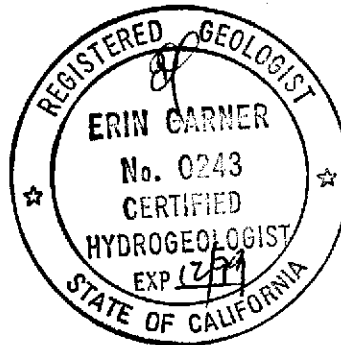
(408) 453-7300

Sincerely,

Pacific Environmental Group, Inc.



Erin Garner
Senior Geologist
CHG 0243



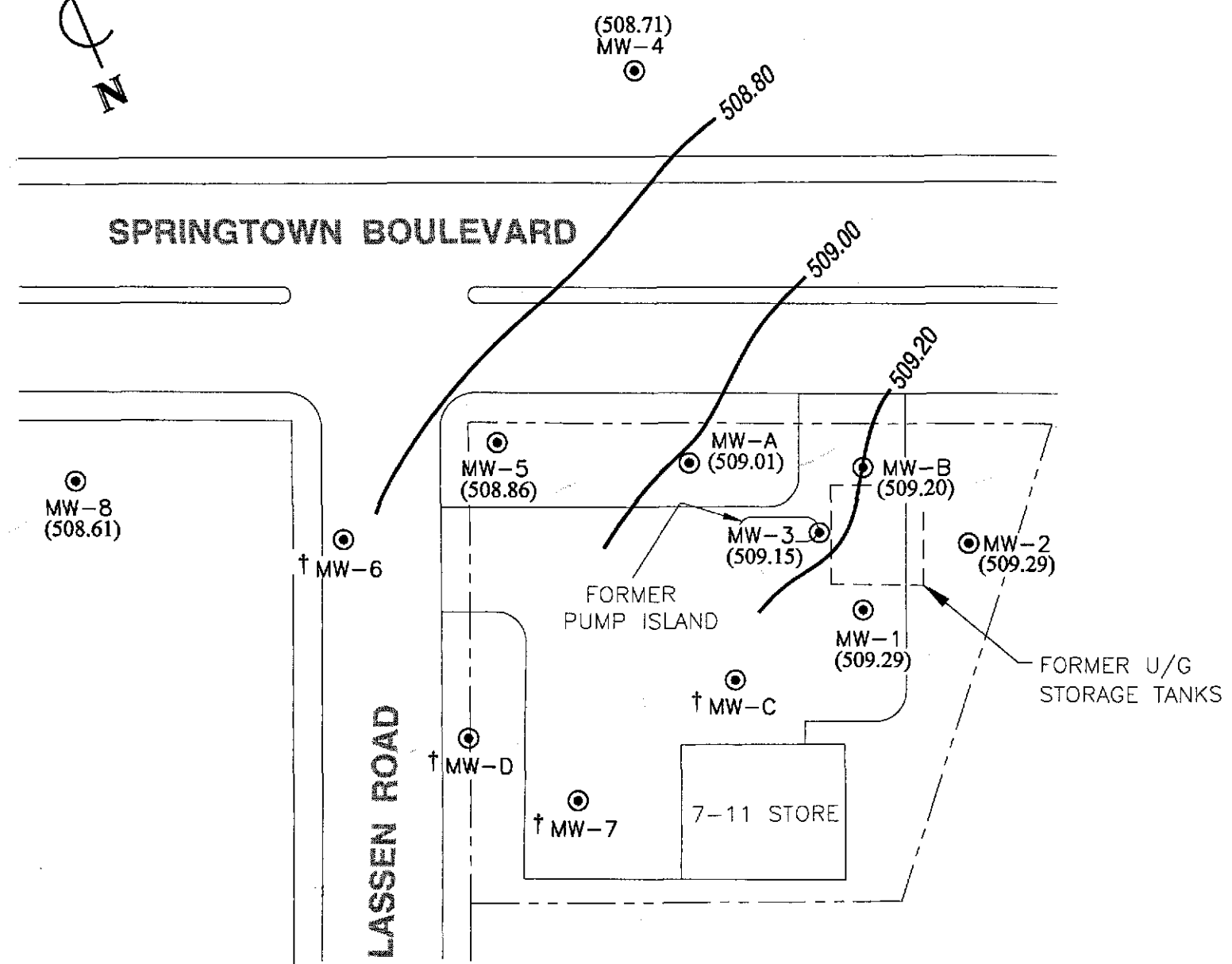
June 25, 1999

Page 3

Attachments Figure 1 – Ground-water Elevation Contour Map
 Figure 2 – TPPH/Benzene/MtBE Concentration Map
 Attachment A – Groundwater Monitoring Report

cc: Ms. Karen Petryna, P.E., Equiva Services LLC, P.O. Box 6249, Carson, CA 90749-6249
 Mr. Leo Pagano, 1127 Lincoln Avenue, Alameda, CA 94602
 Ms. Juliet Shin, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway,
 Alameda, CA 94502-6577

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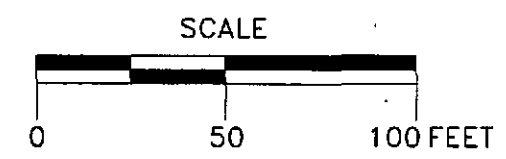



LEGEND

- MW-2 ● GROUND-WATER MONITORING WELL LOCATION AND DESIGNATION
- (509.29) GROUND-WATER ELEVATION IN FEET-MSL, 11-4-98
- 509.00 — GROUND-WATER ELEVATION CONTOUR IN FEET-MSL, 11-4-98
- † REMOVED FROM GAUGING PROGRAM



APPROXIMATE DIRECTION OF GROUND-WATER FLOW
 APPROXIMATE GRADIENT = 0.003



 PACIFIC ENVIRONMENTAL GROUP, INC.	TITLE: GROUND-WATER ELEVATION CONTOUR MAP			
	PREPARED FOR: FORMER TEXACO SERVICE STATION 930 Springtown Boulevard at Lassen Road Livermore, California			
	DATE: 6/24/99	PROJECT: 340-083.9A	SCALE: AS SHOWN	FIGURE: 1

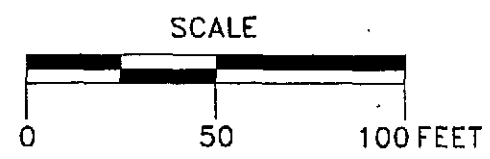
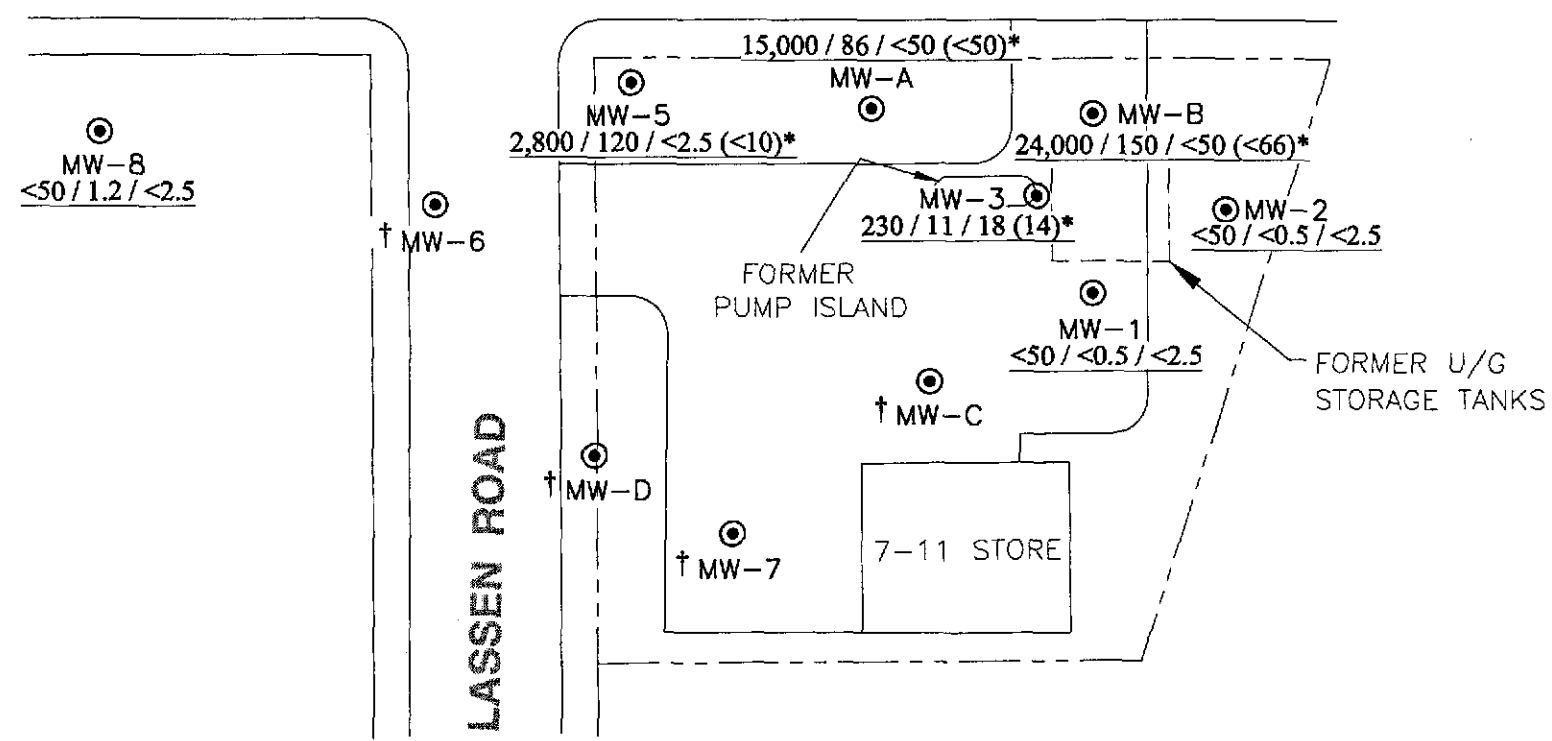



<50 / <0.5 / <2.5
MW-4

SPRINGTOWN BOULEVARD

LEGEND

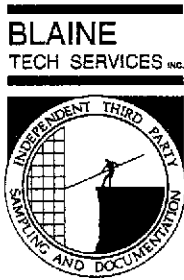
- MW-2 GROUND-WATER MONITORING WELL LOCATION AND DESIGNATION
- <50 / <0.5 / <2.5 TPPH/BENZENE/MtBE CONCENTRATION IN GROUND WATER, IN PARTS PER BILLION, 11-4-98
- † REMOVED FROM SAMPLING PROGRAM
- * MtBE CONFIRMED BY EPA METHOD 8260



 PACIFIC ENVIRONMENTAL GROUP, INC.	TITLE: TPPH/BENZENE/MtBE CONCENTRATION MAP		
	PREPARED FOR: FORMER TEXACO SERVICE STATION 930 Springtown Boulevard at Lassen Road Livermore, California		
	DATE: 6/24/99	PROJECT: 340-083.9A	SCALE: AS SHOWN
		FIGURE: 2	

ATTACHMENT A

GROUNDWATER MONITORING REPORT



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

December 22, 1998

**Groundwater Monitoring and Sampling
Fourth Quarter, 1998
at the
Former Texaco Service Station
930 Springtown Boulevard
Livermore, California**

This report presents the results of groundwater monitoring and sampling conducted by Blaine Tech Services, Inc. on November 4, 1998 at the site referenced above. Table 1 lists historical groundwater monitoring data and analytical results. The certified analytical report, chain-of-custody, and field data sheets are in the Appendix. Equilon Enterprises LLC's Standard Operating Procedures may be found in the fourth quarter, 1994 monitoring report.

Deidre Kerwin for:

Deidre Kerwin
Operations Manager
Blaine Tech Services, Inc.

DK:ck

TABLE 1

GROUND WATER CHEMICAL ANALYTICAL DATA
 Texaco Branded Service Station
 930 Springtown Blvd.
 Livermore, CA

Sample Date	Measured GW Depth (ft)	GW Elevation (ft)	SP	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	Comments
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MW-A	Top of Casing Elevation in feet: 520.10										
02-Jan-92	13.61	506.49	0.00	NA	NA	NA	NA	NA	NA	NA	
02-Apr-92	12.44	507.66	0.00	27000	1200	570	1700	2300	NA	NA	
21-Jul-92	13.35	506.75	0.00	57000	1500	1800	2700	7100	NA	NA	
09-Oct-92	12.92	507.18	0.00	56000	2900	2600	4600	12000	NA	NA	
11-Jan-93	11.78	508.32	0.00	NA	NA	NA	NA	NA	NA	NA	
05-May-93	11.39	508.71	0.00	NA	NA	NA	NA	NA	NA	NA	
09-Aug-93	12.80	507.30	0.00	NA	NA	NA	NA	NA	NA	NA	
14-Oct-93	13.48	506.62	0.00	NA	NA	NA	NA	NA	NA	NA	
24-Jan-94	12.74	507.36	0.00	1400000	6900	2100	15000	38000	NA	NA	
31-May-94	12.28	507.82	0.00	48000	1200	900	1900	4200	NA	NA	
31-Aug-94	13.20	506.90	0.00	24000	140	120	830	1500	NA	NA	
02-Nov-94	13.15	506.95	0.00	15000	230	360	1100	1800	NA	NA	
20-Feb-95	11.71	508.39	0.00	12000	290	330	570	1300	NA	NA	
09-May-95	12.37	507.73	0.00	1200	6.1	5.9	12	15	NA	NA	
21-Aug-95	11.37	508.73	0.00	9600	85	140	250	860	160	NA	
20-Oct-95	12.04	508.06	0.00	360	5.2	7.9	15	43	NA	NA	
07-Feb-96	10.11	509.99	0.00	6100	130	180	320	840	NA	NA	
30-Apr-96	10.28	509.82	0.00	410	1.2	0.67	1.2	1.5	NA	NA	
14-Aug-96	10.82	509.28	0.00	3000	65	75	170	460	57	NA	
22-Nov-96	10.97	509.13	0.00	6300	100	170	310	710	64	NA	
14-Feb-97	10.00	510.10	0.00	8100	140	180	700	1600	<300	NA	
23-May-97	11.36	508.74	0.00	24000	340	520	1600	3800	<2000	NA	

TABLE 1

GROUND WATER CHEMICAL ANALYTICAL DATA
 Texaco Branded Service Station
 930 Springtown Blvd.
 Livermore, CA

Sample Date	Measured GW Depth (ft)	GW Elevation (ft)	SP	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	Comments
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25-Jul-97	11.66	508.44	0.00	440	<0.5	<0.5	<0.5	<0.5	<30	NA	
31-Oct-97	11.56	508.54	0.00	3700	21	48	200	430	35	NA	
06-Feb-98	9.00	511.10	0.00	1500	2.1	4.4	55	77	<30	NA	
19-May-98	9.85	510.25	0.00	32000	310	380	1800	3700	1300	NA	
31-Jul-98	10.04	510.06	0.00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	
04-Nov-98	11.09	509.01	0.00	15000	86	180	960	1800	<50	<50	

MW-B	Top of Casing Elevation in feet: 518.05										
02-Jan-92	11.27	506.78	0.00	NA	NA	NA	NA	NA	NA	NA	NA
02-Apr-92	10.18	507.87	0.00	1900	ND	39	24	35	NA	NA	NA
21-Jul-92	11.27	506.78	0.00	16000	180	1600	270	1100	NA	NA	NA
09-Oct-92	11.64	506.41	0.00	38000	490	8300	1400	5100	NA	NA	NA
11-Jan-93	9.65	508.40	0.00	NA	NA	NA	NA	NA	NA	NA	NA
05-May-93	9.28	508.77	0.00	NA	NA	NA	NA	NA	NA	NA	NA
09-Aug-93	11.02	507.03	0.00	NA	NA	NA	NA	NA	NA	NA	NA
14-Oct-93	11.34	506.71	0.00	NA	NA	NA	NA	NA	NA	NA	NA
24-Jan-94	10.54	507.51	0.00	23000	110	1700	600	1900	NA	NA	NA
31-May-94	10.19	507.86	0.00	13000	780	310	370	1400	NA	NA	NA
31-Aug-94	10.98	507.07	0.00	35000	160	2800	1000	4500	NA	NA	NA
02-Nov-94	10.90	507.15	0.00	2500	170	3200	1100	4700	NA	NA	NA
20-Feb-95	9.47	508.58	0.00	10000	46	1400	330	1200	NA	NA	NA
09-May-95	10.58	507.47	0.00	4100	9.1	47	26	30	NA	NA	NA
21-Aug-95	9.34	508.71	0.00	4000	9.6	110	120	270	98	NA	NA

TABLE 1

GROUND WATER CHEMICAL ANALYTICAL DATA

Texaco Branded Service Station

930 Springtown Blvd.

Livermore, CA

Sample Date	Measured GW Depth (ft)	GW Elevation (ft)	SP	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	Comments
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20-Oct-95	9.83	508.22	0.00	9300	35	1300	370	1300	NA	NA	
07-Feb-96	7.85	510.20	0.00	8900	33	700	110	360	NA	NA	
30-Apr-96	8.02	510.03	0.00	5500	17	460	120	400	NA	NA	
14-Aug-96	8.66	509.39	0.00	9000	<5	260	120	320	<300	NA	
22-Nov-96	8.70	509.35	0.00	560000	56	2400	1600	5500	<3000	NA	
14-Feb-97	7.75	510.30	0.00	4600	5.2	110	72	210	<300	NA	
23-May-97	9.05	509.00	0.00	34000	75	1700	590	2100	1800	NA	
25-Jul-97	9.37	508.68	0.00	39000	250	5200	1600	5900	<800	NA	
31-Oct-97	9.29	508.76	0.00	36000	130	2600	1200	4800	<800	NA	
06-Feb-98	6.68	511.37	0.00	4800	10	120	72	200	<80	NA	
19-May-98	7.57	510.48	0.00	25000	200	900	410	1600	570	NA	
31-Jul-98	8.03	510.02	0.00	580	<0.5	<0.5	<0.5	<0.5	14	NA	
04-Nov-98	8.85	509.20	0.00	24000	150	1400	850	2400	<50	<66	

MW-1		Top of Casing Elevation in feet	520.61								
02-Jan-92	14.11	506.50	0.00	16	6	ND	ND	ND	NA	NA	
02-Apr-92	12.98	507.63	0.00	ND	ND	ND	ND	ND	NA	NA	
21-Jul-92	13.92	506.69	0.00	<50	3.2	<0.5	<0.5	<0.5	NA	NA	
09-Oct-92	14.25	506.36	0.00	<50	8.5	<0.5	<0.5	<0.5	NA	NA	
11-Jan-93	12.30	508.31	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
05-May-93	11.88	508.73	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
09-Aug-93	13.63	506.98	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
14-Oct-93	13.91	506.70	0.00	440	16	2.9	2.9	11	NA	NA	

TABLE 1

GROUND WATER CHEMICAL ANALYTICAL DATA

Texaco Branded Service Station

930 Springtown Blvd.

Livermore, CA

Sample Date	Measured GW Depth (ft)	GW Elevation (ft)	SP	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	Comments
24-Jan-93	13.12	507.49	0.00	NA	NA	NA	NA	NA	NA	NA	
31-May-94	12.74	507.87	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
31-Aug-94	13.68	506.93	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
02-Nov-94	13.48	507.13	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
20-Feb-95	12.02	508.59	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
09-May-95	12.83	507.78	0.00	450	22	25	23	100	NA	NA	
21-Aug-95	11.93	508.68	0.00	58	<0.5	1.5	1.8	4.5	<10	NA	
20-Oct-95	12.40	508.21	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
07-Feb-96	10.42	510.19	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
30-Apr-96	10.48	510.13	0.00	NA	NA	NA	NA	NA	NA	NA	
14-Aug-96	11.18	509.43	0.00	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	
22-Nov-96	11.10	509.51	0.00	NA	NA	NA	NA	NA	NA	NA	
14-Feb-97	10.25	510.36	0.00	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	
23-May-97	11.48	509.13	0.00	NA	NA	NA	NA	NA	NA	NA	
25-Jul-97	11.99	508.62	0.00	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	
31-Oct-97	11.74	508.87	0.00	NA	NA	NA	NA	NA	NA	NA	
06-Feb-98	9.27	511.34	0.00	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	
19-May-98	10.51	510.10	0.00	NA	NA	NA	NA	NA	NA	NA	
31-Jul-98	10.41	510.20	0.00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	
04-Nov-98	11.32	509.29	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	
MW-2		Top of Casing Elevation in feet: 518.29									
02-Jan-92	11.96	506.33	0.00	ND	ND	ND	ND	ND	NA	NA	

TABLE 1

GROUND WATER CHEMICAL ANALYTICAL DATA
Texaco Branded Service Station
930 Springtown Blvd.
Livermore, CA

Sample Date	Measured GW Depth (ft)	GW Elevation (ft)	SP	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	Comments
02-Jan-92	12.87	506.73	0.00	340	0.4	ND	ND	ND	NA	NA	
02-Apr-92	11.97	507.63	0.00	160	5	ND	0.3	0.5	NA	NA	
21-Jul-92	12.60	507.00	0.00	260	1.7	<0.5	<0.5	<0.5	NA	NA	
09-Oct-92	12.93	506.67	0.00	88	<0.5	<0.5	<0.5	<0.5	NA	NA	
11-Jan-93	11.16	508.44	0.00	130	<0.5	<0.5	<0.5	<0.5	NA	NA	
05-May-93	10.72	508.88	0.00	340	1.8	<0.5	1.3	<0.5	NA	NA	
09-Aug-93	12.34	507.26	0.00	610	18	<0.5	2.4	0.9	NA	NA	
14-Oct-93	12.71	506.89	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
24-Jan-94	12.03	507.57	0.00	320	3.5	<0.5	<0.5	<0.5	NA	NA	
31-May-94	11.54	508.06	0.00	830	11	12	5.0	1.2	NA	NA	
31-Aug-94	12.60	507.00	0.00	660	2	<0.5	1	<0.5	NA	NA	
02-Nov-94	12.16	507.44	0.00	1500	260	36	34	76	NA	NA	
20-Feb-95	11.05	508.55	0.00	410	1.2	1.9	1.4	2.2	NA	NA	
09-May-95	11.97	507.63	0.00	730	23	43	21	95	NA	NA	
21-Aug-95	7.60	512.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<10	NA	
20-Oct-95	11.46	508.14	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
07-Feb-96	9.42	510.18	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
30-Apr-96	9.60	510.00	0.00	NA	NA	NA	NA	NA	NA	NA	
14-Aug-96	10.24	509.36	0.00	<50	<0.5	0.60	<0.5	<0.5	<30	NA	
22-Nov-96	10.34	509.26	0.00	NA	NA	NA	NA	NA	NA	NA	
14-Feb-97	9.38	510.22	0.00	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	
23-May-97	10.67	508.93	0.00	NA	NA	NA	NA	NA	NA	NA	
25-Jul-97	11.11	508.49	0.00	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	

TABLE 1

GROUND WATER CHEMICAL ANALYTICAL DATA

Texaco Branded Service Station

930 Springtown Blvd.

Livermore, CA

Sample Date	Measured GW Depth (ft)	GW Elevation (ft)	SP	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	Comments
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31-Oct-97	10.86	508.74	0.00	NA	NA	NA	NA	NA	NA	NA	
06-Feb-98	8.41	511.19	0.00	63	1.5	2.8	0.77	8.6	<30	NA	
19-May-98	9.40	510.20	0.00	NA	NA	NA	NA	NA	NA	NA	
31-Jul-98	9.04	510.56	0.00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	
04-Nov-98	10.45	509.15	0.00	230	11	7.2	7.6	33	18	14	

MW-4	Top of Casing Elevation in feet: 518.79										
02-Jan-92	12.22	506.57	0.00	ND	ND	ND	ND	ND	NA	NA	
02-Apr-92	11.03	507.76	0.00	ND	ND	ND	ND	ND	NA	NA	
21-Jul-92	12.36	506.43	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
09-Oct-92	12.40	506.39	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
11-Jan-93	10.72	508.07	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
05-May-93	10.21	508.58	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
09-Aug-93	12.25	506.54	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
14-Oct-93	12.58	506.21	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
24-Jan-94	11.72	507.07	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
31-May-94	11.29	507.50	0.00	NA	NA	NA	NA	NA	NA	NA	
31-Aug-94	12.00	506.79	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
02-Nov-94	11.96	506.83	0.00	NA	NA	NA	NA	NA	NA	NA	
20-Feb-95	10.42	508.37	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
09-May-95	11.22	507.57	0.00	NA	NA	NA	NA	NA	NA	NA	
21-Aug-95	10.51	508.28	0.00	<50	<0.5	<0.5	<0.5	<0.5	<10	NA	
20-Oct-95	10.86	507.93	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	

TABLE 1

GROUND WATER CHEMICAL ANALYTICAL DATA
 Texaco Branded Service Station
 930 Springtown Blvd.
 Livermore, CA

Sample Date	Measured GW Depth (ft)	GW Elevation (ft)	SP	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	Comments
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07-Feb-96	8.93	509.86	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
30-Apr-96	9.03	509.76	0.00	NA	NA	NA	NA	NA	NA	NA	
14-Aug-96	9.84	508.95	0.00	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	
22-Nov-96	9.73	509.06	0.00	NA	NA	NA	NA	NA	NA	NA	
14-Feb-97	8.85	509.94	0.00	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	
23-May-97	10.15	508.64	0.00	NA	NA	NA	NA	NA	NA	NA	
25-Jul-97	10.61	508.18	0.00	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	
31-Oct-97	10.36	508.43	0.00	NA	NA	NA	NA	NA	NA	NA	
06-Feb-98	7.46	511.33	0.00	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	
19-May-98	8.91	509.88	0.00	NA	NA	NA	NA	NA	NA	NA	
31-Jul-98	8.99	509.80	0.00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	
04-Nov-98	10.00	508.71	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	

MW-5	Top of Casing Elevation in feet: 521.19										
02-Jan-92	14.56	506.63	0.00	1800	74	41	84	94	NA	NA	
02-Apr-92	13.58	507.61	0.00	ND	ND	ND	ND	ND	NA	NA	
21-Jul-92	13.77	507.42	0.00	1000	69	16	40	31	NA	NA	
09-Oct-92	14.09	507.10	0.00	3400	890	51	110	110	NA	NA	
11-Jan-93	12.24	508.95	0.00	15000	460	110	900	370	NA	NA	
05-May-93	11.90	509.29	0.00	4500	160	19	280	110	NA	NA	
09-Aug-93	13.35	507.84	0.00	2300	180	19	130	80	NA	NA	
14-Oct-93	13.89	507.30	0.00	2200	160	27	90	64	NA	NA	
24-Jan-94	13.32	507.87	0.00	2600	69	11	65	25	NA	NA	

TABLE 1

GROUND WATER CHEMICAL ANALYTICAL DATA
Texaco Branded Service Station
930 Springtown Blvd.
Livermore, CA

Sample Date	Measured GW Depth (ft)	GW Elevation (ft)	SP	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	Comments
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31-May-94	12.75	508.44	0.00	3100	130	64	140	120	NA	NA	
31-Aug-94	14.34	506.85	0.00	600	20	2.9	14	7.1	NA	NA	
02-Nov-94	14.22	506.97	0.00	2300	68	18	52	54	NA	NA	
20-Feb-95	12.78	508.41	0.00	12000	130	<30	240	138	NA	NA	
09-May-95	13.41	507.78	0.00	2500	57	60	54	37	NA	NA	
21-Aug-95	12.32	508.87	0.00	11000	91	28	140	120	<100	<100	
20-Oct-95	13.28	507.91	0.00	2300	38	3.8	28	19	NA	NA	
07-Feb-96	11.31	509.88	0.00	1800	35	8.1	37	20	NA	NA	
30-Apr-96	11.52	509.67	0.00	NA	NA	NA	NA	NA	NA	NA	
14-Aug-96	12.03	509.16	0.00	3500	130	22	170	47	71	NA	
22-Nov-96	12.22	508.97	0.00	3500	160	15	190	28	<200	NA	
14-Feb-97	11.20	509.99	0.00	2900	150	54	330	68	<300	NA	
23-May-97	12.55	508.64	0.00	10000	170	98	380	68	<200	NA	
25-Jul-97	12.93	508.26	0.00	2700	110	<0.5	33	<0.5	<30	NA	
31-Oct-97	12.78	508.41	0.00	NA	NA	NA	NA	NA	NA	NA	
06-Feb-98	10.26	510.93	0.00	67	<0.5	<0.5	<0.5	<0.5	<30	NA	
19-May-98	11.12	510.07	0.00	4200	120	25	360	76	510	NA	
31-Jul-98	11.79	509.40	0.00	270	<0.5	<0.5	<0.5	<0.5	<2.5	NA	
04-Nov-98	12.33	508.86	0.00	2800	120	14	590	140	<25	<10	

MW-6		Top of Casing Elevation in feet: 522.18									
02-Jan-92	16.64	505.54	0.00	23	ND	0.3	0.6	3	NA	NA	
02-Apr-91	15.61	506.57	0.00	ND	ND	ND	ND	ND	NA	NA	

TABLE 1

GROUND WATER CHEMICAL ANALYTICAL DATA
Texaco Branded Service Station
930 Springtown Blvd.
Livermore, CA

Sample Date	Measured GW Depth (ft)	GW Elevation (ft)	SP	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	Comments
20-Oct-95	8.61	513.58	0.00	NA	NA	NA	NA	NA	NA	NA	
25-Jul-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Longer Monitored or Sampled
MW-8		Top of Casing Elevation in feet: 524.03									
02-Jan-92	18.42	505.61	0.00	12000	32	980	200	760	NA	NA	
02-Apr-92	17.39	506.64	0.00	ND	ND	ND	ND	ND	NA	NA	
21-Jul-92	14.02	510.01	0.00	NA	NA	NA	NA	NA	NA	NA	
31-May-94	19.65	504.38	0.00	NA	NA	NA	NA	NA	NA	NA	
31-Aug-94	17.40	506.63	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
02-Nov-94	17.38	506.65	0.00	NA	NA	NA	NA	NA	NA	NA	
20-Feb-95	15.99	508.04	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
09-May-95	16.54	507.49	0.00	NA	NA	NA	NA	NA	NA	NA	
21-Aug-95	15.77	508.26	0.00	<50	<0.5	<0.5	0.67	0.62	<10	NA	
20-Oct-95	16.24	507.79	0.00	NA	NA	NA	NA	NA	NA	NA	
07-Feb-96	14.42	509.61	0.00	<50	7.0	<0.5	<0.5	<0.5	NA	NA	
30-Apr-96	14.65	509.38	0.00	61	9.6	<0.5	<0.5	<0.5	NA	NA	
14-Aug-96	15.08	508.95	0.00	<50	0.73	<0.5	<0.5	<0.5	<30	NA	
22-Nov-96	15.35	508.68	0.00	120	5.9	2.2	2.4	8.3	<30	NA	
14-Feb-97	14.32	509.71	0.00	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	
23-May-97	13.35	510.68	0.00	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	
25-Jul-97	16.05	507.98	0.00	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	
31-Oct-97	15.86	508.17	0.00	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	
06-Feb-98	13.62	510.41	0.00	180	17	<0.5	<0.5	6.0	<30	NA	

TABLE 1

GROUND WATER CHEMICAL ANALYTICAL DATA
 Texaco Branded Service Station
 930 Springtown Blvd.
 Livermore, CA

Sample Date	Measured GW Depth (ft)	GW Elevation (ft)	SP	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	Comments
19-May-98	14.23	509.80	0.00	<50	4.9	<0.5	<0.5	<0.5	<2.5	NA	
31-Jul-98	14.95	509.08	0.00	140	<0.5	<0.5	<0.5	<0.5	<2.5	NA	
04-Nov-98	15.42	508.6	0.00	<50	1.2	100	1.9	7.6	<2.5	NA	

Abbreviations:

TPPH = Total Purgeable Petroleum Hydrocarbons carbon range C6 to C12 by EPA Method 8015 (Modified)

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020

MTBE = methyl-tertiary-butyl ether

<x = Not detected at detection limit of x

NA = Not analyzed or not available

Oxygenates = TBA, MTBE, DIPE, ETBE, and TAME by EPA Method 8260

Top of casing elevations referenced to mean sea level



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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Texaco 930 Springtown Blvd Sample Descript: MW-A Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811076-01	Sampled: 11/04/98 Received: 11/05/98 Analyzed: 11/07/98 Reported: 11/21/98
Attention: Deidre Kerwin		

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	15000
Methyl t-Butyl Ether	50	N.D.
Benzene	10	86
Toluene	10	180
Ethyl Benzene	10	960
Xylenes (Total)	10	1800
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
		73

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849


Peggy Penner
Project Manager





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Deidre Kerwin	Client Proj. ID: Texaco 930 Springtown Blvd Sample Descript: MW-A Matrix: LIQUID Analysis Method: EPA 8260 Lab Number: 9811076-01	Sampled: 11/04/98 Received: 11/05/98 Analyzed: 11/13/98 Reported: 11/21/98
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QC Batch Number: MS111298MTBEH6A
Instrument ID: H6

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	50	N.D.
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76 114	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Deidre Kerwin

Client Proj. ID: Texaco 930 Springtown Blvd
Sample Descript: MW-B
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9811076-02

Sampled: 11/04/98
Received: 11/05/98

Analyzed: 11/07/98
Reported: 11/21/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	24000
Methyl t-Butyl Ether	50	N.D.
Benzene	10	150
Toluene	10	1400
Ethyl Benzene	10	850
Xylenes (Total)	10	2400
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849


Peggy Penner
Project Manager





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Texaco 930 Springtown Blvd Sample Descript: MW-B Matrix: LIQUID Analysis Method: EPA 8260 Lab Number: 9811076-02	Sampled: 11/04/98 Received: 11/05/98 Analyzed: 11/13/98 Reported: 11/21/98
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QC Batch Number: MS111298MTBEH6A
Instrument ID: H6

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	66	N.D.
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76 114	87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Deidre Kerwin	Client Proj. ID: Texaco 930 Springtown Blvd Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811076-03	Sampled: 11/04/98 Received: 11/05/98 Analyzed: 11/07/98 Reported: 11/21/98
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Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	83

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Peggy Penner
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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Deidre Kerwin	Client Proj. ID: Texaco 930 Springtown Blvd Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811076-04	Sampled: 11/04/98 Received: 11/05/98 Analyzed: 11/07/98 Reported: 11/21/98
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Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	97

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849


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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Texaco 930 Springtown Blvd Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811076-05	Sampled: 11/04/98 Received: 11/05/98 Analyzed: 11/07/98 Reported: 11/21/98
Attention: Deidre Kerwin		

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	230
Methyl t-Butyl Ether	2.5	18
Benzene	0.50	11
Toluene	0.50	7.2
Ethyl Benzene	0.50	7.6
Xylenes (Total)	0.50	33
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	93

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849


Peggy Penner
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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Texaco 930 Springtown Blvd Sample Descript: MW-3 Matrix: LIQUID Analysis Method: EPA 8260 Lab Number: 9811076-05	Sampled: 11/04/98 Received: 11/05/98 Analyzed: 11/13/98 Reported: 11/21/98
Attention: Deidre Kerwin		

QC Batch Number: MS111298MTBEH6A
Instrument ID: H6

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.0	14
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76	114
		95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Deidre Kerwin	Client Proj. ID: Texaco 930 Springtown Blvd Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811076-06	Sampled: 11/04/98 Received: 11/05/98 Analyzed: 11/07/98 Reported: 11/21/98
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Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Peggy Penner
Project Manager





Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Deidre Kerwin

Client Proj. ID: Texaco 930 Springtown Blvd
Sample Descript: MW-5
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9811076-07

Sampled: 11/04/98
Received: 11/05/98

Analyzed: 11/07/98
Reported: 11/21/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	2800
Methyl t-Butyl Ether	25	N.D.
Benzene	5.0	120
Toluene	5.0	14
Ethyl Benzene	5.0	590
Xylenes (Total)	5.0	140
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	83

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849


Peggy Penner
Project Manager





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Texaco 930 Springtown Blvd Sample Descript: MW-5 Matrix: LIQUID Analysis Method: EPA 8260 Lab Number: 9811076-07	Sampled: 11/04/98 Received: 11/05/98 Analyzed: 11/13/98 Reported: 11/21/98
Attention: Deidre Kerwin		

QC Batch Number: MS111298MTBEH6A
Instrument ID: H6

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	10	N.D.
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76 114	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

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Petaluma, CA 94954

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(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Texaco 930 Springtown Blvd
Sample Descript: MW-8
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9811076-08

Sampled: 11/04/98
Received: 11/05/98
Analyzed: 11/07/98
Reported: 11/21/98

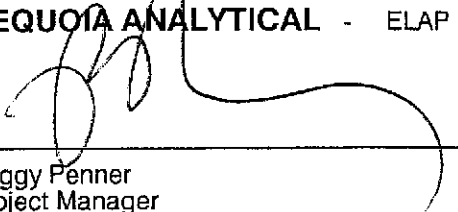
Attention: Deidre Kerwin

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	1.2
Toluene	0.50	100
Ethyl Benzene	0.50	1.9
Xylenes (Total)	0.50	7.8
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	93

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849


Peggy Penner
Project Manager





Sequoia Analytical

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FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Deidre Kerwin

Client Project ID: Texaco 930 Springtown Blvd.
Matrix: Liquid

Work Order #: 9811076 -01-09

Reported: Dec 2, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	11V8150	11V8150	11V8150	11V8150
Analy. Method:	EPA 8015M/8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	-	-	-	-
LCS/LCSD #:	8110051	8110051	8110051	8110051
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/6/98	11/6/98	11/6/98	11/6/98
Analyzed Date:	11/7/98	11/7/98	11/7/98	11/7/98
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	20	20	20	58
LCS % Recovery:	100	100	100	97
Dup. Result:	20	20	20	59
LCSD % Recov.:	100	100	100	98
RPD:	0.0	0.0	0.0	1.7
RPD Limit:	0-30	0-30	0-30	0-30

MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120
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SEQUOIA ANALYTICAL
Lab #1849

Please Note:

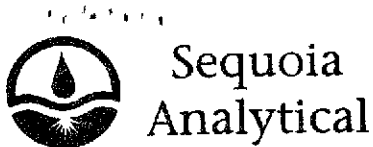
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Peggy Penner
Project Manager

** MS= Matrix Spike, MSD= MS Duplicate, RPD= Relative % Difference

9811076.BLA <1>





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FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Deidre Kerwin

Client Project ID: Texaco 930 Springtown Blvd.
Matrix: Liquid

Work Order #: 9811076-01-02, 05, 07

Reported: Dec 2, 1998

QUALITY CONTROL DATA REPORT

Analyte: MTBE

QC Batch#: MS111298MTBEH6A

Analy. Method: EPA 8260

Prep. Method: N.A.

Analyst: T. Costello

MS/MSD #: 981159802

Sample Conc.: 6.1

Prepared Date: 11/12/98

Analyzed Date: 11/12/98

Instrument I.D.#: H6

Conc. Spiked: 50 µg/L

Result: 50

MS % Recovery: 88

Dup. Result: 50

MSD % Recov.: 88

RPD: 0.0

RPD Limit: 0-25

LCS #: LCS111398

Prepared Date: 11/13/98

Analyzed Date: 11/13/98

Instrument I.D.#: H6

Conc. Spiked: 50 µg/L

LCS Result: 44

LCS % Recov.: 88

MS/MSD 60-140

LCS 70-130

Control Limits

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9811076.BLA <2>

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager





Sequoia
Analytical

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FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Deidre Kerwin

Client Proj. ID: Texaco 930 Springtown Blvd
Lab Proj. ID: 9811076

Received: 11/05/98
Reported: 11/21/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 14 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager





SEQUOIA ANALYTICAL CHAIN OF CUSTODY

680 Chesapeake Drive • Redwood City, CA 94063 • (650) 364-9600 FAX (650) 364-9233
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 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: TRMI EH&S			Project Name: 981104-L1		
Address: Texaco Loc. # 618571050, 930 Springtown Blvd.			Billing Address (if different): 108 Cutting Boulevard		
City: Livermore	State: CA	Zip Code:	Richmond, California 94804		
Telephone: (510) 236-3541		FAX #: (510) 237-7821		P#: engineer: Karen Petryna	
Report To: Deldre Kerwin (BTS)	Sampler:		QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours 98-11-076

Analyses Requested

Drinking Water
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested					Comments	
						TPH-8/BTEX/MTBE	TPH Diesel	O&G/TRPH (418.1)	Nitrate	Sulfate		Total Sulfide
1. MW-A	11-4-98/1205	WATER	3	40ml	01	X						*CONFIRM
2. MW-B	11/4/98		3	HCL	02	X						MTBE BY
3. MW-1	11/3/98		3	VOA	03	X						8260 IF
4. MW-2	11/4/98		3		04	X						DETECTED OR
5. MW-3	11/2/98		3		05	X						IF DETECTION
6. MW-4	11/10/98		3		06	X						LIMIT RAISED
7. MW-5	11/3/98		3		07	X						ABOVE 5 PPB
8. MW-8	11/3/98		3		08	X						
9. EB	11/5/98		3		09	X						
10.												

Relinquished By: <i>[Signature]</i>	Date: 11/5/98	Time: 10:45	Received By: <i>[Signature]</i>	Date: 11/5/98	Time: 10:45
Relinquished By: <i>[Signature]</i>	Date: 11/5/98	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <i>[Signature]</i>	Date: 11/5/98	Time: 13:15

Pink - Client
Yellow - Sequoia
White - Sequoia



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

680 Chesapeake Drive • Redwood City, CA 94063 • (650) 364-9600 FAX (650) 364-9233
 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
 404 N. Wigal Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

P. 002

TEL: 408 573 7771

BLAINE TECH SERVICES, INC

NOV. -06 '98 (FRI) 14:37

Company Name: TRMI BH&S		Project Name: 981104-L1	
Address: Texaco Loc. #618571050, 930 Springtown Blvd.		Billing Address (if different): 108 Cutting Boulevard	
City: Livermore	State: CA	Zip Code:	Richmond, California 94804
Telephone: (510) 236-3541	FAX #: (510) 237-7821	QA: engineer: Karen Petryna	
Report To: Deidre Kerwin (BTS)	Sampler:	QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround <input checked="" type="checkbox"/> 10 Working Days	<input type="checkbox"/> 3 Working Days	<input type="checkbox"/> 2 - 8 Hours	<input type="checkbox"/> Drinking Water
Time: <input type="checkbox"/> 7 Working Days	<input type="checkbox"/> 2 Working Days	<input type="checkbox"/> Other	<input type="checkbox"/> Waste Water
<input type="checkbox"/> 5 Working Days	<input type="checkbox"/> 24 Hours		<input type="checkbox"/> Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested							Comments	
						TRM-8/BTEX/MTBE	TRM Diesel	O&G/TRPH (418.1)	Nitrate	Sulfate	Total Sulfide			
1. MW-A	11-4-98/1205	WATER	3	40ml		X								*CONFIRM
2. MW-B	1/14/5		3	HCL		X								MTBE BY
3. MW-1	1/13/20		3	VOA		X								8260 IF
4. MW-2	1/11/5		3			X								DETECTED OR
5. MW-3	1/22/5		3			X								IF DETECTION
6. MW-4	1/11/0		3			X								LIMIT RAISED
7. MW-5	1/13/5		3			X								ABOVE 5PPB
8. MW-8	1/13/50		3			X								
9. EB	1/11/55		3			X								CANCEL
10.														Need to cancel 2

Relinquished By: <i>[Signature]</i>	Date: 11/15/98	Time: 10:45	Received By: <i>[Signature]</i>	Date: 11/15/98	Time: 10:45
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab:	Date:	Time:

Fink - Client

Yellow - Sequoia

White - Sequoia

Project Name: TEX# 618571050
 Project Number: 981104-L1

Well Gauging Data

Date: 11-4-96
 Recorded By: LAD GILCHRIE

Well ID	TOC Elev.	DTB (ft TOC)	Well Dia. (In.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW-A		16.45	2.0		11.09		
MW-B		21.82	2.0		8.85		
MW-1		25.55	4.0		11.32		
MW-2		22.66	4.0		9.00		
MW-3		24.65	4.0		10.45		
MW-4		25.07	3.0		10.08		
MW-5		21.43	2.0		12.33		
MW-6		ABANDONED		WELL			
MW-7		ABANDONED		WELL			
MW-8		24.21	4.0		15.42		
			X				

TOC = Top of casing
 DTB = Depth to bottom in feet below TOC
 DTP = Depth to product in feet below TOC
 DTW = Depth to water in feet below TOC
 PT = Product thickness in feet

TEXACO WELL MONITORING DATA SHEET

Project #: <u>981104-L1</u>	Texaco ID#: <u>618571050</u>
Sampler: <u>LAD</u>	Date: <u>11-4-98</u>
Well I.D.: <u>MW-A</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>16.45</u>	Depth to Water: <u>11.09</u>
Depth to Free Product: <u> </u>	Thickness of Free Product: <u> </u>
All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.	

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius ² * 0.164

Purge Method: <u>S.S. Bailer</u> Teflon Bailer Middleburg Electric Submersible Extraction Pump Other: <u> </u>	Sampling Method: <u>S.S. Bailer</u> Teflon Bailer Extraction Port Other: <u> </u>
--	---

<u>0.9</u>	x	<u>3</u>	=	<u>2.7</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>1200</u>	<u>70.4</u>	<u>7.1</u>	<u>1300.</u>	<u>>200.</u>	<u>1.</u>	<u>ODOR</u>
<u>1202</u>	<u>70.0</u>	<u>7.1</u>	<u>1400.</u>	<u>>200</u>	<u>2.</u>	<u>LIGHT SHEEN</u>
<u>1204</u>	<u>69.4</u>	<u>7.1</u>	<u>1300.</u>	<u>>200.</u>	<u>3.</u>	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>3</u>
Sampling Time: <u>1205</u>	Sampling Date: <u>11-4-98</u>
Sample I.D.: <u>MW-A</u>	Laboratory: <u>Sequoia</u>
Analyzed for: <u>(Tph-G)</u> <u>(BTEX)</u> Tph-D	Other: <u>MTBE</u>
Equipment Blank I.D.: <u>EBE 1155</u>	Analyzed for same as primary sample <u>AFTER MW-2</u>

TEXACO WELL MONITORING DATA SHEET

Project #: 981104-4	Texaco ID#: 618571050
Sampler: LAD	Date: 11/4/98
Well I.D.: MW-B	Well Diameter: (2) 3 4 6 8
Total Well Depth: 21.82	Depth to Water: 8.85
Depth to Free Product:	Thickness of Free Product:
All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.	

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius ² * 0.164

Purge Method: S.S. Bailer Sampling Method: S.S. Bailer
 Teflon Bailer Teflon Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

Other: _____

<u>2.2</u>	x	<u>3</u>	=	<u>6.6</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1402	68.0	7.2	2000	50.6	2.5	Odor
1406	68.2	7.1	2000	30.6	5.0	SHEEN
1410	68.0	7.1	2000	30.6	7.5	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 7.5
Sampling Time: 1415	Sampling Date: 11/4/98
Sample I.D.: MW-B	Laboratory: BC Analytical
Analyzed for: (Tph-G) (BTEX) Tph-D	Other: MTBE
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: <u>981104-L1</u>	Texaco ID#: <u>618571050</u>
Sampler: <u>LAD</u>	Date: <u>11-4-98</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>25.55</u>	Depth to Water: <u>17.32</u>
Depth to Free Product:	Thickness of Free Product:
All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.	

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	<u>0.66</u>	8"	2.60
4.5"	0.83	Other	radius ² * 0.164

Purge Method: S.S. Bailer Sampling Method: S.S. Bailer
 Teflon Bailer Teflon Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

Other: _____

<u>9.2</u>	x	<u>3</u>	=	<u>27.7</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
3:15 <u>3:15</u>	<u>69.0</u>	<u>7.0</u>	<u>2200</u>	<u>81.2</u>	<u>10</u>	
3:16 <u>4:15</u>	<u>69.0</u>	<u>7.0</u>	<u>2200</u>	<u>63.5</u>	<u>20</u>	
3:17 <u>5:10</u>	<u>69.0</u>	<u>7.0</u>	<u>2200</u>	<u>87.6</u>	<u>30</u>	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>30</u>
Sampling Time: <u>1320</u>	Sampling Date: <u>11-4-98</u>
Sample I.D.: <u>MW-1</u>	Laboratory: <u>Sequoia</u>
Analyzed for: <input checked="" type="checkbox"/> Tph-G <input checked="" type="checkbox"/> BTEX Tph-D	Other: <u>MTBE</u>
Equipment Blank I.D.:	Analyzed for same as primary sample

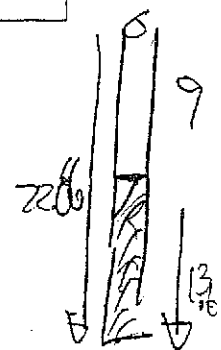
TEXACO WELL MONITORING DATA SHEET

Project #: 981104-L1	Texaco ID#: 618571050
Sampler: LAD	Date: 11/4/98
Well I.D.: MW-2	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 22.66	Depth to Water: 9.00
Depth to Free Product:	Thickness of Free Product:
All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.	

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
④	①.66	8"	2.60
4.5"	0.83	Other	radius ² * 0.164

Purge Method: S.S. Bailer Sampling Method: S.S. Bailer
 Teflon Bailer Teflon Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

Other: _____



9.0 9.0	x	3	=	27.0 27.0 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1135	70.6	7.0	2000.	143.0	9.	
- 1137	69.2	7.0	2300.	135.	18	
- 1139	68.4	7.0	2300.	133.	27.	

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Gallons actually evacuated: 27
Sampling Time: 1145	Sampling Date: 11-4-98
Sample I.D.: MW-2	Laboratory: Sequoia
Analyzed for: Tph-G BTEX Tph-D	Other: MTBE
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 981104-L1	Texaco ID#: 618571050
Sampler: LAD	Date: 11/4/98
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8
Total Well Depth: 21.43	Depth to Water: 12.33
Depth to Free Product:	Thickness of Free Product:
All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.	

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius ² * 0.164

Purge Method: S.S. Bailer Sampling Method: S.S. Bailer
 Teflon Bailer ~~X~~ Teflon Bailer ~~X~~
 Middleburg Extraction Port
 Electric Submersible
 Extraction Pump Other: _____
 Other: _____

1.5	x	3	=	4.5	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
35 340	70.0	7.1	2000	48.9	1.5	odor
35 342	69.6	7.1	2000	7.9	3	
35 345	69.4	7.1	2000	3.3	4.5	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 5.
Sampling Time: 348 1358	Sampling Date: 11-4-98
Sample I.D.: MW-5	Laboratory: BC Analytical
Analyzed for: Tph-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> Tph-D <input type="checkbox"/> Other: MTBE	
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 981104-L1	Texaco ID#: 618571050
Sampler: LAD	Date: 11/4/98
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 24.21	Depth to Water: 15.42
Depth to Free Product:	Thickness of Free Product:
All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.	

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.53	8"	2.60
4.5"	0.83	Other	radius ² * 0.164

Purge Method: <input type="checkbox"/> S.S. Bailer <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Middleburg <input checked="" type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: S.S. Bailer <input checked="" type="checkbox"/> <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Extraction Port Other: _____
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5.8 x 3 = 17.4 Gals.
1 Case Volume (Gals.) Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
13.29	66.6	7.1	2000	64.8	6	
13.35	55.7	7.0	2000	67.0	12	
13.41	75.0	7.1	1900	66.4	18	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 18
Sampling Time: 13:50	Sampling Date: 11-4-98
Sample I.D.: MW-8	Laboratory: Sequoia
Analyzed for: <input checked="" type="checkbox"/> Tph-G <input checked="" type="checkbox"/> BTEX Tph-D	Other: mtBE
Equipment Blank I.D.:	Analyzed for same as primary sample