PACIFIC
ENVIRONMENTAL
GROUP, INC.

AN ENTRIX COMPANY

Ron

July 31, 1998
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 - First and Second Quarter 1998**
Former Texaco Service Station/Current 7-11 Store
930 Springtown Boulevard at Lassen Road
Livermore, California

Dear Ms. Chu:

On behalf of Equilon Enterprises LLC, this letter transmits the results of first and second quarter 1998 groundwater monitoring and sampling conducted at the site referenced above.

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

Sincerely,

Pacific Environmental Group, Inc.

Keith Winemiller, P.E.
Project Engineer

Enclosure

cc: Ms. Karen Petryna, Equiva Services LLC, 108 Cutting Boulevard, Richmond, CA 94804
Mr. Bob DeNinno, The Southland Corporation, 19033 West Valley Highway, D-104, Kent, WA 98032

BLAINE
TECH SERVICES INC.

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

July 22, 1998

Groundwater Monitoring and Sampling
First Quarter and Second 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 February 6 and May 19, 1998 at the site referenced above (see Figure 1, Site Vicinity Map). The gradient maps have been reviewed by a registered professional (see Figure 2 and Figure 4, Groundwater Elevation Contour Map). TPHg and benzene concentrations are shown on Figure 3 and Figure 5. Tables 1 and 2 list historical groundwater monitoring data and analytical results, respectively. As requested by Alameda County Department of Environmental Health, monitoring wells MW-1, MW-2, MW-3, and MW-4 are sampled semi-annually in February and August; monitoring wells MW-A, MW-B, MW-5, and MW-8 are sampled quarterly; and monitoring wells MW-A, MW-B, MW-1, MW-2, MW-3, MW-4, MW-5, and MW-8 are gauged quarterly.

The certified analytical report, chain-of-custody, field data sheets, bill of lading and quarterly summary report are in the Appendix. Equilon Enterprises LLC's Standard Operating Procedures may be found in the fourth quarter, 1994 monitoring report.

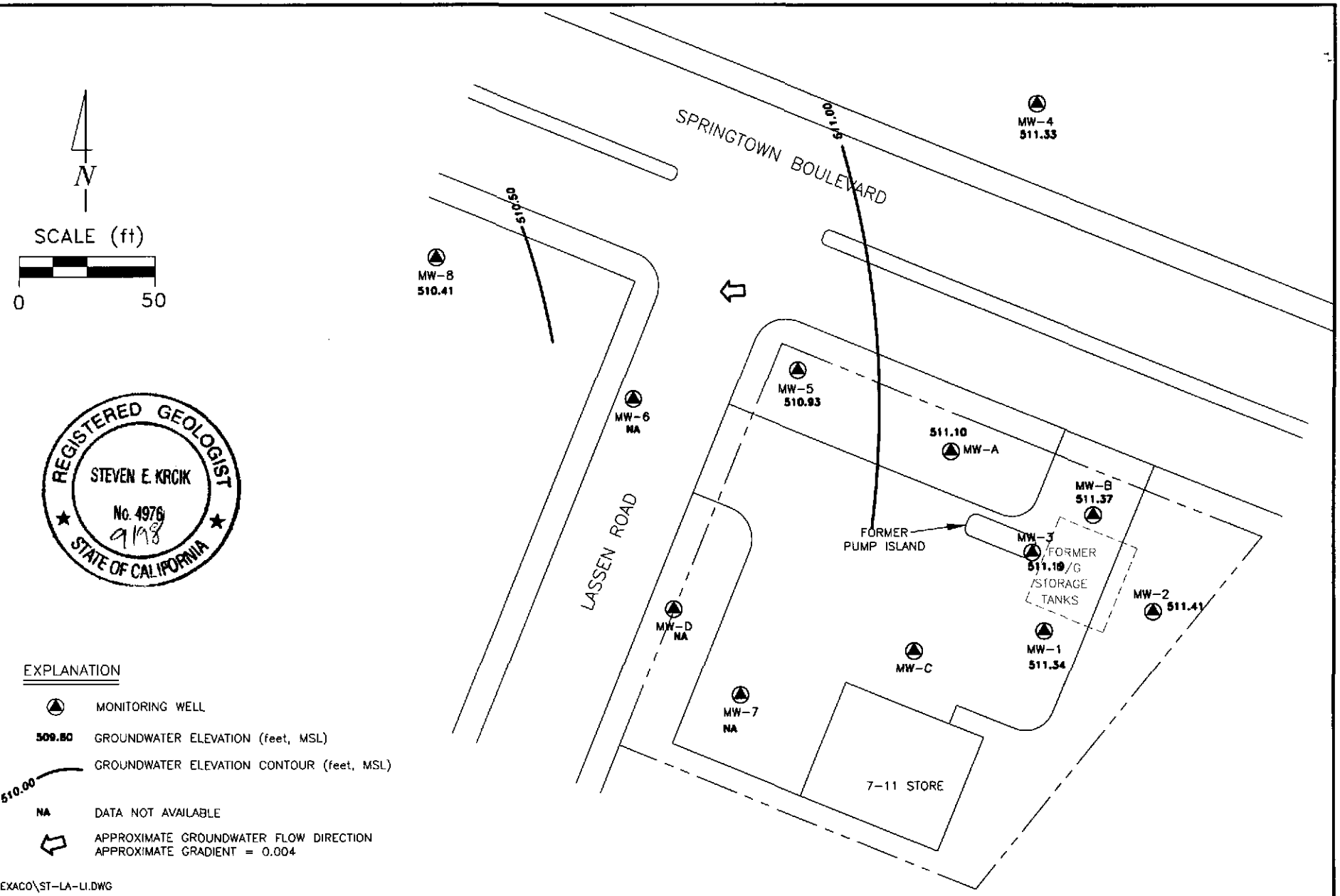
Deidre Kerwin
Operations Manager
Blaine Tech Services, Inc.

DK:mc

Streets Plus

SITE VICINITY MAP

Former Texaco Service Station, 930 Springtown Blvd. / Lassen Rd., Livermore, California



REGISTERED GEOLOGIST
STEVEN E. KRCIK
No. 4976
9/98
STATE OF CALIFORNIA

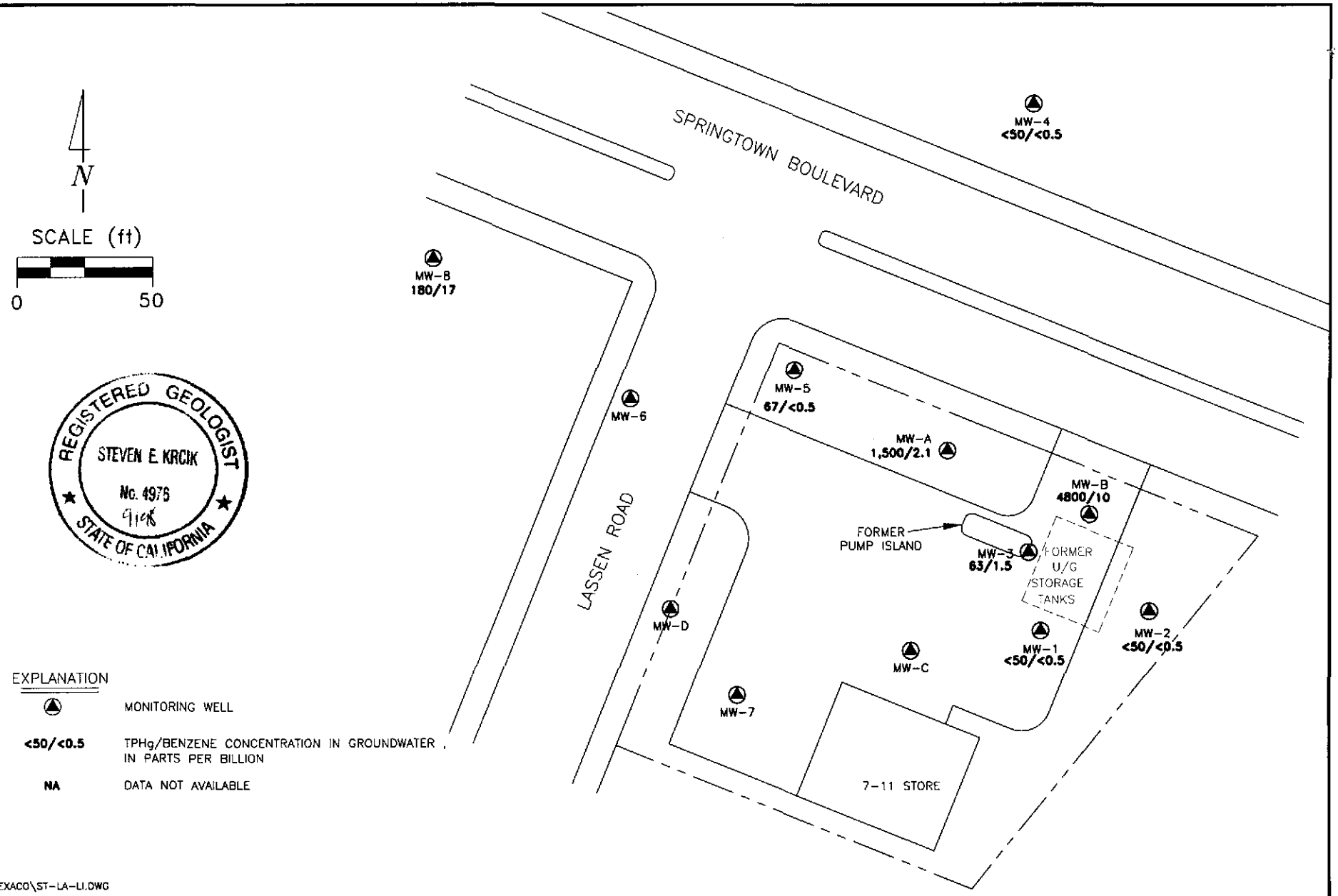
FILE: TEXACO\ST-LA-LI.DWG
Basemap Source: Mattson Engineering Conducted Survey on 8/04/94

PREPARED BY
RRM
engineering contracting firm

Former Texaco Service Station
930 Springtown Boulevard/Lassen Road
Livermore, California

GROUNDWATER ELEVATION
CONTOUR MAP, FEBRUARY 6, 1998

FIGURE:
2
PROJECT:
DAC04



FILE: TEXACO\ST-LA-LI.DWG
Basemap Source: Mattson Engineering Conducted Survey on 8/04/94

PREPARED BY
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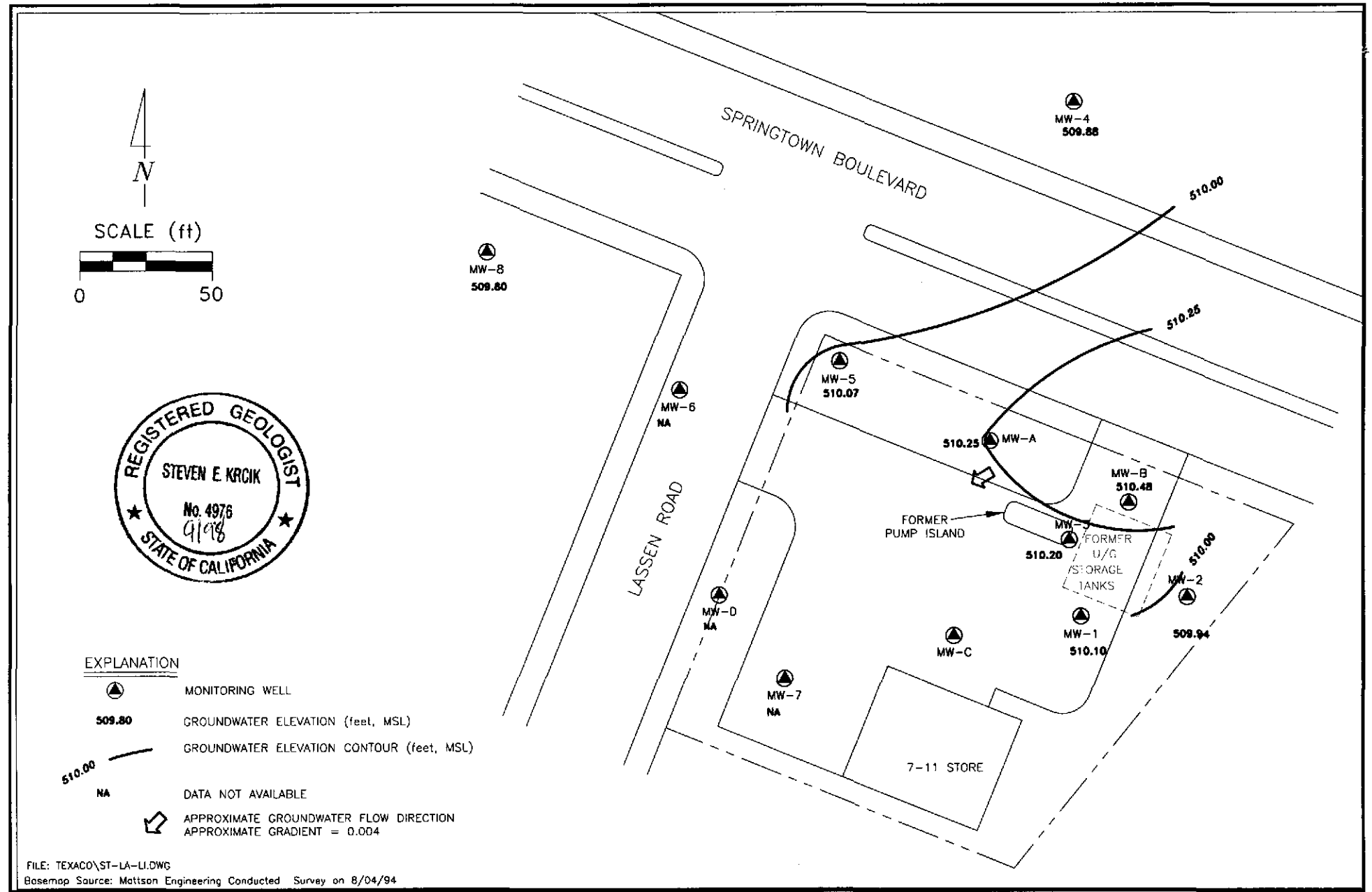
engineering contracting firm

Former Texaco Service Station
930 Springtown Boulevard/Lassen Road
Livermore, California

TPHg/BENZENE CONCENTRATION
IN GROUNDWATER, FEBRUARY 6, 1998

FIGURE:
3
PROJECT:
DAC04



FILE: TEXACO\ST-LA-LI.DWG
Basemap Source: Mattson Engineering Conducted Survey on 8/04/94

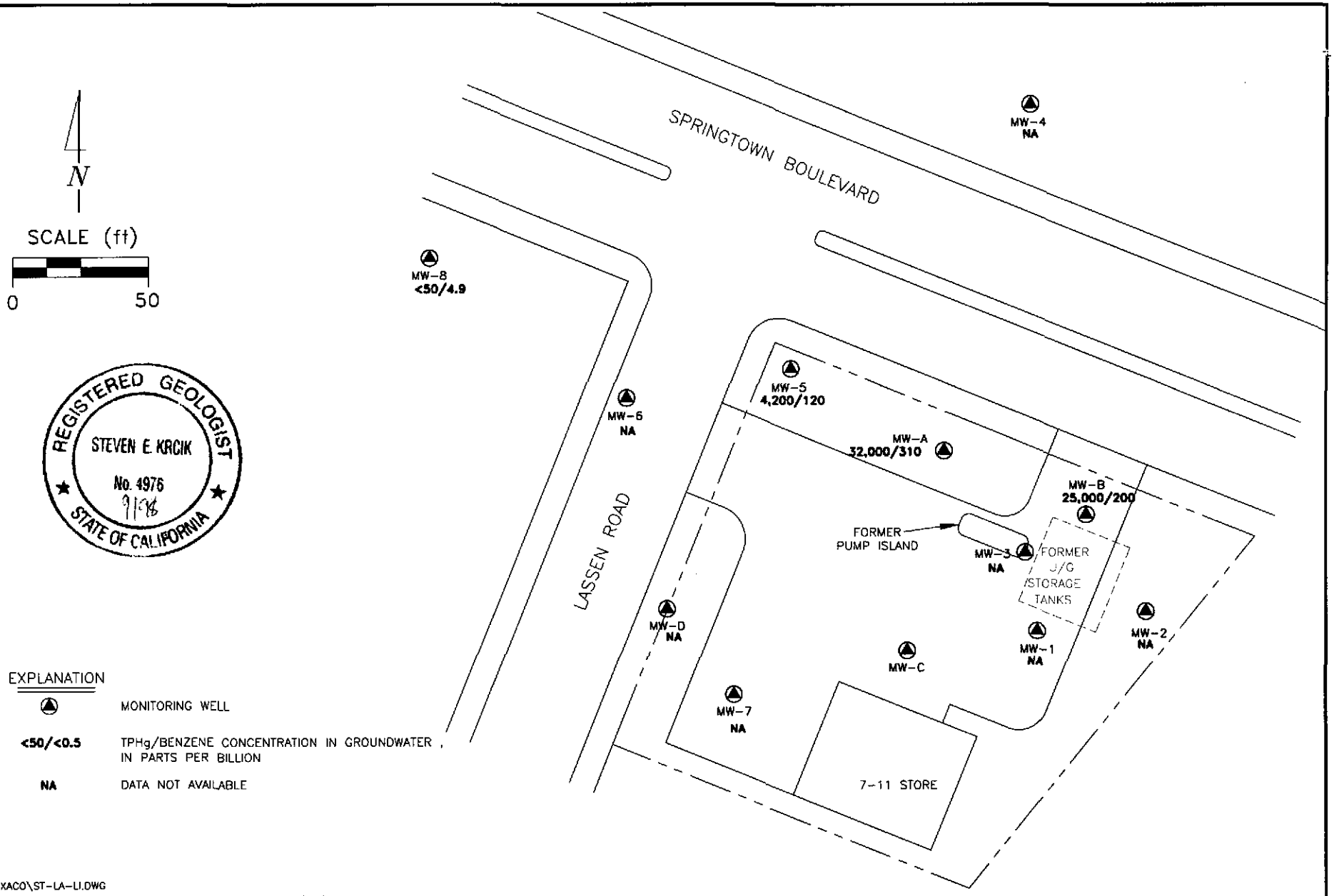
PREPARED BY

RRM
engineering contracting firm

Former Texaco Service Station
930 Springtown Boulevard/Lassen Road
Livermore, California

GROUNDWATER ELEVATION
CONTOUR MAP, MAY 19, 1998

FIGURE:
4
PROJECT:
DAC04



REGISTERED GEOLOGIST
STEVEN E. KRCIK
No. 4976
9/1/98
STATE OF CALIFORNIA

FILE: TEXACO\ST-LA-LI.DWG
Basemap Source: Mattson Engineering Conducted Survey on 8/04/94

PREPARED BY
RRM
engineering contracting firm

Former Texaco Service Station
930 Springtown Boulevard/Lassen Road
Livermore, California

TPHg/BENZENE CONCENTRATION
IN GROUNDWATER, MAY 19, 1998

FIGURE:
5

PROJECT:
DAC04

Table 1
Groundwater Elevation Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-A	01/02/92	520.10	13.61	506.49
MW-A	04/02/92	520.10	12.44	507.66
MW-A	07/21/92	520.10	13.35	506.75
MW-A	10/09/92	520.10	12.92	507.18
MW-A	01/11/93	520.10	11.78	508.32
MW-A	05/05/93	520.10	11.39	508.71
MW-A	08/09/93	520.10	12.80	507.30
MW-A	10/14/93	520.10	13.48	506.62
MW-A	01/24/94	520.10	12.74	507.36
MW-A	05/31/94	520.10	12.28	507.82
MW-A	08/31/94	520.10	13.20	506.90
MW-A	11/02/94	520.10	13.15	506.95
MW-A	02/20/95	520.10	11.71	508.39
MW-A	05/09/95	520.10	12.37	507.73
MW-A	08/21/95	520.10	11.37	508.73
MW-A	10/20/95	520.10	12.04	508.06
MW-A	02/07/96	520.10	10.11	509.99
MW-A	04/30/96	520.10	10.28	509.82
MW-A	08/14/96	520.10	10.82	509.28
MW-A	11/22/96	520.10	10.97	509.13
MW-A	02/14/97	520.10	10.00	510.10
MW-A	05/23/97	520.10	11.36	508.74
MW-A	07/25/97	520.10	11.66	508.44
MW-A	10/31/97	520.10	11.56	508.54
MW-A	02/06/98	520.10	9.00	511.10
MW-A	05/19/98	520.10	9.85	510.25

Table 1
Groundwater Elevation Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-B	01/02/92	518.05	11.27	506.78
MW-B	04/02/92	518.05	10.18	507.87
MW-B	07/21/92	518.05	11.27	506.78
MW-B	10/09/92	518.05	11.64	506.41
MW-B	01/11/93	518.05	9.65	508.40
MW-B	05/05/93	518.05	9.28	508.77
MW-B	08/09/93	518.05	11.02	507.03
MW-B	10/14/93	518.05	11.34	506.71
MW-B	01/24/94	518.05	10.54	507.51
MW-B	05/31/94	518.05	10.19	507.86
MW-B	08/31/94	518.05	10.98	507.07
MW-B	11/02/94	518.05	10.90	507.15
MW-B	02/20/95	518.05	9.47	508.58
MW-B	05/09/95	518.05	10.58	507.47
MW-B	08/21/95	518.05	9.34	508.71
MW-B	10/20/95	518.05	9.83	508.22
MW-B	02/07/96	518.05	7.85	510.20
MW-B	04/30/96	518.05	8.02	510.03
MW-B	08/14/96	518.05	8.66	509.39
MW-B	11/22/96	518.05	8.70	509.35
MW-B	02/14/97	518.05	7.75	510.30
MW-B	05/23/97	518.05	9.05	509.00
MW-B	07/25/97	518.05	9.37	508.68
MW-B	10/31/97	518.05	9.29	508.76
MW-B	02/06/98	518.05	6.68	511.37
MW-B	05/19/98	518.05	7.57	510.48

Table 1
Groundwater Elevation Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-1	01/02/92	520.61	14.11	506.50
MW-1	04/02/92	520.61	12.98	507.63
MW-1	07/21/92	520.61	13.92	506.69
MW-1	10/09/92	520.61	14.25	506.36
MW-1	01/11/93	520.61	12.30	508.31
MW-1	05/05/93	520.61	11.88	508.73
MW-1	08/09/93	520.61	13.63	506.98
MW-1	10/14/93	520.61	13.91	506.70
MW-1	01/24/93	520.61	13.12	507.49
MW-1	05/31/94	520.61	12.74	507.87
MW-1	08/31/94	520.61	13.68	506.93
MW-1	11/02/94	520.61	13.48	507.13
MW-1	02/20/95	520.61	12.02	508.59
MW-1	05/09/95	520.61	12.83	507.78
MW-1	08/21/95	520.61	11.93	508.68
MW-1	10/20/95	520.61	12.40	508.21
MW-1	02/07/96	520.61	10.42	510.19
MW-1	04/30/96	520.61	10.48	510.13
MW-1	08/14/96	520.61	11.18	509.43
MW-1	11/22/96	520.61	11.10	509.51
MW-1	02/14/97	520.61	10.25	510.36
MW-1	05/23/97	520.61	11.48	509.13
MW-1	07/25/97	520.61	11.99	508.62
MW-1	10/31/97	520.61	11.74	508.87
MW-1	02/06/98	520.61	9.27	511.34
MW-1	05/19/98	520.61	10.51	510.10
MW-2	01/02/92	518.29	11.96	506.33
MW-2	04/02/92	518.29	10.89	507.40
MW-2	07/21/92	518.29	11.55	506.74
MW-2	05/31/94	518.29	10.37	507.92
MW-2	08/31/94	518.29	11.16	507.13
MW-2	11/02/94	518.29	11.07	507.22
MW-2	02/20/95	518.29	9.66	508.63
MW-2	05/09/95	518.29	10.14	508.15
MW-2	08/21/95	518.29	9.58	508.71
MW-2	10/20/95	518.29	9.91	508.38
MW-2	02/07/96	518.29	8.00	510.29
MW-2	04/30/96	518.29	8.21	510.08
MW-2	08/14/96	518.29	8.88	509.41
MW-2	11/22/96	518.29	8.88	509.41
MW-2	02/14/97	518.29	7.92	510.37
MW-2	05/23/97	518.29	9.25	509.04
MW-2	07/25/97	518.29	9.51	508.78
MW-2	10/31/97	518.29	9.30	508.99
MW-2	02/06/98	518.29	6.88	511.41
MW-2	05/19/98	518.29	8.35	509.94

Table 1
Groundwater Elevation Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-3	01/02/92	519.60	12.87	506.73
MW-3	04/02/92	519.60	11.97	507.63
MW-3	07/21/92	519.60	12.60	507.00
MW-3	10/09/92	519.60	12.93	506.67
MW-3	01/11/93	519.60	11.16	508.44
MW-3	05/05/93	519.60	10.72	508.88
MW-3	08/09/93	519.60	12.34	507.26
MW-3	10/14/93	519.60	12.71	506.89
MW-3	01/24/94	519.60	12.03	507.57
MW-3	05/31/94	519.60	11.54	508.06
MW-3	08/31/94	519.60	12.60	507.00
MW-3	11/02/94	519.60	12.16	507.44
MW-3	02/20/95	519.60	11.05	508.55
MW-3	05/09/95	519.60	11.97	507.63
MW-3	08/21/95	519.60	7.60	512.00
MW-3	10/20/95	519.60	11.46	508.14
MW-3	02/07/96	519.60	9.42	510.18
MW-3	04/30/96	519.60	9.60	510.00
MW-3	08/14/96	519.60	10.24	509.36
MW-3	11/22/96	519.60	10.34	509.26
MW-3	02/14/97	519.60	9.38	510.22
MW-3	05/23/97	519.60	10.67	508.93
MW-3	07/25/97	519.60	11.11	508.49
MW-3	10/31/97	519.60	10.86	508.74
MW-3	02/06/98	519.60	8.41	511.19
MW-3	05/19/98	519.60	9.40	510.20

Table 1
Groundwater Elevation Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-4	01/02/92	518.79	12.22	506.57
MW-4	04/02/92	518.79	11.03	507.76
MW-4	07/21/92	518.79	12.36	506.43
MW-4	10/09/92	518.79	12.40	506.39
MW-4	01/11/93	518.79	10.72	508.07
MW-4	05/05/93	518.79	10.21	508.58
MW-4	08/09/93	518.79	12.25	506.54
MW-4	10/14/93	518.79	12.58	506.21
MW-4	01/24/94	518.79	11.72	507.07
MW-4	05/31/94	518.79	11.29	507.50
MW-4	08/31/94	518.79	12.00	506.79
MW-4	11/02/94	518.79	11.96	506.83
MW-4	02/20/95	518.79	10.42	508.37
MW-4	05/09/95	518.79	11.22	507.57
MW-4	08/21/95	518.79	10.51	508.28
MW-4	10/20/95	518.79	10.86	507.93
MW-4	02/07/96	518.79	8.93	509.86
MW-4	04/30/96	518.79	9.03	509.76
MW-4	08/14/96	518.79	9.84	508.95
MW-4	11/22/96	518.79	9.73	509.06
MW-4	02/14/97	518.79	8.85	509.94
MW-4	05/23/97	518.79	10.15	508.64
MW-4	07/25/97	518.79	10.61	508.18
MW-4	10/31/97	518.79	10.36	508.43
MW-4	02/06/98	518.79	7.46	511.33
MW-4	05/19/98	518.79	8.91	509.88

Table 1
Groundwater Elevation Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-5	01/02/92	521.19	14.56	506.63
MW-5	04/02/92	521.19	13.58	507.61
MW-5	07/21/92	521.19	13.77	507.42
MW-5	10/09/92	521.19	14.09	507.10
MW-5	01/11/93	521.19	12.24	508.95
MW-5	05/05/93	521.19	11.90	509.29
MW-5	08/09/93	521.19	13.35	507.84
MW-5	10/14/93	521.19	13.89	507.30
MW-5	01/24/94	521.19	13.32	507.87
MW-5	05/31/94	521.19	12.75	508.44
MW-5	08/31/94	521.19	14.34	506.85
MW-5	11/02/94	521.19	14.22	506.97
MW-5	02/20/95	521.19	12.78	508.41
MW-5	05/09/95	521.19	13.41	507.78
MW-5	08/21/95	521.19	12.32	508.87
MW-5	10/20/95	521.19	13.28	507.91
MW-5	02/07/96	521.19	11.31	509.88
MW-5	04/30/96	521.19	11.52	509.67
MW-5	08/14/96	521.19	12.03	509.16
MW-5	11/22/96	521.19	12.22	508.97
MW-5	02/14/97	521.19	11.20	509.99
MW-5	05/23/97	521.19	12.55	508.64
MW-5	07/25/97	521.19	12.93	508.26
MW-5	10/31/97	521.19	12.78	508.41
MW-5	02/06/98	521.19	10.26	510.93
MW-5	05/19/98	521.19	11.12	510.07
MW-6	01/02/92	522.18	16.64	505.54
MW-6	04/02/91	522.18	15.61	506.57
MW-6	07/21/92	522.18	15.53	506.65
MW-6	10/09/92	522.18	15.69	506.49
MW-6	08/09/93	522.18	14.50	507.68
MW-6	10/14/93	522.18	NM	NM
MW-6	01/24/94	522.18	15.09	507.09
MW-6	05/31/94	522.18	14.64	507.54
MW-6	08/31/94	522.18	15.32	506.86
MW-6	11/02/94	522.18	15.32	506.86
MW-6	02/20/95	522.18	14.07	508.11
MW-6	05/09/95	522.18	14.30	507.88
MW-6	08/21/95	522.18	NM	NM
MW-6	10/20/95	522.18	14.31	NM
MW-6	07/25/97	No Longer Monitored		

Table 1
Groundwater Elevation Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-7	01/02/92	522.19	11.17	511.02
MW-7	04/02/92	522.19	10.34	511.85
MW-7	07/21/92	522.19	9.02	513.17
MW-7	05/31/94	522.19	9.42	512.77
MW-7	08/31/94	522.19	6.84	515.35
MW-7	11/02/94	522.19	6.48	515.71
MW-7	02/20/95	522.19	7.71	514.48
MW-7	05/09/95	522.19	7.65	514.54
MW-7	08/21/95	522.19	7.83	514.36
MW-7	10/20/95	522.19	8.61	513.58
MW-7	07/25/97	No Longer Monitored		
MW-8	01/02/92	524.03	18.42	505.61
MW-8	04/02/92	524.03	17.39	506.64
MW-8	07/21/92	524.03	14.02	510.01
MW-8	05/31/94	524.03	19.65	504.38
MW-8	08/31/94	524.03	17.40	506.63
MW-8	11/02/94	524.03	17.38	506.65
MW-8	02/20/95	524.03	15.99	508.04
MW-8	05/09/95	524.03	16.54	507.49
MW-8	08/21/95	524.03	15.77	508.26
MW-8	10/20/95	524.03	16.24	507.79
MW-8	02/07/96	524.03	14.42	509.61
MW-8	04/30/96	524.03	14.65	509.38
MW-8	08/14/96	524.03	15.08	508.95
MW-8	11/22/96	524.03	15.35	508.68
MW-8	02/14/97	524.03	14.32	509.71
MW-8	05/23/97	524.03	13.35	510.68
MW-8	07/25/97	524.03	16.05	507.98
MW-8	10/31/97	524.03	15.86	508.17
MW-8	02/06/98	524.03	13.62	510.41
MW-8	05/19/98	524.03	14.23	509.80
NM = Not Measured				
TOC = Top of Casing				
MSL = Mean Sea Level				

Table 2
Groundwater Analytical Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-A	01/02/92	NS	NS	NS	NS	NS	NS
MW-A	04/02/92	27000	1200	570	1700	2300	NS
MW-A	07/21/92	57000	1500	1800	2700	7100	NS
MW-A	10/09/92	56000	2900	2600	4600	12000	NS
MW-A	01/24/94	1400000	6900	2100	15000	38000	NS
MW-A	05/31/94	48000	1200	900	1900	4200	NS
MW-A	08/31/94	24000	140	120	830	1500	NS
MW-A	11/02/94	15000	230	360	1100	1800	NS
MW-A	02/20/95	12000	290	330	570	1300	NS
MW-A	05/09/95	1200	6.1	5.9	12	15	NS
MW-A	08/21/95	9600	85	140	250	860	160
MW-A	10/20/95	360	5.2	7.9	15	43	NS
MW-A	02/07/96	6100	130	180	320	840	NS
MW-A	04/30/96	410	1.2	0.67	1.2	1.5	NS
MW-A	08/14/96	3000	65	75	170	460	57
MW-A	11/22/96	6300	100	170	310	710	64
MW-A	02/14/97	8100	140	180	700	1600	<300
MW-A	05/23/97	24000	340	520	1600	3800	<2000
MW-A	07/25/97	440	<0.5	<0.5	<0.5	<0.5	<30
MW-A	10/31/97	3700	21	48	200	430	35
MW-A	02/06/98	1500	2.1	4.4	55	77	<30
MW-A	05/19/98	32000	310	380	1800	3700	1300
MW-B	01/02/92	NS	NS	NS	NS	NS	NS
MW-B	04/02/92	1900	ND	39	24	35	NS
MW-B	07/21/92	16000	180	1600	270	1100	NS
MW-B	10/09/92	38000	490	8300	1400	5100	NS
MW-B	01/24/94	23000	110	1700	600	1900	NS
MW-B	05/31/94	13000	780	310	370	1400	NS
MW-B	08/31/94	35000	160	2800	1000	4500	NS
MW-B	11/02/94	2500	170	3200	1100	4700	NS
MW-B	02/20/95	10000	46	1400	330	1200	NS
MW-B	05/09/95	4100	9.1	47	26	30	NS
MW-B	08/21/95	4000	9.6	110	120	270	98
MW-B	10/20/95	9300	35	1300	370	1300	NS
MW-B	02/07/96	8900	33	700	110	360	NS
MW-B	04/30/96	5500	17	460	120	400	NS
MW-B	08/14/96	9000	<5	260	120	320	<300
MW-B	11/22/96	560000	56	2400	1600	5500	<3000
MW-B	02/14/97	4600	5.2	110	72	210	<300
MW-B	05/23/97	34000	75	1700	590	2100	1800
MW-B	07/25/97	39000	250	5200	1600	5900	<800
MW-B	10/31/97	36000	130	2600	1200	4800	<800
MW-B	02/06/98	4800	10	120	72	200	<80
MW-B	05/19/98	25000	200	900	410	1600	570

Table 2
Groundwater Analytical Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-1	01/02/92	16	6	ND	ND	ND	NS
MW-1	04/02/92	ND	ND	ND	ND	ND	NS
MW-1	07/21/92	<50	3.2	<0.5	<0.5	<0.5	NS
MW-1	10/09/92	<50	8.5	<0.5	<0.5	<0.5	NS
MW-1	01/11/93	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-1	05/05/93	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-1	08/09/93	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-1	10/14/93	440	16	2.9	2.9	11	NS
MW-1	05/31/94	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-1	08/31/94	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-1	11/02/94	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-1	02/20/95	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-1	05/09/95	450	22	25	23	100	NS
MW-1	08/21/95	58	<0.5	1.5	1.8	4.5	<10
MW-1	10/20/95	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-1	02/07/96	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-1	04/30/96	NS	NS	NS	NS	NS	NS
MW-1	08/14/96	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-1	11/22/96	NS	NS	NS	NS	NS	NS
MW-1	02/14/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-1	05/23/97	NS	NS	NS	NS	NS	NS
MW-1	07/25/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-1	10/31/97	NS	NS	NS	NS	NS	NS
MW-1	02/06/98	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-1	05/19/98	NS	NS	NS	NS	NS	NS

Table 2
Groundwater Analytical Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-2	01/02/92	ND	ND	ND	ND	ND	NS
MW-2	04/02/91	ND	ND	ND	ND	ND	NS
MW-2	07/21/92	NS	NS	NS	NS	NS	NS
MW-2	10/09/92	NS	NS	NS	NS	NS	NS
MW-2	01/11/93	NS	NS	NS	NS	NS	NS
MW-2	05/05/93	NS	NS	NS	NS	NS	NS
MW-2	08/09/93	NS	NS	NS	NS	NS	NS
MW-2	10/14/93	NS	NS	NS	NS	NS	NS
MW-2	01/24/94	NS	NS	NS	NS	NS	NS
MW-2	05/31/94	NS	NS	NS	NS	NS	NS
MW-2	08/31/94	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-2	11/02/94	NS	NS	NS	NS	NS	NS
MW-2	02/20/95	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-2	05/09/95	NS	NS	NS	NS	NS	NS
MW-2	08/21/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-2	10/20/95	NS	NS	NS	NS	NS	NS
MW-2	02/07/96	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-2	04/30/96	NS	NS	NS	NS	NS	NS
MW-2	08/14/96	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-2	11/22/96	NS	NS	NS	NS	NS	NS
MW-2	02/14/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-2	05/23/97	NS	NS	NS	NS	NS	NS
MW-2	07/25/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-2	10/31/97	NS	NS	NS	NS	NS	NS
MW-2	02/06/98	<50	<0.5	<0.5	<0.5	1.4	<30
MW-2	05/19/98	NS	NS	NS	NS	NS	NS

Table 2
Groundwater Analytical Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-3	01/02/92	340	0.4	ND	ND	ND	NS
MW-3	04/02/92	160	5	ND	0.3	0.5	NS
MW-3	07/21/92	260	1.7	<0.5	<0.5	<0.5	NS
MW-3	10/09/92	88	<0.5	<0.5	<0.5	<0.5	NS
MW-3	01/11/93	130	<0.5	<0.5	<0.5	<0.5	NS
MW-3	05/05/93	340	1.8	<0.5	1.3	<0.5	NS
MW-3	08/09/93	610	18	<0.5	2.4	0.9	NS
MW-3	10/14/93	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-3	01/24/94	320	3.5	<0.5	<0.5	<0.5	NS
MW-3	05/31/94	830	11	12	5.0	1.2	NS
MW-3	08/31/94	660	2	<0.5	1	<0.5	NS
MW-3	11/02/94	1500	260	36	34	76	NS
MW-3	02/20/95	410	1.2	1.9	1.4	2.2	NS
MW-3	05/09/95	730	23	43	21	95	NS
MW-3	08/21/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-3	10/20/95	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-3	02/07/96	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-3	04/30/96	NS	NS	NS	NS	NS	NS
MW-3	08/14/96	<50	<0.5	0.60	<0.5	<0.5	<30
MW-3	11/22/96	NS	NS	NS	NS	NS	NS
MW-3	02/14/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-3	05/23/97	NS	NS	NS	NS	NS	NS
MW-3	07/25/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-3	10/31/97	NS	NS	NS	NS	NS	NS
MW-3	02/06/98	63	1.5	2.8	0.77	8.6	<30
MW-3	05/19/98	NS	NS	NS	NS	NS	NS

Table 2
Groundwater Analytical Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-4	01/02/92	ND	ND	ND	ND	ND	NS
MW-4	04/02/92	ND	ND	ND	ND	ND	NS
MW-4	07/21/92	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-4	10/09/92	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-4	01/11/93	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-4	05/05/93	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-4	08/09/93	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-4	10/14/93	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-4	01/24/94	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-4	05/31/94	NS	NS	NS	NS	NS	NS
MW-4	08/31/94	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-4	11/02/94	NS	NS	NS	NS	NS	NS
MW-4	02/20/95	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-4	05/09/95	NS	NS	NS	NS	NS	NS
MW-4	08/21/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-4	10/20/95	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-4	02/07/96	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-4	04/30/96	NS	NS	NS	NS	NS	NS
MW-4	08/14/96	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-4	11/22/96	NS	NS	NS	NS	NS	NS
MW-4	02/14/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-4	05/23/97	NS	NS	NS	NS	NS	NS
MW-4	07/25/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-4	10/31/97	NS	NS	NS	NS	NS	NS
MW-4	02/06/98	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-4	05/19/98	NS	NS	NS	NS	NS	NS

Table 2
Groundwater Analytical Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-5	01/02/92	1800	74	41	84	94	NS
MW-5	04/02/92	ND	ND	ND	ND	ND	NS
MW-5	07/21/92	1000	69	16	40	31	NS
MW-5	10/09/92	3400	890	51	110	110	NS
MW-5	01/11/93	15000	460	110	900	370	NS
MW-5	05/05/93	4500	160	19	280	110	NS
MW-5	08/09/93	2300	180	19	130	80	NS
MW-5	10/14/93	2200	160	27	90	64	NS
MW-5	01/24/94	2600	69	11	65	25	NS
MW-5	05/31/94	3100	130	64	140	120	NS
MW-5	08/31/94	600	20	2.9	14	7.1	NS
MW-5	11/02/94	2300	68	18	52	54	NS
MW-5	02/20/95	12000	130	<30	240	138	NS
MW-5	05/09/95	2500	57	60	54	37	NS
MW-5	08/21/95	11000	91	28	140	120	<100
MW-5	10/20/95	2300	38	3.8	28	19	NS
MW-5	02/07/96	1800	35	8.1	37	20	NS
MW-5	04/30/96	NS	NS	NS	NS	NS	NS
MW-5	08/14/96	3500	130	22	170	47	71
MW-5	11/22/96	3500	160	15	190	28	<200
MW-5	02/14/97	2900	150	54	330	68	<300
MW-5	05/23/97	10000	170	98	380	68	<200
MW-5	07/25/97	2700	110	<0.5	33	<0.5	<30
MW-5	10/31/97	NS	NS	NS	NS	NS	NS
MW-5	02/06/98	67	<0.5	<0.5	<0.5	<0.5	<30
MW-5	05/19/98	4200	120	25	360	76	510
MW-6	01/02/92	23	ND	0.3	0.6	3	NS
MW-6	04/02/92	ND	ND	ND	ND	ND	NS
MW-6	07/21/92	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-6	10/09/92	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-6	01/11/93	NS	NS	NS	NS	NS	NS
MW-6	05/05/93	NS	NS	NS	NS	NS	NS
MW-6	08/09/93	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-6	10/14/93	NS	NS	NS	NS	NS	NS
MW-6	01/24/94	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-6	05/31/94	NS	NS	NS	NS	NS	NS
MW-6	08/31/94	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-6	11/02/94	NS	NS	NS	NS	NS	NS
MW-6	02/20/95	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-6	07/25/97	NS	NS	NS	NS	NS	NS
MW-6	10/31/97	NS	NS	NS	NS	NS	NS
MW-6	02/06/98	No Longer Sampled					

Table 2
Groundwater Analytical Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-7	01/02/92	NS	NS	NS	NS	NS	NS
MW-7	04/02/92	ND	ND	ND	ND	ND	NS
MW-7	07/25/97	NS	NS	NS	NS	NS	NS
MW-7	10/31/97	NS	NS	NS	NS	NS	NS
MW-7	02/06/98	No Longer Sampled					
MW-8	01/02/92	12000	32	980	200	760	NS
MW-8	04/02/92	ND	ND	ND	ND	ND	NS
MW-8	07/21/92	NS	NS	NS	NS	NS	NS
MW-8	10/09/93	NS	NS	NS	NS	NS	NS
MW-8	01/11/93	NS	NS	NS	NS	NS	NS
MW-8	05/05/93	NS	NS	NS	NS	NS	NS
MW-8	08/09/93	NS	NS	NS	NS	NS	NS
MW-8	10/14/93	NS	NS	NS	NS	NS	NS
MW-8	01/24/94	NS	NS	NS	NS	NS	NS
MW-8	05/31/94	NS	NS	NS	NS	NS	NS
MW-8	08/31/94	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-8	11/02/94	NS	NS	NS	NS	NS	NS
MW-8	02/20/95	<50	<0.5	<0.5	<0.5	<0.5	NS
MW-8	05/09/95	NS	NS	NS	NS	NS	NS
MW-8	08/21/95	<50	<0.5	<0.5	0.67	0.62	<10
MW-8	10/20/95	NS	NS	NS	NS	NS	NS
MW-8	02/07/96	<50	7.0	<0.5	<0.5	<0.5	NS
MW-8	04/30/96	61	9.6	<0.5	<0.5	<0.5	NS
MW-8	08/14/96	<50	0.73	<0.5	<0.5	<0.5	<30
MW-8	11/22/96	120	5.9	2.2	2.4	8.3	<30
MW-8	02/14/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-8	05/23/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-8	07/25/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-8	10/31/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-8	02/06/98	180	17	<0.5	<0.5	6.0	<30
MW-8	05/19/98	<50	4.9	<0.5	<0.5	<0.5	<2.5
MTBE = Methyl-tert-butylether							
TPHg = Total Petroleum Hydrocarbons as gasoline							
ppb = parts per billion							
NS = Not Sampled							

ANALYTICAL REPORT

Our Quality Control Is Your Quality Assurance

LOG NO: G98-02-192

Received: 09 FEB 98

Mailed: FEB 25 1998

Ms. Rebecca Digerness
Texaco Refining and Marketing
108 Cutting Boulevard
Richmond, CA 94804

Purchase Order: 94-1446346+4370

Requisition: 618571050
Project: FKEP9023L

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
02-192-1	MW-A	06 FEB 98
02-192-2	MW-B	06 FEB 98
02-192-3	MW-1	06 FEB 98
02-192-4	MW-2	06 FEB 98
02-192-5	MW-3	06 FEB 98

PARAMETER	02-192-1	02-192-2	02-192-3	02-192-4	02-192-5
GRO (8015M.TX)					
Date Analyzed	02/13/98	02/13/98	02/10/98	02/10/98	02/10/98
Dilution Factor, Times	1	2.5	1	1	1
Benzene, ug/L	2.1	10	<0.5	<0.5	1.5
Toluene, ug/L	4.4	120	<0.5	<0.5	2.8
Ethylbenzene, ug/L	55	72	<0.5	<0.5	0.77
Methyl-tert-butylether, ug/L	<30	<80	<30	<30	<30
Total Xylene Isomers, ug/L	77	200	<0.5	1.4	8.6
Carbon Range, .	C6-C12	C6-C12	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range), ug/L	1500	4800	<50	<50	63
Other GRO (8015M.TX)	---	---	---	---	---
Surrogates **					
a,a,a-Trifluorotoluene Rep., ug/L	48.0	124	50.8	50.8	51.0
a,a,a-Trifluorotoluene Th., ug/L	50.0	125	50.0	50.0	50.0
Data Review , Date	02/24/98	02/24/98	02/24/98	02/24/98	02/24/98

LOG NO: G98-02-192

Received: 09 FEB 98

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108 Cutting Boulevard
Richmond, CA 94804

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
02-192-6	MW-4	06 FEB 98
02-192-7	MW-5	06 FEB 98
02-192-8	MW-8	06 FEB 98

PARAMETER	02-192-6	02-192-7	02-192-8
GRO (8015M.TX)			
Date Analyzed	02/10/98	02/11//98	02/10/98
Dilution Factor, Times	1	1	1
Benzene, ug/L	<0.5	<0.5	17
Toluene, ug/L	<0.5	<0.5	<0.5
Ethylbenzene, ug/L	<0.5	<0.5	<0.5
Methyl-tert-butylether, ug/L	<30	30	<30
Total Xylene Isomers, ug/L	<0.5	<0.5	6.0
Carbon Range, .	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range), ug/L	<50	67	180
Other GRO (8015M.TX)	---	---	---
Surrogates **			
a,a,a-Trifluorotoluene Rep., ug/L	52.9	52.3	50.7
a,a,a-Trifluorotoluene Th., ug/L	50.0	50.0	50.0
Data Review , Date	02/24/98	02/24/98	02/24/98

LOG NO: G98-02-192

Received: 09 FEB 98

Ms. Rebecca Digerness
Texaco Refining and Marketing
108 Cutting Boulevard
Richmond, CA 94804

Purchase Order: 94-1446346+4370

Requisition: 618571050
Project: FKEP9023L

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
02-192-9	EB	06 FEB 98

PARAMETER	02-192-9
GRO (8015M.TX)	
Date Analyzed	02/10/98
Dilution Factor, Times	1
Benzene, ug/L	<0.5
Toluene, ug/L	<0.5
Ethylbenzene, ug/L	<0.5
Methyl-tert-butylether, ug/L	<30
Total Xylene Isomers, ug/L	<0.5
Carbon Range, .	C6-C12
TPH (Gasoline Range), ug/L	<50
Other GRO (8015M.TX)	---
Surrogates **	
a,a,a-Trifluorotoluene Rep., ug/L	54.0
a,a,a-Trifluorotoluene Th., ug/L	50.0
Data Review , Date	02/24/98

LOG NO: G98-02-192

Received: 09 FEB 98

Ms. Rebecca Digerness
Texaco Refining and Marketing
108 Cutting Boulevard
Richmond, CA 94804

Purchase Order: 94-1446346+4370

Requisition: 618571050
Project: FKEP9023L

REPORT OF ANALYTICAL RESULTS

Karen Petryna
930 Springtown Blvd., Livremore

Fred Haley, Laboratory Director

: ORDER PLACED FOR CLIENT: Texaco Refining and Marketing 9802192 :
: VOC ANALYTICAL : GLEN LAB : 14:27:57 24 FEB 1998 - P. 1 :

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9802192*1	MW-A	GAS.MTBE.TESNC	02.13.98	8015M.TX	536-23	985023	7424
		DATA.REVIEW	02.24.98				
9802192*2	MW-B	GAS.MTBE.TESNC	02.13.98	8015M.TX	536-23	985023	7424
		DATA.REVIEW	02.24.98				7524
9802192*3	MW-1	GAS.MTBE.TESNC	02.10.98	8015M.TX	536-21	984023	7424
		DATA.REVIEW	02.24.98				7524
9802192*4	MW-2	GAS.MTBE.TESNC	02.10.98	8015M.TX	536-21	984023	7424
		DATA.REVIEW	02.24.98				7524
9802192*5	MW-3	GAS.MTBE.TESNC	02.10.98	8015M.TX	536-21	984023	7424
		DATA.REVIEW	02.24.98				7524
9802192*6	MW-4	GAS.MTBE.TESNC	02.10.98	8015M.TX	536-21	984023	7424
		DATA.REVIEW	02.24.98				7524
9802192*7	MW-5	GAS.MTBE.TESNC	02.11.98	8015M.TX	536-23	985022	7424
		DATA.REVIEW	02.24.98				7524
9802192*8	MW-8	GAS.MTBE.TESNC	02.10.98	8015M.TX	536-21	984023	7424
		DATA.REVIEW	02.24.98				7524
9802192*9	EB	GAS.MTBE.TESNC	02.10.98	8015M.TX	536-21	984023	7424
		DATA.REVIEW	02.24.98				7524

***

Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

VOC ANALYTICAL, GLENDALE
QC REPORT FOR 9802192
DATE PRINTED: 24 FEB 1998

AQUEOUS SAMPLES		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD
	UNITS	RESULT	RDL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: GAS*984023 Method: 8015M.TX - Modified 8015																						
Benzene	ug/L	0	0.5	-	99	-	-	-	76	155	-	-	-	93	-	90	-	70	153	3	25	-
Toluene	ug/L	0.13	0.5	-	99	-	-	-	72	121	-	-	-	81	-	79	-	69	119	2	25	-
Ethylbenzene	ug/L	0	0.5	-	98	-	-	-	72	115	-	-	-	93	-	89	-	68	116	4	25	-
Methyl-tert-butylether	ug/L	0	30	-	100	-	-	-	62	159	-	-	-	113	-	111	-	80	176	1	25	-
Total Xylene Isomers	ug/L	0.13	0.5	-	99	-	-	-	68	115	-	-	-	77	-	76	-	61	118	1	25	-
TPH (Gasoline Range)	ug/L	6.0	50	-	100	-	-	-	85	120	-	-	-	100	-	99	-	78	124	1	25	-
[a,a,a-Trifluorotoluene]	Percent	111	-	-	103	-	-	-	85	118	-	-	-	97	-	107	-	85	118	-	-	-
Batch: GAS*985022 Method: 8015M.TX - Modified 8015																						
Benzene	ug/L	0	0.5	-	91	-	-	-	76	155	-	-	-	91	-	93	-	70	153	1	25	-
Toluene	ug/L	0	0.5	-	92	-	-	-	72	121	-	-	-	84	-	87	-	69	119	3	25	-
Ethylbenzene	ug/L	0	0.5	-	91	-	-	-	72	115	-	-	-	90	-	95	-	68	116	5	25	-
Methyl-tert-butylether	ug/L	0	30	-	90	-	-	-	62	159	-	-	-	115	-	115	-	80	176	0	25	-
Total Xylene Isomers	ug/L	0	0.5	-	97	-	-	-	68	115	-	-	-	81	-	84	-	61	118	4	25	-
TPH (Gasoline Range)	ug/L	0	50	-	102	-	-	-	85	120	-	-	-	100	-	101	-	78	124	1	25	-
[a,a,a-Trifluorotoluene]	Percent	104	-	-	96	-	-	-	85	118	-	-	-	120	Q	121	Q	85	118	-	-	-
Batch: GAS*985023 Method: 8015M.TX - Modified 8015																						
Benzene	ug/L	0	0.5	-	89	-	-	-	76	155	-	-	-	91	-	90	-	70	153	1	25	-
Toluene	ug/L	0	0.5	-	91	-	-	-	72	121	-	-	-	85	-	83	-	69	119	2	25	-
Ethylbenzene	ug/L	0	0.5	-	92	-	-	-	72	115	-	-	-	89	-	92	-	68	116	3	25	-
Methyl-tert-butylether	ug/L	0	30	-	83	-	-	-	62	159	-	-	-	-	-	-	-	-	-	-	-	-
Total Xylene Isomers	ug/L	0	0.5	-	97	-	-	-	68	115	-	-	-	80	-	82	-	61	118	2	25	-
TPH (Gasoline Range)	ug/L	0	50	-	96	-	-	-	85	120	-	-	-	102	-	99	-	78	124	3	25	-
[a,a,a-Trifluorotoluene]	Percent	108	-	-	97	-	-	-	85	118	-	-	-	117	-	117	-	85	118	-	-	-

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 14:27:45 24 FEB 1998 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9802192*1							
8015M.TX	a,a,a-Trifluorotoluene	Re985023	02/13/98	48.0	50.0	96	
9802192*2							
8015M.TX	a,a,a-Trifluorotoluene	Re985023	02/13/98	124	125	99	
9802192*3							
8015M.TX	a,a,a-Trifluorotoluene	Re984023	02/10/98	50.8	50.0	102	
9802192*4							
8015M.TX	a,a,a-Trifluorotoluene	Re984023	02/10/98	50.8	50.0	102	
9802192*5							
8015M.TX	a,a,a-Trifluorotoluene	Re984023	02/10/98	51.0	50.0	102	
9802192*6							
8015M.TX	a,a,a-Trifluorotoluene	Re984023	02/10/98	52.9	50.0	106	
9802192*7							
8015M.TX	a,a,a-Trifluorotoluene	Re985022	02/11/98	52.3	50.0	105	
9802192*8							
8015M.TX	a,a,a-Trifluorotoluene	Re984023	02/10/98	50.7	50.0	101	
9802192*9							
8015M.TX	a,a,a-Trifluorotoluene	Re984023	02/10/98	54.0	50.0	108	

G98-02-192

Chain-of-Custody

Texaco Environmental Services
108 Cutting Boulevard
Richmond, California 94804
Phone: (510) 236-3541
FAX: (510) 237-7821

Forward Results to the Attention of Rebecca Digerness

Texaco Project Coordinator: Karen Petryna

Laboratory: B C Analytical

Turn Around Time: normal (10 day)

Samplers (PRINT NAME): M. Morgan

Sampler Signature:

Date Samples Collected: 2/6/98

Page ___ of ___

Site Name: Texaco Loc.# 618571050

Site Address: 930 Springtown Blvd. Livermore, CA

Contractor Project Number: 980206-H1

Contractor Name: Blaine Tech Services, Inc.

Address: 1680 Rogers Ave., San Jose, CA 95112

Project Contact: Kent Brown

Phone/FAX: (408) 573-0555 / (408) 573-7771

KEP
618571050
FKEP9023L

Sample Number	Lab Sample Number	Date/Time Collected	No. of Containers	Type of Containers	Sample Matrix	Preservative	ANALYSIS: TPH gas/BTEX/MTBE	TPH Diesel	O&G/TRPH (418.1)	TPH Ex. (C8-C36+)	VOCs 8240/624	P. Halocarbons 8010/60	P. Aromatics 8020/602	Organic Lead	Comments
MW-A		2/6/1310	3	VOA	H_2O	HCl	X								
MW-B		/1255													
MW-1		/1156													
MW-2		/1140													
MW-3		/1210													
MW-4		/1040													
MW-5		/1230													
MW-8		/1105													
EB		/1045													

Relinquished by: (Signature) — Date: 2/9/98 — Time: 1429

Relinquished by: (Signature) — Date: — Time:

Relinquished by: (Signature) — Date: — Time:

Method of Shipment:

Received by: (Signature) — Date: 2/9/98 — Time: 14:27

Received by: (Signature) — Date: — Time:

Received by: (Signature) — Date: — Time:

Lab Comments:

P:\GWMP\FORMS\TEX-COC.XLS

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Texaco 618571050/980519-K2	Sampled: 05/19/98
1680 Rogers Avenue	Sample Descript: MW-A	Received: 05/20/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/02/98
Attention: Kent Brown	Lab Number: 9805D11-01	Reported: 06/11/98

QC Batch Number: GC060298802005A
Instrument ID: HP-5

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**20000**	**32000**
Methyl t-Butyl Ether	**1000**	**1300**
Benzene	**200**	**310**
Toluene	**200**	**380**
Ethyl Benzene	**200**	**1800**
Xylenes (Total)	**200**	**3700**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	77

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Texaco 618571050/980519-K2	Sampled: 05/19/98
1680 Rogers Avenue	Sample Descript: MW-B	Received: 05/20/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/02/98
Attention: Kent Brown	Lab Number: 9805D11-02	Reported: 06/11/98

QC Batch Number: GC060298802005A
Instrument ID: HP-5

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**10000**	**25000**
Methyl t-Butyl Ether	***500***	**570**
Benzene	**100**	**200**
Toluene	**100**	**900**
Ethyl Benzene	**100**	**410**
Xylenes (Total)	**100**	**1600**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	77

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Texaco 618571050/980519-K2	Sampled: 05/19/98
1680 Rogers Avenue	Sample Descript: MW-5	Received: 05/20/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/02/98
Attention: Kent Brown	Lab Number: 9805D11-03	Reported: 06/11/98

QC Batch Number: GC060298802005A
Instrument ID: HP-2

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**2500**	**4200**
Methyl t-Butyl Ether	**120**	**510**
Benzene	**25**	**120**
Toluene	**25**	**25**
Ethyl Benzene	**25**	**360**
Xylenes (Total)	**25**	**76**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	79

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Texaco 618571050/980519-K2	Sampled: 05/19/98
1680 Rogers Avenue	Sample Descript: MW-8	Received: 05/20/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/05/98
Attention: Kent Brown	Lab Number: 9805D11-04	Reported: 06/11/98

QC Batch Number: GC060598802002A
Instrument ID: HP-2

Total Purgeable 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**	**4.9**
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	102

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Perner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Texaco 618571050/980519-K2	Sampled: 05/19/98
1680 Rogers Avenue	Sample Descript: EB	Received: 05/20/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/02/98
Attention: Kent Brown	Lab Number: 9805D11-05	Reported: 06/11/98

QC Batch Number: GC060598802002A
Instrument ID: HP-2

Total Purgeable 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	72

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Kent Brown

Client Project ID: Texaco 618571050/980519-K2
Matrix: Liquid
Work Order #: 9805D11 -01-05
Reported: Jun 11, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC052898802005A	GC052898802005A	GC052898802005A	GC052898802005A	GC052898802005A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill	K. Nill
MS/MSD #:	8051662	8051662	8051662	8051662	8051662
Sample Conc.:	16	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/28/98	5/28/98	5/28/98	5/28/98	5/28/98
Analyzed Date:	5/28/98	5/28/98	5/28/98	5/28/98	5/28/98
Instrument I.D.#:	HP5	HP5	HP5	HP5	HP5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	350 µg/L
Result:	33	19	19	58	390
MS % Recovery:	85	95	95	97	111
Dup. Result:	39	24	23	70	370
MSD % Recov.:	115	120	115	117	106
RPD:	16.7	23.3	19.0	18.8	5.3
RPD Limit:	0-20	0-20	0-20	0-20	0-50
LCS #:	LCS052898	LCS052898	LCS052898	LCS052898	LCS052898
Prepared Date:	5/28/98	5/28/98	5/28/98	5/28/98	5/28/98
Analyzed Date:	5/28/98	5/28/98	5/28/98	5/28/98	5/28/98
Instrument I.D.#:	HP5	HP5	HP5	HP5	HP5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	350 µg/L
LCS Result:	17	16	16	51	340
LCS % Recov.:	85	80	80	85	97
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL
ELAP #1271

Peggy Penner
Project Manager

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Kent Brown

Client Proj. ID: Texaco 618571050/980519-K2
Lab Proj. ID: 9805D11

Received: 05/20/98
Reported: 06/11/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 7 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

9805011

Chain-of-Custody

Page 1 of 1

TRMI EH&S
108 Cutting Boulevard
Richmond, California 94804
Phone: (510) 236-3541
FAX: (510) 237-7821

Forward Results to the Attention of Rebecca Digerness

Texaco Project Corordinator: Karen Petryna

Laboratory: ~~BC Analytical~~ ~~Calscience~~ Sequoia

Turn Around Time: normal (10 day)

Samplers (PRINT NAME): Mark Spindler

Sampler Signature:

Date Samples Collected: 5/19/98

Site Name: Texaco Loc.# 618571050
Site Address: 930 Springtown Blvd. Livermore, CA
Contractor Project Number: 980519-K2
Contractor Name: Blaine Tech Services, Inc.
Address: 1680 Rogers Ave., San Jose, CA 95112
Project Contact: Kent Brown
Phone/FAX: (408)573-0555 / (408)573-7771

Sample Number	Lab Sample Number	Date/Time Collected	No. of Containers	Type of Containers	Sample Matrix	Preservative	ANALYSIS: TPH gas/BTEX (MTBE)	TPH Diesel	O&G/TRPH (418.1)	TPH Ex. (C8-C36+)	VOCs 8240/624	P. Halocarbons 8010/60	P. Aromatics 8020/602	Organic Lead			Comments
MW-A	1	5/19/98 1235	3	VOA	W	HCL	X										
MW-B	2	/ 1240	3		W		X										
MW-5	3	/ 1250	3		W		X										
MW-8	4	/ 1327	3		W		X										
EB	5	/ 1335	3		W		X										

Relinquished by: (Signature)	Date: 5/20/98	Time: 1:28	Received by: (Signature) Stacie Ten
Relinquished by: (Signature) Stacie Ten	Date: 5/20/98	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Method of Shipment:			Date: 5-20-98 Time: 15:04

Lab Comments:

P:\GWMP\FORMS\TEX-COC.XLS

Well Gauging Data

Project Name: Texaco # 6185710 50 Date: 2-6-98

Project Number: 980206-H1 Recorded By: Morgan H.

Well ID	TOC Elev.	DTB (ft. TOC)	Well Dia. (in.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW-A		16.42	2		9.00		
MW-B		21.79	2		6.68		Odor
MW-1		25.46	4		9.27		
MW-2		22.61	4		6.88		
MW-3		24.59	4		8.41		
MW-4		25.04	3		7.46		
MW-5		21.31	2		10.26		
MW-8		24.30	4		13.62		

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 #: 980206-H1	Texaco ID#: 618571050
Sampler: MH	Date: 2/6/98
Well I.D.: MW-A	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 16.42	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"	0.66	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method:
- ~~S.S. Bailer~~
- Teflon Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: Disposable

Sampling Method: S.S. Bailer ✓
- Teflon Bailer
- Extraction Port
- Other: _____

1.1 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 3.3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1302	63.6	7.5	1200	98	1.5	
1304	64.2	7.4	1200	44	3.0	
1307	64.2	7.4	1200	37	4.5	

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Time: 1310 Sampling Date: 2/6

Sample I.D.: MW-A 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 #: 980206-H1	Texaco ID#: 618571050
Sampler: MH	Date: 2/6/98
Well I.D.: MW-B	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 21.79	Depth to Water: 6.68
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:
- [x] S.S. Bailer
- [ ] Teflon Bailer
- [ ] Middleburg
- [ ] Electric Submersible
- [ ] Extraction Pump
- [ ] Other: _____

Sampling Method:
- [x] S.S. Bailer
- [ ] Teflon Bailer
- [ ] Extraction Port
- [ ] Other: _____

2.3 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 6.9 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1242	62.6	7.7	1700	2142	2.5	Heavy sheen/odor
1247	62.8	7.8	1600	107	5.0	" " "
1251	62.8	7.7	1600	121	7.5	" " "

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

Sampling Time: 1255 Sampling Date: 2/6

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 #: 980206-H1	Texaco ID#: 618571050
Sampler: MH	Date: 2/6/98
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 25.46	Depth to Water: 9.27
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	radius² * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- X Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer X
- Teflon Bailer
- Extraction Port
- Other: _____

10.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 31.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1147	64.0	7.6	2000	7200	11	
1149	63.6	7.3	2000	7200	22	
1151	64.2	7.4	2000	7200	33	

Did well dewater? Yes (No)	Gallons actually evacuated: 33
Sampling Time: 1156	Sampling Date: 2/6
Sample I.D.: MW-1	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 #: 980206-H1	Texaco ID#: 618571050
Sampler: MH	Date: 2/6/98
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 22.61	Depth to Water: 6.88
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	radius² * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- ✓ Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method: S.S. Bailer ✓
- Teflon Bailer
- Extraction Port
- Other: _____

10.2 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 30.6 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1131	63.8	7.5	2200	>200	11	Root mass in
1133	63.6	7.4	2400	>200	22	well casing
1135	64.0	7.2	2400	>200	33	~ 4ft down.

Did well dewater? Yes (No) Gallons actually evacuated: 33

Sampling Time: 1140 Sampling Date: 2/6

Sample I.D.: MW-2 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 #: 980206-H1	Texaco ID#: 618571050
Sampler: MH	Date: 2/6/98
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 24.5 ft	Depth to Water: 8.41
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
- Teflon Bailer
- Middleburg
- X Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer X
- Teflon Bailer
- Extraction Port
- Other: _____

10.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 31.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1202	64.0	7.6	1500	7200	11	
1203	64.6	7.3	1400	7200	22	
1205	64.2	7.4	1400	7200	33	

Did well dewater? Yes (No) Gallons actually evacuated: 33

Sampling Time: 1210 Sampling Date: 2/6

Sample I.D.: MW-3 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 #: 980206-H1	Texaco ID#: 618571050
Sampler: MH	Date: 2/6/98
Well I.D.: MW-4	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth: 25.04	Depth to Water: 7.46
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	radius² * 0.164

Purge Method:
- S.S. Bailer
- X Teflon Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer
- X Teflon Bailer
- Extraction Port
- Other: _____

6.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 19.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1016	63.6	7.2	1100	40	7	
1024	64.0	7.2	1000	21	14	
1033	64.2	7.2	1000	23	21	

Did well dewater? Yes (No)	Gallons actually evacuated: 21
Sampling Time: 1040	Sampling Date: 2/6
Sample I.D.: MW-4	Laboratory: BC Analytical
Analyzed for: (Tph-G) (BTEX) Tph-D	Other: MTBE
Equipment Blank I.D.: EB	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980206-H1	Texaco ID#: 618571050
Sampler: MH	Date: 2/6/98
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 21.31	Depth to Water: 10.26
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	radius² * 0.164

Purge Method:
- X S.S. Bailer
- Teflon Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer X
- Teflon Bailer
- Extraction Port
- Other: _____

1.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 5.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1217	64.2	8.1	1100	96	2	
1221	64.6	7.8	1000	70	4	
1224	64.6	7.7	1000	49	6	

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

Sampling Time: 1230 Sampling Date: 2/6

Sample I.D.: MW-5 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 #: 980206-H1	Texaco ID#: 618571050
Sampler: MH	Date: 2/6/98
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 24.30	Depth to Water: 13.62
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	radius² * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- X Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer X
- Teflon Bailer
- Extraction Port
- Other: _____

6.9 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 20.7 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1056	62.8	7.4	1500	126	7	
1057	63.0	7.2	1400	99	14	
1058	63.4	7.2	1400	75	21	

Did well dewater? Yes (No) Gallons actually evacuated: 21

Sampling Time: 1105 Sampling Date: 2/6

Sample I.D.: MW-8 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 #: 980206-H1	Texaco ID#: 618571050
Sampler: MH	Date: 2/6/98
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 24.30	Depth to Water: 13.62
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron L pDS 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	radius² * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- X Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer X
- Teflon Bailer
- Extraction Port
- Other: _____

6.9 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 20.7 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1056	62.8	7.4	1500	126	7	
1057	63.0	7.2	1400	99	14	
1058	63.4	7.2	1400	75	21	

Did well dewater? Yes (No) Gallons actually evacuated: 21

Sampling Time: 1105 Sampling Date: 2/6

Sample I.D.: MW-8 Laboratory: BC Analytical

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

Equipment Blank I.D.: Analyzed for same as primary sample

Well Gauging Data

Project Name: Texaco 61857090
Project Number: 980519-K2

Date: 5/19/98
Recorded By: Mark

Well ID	TOC Elev.	DTB (ft. TOC)	Well Dia. (in.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW-A		16.37	2		9.85		
MW-B		21.71	2		7.57		
MW-1		25.47	4		10.51		
MW-2		22.81	4		8.35		
MW-3		24.51	4		9.40		
MW-4		23.01	3		8.91		
MW-5		21.24	2		11.12		
MW-8		24.27	4		14.23		

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 #: 980519-K2	Texaco ID#: 6183710030
Sampler: Mark	Date: 5/19/98
Well I.D.: MW-A	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 16.37	Depth to Water: 9.85
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
X 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 / Teflon Bailer X / Middleburg / Electric Submersible / Extraction Pump / Other: disp. bailer * bent casing

Sampling Method: S.S. Bailer / Teflon Bailer X / Extraction Port / Other: ____

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1221	65.3	7.3	1572	~~>200~~ 143	1	odor, gray turbid
1224	65.6	7.2	1639	>200	2	light sheen
1227	65.7	7.2	1660	>200	3	

Did well dewater? Yes (No) Gallons actually evacuated: 3

Sampling Time: 1235 Sampling Date: 5/19

Sample I.D.: MW-A Laboratory: ~~BC Analytical~~ 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 #: 980519-K2	Texaco ID#: 6183710030
Sampler: Mark	Date: 5/19/98
Well I.D.: MW-B	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 21.71	Depth to Water: 7.57
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
- Teflon Bailer X
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer
- Teflon Bailer X
- Extraction Port
- Other: _____

2.2	X	3	=	6.6 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1159	65.2	7.5	1885	87	2.25	sheen, odor
1202	64.9	7.3	1886	116	4.50	
1205	65.1	7.4	1894	127	6.75	

Did well dewater? Yes (No) Gallons actually evacuated: 6.75

Sampling Time: 1210 Sampling Date: 5/19

Sample I.D.: MW-B Laboratory: ~~BC Analytical~~ 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 #: 980519-K2	Texaco ID#: 6183710830
Sampler: Mark	Date: 3/19/98
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 22.24	Depth to Water: 11.12
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
- Teflon Bailer X
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer
- Teflon Bailer X
- Extraction Port
- Other: _____

1.7 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 5.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
11:40	63.8	7.2	1753	>200	1.75	clear, gray turbid
11:43	64.7	7.2	1881	>200	3.50	
11:46	64.9	7.2	1907	>200	5.25	

Did well dewater? Yes (No) Gallons actually evacuated: 5.25

Sampling Time: 1150 Sampling Date: 3/19

Sample I.D.: MW-5 Laboratory: ~~BC Analytical~~ 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 #: 980519-K2	Texaco ID#: 6183710830
Sampler: Mark	Date: 3/19/98
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 24.27	Depth to Water: 14.23
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
X 4"	0.66	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- Electric Submersible X
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer X
- Teflon Bailer
- Extraction Port
- Other: _____

6.6	X	3	=	19.8 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
11:20	65.7	7.1	2145	83	7	
11:21	64.9	7.1	1941	43	14	
11:22	64.4	7.1	1916	18	20	

Did well dewater? Yes (No) Gallons actually evacuated: 20

Sampling Time: 1127 Sampling Date: 3/19

Sample I.D.: MW-8 Laboratory: ~~BC Analytical~~ Sequoia

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

Equipment Blank I.D.: EB@ 1135 (*Analyzed for same as primary sample)

SOURCE RECORD

BILL OF LADING

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT TEXACO FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE-WATER WHICH HAS BEEN RECOVERED FROM GROUND-WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED TO THE DESTINATION DESIGNATED BY TEXACO ENVIRONMENTAL SERVICES (TES).

Contractor: Blaine Tech Services, Inc.
Address: 1680 Rogers Avenue
City, State, ZIP: San Jose, CA 95112
Phone: (408) 573-0555

is authorized by Texaco Environmental Services to recover, collect, apportion into loads, and haul the NON-HAZARDOUS WELL PURGEWATER that is drawn from wells at the Texaco facility listed below and to deliver that purgewater to an appropriate destination designated by TEXACO ENVIRONMENTAL SERVICES in either Redwood City, California or in Richmond, California. Transport routing of the Non-Hazardous Well Purgewater may be directed from one Texaco facility to the designated desitnation point; from one Texaco facility to the designated destination point via another Texaco facility; from a Texaco facility via the contractor's facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of Texaco Environmental Services (TES).

This SOURCE RECORD BILL OF LADING was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Texaco facility described below:

TEXACO #: 6185 / 1050
Address: 930 Springtown Bl.
City, State, ZIP: Livermore CA

Well I.D.	Gals.	Well I.D.	Gals.
	/		/
	/		/
	/		/
	/		/
	/		/
	/		/
	/		/
	/		/
Purge	/		/
Water	/		/

Total gals. 160

added rinse water 10

Total Gals. Recovered 170

Job #: 980206-HT
Date 2-6-98
Time 1330
Signature:

REC'D AT: BTS
Date: 2-6-98
Time: 1500
Signature:

P:\GW\MP\FORMSITEX.BOL.WK4

SOURCE RECORD

BILL OF LADING

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT TEXACO FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE-WATER WHICH HAS BEEN RECOVERED FROM GROUND-WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED TO THE DESTINATION DESIGNATED BY TRMI EH&S.

Contractor: Blaine Tech Services, Inc.
Address: 1680 Rogers Ave.
City, State, ZIP: San Jose, CA 95112
Phone: (408) 573-0555

is authorized by TRMI EH&S to recover, collect, apportion into loads, and haul the NON HAZARDOUS WELL PURGEWATER that is drawn from wells at the Texaco facility listed below and to deliver that purgewater to an appropriate destination designated by TRMI EH&S in either Redwood City, California or in Richmond, California. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Texaco facility to the designated destination point; from one Texaco facility to the designated destination point via another Texaco facility; from a Texaco facility to the designated destination point via the contractor's facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of TRMI EH&S.

This **SOURCE RECORD BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Texaco facility described below:

Texaco#: _____ Texaco #618571050
Address: _____ 930 SPRINGTOWN BLVD.
City, State, ZIP: _____ LIVERMORE, CA

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	3		
MW-3	6.75		
MW-5	5.25		
MW-8	20		

Total gals. 29

added rinse water 5

Total Gals. Recovered 34

Job#: 980519-K2
Date: 5/19/98
Time: 1245
Signature:

REC'D AT: BTS
Date: 5/19/98
Time: 1430
Signature:

QUARTERLY STATUS REPORT

Former Texaco Service Station/Current Seven-Eleven Store
930 Springtown, Livermore, California
Alameda County
Second Quarter 1998

SITE HISTORY

Subsurface investigation was initiated in September, 1984 with the installation of two groundwater monitoring wells (MW-1A and MW-1B). Underground fuel storage tanks were removed in June 1985. Plume definition investigation continued through 1989. Monitoring wells MW-1 through MW-3 were installed in June 1985, MW-4 was installed in September 1985, and MW-5 and MW-6 were installed in November 1986. One soil boring was drilled and two additional monitoring wells (MW-7 and MW-8) were installed in December 1989 in order to fully define the extent of subsurface hydrocarbons. Monitoring wells MW-6 and MW-7 were destroyed in December 1995 and January 1996. A vapor extraction system operated at the site from September 1994 through October 1995. A work plan was submitted to conduct Risk Based Corrective Action analysis in the third quarter of 1997. The analysis was performed and a report was submitted to Alameda County during the fourth quarter of 1997 along with an additional correspondence detailing the input parameters for the analysis.

WORK PERFORMED THIS QUARTER

Continued the groundwater monitoring and sampling program.

CHARACTERIZATION STATUS

The extent of petroleum hydrocarbons in soil has been defined laterally. The extent of dissolved petroleum hydrocarbons in groundwater has not been fully defined.

REMEDIATION STATUS

A soil vapor extraction system previously operated. The system was turned off after obtaining permission from the Alameda County Health Care Services Agency.

WORK TO BE PERFORMED NEXT QUARTER

Continue the groundwater monitoring and sampling program. Based on the results of the RBCA analysis, Texaco will evaluate whether to obtain more vadose zone soil samples or accept a conditional closure and produce a Risk Management Plan.

WATER WELL SURVEY

Based on the water well survey conducted at the Department of Water Resources on May 19, 1997, there is only one water producing well within 1/2-mile of the site. An irrigation well is located approximately 650-feet north of the site. The predominant ground water flow direction is to the northwest.