



Texaco Refining
and Marketing Inc

108 Cutting Boulevard
Richmond CA 94804

April 9, 1997

ENV - STUDIES, SURVEYS, & REPORTS
930 Springtown Blvd., Livermore, California
Quarterly Monitoring Report

Ms. Eva Chu
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Fl. 2
Alameda, CA 94502-6577

ENVIRONMENTAL
PROTECTION
97 APR 11 PM 3:55

Dear Ms. Chu:

This letter presents the results of groundwater monitoring and sampling conducted by Blaine Tech Services, Inc. on February 14, 1997, at the site referenced above (see Plate 1, Site Vicinity Map). Based on groundwater level measurements, the areal hydraulic gradient was estimated to be northeast (see Plate 2, Groundwater Gradient Map) at .002 ft. per ft. TPHg and benzene concentrations are shown on Plate 3. 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-2, MW-4, MW-6, and MW-8 are sampled semi-annually in February and August; monitoring wells MW-1, MW-3, MW-5, MW-A, and MW-B are sampled quarterly; and monitoring wells MW-A, MW-B, and MW-1 through 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. Texaco's Standard Operating Procedures may be found in the fourth quarter, 1994 monitoring report.

If you have any questions or comments regarding this site, please call the Texaco Project Coordinator, Ms. Karen Petryna at (510) 236-9139.

Best Regards,
Texaco Refining and Marketing Inc

Rebecca Digerness
Groundwater Program Analyst

Karen E. Petryna, P. E.
Civil Engineer
Environment, Health and Safety



RBD:hs
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Enclosure

cc: Mr. Timothy Ross
Kaprealian Engineering, Inc.
2401 Stanwell Dr., Suite 400
Concord, CA 94520

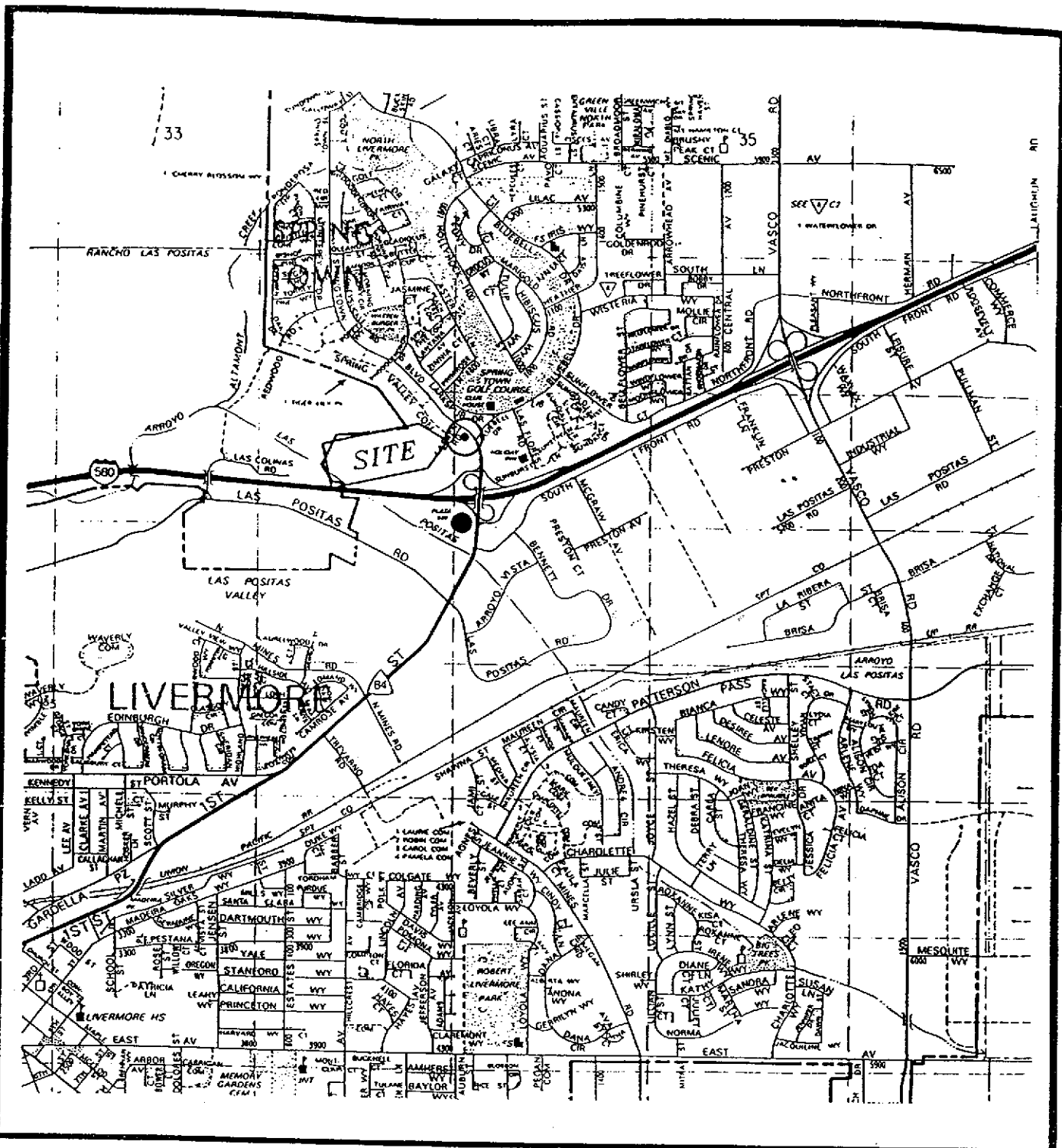
Mr. Bob DeNinno
The Southland Corporation
19033 West Valley Hwy., D-104
Kent, WA 98032

RRZielinski (w/o enclosure) RAOFile-UCPFile (w/enclosure)

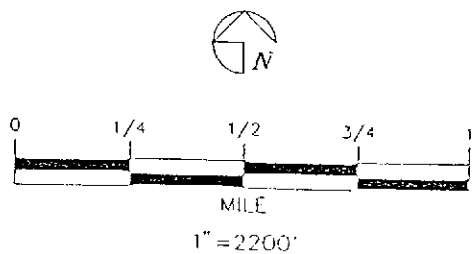
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ENVIRONMENTAL
PROTECTION
97 APR 11 PM 3:55

GROUNDWATER MONITORING AND SAMPLING
First Quarter, 1997
at the
Former Texaco Service Station
930 Springtown Boulevard
Livermore, California

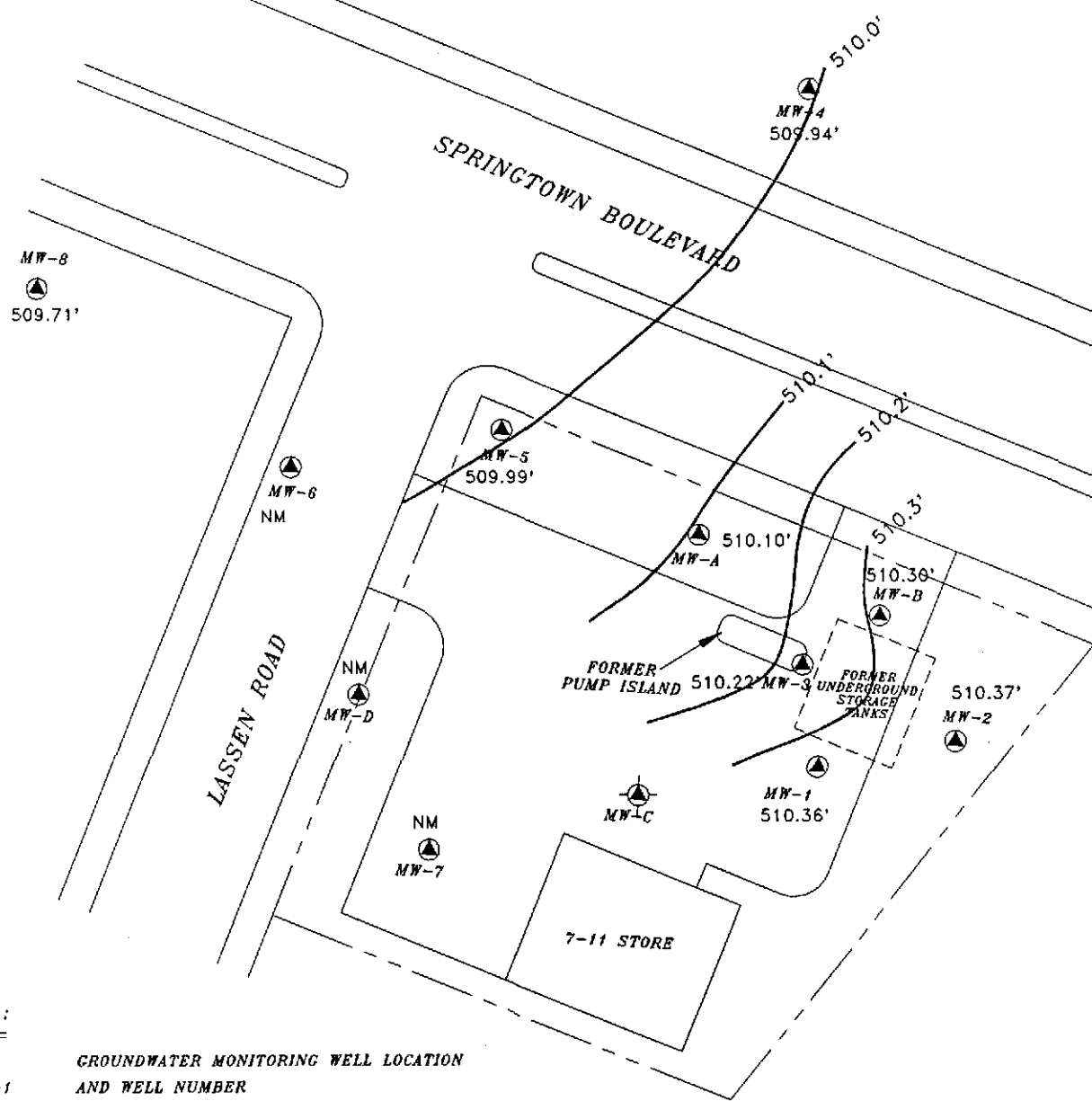
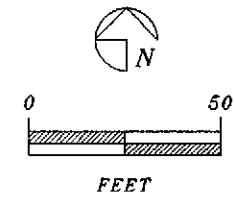


SOURCE:
 1993 THE THOMAS GUIDE
 ALAMEDA COUNTY, PAGE 51 (C3)



TEXACO
 REFINING AND MARKETING, INC.
 TEXACO ENVIRONMENTAL SERVICES

PLATE 1
 SITE VICINITY MAP
 FORMER TEXACO SERVICE STATION
 930 SPRINGTOWN BLVD. / LASSEN RD.
 LIVERMORE, CALIFORNIA




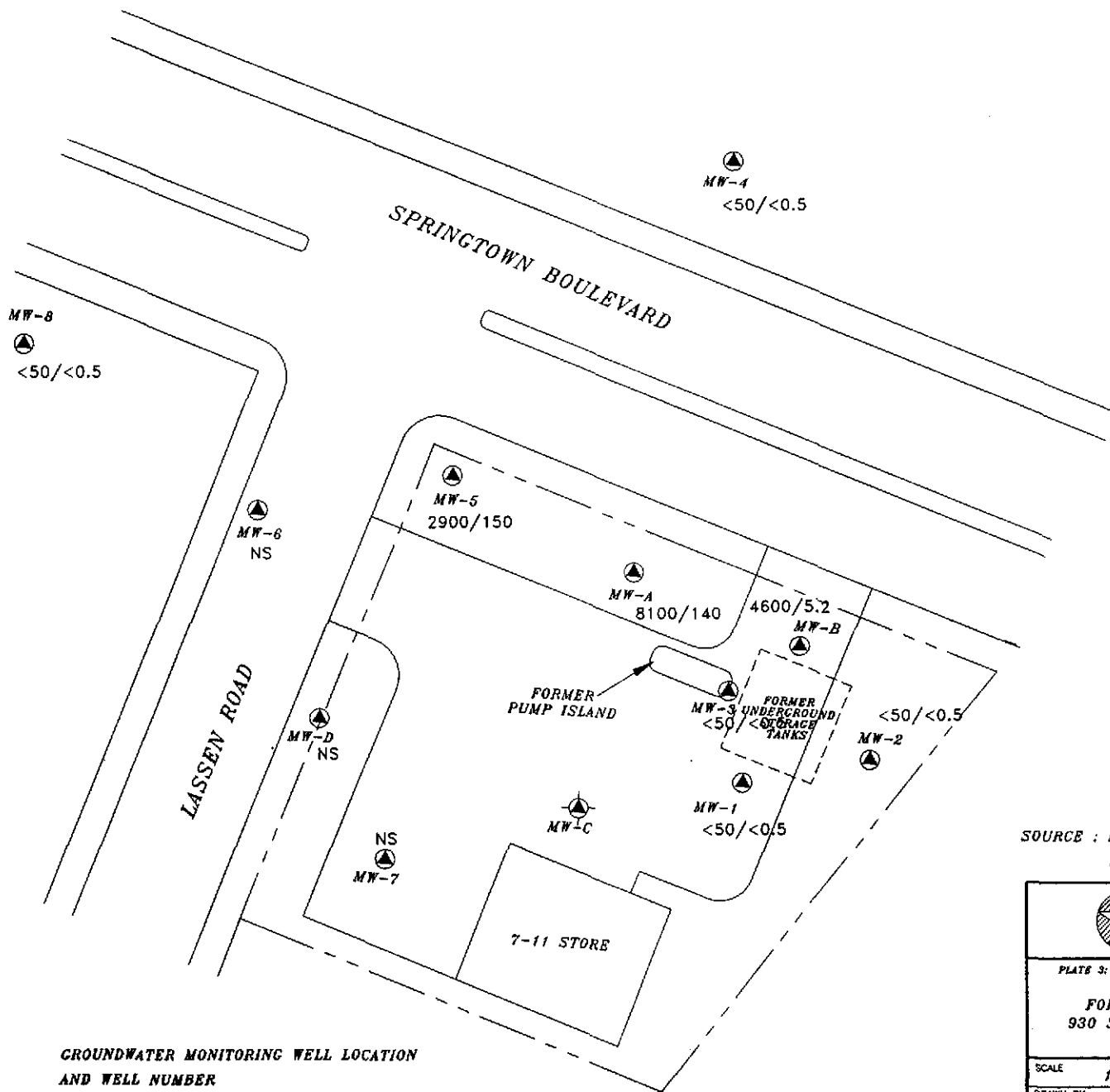
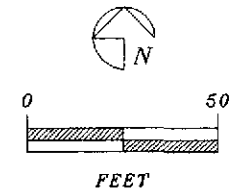
LEGEND :

MW-1 GROUNDWATER MONITORING WELL LOCATION AND WELL NUMBER

 GROUNDWATER CONTOUR LINE
 510.36' GROUNDWATER ELEVATION (ABOVE MSL)
 NM NOT MEASURED

SOURCE : MATTESON ENGINEERING CONDUCTED SURVEY ON 08/04/1994

 TEXACO REFINING AND MARKETING, INC. ENVIRONMENTAL SERVICES			
PLATE 2: GROUNDWATER GRADIENT MAP (02/14/1997) FORMER TEXACO SERVICE STATION 930 SPRINGTOWN BLVD. / LASSEN RD., LIVERMORE, CALIFORNIA			
SCALE	1" = 50'-0"	LOCATION #	81-857-1050
DRAWN BY	RBD	DATE	
CHECKED BY	WSP	DATE	7-9-97
DRAWING NO.	(LIVERMORE) ST-LA-LI.DWG		



SOURCE : MATTESON ENGINEERING CONDUCTED SURVEY ON 08/04/1994



TEXACO
REFINING AND MARKETING, INC.
ENVIRONMENTAL SERVICES

PLATE 3: TPHg/BENZENE CONCENTRATION IN GROUNDWATER
(02/14/1997)
FORMER TEXACO SERVICE STATION
930 SPRINGTOWN BLVD. / LASSEN RD.,
LIVERMORE, CALIFORNIA

SCALE	1"=50'-0"	LOCATION #	61-857-1050
DRAWN BY	KBD	DATE	
CHECKED BY	YOG	DATE	4-9-97
DRAWING NO.	(LIVERMORE) ST-LA-LI.DWG		

LEGEND :

- GROUNDWATER MONITORING WELL LOCATION AND WELL NUMBER
- <50/<0.5 TPHg/BENZENE CONCENTRATION IN GROUNDWATER (ppb)
- NS NOT SAMPLED

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)	Elevation of Groundwater (feet, MSL)	Floating Product
MW-A	1/2/92	520.10	13.61	506.49	---
MW-A	4/2/92	520.10	12.44	507.66	---
MW-A	7/21/92	520.10	13.35	506.75	---
MW-A	10/9/92	520.10	12.92	507.18	SD
MW-A	1/11/93	520.10	11.78	508.32	SD
MW-A	5/5/93	520.10	11.39	508.71	SD
MW-A	8/9/93	520.10	12.80	507.30	SD
MW-A	10/14/93	520.10	13.48	506.62	SD
MW-A	1/24/94	520.10	12.74	507.36	SD
MW-A	5/31/94	520.10	12.28	507.82	---
MW-A	8/31/94	520.10	13.20	506.90	SD
MW-A	11/2/94	520.10	13.15	506.95	SD
MW-A	2/20/95	520.10	11.71	508.39	---
MW-A	5/9/95	520.10	12.37	507.73	---
MW-A	8/21/95	520.10	11.37	508.73	---
MW-A	10/20/95	520.10	12.04	508.06	---
MW-A	2/7/96	520.10	10.11	509.99	---
MW-A	4/30/96	520.10	10.28	509.82	---
MW-A	8/14/96	520.10	10.82	509.28	---
MW-A	11/22/96	520.10	10.97	509.13	---
MW-A	2/14/97	520.10	10.00	510.10	---
MW-B	1/2/92	518.05	11.27	506.78	---
MW-B	4/2/92	518.05	10.18	507.87	---
MW-B	7/21/92	518.05	11.27	506.78	---
MW-B	10/9/92	518.05	11.64	506.41	SD
MW-B	1/11/93	518.05	9.65	508.40	SD
MW-B	5/5/93	518.05	9.28	508.77	SD
MW-B	8/9/93	518.05	11.02	507.03	SD
MW-B	10/14/93	518.05	11.34	506.71	SD
MW-B	1/24/94	518.05	10.54	507.51	SD
MW-B	5/31/94	518.05	10.19	507.86	---
MW-B	8/31/94	518.05	10.98	507.07	SD
MW-B	11/2/94	518.05	10.90	507.15	SD
MW-B	2/20/95	518.05	9.47	508.58	---
MW-B	5/9/95	518.05	10.58	507.47	---
MW-B	8/21/95	518.05	9.34	508.71	---
MW-B	10/20/95	518.05	9.83	508.22	---
MW-B	2/7/96	518.05	7.85	510.20	SD
MW-B	4/30/96	518.05	8.02	510.03	---
MW-B	8/14/96	518.05	8.66	509.39	SD
MW-B	11/22/96	518.05	8.70	509.35	SD
MW-B	2/14/97	518.05	7.75	510.30	SD
MW-1	1/2/92	520.61	14.11	506.50	---

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)	Elevation of Groundwater (feet, MSL)	Floating Product
MW-1	4/2/92	520.61	12.98	507.63	---
MW-1	7/21/92	520.61	13.92	506.69	---
MW-1	10/9/92	520.61	14.25	506.36	---
MW-1	1/11/93	520.61	12.30	508.31	---
MW-1	5/5/93	520.61	11.88	508.73	---
MW-1	8/9/93	520.61	13.63	506.98	---
MW-1	10/14/93	520.61	13.91	506.70	---
MW-1	1/24/93	520.61	13.12	507.49	---
MW-1	5/31/94	520.61	12.74	507.87	---
MW-1	8/31/94	520.61	13.68	506.93	---
MW-1	11/2/94	520.61	13.48	507.13	---
MW-1	2/20/95	520.61	12.02	508.59	---
MW-1	5/9/95	520.61	12.83	507.78	---
MW-1	8/21/95	520.61	11.93	508.68	---
MW-1	10/20/95	520.61	12.40	508.21	---
MW-1	2/7/96	520.61	10.42	510.19	---
MW-1	4/30/96	520.61	10.48	510.13	---
MW-1	8/14/96	520.61	11.18	509.43	---
MW-1	11/22/96	520.61	11.10	509.51	---
MW-1	2/14/97	520.61	10.25	510.36	---
MW-2	1/2/92	518.29	11.96	506.33	---
MW-2	4/2/92	518.29	10.89	507.40	---
MW-2	7/21/92	518.29	11.55	506.74	---
MW-2	10/9/92	518.29	Not Monitored		
MW-2	1/11/93	518.29	Not Monitored		
MW-2	5/5/93	518.29	Not Monitored		
MW-2	8/9/93	518.29	Not Monitored		
MW-2	10/14/93	518.29	Not Monitored		
MW-2	1/24/94	518.29	Not Monitored		
MW-2	5/31/94	518.29	10.37	507.92	---
MW-2	8/31/94	518.29	11.16	507.13	---
MW-2	11/2/94	518.29	11.07	507.22	---
MW-2	2/20/95	518.29	9.66	508.63	---
MW-2	5/9/95	518.29	10.14	508.15	---
MW-2	8/21/95	518.29	9.58	508.71	---
MW-2	10/20/95	518.29	9.91	508.38	---
MW-2	2/7/96	518.29	8.00	510.29	---
MW-2	4/30/96	518.29	8.21	510.08	---
MW-2	8/14/96	518.29	8.88	509.41	---
MW-2	11/22/96	518.29	8.88	509.41	---
MW-2	2/14/97	518.29	7.92	510.37	---
MW-3	1/2/92	519.60	12.87	506.73	---
MW-3	4/2/92	519.60	11.97	507.63	---

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)	Elevation of Groundwater (feet, MSL)	Floating Product
MW-3	7/21/92	519.60	12.60	507.00	---
MW-3	10/9/92	519.60	12.93	506.67	---
MW-3	1/11/93	519.60	11.16	508.44	---
MW-3	5/5/93	519.60	10.72	508.88	---
MW-3	8/9/93	519.60	12.34	507.26	---
MW-3	10/14/93	519.60	12.71	506.89	---
MW-3	1/24/94	519.60	12.03	507.57	---
MW-3	5/31/94	519.60	11.54	508.06	---
MW-3	8/31/94	519.60	12.60	507.00	---
MW-3	11/2/94	519.60	12.16	507.44	---
MW-3	2/20/95	519.60	11.05	508.55	---
MW-3	5/9/95	519.60	11.97	507.63	---
MW-3	8/21/95	519.60	7.60	512.00	---
MW-3	10/20/95	519.60	11.46	508.14	---
MW-3	2/7/96	519.60	9.42	510.18	---
MW-3	4/30/96	519.60	9.60	510.00	---
MW-3	8/14/96	519.60	10.24	509.36	---
MW-3	11/22/96	519.60	10.34	509.26	---
MW-3	2/14/97	519.60	9.38	510.22	---
MW-4	1/2/92	518.79	12.22	506.57	---
MW-4	4/2/92	518.79	11.03	507.76	---
MW-4	7/21/92	518.79	12.36	506.43	---
MW-4	10/9/92	518.79	12.40	506.39	---
MW-4	1/11/93	518.79	10.72	508.07	---
MW-4	5/5/93	518.79	10.21	508.58	---
MW-4	8/9/93	518.79	12.25	506.54	---
MW-4	10/14/93	518.79	12.58	506.21	---
MW-4	1/24/94	518.79	11.72	507.07	---
MW-4	5/31/94	518.79	11.29	507.50	---
MW-4	8/31/94	518.79	12.00	506.79	---
MW-4	11/2/94	518.79	11.96	506.83	---
MW-4	2/20/95	518.79	10.42	508.37	---
MW-4	5/9/95	518.79	11.22	507.57	---
MW-4	8/21/95	518.79	10.51	508.28	---
MW-4	10/20/95	518.79	10.86	507.93	---
MW-4	2/7/96	518.79	8.93	509.86	---
MW-4	4/30/96	518.79	9.03	509.76	---
MW-4	8/14/96	518.79	9.84	508.95	---
MW-4	11/22/96	518.79	9.73	509.06	---
MW-4	2/14/97	518.79	8.85	509.94	---
MW-5	1/2/92	521.19	14.56	506.63	---
MW-5	4/2/92	521.19	13.58	507.61	---
MW-5	7/21/92	521.19	13.77	507.42	---

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)	Elevation of Groundwater (feet, MSL)	Floating Product
MW-5	10/9/92	521.19	14.09	507.10	---
MW-5	1/11/93	521.19	12.24	508.95	---
MW-5	5/5/93	521.19	11.90	509.29	---
MW-5	8/9/93	521.19	13.35	507.84	---
MW-5	10/14/93	521.19	13.89	507.30	---
MW-5	1/24/94	521.19	13.32	507.87	---
MW-5	5/31/94	521.19	12.75	508.44	---
MW-5	8/31/94	521.19	14.34	506.85	---
MW-5	11/2/94	521.19	14.22	506.97	---
MW-5	2/20/95	521.19	12.78	508.41	SD
MW-5	5/9/95	521.19	13.41	507.78	---
MW-5	8/21/95	521.19	12.32	508.87	---
MW-5	10/20/95	521.19	13.28	507.91	---
MW-5	2/7/96	521.19	11.31	509.88	---
MW-5	4/30/96	521.19	11.52	509.67	---
MW-5	8/14/96	521.19	12.03	509.16	---
MW-5	11/22/96	521.19	12.22	508.97	SD
MW-5	2/14/97	521.19	11.20	509.99	SD
MW-6	1/2/92	522.18	16.64	505.54	---
MW-6	4/2/91	522.18	15.61	506.57	---
MW-6	7/21/92	522.18	15.53	506.65	---
MW-6	10/9/92	522.18	15.69	506.49	---
MW-6	1/11/93	522.18	Not Monitored		
MW-6	5/5/93	522.18	Not Monitored		
MW-6	8/9/93	522.18	14.50	507.68	---
MW-6	10/14/93	522.18	Not Monitored		
MW-6	1/24/94	522.18	15.09	507.09	---
MW-6	5/31/94	522.18	14.64	507.54	---
MW-6	8/31/94	522.18	15.32	506.86	---
MW-6	11/2/94	522.18	15.32	506.86	---
MW-6	2/20/95	522.18	14.07	508.11	---
MW-6	5/9/95	522.18	14.30	507.88	---
MW-6	8/21/95	522.18	Well Inaccessible		
MW-6	10/20/95	522.18	14.31	507.87	---
MW-6	2/7/96	522.18	Not Monitored		
MW-6	4/30/96	522.18	Not Monitored		---
MW-6	8/14/96	522.18	Not Monitored		
MW-6	11/22/96	522.18	Not Monitored		
MW-6	2/14/97	522.18	Not Monitored		
MW-7	1/2/92	522.19	11.17	511.02	---
MW-7	4/2/92	522.19	10.34	511.85	---
MW-7	7/21/92	522.19	9.02	513.17	---
MW-7	10/9/92	522.19	Not 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)	Elevation of Groundwater (feet, MSL)	Floating Product
MW-7	1/11/93	522.19	Not Monitored		
MW-7	5/5/93	522.19	Not Monitored		
MW-7	8/9/93	522.19	Not Monitored		
MW-7	10/14/93	522.19	Not Monitored		
MW-7	1/24/94	522.19	Not Monitored		
MW-7	5/31/94	522.19	9.42	512.77	---
MW-7	8/31/94	522.19	6.84	515.35	---
MW-7	11/2/94	522.19	6.48	515.71	---
MW-7	2/20/95	522.19	7.71	514.48	---
MW-7	5/9/95	522.19	7.65	514.54	---
MW-7	8/21/95	522.19	7.83	514.36	---
MW-7	10/20/95	522.19	8.61	513.58	---
MW-7	2/7/96	522.19	Not Monitored		
MW-7	4/30/96	522.19	Not Monitored		
MW-7	8/14/96	522.19	Not Monitored		
MW-7	11/22/96	522.19	Not Monitored		
MW-7	2/14/97	522.19	Not Monitored		
MW-8	1/2/92	524.03	18.42	505.61	---
MW-8	4/2/92	524.03	17.39	506.64	---
MW-8	7/21/92	524.03	14.02	510.01	---
MW-8	10/9/92	524.03	Not Monitored		
MW-8	1/11/93	524.03	Not Monitored		
MW-8	5/5/93	524.03	Not Monitored		
MW-8	8/9/93	524.03	Not Monitored		
MW-8	10/14/93	524.03	Not Monitored		
MW-8	1/24/94	524.03	Not Monitored		
MW-8	5/31/94	524.03	19.65	504.38	---
MW-8	8/31/94	524.03	17.40	506.63	---
MW-8	11/2/94	524.03	17.38	506.65	---
MW-8	2/20/95	524.03	15.99	508.04	---
MW-8	5/9/95	524.03	16.54	507.49	---
MW-8	8/21/95	524.03	15.77	508.26	---
MW-8	10/20/95	524.03	16.24	507.79	---
MW-8	2/7/96	524.03	14.42	509.61	---
MW-8	4/30/96	524.03	14.65	509.38	---
MW-8	8/14/96	524.03	15.08	508.95	---
MW-8	11/22/96	524.03	15.35	508.68	---
MW-8	2/14/97	524.03	14.32	509.71	---
MSL = Mean Sea Level					
TOC = Top of Casing					
--- = None Present					
SD = Sheen detected in purge water					

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

Well	Date	TPHg	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE
Number	Sampled	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
MW-A	1/2/92	SP	SP	SP	SP	SP	NA
MW-A	4/2/92	27,000	1,200	570	1,700	2,300	NA
MW-A	7/21/92	57,000	1,500	1,800	2,700	7,100	NA
MW-A	10/9/92	56,000	2,900	2,600	4,600	12,000	NA
MW-A	1/11/93	NS	NS	NS	NS	NS	NA
MW-A	5/5/93	NS	NS	NS	NS	NS	NA
MW-A	8/9/93	NS	NS	NS	NS	NS	NA
MW-A	10/14/93	NS	NS	NS	NS	NS	NA
MW-A	1/24/94	1,400,000	6,900	2,100	15,000	38,000	NA
MW-A	5/31/94	48,000	1,200	900	1,900	4,200	NA
MW-A	8/31/94	24,000	140	120	830	1,500	NA
MW-A	11/2/94	15,000	230	360	1,100	1,800	NA
MW-A	2/20/95	12,000	290	330	570	1,300	NA
MW-A	5/9/95	1,200	6.1	5.9	12	15	NA
MW-A	8/21/95	9,600	85	140	250	860	160
MW-A	10/20/95	360	5.2	7.9	15	43	NA
MW-A	2/7/96	6,100	130	180	320	840	NA
MW-A	4/30/96	410	1.2	0.67	1.2	1.5	NA
MW-A	8/14/96	3,000	65	75	170	460	57
MW-A	11/22/96	6,300	100	170	310	710	64
MW-A	2/14/97	8,100	140	180	700	1,600	<300
MW-B	1/2/92	SP	SP	SP	SP	SP	NA
MW-B	4/2/92	1,900	ND	39	24	35	NA
MW-B	7/21/92	16,000	180	1,600	270	1,100	NA
MW-B	10/9/92	38,000	490	8,300	1,400	5,100	NA
MW-B	1/11/93	NS	NS	NS	NS	NS	NA
MW-B	5/5/93	NS	NS	NS	NS	NS	NA
MW-B	8/9/93	NS	NS	NS	NS	NS	NA
MW-B	10/14/93	NS	NS	NS	NS	NS	NA
MW-B	1/24/94	23,000	110	1,700	600	1,900	NA
MW-B	5/31/94	13,000	780	310	370	1,400	NA
MW-B	8/31/94	35,000	160	2,800	1,000	4,500	NA
MW-B	11/2/94	2,500	170	3,200	1,100	4,700	NA
MW-B	2/20/95	10,000	46	1,400	330	1,200	NA
MW-B	5/9/95	4,100	9.1	47	26	30	NA
MW-B	8/21/95	4,000	9.6	110	120	270	98
MW-B	10/20/95	9,300	35	1,300	370	1,300	NA
MW-B	2/7/96	8,900	33	700	110	360	NA
MW-B	4/30/96	5,500	17	460	120	400	NA
MW-B	8/14/96	9,000	<5	260	120	320	<300
MW-B	11/22/96	560,000	56	2,400	1,600	5,500	<3000
MW-B	2/14/97	4,600	5.2	110	72	210	<300
MW-1	1/2/92	16	6	ND	ND	ND	NA

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

Well	Date	TPHg	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE
Number	Sampled	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
MW-1	4/2/92	ND	ND	ND	ND	ND	NA
MW-1	7/21/92	<50	3.2	<0.5	<0.5	<0.5	NA
MW-1	10/9/92	<50	8.5	<0.5	<0.5	<0.5	NA
MW-1	1/11/93	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-1	5/5/93	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-1	8/9/93	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-1	10/14/93	440	16	2.9	2.9	11	NA
MW-1	5/31/94	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-1	8/31/94	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-1	11/2/94	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-1	2/20/95	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-1	5/9/95	450	22	25	23	100	NA
MW-1	8/21/95	58	<0.5	1.5	1.8	4.5	<10
MW-1	10/20/95	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-1	2/7/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-1	4/30/96	NS	NS	NS	NS	NS	NA
MW-1	8/14/96	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-1	11/22/96	NS	NS	NS	NS	NS	NA
MW-1	2/14/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-2	1/2/92	ND	ND	ND	ND	ND	NA
MW-2	4/2/91	ND	ND	ND	ND	ND	NA
MW-2	7/21/92	NS	NS	NS	NS	NS	NA
MW-2	10/9/92	NS	NS	NS	NS	NS	NA
MW-2	1/11/93	NS	NS	NS	NS	NS	NA
MW-2	5/5/93	NS	NS	NS	NS	NS	NA
MW-2	8/9/93	NS	NS	NS	NS	NS	NA
MW-2	10/14/93	NS	NS	NS	NS	NS	NA
MW-2	1/24/94	NS	NS	NS	NS	NS	NA
MW-2	5/31/94	NS	NS	NS	NS	NS	NA
MW-2	8/31/94	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-2	11/2/94	NS	NS	NS	NS	NS	NA
MW-2	2/20/95	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-2	5/9/95	NS	NS	NS	NS	NS	NA
MW-2	8/21/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-2	10/20/95	NS	NS	NS	NS	NS	NA
MW-2	2/7/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-2	4/30/96	NS	NS	NS	NS	NS	NA
MW-2	8/14/96	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-2	11/22/96	NS	NS	NS	NS	NS	NA
MW-2	2/14/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-3	1/2/92	340	0.4	ND	ND	ND	NA
MW-3	4/2/92	160	5	ND	0.3	0.5	NA
MW-3	7/21/92	260	1.7	<0.5	<0.5	<0.5	NA

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

Well	Date	TPHg	Benzene	Toluene	Ethyl-	Xylenes	MTBE
Number	Sampled	(ppb)	(ppb)	(ppb)	benzene (ppb)	(ppb)	(ppb)
MW-3	10/9/92	88	<0.5	<0.5	<0.5	<0.5	NA
MW-3	1/11/93	130	<0.5	<0.5	<0.5	<0.5	NA
MW-3	5/5/93	340	1.8	<0.5	1.3	<0.5	NA
MW-3	8/9/93	610	18	<0.5	2.4	0.9	NA
MW-3	10/14/93	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-3	1/24/94	320	3.5	<0.5	<0.5	<0.5	NA
MW-3	5/31/94	830	11	12	5.0	1.2	NA
MW-3	8/31/94	660	2	<0.5	1	<0.5	NA
MW-3	11/2/94	1,500	260	36	34	76	NA
MW-3	2/20/95	410	1.2	1.9	1.4	2.2	NA
MW-3	5/9/95	730	23	43	21	95	NA
MW-3	8/21/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-3	10/20/95	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-3	2/7/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-3	4/30/96	NS	NS	NS	NS	NS	NA
MW-3	8/14/96	<50	<0.5	0.60	<0.5	<0.5	<30
MW-3	11/22/96	NS	NS	NS	NS	NS	NA
MW-3	2/14/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-4	1/2/92	ND	ND	ND	ND	ND	NA
MW-4	4/2/92	ND	ND	ND	ND	ND	NA
MW-4	7/21/92	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	10/9/92	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	1/11/93	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	5/5/93	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	8/9/93	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	10/14/93	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	1/24/94	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	5/31/94	NS	NS	NS	NS	NS	NA
MW-4	8/31/94	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	11/2/94	NS	NS	NS	NS	NS	NA
MW-4	2/20/95	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	5/9/95	NS	NS	NS	NS	NS	NA
MW-4	8/21/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-4	10/20/95	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	2/7/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	4/30/96	NS	NS	NS	NS	NS	NA
MW-4	8/14/96	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-4	11/22/96	NS	NS	NS	NS	NS	NA
MW-4	2/14/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-5	1/2/92	1,800	74	41	84	94	NA
MW-5	4/2/92	ND	ND	ND	ND	ND	NA
MW-5	7/21/92	1,000	69	16	40	31	NA
MW-5	10/9/92	3,400	890	51	110	110	NA

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

Well	Date	TPHg	Benzene	Toluene	Ethyl-	Xylenes	MTBE
Number	Sampled	(ppb)	(ppb)	(ppb)	benzene (ppb)	(ppb)	(ppb)
MW-5	1/11/93	15,000	460	110	900	370	NA
MW-5	5/5/93	4,500	160	19	280	110	NA
MW-5	8/9/93	2,300	180	19	130	80	NA
MW-5	10/14/93	2,200	160	27	90	64	NA
MW-5	1/24/94	2,600	69	11	65	25	NA
MW-5	5/31/94	3,100	130	64	140	120	NA
MW-5	8/31/94	600	20	2.9	14	7.1	NA
MW-5	11/2/94	2,300	68	18	52	54	NA
MW-5	2/20/95	12,000	130	<30	240	138	NA
MW-5	5/9/95	2,500	57	60	54	37	NA
MW-5	8/21/95	11,000	91	28	140	120	<100
MW-5	10/20/95	2,300	38	3.8	28	19	NA
MW-5	2/7/96	1,800	35	8.1	37	20	NA
MW-5	4/30/96	NS	NS	NS	NS	NS	NA
MW-5	8/14/96	3,500	130	22	170	47	71
MW-5	11/22/96	3,500	160	15	190	28	<200
MW-5	2/14/97	2,900	150	54	330	68	<300
MW-6	1/2/92	23	ND	0.3	0.6	3	NA
MW-6	4/2/92	ND	ND	ND	ND	ND	NA
MW-6	7/21/92	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-6	10/9/92	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-6	1/11/93	NS	NS	NS	NS	NS	NA
MW-6	5/5/93	NS	NS	NS	NS	NS	NA
MW-6	8/9/93	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-6	10/14/93	NS	NS	NS	NS	NS	NA
MW-6	1/24/94	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-6	5/31/94	NS	NS	NS	NS	NS	NA
MW-6	8/31/94	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-6	11/2/94	NS	NS	NS	NS	NS	NA
MW-6	2/20/95	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-6	5/9/95	NS	NS	NS	NS	NS	NA
MW-6	8/21/95	NS	NS	NS	NS	NS	NA
MW-6	10/20/95	NS	NS	NS	NS	NS	NA
MW-6	2/7/96	NS	NS	NS	NS	NS	NA
MW-6	4/30/96	NS	NS	NS	NS	NS	NA
MW-6	8/14/96	NS	NS	NS	NS	NS	NA
MW-6	11/22/96	NS	NS	NS	NS	NS	NA
MW-6	2/14/97	NS	NS	NS	NS	NS	NA
MW-7	1/2/92	NS	NS	NS	NS	NS	NA
MW-7	4/2/92	ND	ND	ND	ND	ND	NA
MW-7	7/21/92-11/22/96	NS	NS	NS	NS	NS	NA
MW-7	2/14/97	NS	NS	NS	NS	NS	NA

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-8	1/2/92	12,000	32	980	200	760	NA
MW-8	4/2/92	ND	ND	ND	ND	ND	NA
MW-8	7/21/92	NS	NS	NS	NS	NS	NA
MW-8	10/9/93	NS	NS	NS	NS	NS	NA
MW-8	1/11/93	NS	NS	NS	NS	NS	NA
MW-8	5/5/93	NS	NS	NS	NS	NS	NA
MW-8	8/9/93	NS	NS	NS	NS	NS	NA
MW-8	10/14/93	NS	NS	NS	NS	NS	NA
MW-8	1/24/94	NS	NS	NS	NS	NS	NA
MW-8	5/31/94	NS	NS	NS	NS	NS	NA
MW-8	8/31/94	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-8	11/2/94	NS	NS	NS	NS	NS	NA
MW-8	2/20/95	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-8	5/9/95	NS	NS	NS	NS	NS	NA
MW-8	8/21/95	<50	<0.5	<0.5	0.67	0.62	<10
MW-8	10/20/95	NS	NS	NS	NS	NS	NA
MW-8	2/7/96	<50	7.0	<0.5	<0.5	<0.5	NA
MW-8	4/30/96	61	9.6	<0.5	<0.5	<0.5	NA
MW-8	8/14/96	<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	2/14/97	<50	<0.5	<0.5	<0.5	<0.5	<30
NS = Not Sampled							
ND = None Detected							
SP = Separate-phase petroleum hydrocarbons							
TPHg = Total petroleum hydrocarbons as gasoline							
< = Less than the detection limit for the specified method of analysis							

801 Western Avenue
 Glendale, CA 91201
 818/247-5737
 Fax: 818/247-9797

LOG NO: G97-02-359
 Received: 17 FEB 97
 Mailed: **FEB 25 1997**

Ms. Rebecca Digerness
 Texaco Environmental Services
 108 Cutting Boulevard
 Richmond, CA 94804

Purchase Order: 94-1446346+4370

Requisition: 618571050
 Project: FKEP9023L

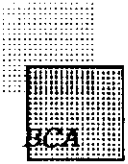
REPORT OF ANALYTICAL RESULTS

Page 1

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)	ANALYTICAL DATA								
			Date Analyzed Date	Dilution Factor Times	TPH-g ug/L	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Methyl-tert-butylether ug/L	Total Xylenes Isomers ug/L	Carbon Range
RDL				1	50	0.5	0.5	0.5	30	0.5	
1*MW-4	02/14/97	02/20/97		1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12
2*MW-8	02/14/97	02/20/97		1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12
3*MW-2	02/14/97	02/21/97		1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12
4*MW-1	02/14/97	02/21/97		1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12
5*MW-3	02/14/97	02/21/97		1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12
6*MW-A	02/14/97	02/21/97		10	8100	140	180	700	<300	1600	C6-C12
7*MW-5	02/14/97	02/20/97		10	2900	150	54	330	<300	68	C6-C12
8*MW-B	02/14/97	02/21/97		10	4600	5.2	110	72	<300	210	C6-C12

Karen Petryna
 930 Springtown Blvd., Livermore
 Alameda County



801 Western Avenue
 Glendale, CA 91201
 818/247-5737
 Fax: 818/247-9797

LOG NO: G97-02-359

Received: 17 FEB 97

Ms. Rebecca Digerness
 Texaco Environmental Services
 108 Cutting Boulevard
 Richmond, CA 94804

Purchase Order: 94-1446346+4370

Requisition: 618571050
 Project: FKEP9023L

REPORT OF ANALYTICAL RESULTS

Page 2

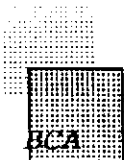
AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)	Date Analyzed	Dilution Factor	TPH-g	Benzene	Toluene	Ethyl-Benzene	Methyl-tert-butylether	Total Xylenes Isomers	Carbon Range
			Date	Times	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
RDL				1	50	0.5	0.5	0.5	30	0.5	
9*EB	02/14/97	02/21/97		1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12

[Signature]
 Greta Galoustian, Laboratory Director

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

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ORDER PLACED FOR CLIENT: Texaco Environmental Services 9702359 :
BC ANALYTICAL : GLEN LAB : 09:59:46 25 FEB 1997 - P. 1 :

=====

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE.....	METHOD.....	EQUIP.	BATCH..	ID.NO
			ANALYZED				
02359*1	MW-4	GAS.MTBE.TESNC	02.20.97	8015M.TX	536-23	975014	
02359*2	MW-8	GAS.MTBE.TESNC	02.20.97	8015M.TX	536-23	975014	
02359*3	MW-2	GAS.MTBE.TESNC	02.21.97	8015M.TX	536-23	975014	
02359*4	MW-1	GAS.MTBE.TESNC	02.21.97	8015M.TX	536-23	975014	
02359*5	MW-3	GAS.MTBE.TESNC	02.21.97	8015M.TX	536-23	975015	
02359*6	MW-A	GAS.MTBE.TESNC	02.21.97	8015M.TX	536-23	975014	
02359*7	MW-5	GAS.MTBE.TESNC	02.20.97	8015M.TX	536-21	972029	8866
02359*8	MW-B	GAS.MTBE.TESNC	02.21.97	8015M.TX	536-23	975015	
02359*9	EB	GAS.MTBE.TESNC	02.21.97	8015M.TX	536-23	975015	

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

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

SURROGATE RECOVERIES :

BC ANALYTICAL : GLEN LAB : 10:00:40 25 FEB 1997 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
02359*1							
15M.TXa	a,a-Trifluorotoluene	Re975014	02/20/97	42.2	50.0	84	
02359*2							
15M.TXa	a,a-Trifluorotoluene	Re975014	02/20/97	45.0	50.0	90	
02359*3							
15M.TXa	a,a-Trifluorotoluene	Re975014	02/21/97	45.2	50.0	90	
02359*4							
15M.TXa	a,a-Trifluorotoluene	Re975014	02/21/97	43.4	50.0	87	
02359*5							
15M.TXa	a,a-Trifluorotoluene	Re975015	02/21/97	45.2	50.0	90	
02359*6							
15M.TXa	a,a-Trifluorotoluene	Re975014	02/21/97	455	500	91	
02359*7							
15M.TXa	a,a-Trifluorotoluene	Re972029	02/20/97	566	500	113	
02359*8							
15M.TXa	a,a-Trifluorotoluene	Re975015	02/21/97	488	500	98	
02359*9							
15M.TXa	a,a-Trifluorotoluene	Re975015	02/21/97	43.5	50.0	87	

Chain of Custody

Taxaco 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

Site Name:

Taxaco Loc. # 618571050

Site Address:

930 Springtown Blvd. Livermore, CA

Contractor Project Number:

97024-W1

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

Laboratory:

B C Analytical

Turn Around Time:

normal (10 day)

Samplers (PRINT NAME):

WR Jones

Sampler Signature:

[Signature]

Date Samples Collected:

2/14/97

ANALYSIS

Sample Number	Lab Sample Number	Date/Time Collected	No. of Containers	Type of Containers	Sample Matrix	Preservative	TPH gas/BTEX / MTBE	TPH Diesel	O&G/TPH (418.1)	TPH Ex. (C8-C36 +)	VOCs 8240/624	P. Halocarbons 8010/80	P. Aromatics 8020/602	Organic Lead	Comments
MW4		2/14/97 055	3		W		X								
MW8		1/95													
MW2		1/930													
MW1		1/945													
MW3		1/1000													
MW-A		1/1020													
MW5		1/1040													
MW3		1/1125													
EB		1/925													

Relinquished by:

(Signature)

[Signature]

Date:

2-17-97

Time:

12:35

Received by:

(Signature)

[Signature]

Date:

2-17-97

Time:

12:35

Relinquished by:

(Signature)

[Signature]

Date:

2-17-97

Time:

2:30

Received by:

(Signature)

[Signature]

Date:

2/17/97

Time:

2:30

Relinquished by:

(Signature)

[Signature]

Date:

2/18/97

Time:

5:30

Received by:

(Signature)

[Signature]

Date:

2/19/97

Time:

7:35

Method of Shipment:

Lab Comments:

430 Springtown Blvd, Livermore

Well Gauging Data

Project Name: TEVALCO
Project Number: 97024-W1

Date: 2/14
Recorded By: WJ

Well ID	TOC Elev.	DTB (ft. TOC)	Well Dia. (in.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW A		16.37	2		10.00		
MWB		21.60	2		7.75		ODR
MW1		25.36	4		10.25		
MW 2		22.55	4		7.92		
MW 3		24.52	4		9.38		
MW 4		24.95	3		8.85		
MW 5		21.35	2		11.20		
MW B		24.15	4		14.32		

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>970214-W1</u>	Texaco ID#: <u>618571050</u>
Sampler: <u>WJ</u>	Date: <u>2/14/97</u>
Well I.D.: <u>MW-A</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>16.37</u>	Depth to Water: <u>10.00</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"	0.66	8"	2.60
4.5"	0.83	Other	radius ² * 0.164

Purge Method: S.S. Bailer Teflon Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: S.S. Bailer Teflon Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
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<u>1.1</u>	x	<u>3</u>	=	<u>3.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>1011</u>	<u>64.0</u>	<u>7.3</u>	<u>1100</u>	<u>7200</u>	<u>1.5</u>	<u>ODOR</u>
<u>1014</u>	<u>64.4</u>	<u>7.4</u>	<u>1000</u>	<u>720</u>	<u>3.0</u>	
<u>1016</u>	<u>64.6</u>	<u>7.4</u>	<u>1000</u>	<u>7200</u>	<u>3.5</u>	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>3.5</u>
Sampling Time: <u>1020</u>	Sampling Date: <u>2/14</u>
Sample I.D.: <u>MW-A</u>	Laboratory: <u>BC Analytical</u>
Analyzed for: <u>(Tph-G BTEX)</u> Tph-D <u>(Other: MTBB)</u>	
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: <u>970214-WJ</u>	Texaco ID#: <u>61857 1050</u>
Sampler: <u>WJ</u>	Date: <u>2/14/97</u>
Well I.D.: <u>MW-B</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>21.60</u>	Depth to Water: <u>7.75</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"	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: _____	Sampling Method: S.S. Bailer Teflon Bailer ✓ Extraction Port Other: _____
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<u>2.4</u>	x	<u>3</u>	=	<u>7.2</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1052	63.0	7.6	1800	> 200	2.5	STRONG ODOR
1057	63.2	7.8	1800	> 200	5.0	SHARP
1102	62.6	7.8	1800	> 20	7.5	

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Gallons actually evacuated: <u>7.5</u>
Sampling Time: <u>1105</u>	Sampling Date: <u>2/14</u>
Sample I.D.: <u>MW-B</u>	Laboratory: <u>BC Analytical</u>
Analyzed for: <u>Tph-G BTEX</u> Tph-D <u>Other: MTBA</u>	
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 970214-W1	Texaco ID#: 618571050
Sampler: WS	Date: 2/14/97
Well I.D.: MW-1	Well Diameter: 2 3 4 6 8
Total Well Depth: 25.36	Depth to Water: 10.25
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 <input checked="" type="checkbox"/> Extraction Pump Other: _____	Sampling Method: S.S. Bailer <input checked="" type="checkbox"/> Teflon Bailer Extraction Port Other: _____
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<u>10.0</u>	X	<u>3</u>	=	<u>30.0</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
938	64.2	7.4	2200	34	100	
940	63.4	7.2	2200	7200	200	
941	63.6	7.2	2200	7200	300	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 300
Sampling Time: 945	Sampling Date: 2/14
Sample I.D.: MW-1	Laboratory: BC Analytical
Analyzed for: Tph-G BTEX Tph-D Other: MTBB	
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: <u>970214-W1</u>	Texaco ID#: <u>618571050</u>
Sampler: <u>WT</u>	Date: <u>2/14/97</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>2255</u>	Depth to Water: <u>7.92</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"	0.58	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 <input checked="" type="checkbox"/> Extraction Pump Other: _____	Sampling Method: S.S. Bailer <input checked="" type="checkbox"/> Teflon Bailer Extraction Port Other: _____
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<u>9.7</u>	x	<u>3</u>	=	<u>29.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>922</u>	<u>64.6</u>	<u>7.4</u>	<u>1800</u>	<u>720</u>	<u>10.0</u>	<u>- Roots in Well</u>
<u>924</u>	<u>64.2</u>	<u>7.4</u>	<u>2000</u>	<u>720</u>	<u>20.0</u>	
<u>925</u>	<u>64.2</u>	<u>7.4</u>	<u>1900</u>	<u>720</u>	<u>29.5</u>	

Did well dewater? Yes <input type="checkbox"/> (No)	Gallons actually evacuated: <u>29.5</u>
Sampling Time: <u>930</u>	Sampling Date: <u>2/14</u>
Sample I.D.: <u>MW-2</u>	Laboratory: <u>BC Analytical</u>
Analyzed for: (Tph-G BTEX) Tph-D (Other: MTBB)	
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: <u>970214-W1</u>	Texaco ID#: <u>618571050</u>
Sampler: <u>W5</u>	Date: <u>2/14/97</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>2452</u>	Depth to Water: <u>938</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"	0.66	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: <input checked="" type="checkbox"/> S.S. Bailer <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Extraction Port Other: _____
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<u>10.0</u>	x	<u>3</u>	=	<u>30.0</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>951</u>	<u>65.0</u>	<u>7.2</u>	<u>1800</u>	<u>36</u>	<u>10.0</u>	
<u>952</u>	<u>65.6</u>	<u>7.2</u>	<u>1800</u>	<u>39</u>	<u>20.0</u>	
<u>954</u>	<u>65.2</u>	<u>7.1</u>	<u>1800</u>	<u>40</u>	<u>30.0</u>	

Did well dewater? Yes <input type="checkbox"/> <input checked="" type="checkbox"/> No	Gallons actually evacuated: <u>30.0</u>
Sampling Time: <u>1000</u>	Sampling Date: <u>2/14</u>
Sample I.D.: <u>MW-3</u>	Laboratory: <u>BC Analytical</u>
Analyzed for: <u>Tph-G BTEX</u> Tph-D <u>Other: MTBB</u>	
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 970214-W1	Texaco ID#: 618571050
Sampler: WJ	Date: 2/14/97
Well I.D.: MW4	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 24.95	Depth to Water: 8.5
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: _____	Sampling Method: S.S. Bailer ✓ Teflon Bailer Extraction Port Other: _____
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6.1	x	3	=	18.3	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
8:03	65.4	6.4	1400	121	6.5	
8:44	65.2	7.0	1400	142	13.0	
8:50	65.	7	1400	117	18.5	

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Gallons actually evacuated: 18.5
Sampling Time: 8:55	Sampling Date: 2/14
Sample I.D.: MW4	Laboratory: BC Analytical
Analyzed for: <u>Tph-G BTEX</u> Tph-D <u>Other: 117188</u>	
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: <u>970214-W1</u>	Texaco ID#: <u>618571050</u>
Sampler: <u>WS</u>	Date: <u>2/14/97</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>(12)</u> 3 4 6 8 _____
Total Well Depth: <u>21.35</u>	Depth to Water: <u>11.20</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"	0.66	8"	2.60
4.5"	0.83	Other	radius ² * 0.164

Purge Method: S.S. Bailer Teflon Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: S.S. Bailer Teflon Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
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<u>1.7</u>	x	<u>3</u>	=	<u>5.1</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>1029</u>	<u>65.0</u>	<u>7.8</u>	<u>1100</u>	<u>7200</u>	<u>2.0</u>	
<u>1033</u>	<u>64.6</u>	<u>7.4</u>	<u>1200</u>	<u>7200</u>	<u>4.0</u>	
<u>1036</u>	<u>65.2</u>	<u>7.4</u>	<u>1300</u>	<u>7200</u>	<u>5.5</u>	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>5.5</u>
Sampling Time: <u>1040</u>	Sampling Date: <u>2/14</u>
Sample I.D.: <u>MWS</u>	Laboratory: <u>BC Analytical</u>
Analyzed for: <u>Tph-G BTEX</u> Tph-D <u>Other: <u>MTTB</u></u>	
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 970214-W1	Texaco ID#: 618571050
Sampler: WJ	Date: 2/14/97
Well I.D.: MW8	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 24.15	Depth to Water: 14.32
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: _____	Sampling Method: S.S. Bailer ✓ Teflon Bailer Extraction Port Other: _____
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<u>6.5</u>	x	<u>3</u>	=	<u>19.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
909	62.8	7.3	1600	67	6.5	
910	62.6	7.2	1600	37	13.0	
911	62.6	7.2	1600	14	19.5	

Did well dewater? Yes (No)	Gallons actually evacuated: 19.5
Sampling Time: 915	Sampling Date: 2/14
Sample I.D.: MW8	Laboratory: BC Analytical
Analyzed for: Tph-G BTEX Tph-D (Other: MTBB)	
Equipment Blank I.D.: EB@905	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: 985 Timothy Drive
 City, State, ZIP: San Jose, CA 95133
 Phone: (408) 995-5535

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 destination 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 #: _____
 Address: _____
 City, State, ZIP: _____
 Texaco #618571050
 930 Springtown Blvd.
 Livermore, CA

Well I.D.	Gals.	Well I.D.	Gals.
/		/	
<u>Purw Well A</u>	<u>144.0</u>	/	
/		/	
/		/	
/		/	
/		/	
/		/	
/		/	
/		/	
/		/	
/		/	
/		/	

Total gals. ~~150~~ added rinse water 15.0

Total Gals. Recovered 2 159.0

Job #: 970214-WJ
 Date: 2/14/97
 Time: 1130
 Signature: J

REC'D AT: BTJ
 Date: 2/14/97
 Time: 1330
 Signature: J

QUARTERLY SUMMARY REPORT
Former Texaco Service Station/Current Seven-Eleven Store
930 Springtown, Livermore, California
Alameda County
Fourth Quarter 1996

HISTORY OF INVESTIGATIVE AND REMEDIAL ACTIONS

Subsurface investigation was initiated in September, 1984 with the installation of two groundwater monitoring wells (MW-A and MW-B). 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.

WORK PERFORMED DURING THIS QUARTER

Ground water monitoring and sampling was performed.

CHARACTERIZATION STATUS

SOIL: The extent of hydrocarbons in soil has been defined laterally.

GROUND WATER: The extent of dissolved hydrocarbons in ground water is defined.

REMEDICATION STATUS

A soil vapor extraction system previously operated (see above). The system was turned off after obtaining permission from the ACDEH.

WORK TO BE PERFORMED NEXT QUARTER

Continuation of the ground water monitoring and sampling program.

COMPANY CONTACT:

Texaco:	Karen Petryna (510) 236-9139
Property Owner:	Southland Corp., Bob Vasquez (916) 852-6880
Lead Agency:	Eva Chu (510) 567-6762 (ACDEH)