Texaco Refining
and Marketing Inc
[illegible] Boulevard
Richmond CA 94804

April 2, 1997

ENV - STUDIES, SURVEYS, & REPORTS
1127 Lincoln Avenue, Alameda, California
Quarterly Monitoring Report

Ms. Juliet Shin
Alameda County
Hazardous Materials
1131 Harbor Bay Pky
Alameda, CA 94502-6577

Dear Ms. Shin:

This letter presents the results of groundwater monitoring and sampling conducted by Blaine Tech Services, Inc. on February 4, 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 north-northwest (see Plate 2, Groundwater Gradient Map). TPHg and benzene concentrations are shown on Plate 3. Tables 1 and 2 list historical groundwater monitoring data and analytical results, respectively.

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 first quarter, 1995 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

REGISTERED PROFESSIONAL ENGINEER
KAREN E. PETRYNA
C55126
Exp. 6/30/00
CIVIL
STATE OF CALIFORNIA

RBD:hs

C \QMR\1127L\QMR LET

Enclosure

cc: Mr. Richard Hiett
CRWQCB - San Francisco Bay Region
2101 Webster St., Suite 500
Oakland, CA 94621

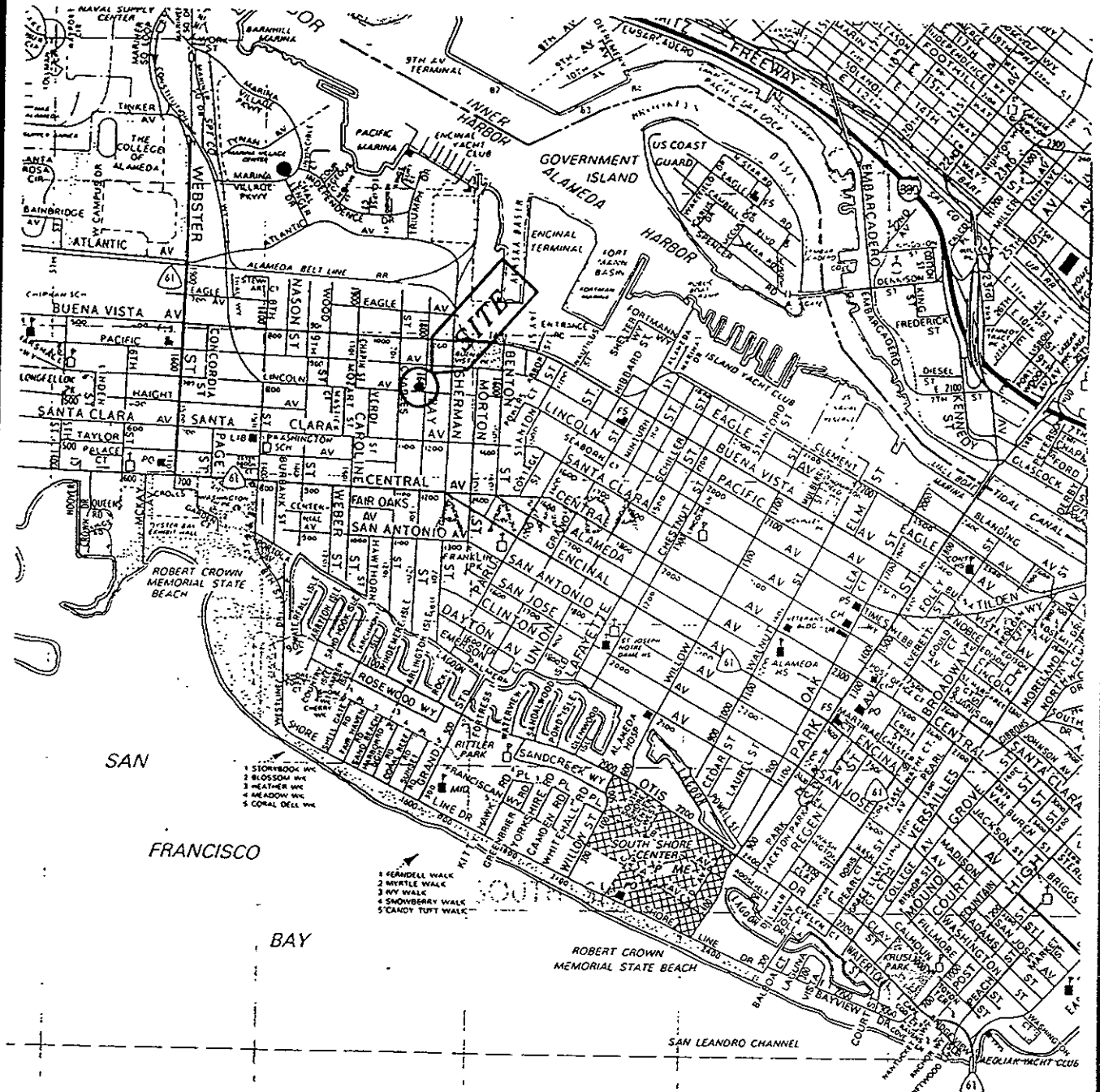
Mr. Leo Pagano
1127 Lincoln Avenue
Alameda, CA 94602

Mr. Sarkis Soghomonian
Kaprealian Engineering, Inc.
2401 Stanwell Dr., Suite 400
Concord, CA 94520

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

pr: 23

GROUNDWATER MONITORING AND SAMPLING
First Quarter, 1997
at the
Former Texaco Service Station
1127 Lincoln Avenue
Alameda, California



SOURCE:

1993 THE THOMAS GUIDE
ALAMEDA COUNTY EAGLE

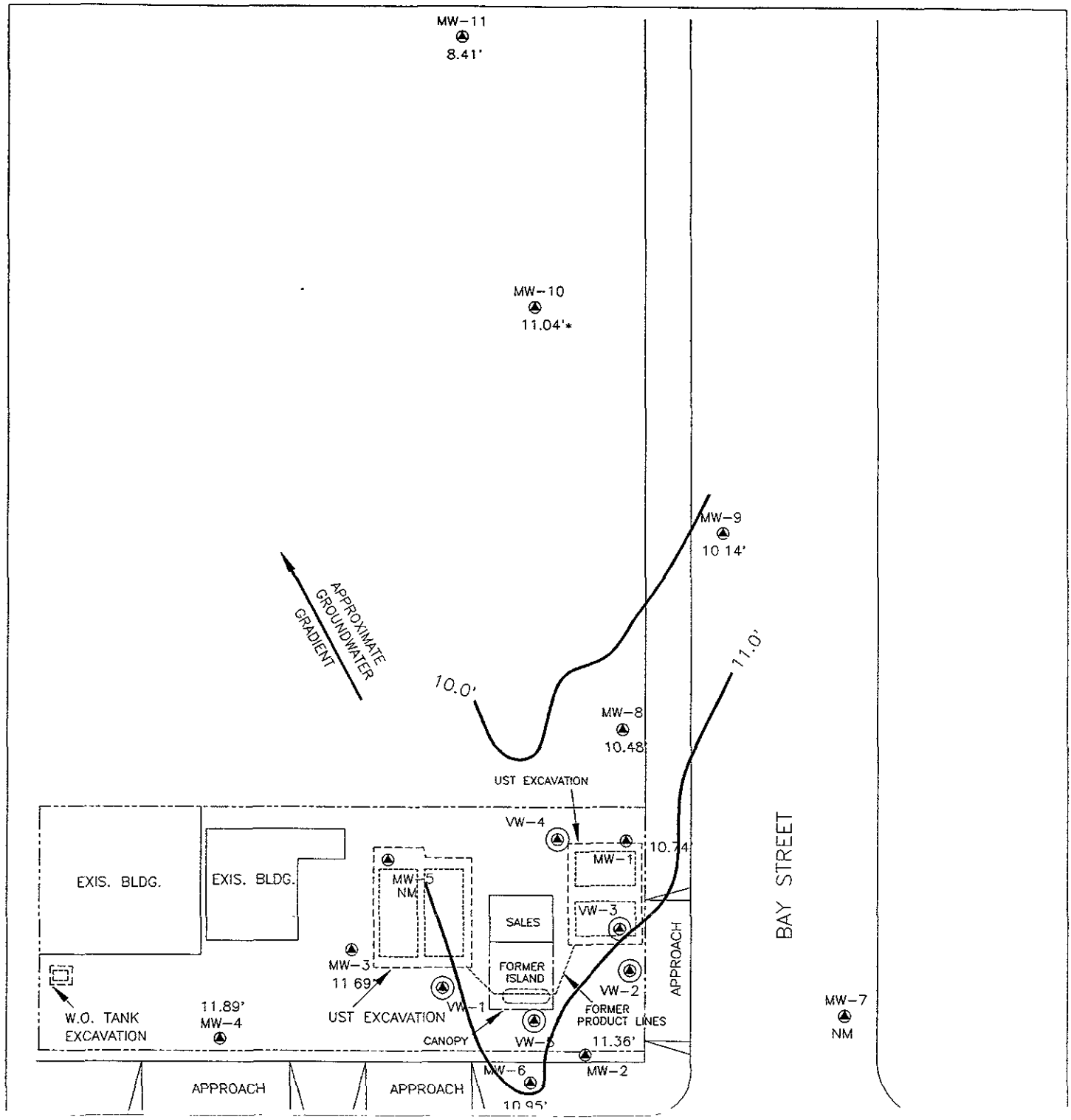
TEXACO

PETROLEUM AND MARKETING, INC.
TEXACO ENVIRONMENTAL SERVICES

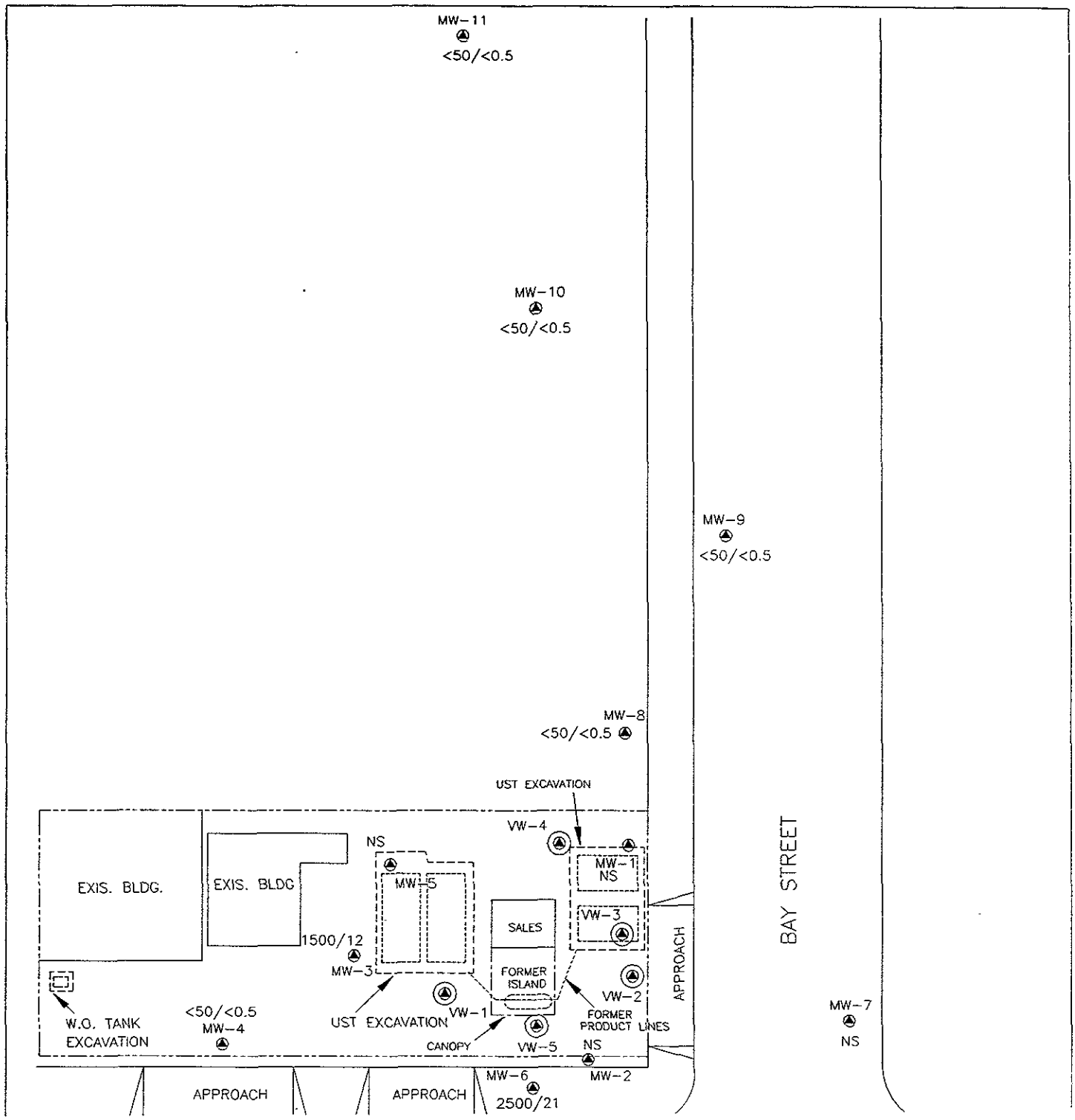
PLATE

SITE MAP

FORMER TEXACO SERVICE STATION


MW-11
8.41'
MW-10
11.04'*
MW-9
10 14'
APPROXIMATE GROUNDWATER GRADIENT
10.0'
11.0'
MW-8
10.48'
UST EXCAVATION
VW-4
MW-1
10.74'
EXIS. BLDG.
EXIS. BLDG.
MW-5
NM
SALES
VW-3
MW-3
11 69
FORMER ISLAND
VW-2
APPROACH
BAY STREET
W.O. TANK EXCAVATION
11.89'
MW-4
UST EXCAVATION
VW-1
FORMER PRODUCT LINES
CANOPY
VW-5
11.36'
MW-2
MW-7
NM
MW-6
APPROACH
APPROACH
10.95'

4/2/97


MW-11
<50/<0.5
MW-10
<50/<0.5
MW-9
<50/<0.5
MW-8
<50/<0.5
UST EXCAVATION
VW-4
NS
MW-1
NS
MW-5
VW-3
SALES
EXIS. BLDG.
EXIS. BLDG
1500/12
MW-3
FORMER
ISLAND
VW-2
APPROACH
BAY STREET
W.O. TANK
EXCAVATION
<50/<0.5
MW-4
UST EXCAVATION
VW-1
FORMER
PRODUCT LINES
CANOPY
VW-5
NS
MW-2
MW-7
NS
APPROACH
APPROACH
MW-6
2500/21

RBD
KEG
4/2/97

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-1	1/26/93	16.14	5.63	10.51
MW-1	2/4/93	16.14	6.02	10.12
MW-1	3/9/93	16.14	5.92	10.22
MW-1	5/6/93	16.14	6.76	9.38
MW-1	6/15/93	16.14	6.81	9.33
MW-1	7/26/93	16.14	Inaccessible - VES	
MW-1	8/31/93	16.14	Inaccessible - VES	
MW-1	9/27/93	16.14	Inaccessible - VES	
MW-1	10/19/93	16.14	Inaccessible - VES	
MW-1	11/15/93	16.14	Inaccessible - VES	
MW-1	12/17/93	16.14	Inaccessible - VES	
MW-1	2/7/94	16.14	Inaccessible - VES	
MW-1	5/20/94	16.14	Inaccessible - VES	
MW-1	8/22/94	16.14	7.78	8.36
MW-1	11/2/94	16.14	Inaccessible - VES	
MW-1	2/14/95	16.14	15.16	0.98
MW-1	5/19/95	16.14	13.90	2.24
MW-1	8/22/95	16.14	7.06	9.08
MW-1	10/25/95	16.14	Inaccessible	
MW-1	2/9/96	16.14	Inaccessible	
MW-1	4/11/96	16.14	Inaccessible	
MW-1	8/1/96	16.14	Inaccessible	
MW-1	11/11/96	16.14	Inaccessible	
MW-1	2/4/97	16.14	5.40	10.74
MW-2	1/26/93	16.84	6.29	10.55
MW-2	2/4/93	16.84	6.60	10.24
MW-2	3/9/93	16.84	6.36	10.48
MW-2	5/6/93	16.84	6.37	10.47
MW-2	6/15/93	16.84	7.04	9.80
MW-2	7/26/93	16.84	Inaccessible - VES	
MW-2	8/31/93	16.84	Inaccessible - VES	
MW-2	9/27/93	16.84	Inaccessible - VES	
MW-2	10/19/93	16.84	Inaccessible - VES	
MW-2	11/15/93	16.84	Inaccessible - VES	
MW-2	12/17/93	16.84	Inaccessible - VES	
MW-2	2/7/94	16.84	Inaccessible - VES	
MW-2	5/20/94	16.84	Inaccessible - VES	
MW-2	8/22/94	16 84	8 08	8 76
MW-2	11/2/94	16 84	Inaccessible - VES	
MW-2	2/14/95	16 84	Inaccessible - VES	
MW-2	5/19/95	16 84	11 77	5 07
MW-2	8/22/95	16 84	7 22	9 62
MW-2	10/25/95	16 84	12 11	4 73
MW-2	2/9/96	16 84	Inaccessible	

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-2	4/11/96	16.84	11.20	5.64
MW-2	8/1/96	16.84	7.00	9.84
MW-2	11/11/96	16.84	Inaccessible	
MW-2	2/4/97	16.84	5.48	11.36
MW-3	1/26/93	16.86	5.82	11.04
MW-3	2/4/93	16.86	6.01	10.85
MW-3	3/9/93	16.86	5.88	10.98
MW-3	5/6/93	16.86	6.38	10.48
MW-3	6/15/93	16.86	Inaccessible - VES	
MW-3	7/26/93	16.86	7.22	9.64
MW-3	8/31/93	16.86	7.87	8.99
MW-3	9/27/93	16.86	8.58	8.28
MW-3	10/19/93	16.86	9.13	7.73
MW-3	11/15/93	16.86	8.84	8.02
MW-3	12/17/93	16.86	7.80	9.06
MW-3	2/7/94	16.86	8.43	8.43
MW-3	5/20/94	16.86	6.79	10.07
MW-3	8/22/94	16.86	8.32	8.54
MW-3	11/2/94	16.86	10.98	5.88
MW-3	2/14/95	16.86	7.93	8.93
MW-3	5/19/95	16.86	8.44	8.42
MW-3	8/22/95	16.86	7.54	9.32
MW-3	10/25/95	16.86	9.03	7.83
MW-3	2/9/96	16.86	7.05	9.81
MW-3	4/11/96	16.86	7.44	9.42
MW-3	8/1/96	16.86	7.08	9.78
MW-3	11/11/96	16.86	7.84	9.02
MW-3	2/4/97	16.86	5.17	11.69
MW-4	1/26/93	17.13	5.91	11.22
MW-4	2/4/93	17.13	6.14	10.99
MW-4	3/9/93	17.13	5.81	11.32
MW-4	5/6/93	17.13	6.49	10.64
MW-4	6/15/93	17.13	6.34	10.79
MW-4	7/26/93	17.13	7.29	9.84
MW-4	8/31/93	17.13	8.02	9.11
MW-4	9/27/93	17.13	Inaccessible - Car On Well	
MW-4	10/19/93	17.13	9.14	7.99
MW-4	11/15/93	17.13	9.01	8.12
MW-4	12/17/93	17.13	7.91	9.22
MW-4	2/7/94	17.13	8.02	9.11
MW-4	5/20/94	17.13	6.85	10.28
MW-4	8/22/94	17.13	8.48	8.65
MW-4	11/2/94	17.13	10.52	6.61

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-4	2/14/95	17.13	6.99	10.14
MW-4	5/19/95	17.13	7.61	9.52
MW-4	8/22/95	17.13	7.62	9.51
MW-4	10/25/95	17.13	8.62	8.51
MW-4	2/9/96	17.13	6.60	10.53
MW-4	4/11/96	17.13	6.54	10.59
MW-4	8/1/96	17.13	7.04	10.09
MW-4	11/11/96	17.13	7.95	9.18
MW-4	2/4/97	17.13	5.24	11.89
MW-5	1/26/93	15.59	Not Monitored	
MW-5	2/4/93	15.59	Inaccessible	
MW-5	3/9/93	15.59	5.45	10.14
MW-5	5/6/93	15.59	6.00	9.59
MW-5	6/15/93	15.59	7.81	7.78
MW-5	7/26/93	15.59	Inaccessible - VES	
MW-5	8/31/93	15.59	Inaccessible - VES	
MW-5	9/27/93	15.59	Inaccessible - VES	
MW-5	10/19/93	15.59	Inaccessible - VES	
MW-5	11/15/93	15.59	Inaccessible - VES	
MW-5	12/17/93	15.59	Inaccessible - VES	
MW-5	2/7/94	15.59	Inaccessible - VES	
MW-5	5/20/94	15.59	Inaccessible - VES	
MW-5	8/22/94	15.59	7.27	8.32
MW-5	11/2/94	15.59	Inaccessible - VES	
MW-5	2/14/95	15.59	Inaccessible - VES	
MW-5	5/19/95	15.59	11.55	4.04
MW-5	8/22/95	15.59	6.02	9.57
MW-5	10/25/95	15.59	11.05	4.54
MW-5	2/9/96	15.59	6.70	8.89
MW-5	4/11/96	15.59	12.21	3.38
MW-5	8/1/96	15.59	2.80	12.79
MW-5	11/11/96	15.59	Inaccessible	
MW-5	2/4/97	15.59	Inaccessible	
MW-6	1/26/93	17.05	6.63	10.42
MW-6	2/4/93	17.05	6.48	10.57
MW-6	3/9/93	17.05	6.68	10.37
MW-6	5/6/93	17.05	6.93	10.12
MW-6	6/15/93	17.05	7.00	10.05
MW-6	7/26/93	17.05	7.25	9.80
MW-6	8/31/93	17.05	7.83	9.22
MW-6	9/27/93	17.05	8.38	8.67
MW-6	10/19/93	17.05	8.76	8.29
MW-6	11/15/93	17.05	8.65	8.40

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-6	12/17/93	17.05	7.78	9.27
MW-6	2/7/94	17.05	7.90	9.15
MW-6	5/20/94	17.05	6.95	10.10
MW-6	8/22/94	17.05	8.17	8.88
MW-6	11/2/94	17.05	10.56	6.49
MW-6	2/14/95	17.05	8.08	8.97
MW-6	5/19/95	17.05	8.51	8.54
MW-6	8/22/95	17.05	7.50	9.55
MW-6	10/25/95	17.05	8.61	8.44
MW-6	2/9/96	17.05	7.26	9.79
MW-6	4/11/96	17.05	7.41	9.64
MW-6	8/1/96	17.05	7.10	9.95
MW-6	11/11/96	17.05	8.04	9.01
MW-6	2/4/97	17.05	6.10	10.95
MW-7	1/26/93	16.65	6.53	10.12
MW-7	2/4/93	16.65	6.40	10.25
MW-7	3/9/93	16.65	6.52	10.13
MW-7	5/6/93	16.65	Inaccessible	
MW-7	6/15/93	16.65	6.69	9.96
MW-7	7/26/93	16.65	Inaccessible	
MW-7	8/31/93	16.65	Inaccessible	
MW-7	9/27/93	16.65	7.97	8.68
MW-7	10/19/93	16.65	8.24	8.41
MW-7	11/15/93	16.65	8.22	8.43
MW-7	12/17/94	16.65	Inaccessible	
MW-7	2/7/94	16.65	Inaccessible	
MW-7	5/20/94	16.65	Inaccessible	
MW-7	8/22/94	16.65	7.78	8.87
MW-7	11/2/94	16.65	9.70	6.95
MW-7	2/14/95	16.65	Inaccessible	
MW-7	5/19/95	16.65	7.33	9.32
MW-7	8/22/95	16.65	6.72	9.93
MW-7	10/25/95	16.65	Inaccessible	
MW-7	2/9/96	16.65	7.06	9.59
MW-7	4/11/96	16.65	Inaccessible	
MW-7	8/1/96	16.65	6.94	9.71
MW-7	11/11/96	16.65	Inaccessible	
MW-7	2/4/97	16.65	Inaccessible	
MW-8	1/26/93	15.87	5.30	10.57
MW-8	2/4/93	15.87	5.62	10.25
MW-8	3/9/93	15.87	5.56	10.31
MW-8	5/6/93	15.87	5.99	9.88
MW-8	6/15/93	15.87	6.32	9.55

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-8	7/26/93	15.87	6.75	9.12
MW-8	8/31/93	15.87	7.35	8.52
MW-8	9/27/93	15.87	7.86	8.01
MW-8	10/19/93	15.87	8.27	7.60
MW-8	11/15/93	15.87	8.17	7.70
MW-8	12/17/93	15.87	7.14	8.73
MW-8	2/7/94	15.87	7.26	8.61
MW-8	5/20/94	15.87	6.17	9.70
MW-8	8/22/94	15.87	7.63	8.24
MW-8	11/2/94	15.87	10.16	5.71
MW-8	2/14/95	15.87	7.32	8.55
MW-8	5/19/95	15.87	7.83	8.04
MW-8	8/22/95	15.87	6.98	8.89
MW-8	10/25/95	15.87	8.16	7.71
MW-8	2/9/96	15.87	4.89	10.98
MW-8	4/11/96	15.87	8.48	7.39
MW-8	8/1/96	15.87	6.60	9.27
MW-8	11/11/96	15.87	7.28	8.59
MW-8	2/4/97	15.87	5.39	10.48
MW-9	8/22/95	14.44	6.00	8.44
MW-9	10/25/95	14.44	6.71	7.73
MW-9	2/9/96	14.44	4.87	9.57
MW-9	4/11/96	14.44	5.40	9.04
MW-9	8/1/96	14.44	5.69	8.75
MW-9	11/11/96	14.44	6.44	8.00
MW-9	2/4/97	14.44	4.30	10.14
MW-10	8/22/95	15.04	6.86	8.18
MW-10	10/25/95	15.04	7.91	7.13
MW-10	2/9/96	15.04	4.45	10.59
MW-10	4/11/96	15.04	4.61	10.43
MW-10	8/1/96	15.04	6.25	8.79
MW-10	11/11/96	15.04	7.42	7.62
MW-10	2/4/97	15.04	4.00	11.04
MW-11	8/22/95	10.61	5.12	5.49
MW-11	10/25/95	10 61	Inaccessible	
MW-11	2/9/96	10 61	2 73	7 88
MW-11	4/11/96	10 61	3 00	7 61
MW-11	8/1/96	10 61	4 66	5 95
MW-11	11/11/96	10 61	5 85	4 76
MW-11	2/4/97	10 61	2 20	8 41
VW-1	2/19/92	16 83		

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
VW-1	1/26/93 - 2/4/97	16.83	Not Monitored	
VW-2	2/19/92	17.00		
VW-2	1/26/93 - 2/4/97	17.00	Not Monitored	
VW-3	2/19/92	16.94		
VW-3	1/26/93 - 2/4/97	16.94	Not Monitored	
VW-4	2/19/92	16.81	5.76	11.05
VW-4	1/26/93 - 2/4/97	16.81	Not Monitored	
VW-5	2/19/92	17.20		
VW-5	1/26/93 - 2/4/97	17.20	Not Monitored	
MSL = Mean Sea Level				
TOC = Top of Casing				
VES = Vapor Extraction System				

Table 2
Groundwater Analytical Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-1	2/4/93	120	22	3.1	3.3	10	NA
MW-1	5/6/93	710	320	3.1	4.2	20	NA
MW-1	9/28/93	Not Accessible - Connected to Vapor Extraction System					
MW-1	11/15/93	Not Accessible - Connected to Vapor Extraction System					
MW-1	2/7/94	Not Accessible - Connected to Vapor Extraction System					
MW-1	5/20/94	Not Accessible - Connected to Vapor Extraction System					
MW-1	8/22/94	Not Accessible - Connected to Vapor Extraction System					
MW-1	11/3/94	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-1	2/14/95	350	40	1.6	15	31	NA
MW-1	5/19/95	220	35	2.4	7.2	23	NA
MW-1	8/22/95	330	44	1.2	14	21	<10
MW-1	10/25/95	<50	1.6	<0.5	<0.5	<0.5	NA
MW-1	2/9/96	160	3.2	1.5	0.89	2.7	NA
MW-1	4/11/96	1,300	300	85	25	110	NA
MW-1	8/1/96	3,700	1,100	80	46	210	NA
MW-1	11/11/96	Not Sampled					
MW-1	2/4/97	Not Sampled					
MW-2	2/4/93	430	45	0.5	20	30	NA
MW-2	5/6/93	2,000	460	2.4	160	66	NA
MW-2	9/28/93	Not Accessible - Connected to Vapor Extraction System					
MW-2	11/15/93	Not Accessible - Connected to Vapor Extraction System					
MW-2	2/7/94	Not Accessible - Connected to Vapor Extraction System					
MW-2	5/20/94	Not Accessible - Connected to Vapor Extraction System					
MW-2	8/22/94	Not Accessible - Connected to Vapor Extraction System					
MW-2	11/2/94	Not Sampled					
MW-2	2/14/95	Not Sampled					
MW-2	5/19/95	580	75	19	5.1	30	NA
MW-2	8/22/95	1,200	130	8.3	84	86	<10
MW-2	10/25/95	350	79	1.2	55	13	NA
MW-2	2/9/96	<50	1.5	0.53	1.1	1.5	NA
MW-2	4/11/96	80	1.5	<0.5	<0.5	<0.5	NA
MW-2	8/1/96	330	42	0.55	20	8.1	NA
MW-2	11/11/96	Not Sampled					
MW-2	2/4/97	Not Sampled					
MW-3	2/4/93	2,900	180	13	210	350	NA
MW-3	5/6/93	2,700	270	6 2	300	720	NA
MW-3	9/28/93	1,800	92	1 7	99	240	NA
MW-3	11/15/93	1,900	100	2 4	85	280	NA
MW-3	2/7/94	1,400	69	3 3	100	320	NA
MW-3	5/20/94	1,100	64	19	120	180	NA
MW-3	8/22/94	77	4 3	<0 5	2 0	5 6	NA
MW-3	11/2/94	<50	0 75	<0 5	<0 5	<0 5	NA
MW-3	2/14/95	1,300	24	5 2	85	360	NA

Table 2
Groundwater Analytical Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-3	5/19/95	5,300	98	28	650	1,700	NA
MW-3	8/22/95	700	4.1	1.1	50	72	<10
MW-3	10/25/95	<50	2.4	<0.5	<0.5	1.6	NA
MW-3	2/9/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-3	4/11/96	2,000	11	3.9	190	500	NA
MW-3	8/1/96	1,500	8.4	<0.5	160	150	NA
MW-3	11/11/96	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-3	2/4/97	1,500	12	1.3	210	330	<30
MW-4	2/4/93	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	5/6/93	<50	1.6	<0.5	1	2.1	NA
MW-4	9/28/93	Not Accessible - Auto on Well					
MW-4	11/15/93	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	2/7/94	<50	<0.5	<0.5	<0.5	2.6	NA
MW-4	5/20/94	82	6.2	7.6	3.3	17	NA
MW-4	8/22/94	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	11/2/94	<50	<0.5	0.56	<0.5	<0.5	NA
MW-4	2/14/95	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	5/19/95	66	0.77	0.63	0.87	3.6	NA
MW-4	8/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-4	10/25/95	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	2/9/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	4/11/96	Not Sampled					
MW-4	8/1/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	11/11/96	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-4	2/4/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-5	2/4/93	Not Sampled					
MW-5	5/6/93	6,200	460	980	300	1,200	NA
MW-5	9/28/93	Not Accessible - Connected to Vapor Extraction System					
MW-5	11/15/93	Not Accessible - Connected to Vapor Extraction System					
MW-5	2/7/94	Not Accessible - Connected to Vapor Extraction System					
MW-5	5/20/94	Not Accessible - Connected to Vapor Extraction System					
MW-5	8/22/94	Not Accessible - Connected to Vapor Extraction System					
MW-5	11/3/94	5,700	800	400	4.7	600	NA
MW-5	2/14/95	1,300	290	76	21	140	NA
MW-5	5/19/95	600	83	20	5.7	33	NA
MW-5	8/22/95	8,100	650	720	54	1,700	<50
MW-5	10/25/95	1,500	290	85	15	170	NA
MW-5	2/9/96	1,000	120	49	26	130	NA
MW-5	4/11/96	210	5 7	<0 5	9 2	22	NA
MW-5	8/1/96	86	<0 5	<0 5	<0 5	5 3	NA
MW-5	11/11/96	Not Sampled					
MW-5	2/4/97	Not Sampled					

Table 2
Groundwater Analytical Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-6	2/4/93	2,300	19	5.4	27	220	NA
MW-6	5/6/93	540	44	0.9	7	6.7	NA
MW-6	9/28/93	180	2.7	0.73	6.3	13	NA
MW-6	11/15/93	180	2.2	0.91	5.4	16	NA
MW-6	2/7/94	240	2.9	1.2	3.9	7.1	NA
MW-6	5/20/94	600	4.5	2.2	24	66	NA
MW-6	8/22/94	400	3.2	1	7.9	40	NA
MW-6	11/2/94	150	1.6	1.3	6.5	27	NA
MW-6	2/14/95	770	4.0	2.9	42	130	NA
MW-6	5/19/95	2,400	6.9	11	99	350	NA
MW-6	8/22/95	190	1.0	1.7	5.2	18	<10
MW-6	10/25/95	910	5.5	3.3	50	160	NA
MW-6	2/9/96	4,100	3.8	9.9	60	270	NA
MW-6	4/11/96	Not Sampled					
MW-6	8/1/96	2,200	5.1	2.4	160	170	NA
MW-6	11/11/96	1,000	3.7	1.5	38	1,100	<30
MW-6	2/4/97	2,500	21	3.1	180	320	<30
MW-7	2/4/93	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-7	5/6/93	Not Sampled					
MW-7	9/28/93	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-7	11/15/93	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-7	2/7/94	Not Sampled					
MW-7	5/20/94	Not Sampled					
MW-7	8/22/94	130	<0.5	<0.5	<0.5	<0.5	NA
MW-7	11/2/94	73	<0.5	<0.5	<0.5	<0.5	NA
MW-7	2/14/95	Not Sampled					
MW-7	5/19/95	<50	<0.5	<0.5	<0.5	2.3	NA
MW-7	8/22/95	400	<0.5	<0.5	<0.5	0.76	<10
MW-7	10/25/95	Not Sampled					
MW-7	2/9/96	Not Sampled					
MW-7	4/11/96	Not Sampled					
MW-7	8/1/96	460	<0.5	<0.5	<0.5	<0.5	NA
MW-7	11/11/96	Not Sampled					
MW-7	2/4/97	Not Sampled					
MW-8	2/4/93	540	150	3.7	5.2	10	NA
MW-8	5/6/93	22,000	9,400	46	390	520	NA
MW-8	9/28/93	8,000	1,700	22	30	75	NA
MW-8	11/15/93	2,000	840	8 8	15	42	NA
MW-8	2/7/94	1,700	460	0 6	13	5	NA
MW-8	5/20/94	110	98	1 4	1 3	3 4	NA
MW-8	8/22/94	51	16	<0 5	<0 5	<0 5	NA
MW-8	11/2/94	<50	<0 5	<0 5	<0 5	<0 5	NA
MW-8	2/14/95	<50	<0 5	<0 5	<0 5	<0 5	NA

Table 2
Groundwater Analytical Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-8	5/19/95	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-8	8/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-8	10/25/95	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-8	2/9/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-8	4/11/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-8	8/1/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-8	11/11/96	<50	1.3	<0.5	<0.5	0.67	<30
MW-8	2/4/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-9	8/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-9	10/25/95	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9	2/9/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9	4/11/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9	8/1/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9	11/11/96	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-9	2/4/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-10	8/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-10	10/25/95	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-10	2/9/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-10	4/11/96	<50	0.67	1.8	1.3	7.7	NA
MW-10	8/1/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-10	11/11/96	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-10	2/4/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-11	8/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-11	10/25/95	Not Sampled					
MW-11	2/9/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-11	4/11/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-11	8/1/96	76	6.8	5.3	2.7	9.1	NA
MW-11	11/11/96	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-11	2/4/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MTBE = Methyl-tert-butylether							
< = Less than the detection limit for the specified method of analysis							
NA = Not available							
ppb = parts per billion							

APPENDIX

B C Analytical

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

ANALYTICAL REPORT

LOG NO: G97-02-105

Received: 05 FEB 97

Mailed: FEB 12 1997

Ms. Rebecca Digerness
Texaco Environmental Services
168 Carling Boulevard
Richmond, CA 94801

Purchase Order: 94-1446346+4370

Requisition: 624881450
Project: FKEP9001L

REPORT OF ANALYTICAL RESULTS

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)								
		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-3	02/01/97	02/07/97	1	1500	12	1.3	210	<30	330	C6-C12
2*MW-4	02/04/97	02/07/97	1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12
3*MW-6	02/04/97	02/07/97	1	2500	21	3.1	180	<30	320	C6-C12
4*MW-8	02/04/97	02/07/97	1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12
5*MW-9	02/04/97	02/07/97	1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12
6*MW-10	02/04/97	02/07/97	1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12
7*MW-11	02/04/97	02/07/97	1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12

Karen Petryna
1127 Lincoln Ave., Alameda
Alameda County

BCA

B C Analytical

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

ANALYTICAL REPORT

LOG NO: G97-02-105

Received: 05 FEB 97

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

Purchase Order: 94-1446346+4370

Requisition: 624881450
Project: FKEP9001L

REPORT OF ANALYTICAL RESULTS

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)								
		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	
B*1B	02/04/97	02/07/97	1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12

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.

BCA

ORDER PLACED FOR CLIENT: Texaco Environmental Services 9702105 :
BC ANALYTICAL : GLEN LAB : 11:46:51 12 FEB 1997 - P. 1 :

AMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
702105*1	MW-3	GAS.MTBE.TESNC	02.07.97	8015M.TX	536-36	974016	6843
		|DATA.REVIEW	02.12.97				7524
702105*2	MW-4	GAS.MTBE.TESNC	02.07.97	8015M.TX	536-35	973015	6843
		|DATA.REVIEW	02.12.97				7524
702105*3	MW-6	GAS.MTBE.TESNC	02.07.97	8015M.TX	536-35	973015	6843
		|DATA.REVIEW	02.12.97				7524
702105*4	MW-8	GAS.MTBE.TESNC	02.07.97	8015M.TX	536-35	973015	6843
		|DATA.REVIEW	02.12.97				7524
702105*5	MW-9	GAS.MTBE.TESNC	02.07.97	8015M.TX	536-35	973015	6843
		|DATA.REVIEW	02.12.97				7524
702105*6	MW-10	GAS.MTBE.TESNC	02.07.97	8015M.TX	536-35	973015	6843
		|DATA.REVIEW	02.12.97				7524
702105*7	MW-11	GAS.MTBE.TESNC	02.07.97	8015M.TX	536-35	973015	6843
		|DATA.REVIEW	02.12.97				7524
702105*8	EB	GAS.MTBE.TESNC	02.07.97	8015M.TX	536-35	973015	6843

**

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

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

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*973015 Method: 8015M.TX - Modified 8015																						
Benzene	ug/L	0	0.5	-	149	-	-	-	76	155	-	-	-	136	-	141	-	70	153	4	25	-
Toluene	ug/L	0.13	0.5	-	108	-	-	-	72	121	-	-	-	103	-	101	-	69	119	2	25	-
Ethylbenzene	ug/L	0	0.5	-	111	-	-	-	72	115	-	-	-	105	-	103	-	68	116	1	25	-
Methyl tert-butylether	ug/L	0	30	-	94	-	-	-	62	159	-	-	-	98	-	94	-	80	176	3	25	-
Total Xylene Isomers	ug/L	0	0.5	-	102	-	-	-	68	115	-	-	-	100	-	98	-	61	118	2	25	-
TPH (Gasoline Range)	ug/L	0	50	-	102	-	-	-	85	120	-	-	-	104	-	104	-	78	124	0	25	-
[a,a,a-Trifluorotoluene]	Percent	107	-	-	108	-	-	-	85	118	-	-	-	130	Q	128	Q	85	118	-	-	-
Batch: GAS*974016 Method: 8015M.TX - Modified 8015																						
Benzene	ug/L	0	0.5	-	155	-	-	-	76	155	-	-	-	101	-	136	-	70	153	29	25	Q
Toluene	ug/L	0	0.5	-	94	-	-	-	72	121	-	-	-	90	-	89	-	69	119	1	25	-
Ethylbenzene	ug/L	0	0.5	-	98	-	-	-	72	115	-	-	-	93	-	91	-	68	116	2	25	-
Methyl-tert-butylether	ug/L	0	30	-	77	-	-	-	62	159	-	-	-	90	-	84	-	80	176	7	25	-
Total Xylene Isomers	ug/L	0	0.5	-	95	-	-	-	68	115	-	-	-	92	-	91	-	61	118	1	25	-
TPH (Gasoline Range)	ug/L	0	50	-	92	-	-	-	85	120	-	-	-	94	-	93	-	78	124	1	25	-
[a,a,a-Trifluorotoluene]	Percent	90	-	-	102	-	-	-	85	118	-	-	-	90	-	94	-	85	118	-	-	-

SURROGATE RECOVERIES :
BC ANALYTICAL : GLEN LAB : 11:47:59 12 FEB 1997 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9702105*1							
8015M.TX	a,a,a-Trifluorotoluene	Re974016	02/07/97	32.6	50.0	65	
9702105*2							
8015M.TX	a,a,a-Trifluorotoluene	Re973015	02/07/97	54.7	50.0	109	
9702105*3							
8015M.TX	a,a,a-Trifluorotoluene	Re973015	02/07/97	37.6	50.0	75	
9702105*4							
8015M.TX	a,a,a-Trifluorotoluene	Re973015	02/07/97	52.4	50.0	105	
9702105*5							
8015M.TX	a,a,a-Trifluorotoluene	Re973015	02/07/97	52.5	50.0	105	
9702105*6							
8015M.TX	a,a,a-Trifluorotoluene	Re973015	02/07/97	52.4	50.0	105	
9702105*7							
8015M.TX	a,a,a-Trifluorotoluene	Re973015	02/07/97	53.3	50.0	107	
9702105*8							
8015M.TX	a,a,a-Trifluorotoluene	Re973015	02/07/97	53.5	50.0	107	

697-02-1116

Chain-of-Custody

Page 1 of 1

Texaco Environmental Services
108 Cutting Boulevard
Richmond, California 94804
Phone: (510) 238-3541
FAX: (510) 237-7821

Forward Results to the Attention of Rebecca Digerness

Texaco Project Coordinator: Karen Petryna

Site Name: Texaco Loc.# 624881450
Site Address: 1127 Lincoln Ave. Alameda, CA
Contractor Project Number: 970201-Z2
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): BRET BLEAL
Sampler Signature:
Date Samples Collected: 2-4-97

KEP
624881450
FKEP9001L
Alameda County

Sample Number	Lab Sample Number	Date/Time Collected	No. of Containers	Type of Containers	Sample Matrix	Preservative	ANALYSIS: TPH gas/BTEX	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-3		2-4-97 / 1345	3	VOA			X										
MW-4		/ 1230	3				X										
MW-6		/ 1400	3				X										
MW-8		/ 1240	3				X										
MW-9		/ 1250	3				X										
MW-10		/ 1305	3				X										
MW-11		/ 1325	3				X										
EB		/ 1255	3				X										

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	2-5-97	1035		2-5-97	1035
Relinquished by (Signature)	2-5-97	1745	Received by: (Signature)	2/5/97	2:45
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Method of Shipment			Lab Comments:		

P:\GWMW\FORMS\TEX COC.XLS

1127 Lincoln Ave. Alameda, CA

Well Gauging Data

Project Name: Texaco #624881450
Project Number: 1127 Lincoln Ave. Alameda, CA

Date: FEB 4, 97
Recorded By: BB

Well ID	TOC Elev.	DTB (ft. TOC)	Well Dia. (in.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW-1		—			5.40		
MW-2		—	4		5.48		
MW-3		19.60	4		5.17		
MW-4		20.15	4		5.24		
MW-5		—	UNABLE TO GAUGE				
MW-6		19.82	2		6.10		
MW-7		INACCESSIBLE (CAR OVER WELL)					
MW-8		19.67	4		5.39		
MW-9		14.41	4		4.30		
MW-10		14.35	4		4.00		
MW-11		14.16	4		2.20		

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 #: 910204-7v	Texaco ID#: 204 881 450
Sampler: BB	Date: 2-4
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: —	Depth to Water: 5.40
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: _____

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
		NOT SAMPLED / EXT. SYSTEM NOT OPERATIONAL				

Did well dewater? Yes No	Gallons actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	Laboratory: BC Analytical
Analyzed for: Tph-G BTEX Tph-D	Other:
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 910204-22	Texaco ID#: 624 881 450
Sampler: BB	Date: 2-4
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: —	Depth to Water: 5.48
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: _____

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
		NOT SAMPLED (SAME AS MW-1)				

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: Sampling Date:

Sample I.D.: Laboratory: BC Analytical

Analyzed for: Tph-G BTEX Tph-D Other:

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

TEXACO WELL MONITORING DATA SHEET

Project #: 970	Texaco ID#: 624 881 450
Sampler: BB	Date: 2-4
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 19.60	Depth to Water: 5.17
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 x
- Extraction Pump
- Other: _____

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

1 Case Volume (Gals.)		Specified Volumes		Calculated Volume
9.4	X	3	=	28.7 Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1334	63.8	6.6	980	71	10	
1335	64.2	6.8	1000	55	20	
1336	64.2	6.8	1000	48	29	

Did well dewater? Yes (No)	Gallons actually evacuated: 29
Sampling Time: 1345	Sampling Date: 2-4
Sample I.D.: MW-3	Laboratory: BC Analytical
Analyzed for: Tph-G BTEX Tph-D	Other:
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 970204-7z	Texaco ID#: 624 881 450
Sampler: BB	Date: 2-4
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 20.15	Depth to Water: 5.24
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: _____

1 Case Volume (Gals.)	X	Specified Volumes	=	Calculated Volume
9.8	X	3	=	29.4 Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1218	64.6	6.4	840	7200	10	
1219	64.0	6.4	680	7200	20	
1220	65.0	6.4	670	7200	30	

Did well dewater? Yes (No) Gallons actually evacuated: 30

Sampling Time: 1230 Sampling Date: 2-4

Sample I.D.: MW-4 Laboratory: BC Analytical

Analyzed for: Tph-G BTEX Tph-D Other:

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

TEXACO WELL MONITORING DATA SHEET

Project #: 970204-Z	Texaco ID#: 624 881 450
Sampler: BB	Date: 2-4
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: —	Depth to Water: — COULD NOT GAUGE
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: _____

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
		NOT	SAMPLED (	SAME AS	MW-1 & MW-2	)

Did well dewater? Yes No	Gallons actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	Laboratory: BC Analytical
Analyzed for: Tph-G BTEX Tph-D	Other:
Equipment Blank I D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 910204-22	Texaco ID#: 624 881 450
Sampler: BB	Date: 2-4
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.82	Depth to Water: 6.10
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
1349	63.0	7.4	480	7200	2.25	ODOR
1352	63.2	7.3	470	7200	4.50	"
1355	63.4	7.3	460	7200	6.75	"

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

Sampling Time: 1400 Sampling Date: 2-4

Sample I.D.: MW-6 Laboratory: BC Analytical

Analyzed for: Tph-G BTEX Tph-D Other:

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

TEXACO WELL MONITORING DATA SHEET

Project #: 970204-22	Texaco ID#: 624 881450
Sampler: BB	Date: 2-4
Well I.D.: MW-7	Well Diameter: 2 3 4 6 8 ____
Total Well Depth: —	Depth to Water: —
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: _____

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
		NOT SAMPLED (CAR OVER WELL)				

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: Sampling Date:

Sample I.D.: Laboratory: BC Analytical

Analyzed for: Tph-G BTEX Tph-D Other:

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

TEXACO WELL MONITORING DATA SHEET

Project #: 970204-2	Texaco ID#: 624 881 450
Sampler: BB	Date: 2-4
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 19.67	Depth to Water: 5.39
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 x
- Extraction Pump
- Other: _____

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

9.3	X	3	=	27.9 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1231	61.2	6.8	300	7200	10	
1237	61.4	6.7	220	7200	20	
1243	61.	6.7	220	7200	28	

Did well dewater? Yes (No) Gallons actually evacuated: 28

Sampling Time: 1245 Sampling Date: 2-4

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

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

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

TEXACO WELL MONITORING DATA SHEET

Project #: 910204-2	Texaco ID#: 624 881 450
Sampler: BB	Date: 2-4
Well I.D.: MW-9	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 14.47	Depth to Water: 4.30
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 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
1242	61.2	6.8	140	7200	7	
1243	61.4	6.8	140	7200	14	
1244	61.8	6.8	140	7200	20	

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

Sampling Time: 1250 Sampling Date: 2-5

Sample I.D.: MW-9 Laboratory: BC Analytical

Analyzed for: Tph-G BTEX Tph-D Other:

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

TEXACO WELL MONITORING DATA SHEET

Project #: 970204-2L	Texaco ID#: 624 881 450
Sampler: BB	Date: 2-4
Well I.D.: MW-10	Well Diameter: 2 .3 (4) 6 8 ____
Total Well Depth: 14.35	Depth to Water: 4.00
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 x
- Extraction Pump
- Other: _____

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

6.7 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 20.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1258	58.0	6.8	380	7200	7	
1259	58.2	6.8	520	7200	14	
1301	58.8	6.7	380	7200	21	

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

Sampling Time: 1305 Sampling Date: 2-4

Sample I.D.: MW-10 Laboratory: BC Analytical

Analyzed for: Tph-G BTEX Tph-D Other:

Equipment Blank I.D.: EB @ 1255 Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 970204-22	Texaco ID#: 624 881 450
Sampler: BB	Date: 2-4
Well I.D.: MW-11	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.16	Depth to Water: 2.20
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: _____

7.8	X	3	=	23.4	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1315	60.0	6.8	140	7200	8	
1316	60.0	6.6	140	7200	16	
1318	60.4	6.6	140	7200	24	

Did well dewater? Yes (No)	Gallons actually evacuated: 24.
Sampling Time: 1325	Sampling Date: 2-4
Sample I.D.: MW-11	Laboratory: BC Analytical
Analyzed for: Tph-G BTEX Tph-D	Other:
Equipment Blank I.D.:	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 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 #:
Address:
City, State, ZIP:

Texaco #624881450
1127 Lincoln Ave.
Alameda, CA

Well I.D.	Gals.	Well I.D.	Gals.
/		/	
/		/	
PURGE H2O		/	
= /	159	/	
/		/	
/		/	
/		/	
/		/	
/		/	
/		/	

Total gals. 159

added rinse water 10

Total Gals. Recovered 169

Job #: 970204-7z
Date 2-4-97
Time 1400
Signature:

REC'D AT: BTS
Date: 2-4-97
Time: 1545
Signature:

QUARTERLY SUMMARY REPORT
Former Texaco Service Station
1127 Lincoln Avenue, Alameda, California
Alameda County
Fourth Quarter, 1996

HISTORY OF INVESTIGATIVE AND REMEDIAL ACTIONS
Four underground fuel tanks and one underground waste oil tank were removed in September 1989. Eleven soil borings were drilled in March 1981 and eight of the borings were converted into three groundwater monitoring wells (MW-1 through MW-3) and five vapor extraction wells (VW-1 through VW-5). Five additional ground water monitoring wells (MW-4 through MW-8) and (MW-9 through MW-11) were installed in June 1992 and May 1995, respectively. Nine soil borings were also drilled in February 1995. A dual soil vapor extraction and groundwater extraction remedial system operated from September 1993 through September 1996. Monitoring well MW-5 was connected to the vapor extraction system in September 1993 and MW-1 and MW-2 were connected to the extraction system in November 1993. MW-1, MW-2, and MW-5 were used as combined extraction/recovery wells.

WORK PERFORMED DURING THIS QUARTER
Ground water monitoring and sampling of the monitoring wells was performed.

CHARACTERIZATION STATUS
SOIL: The extent of petroleum hydrocarbons in soil have been delineated.

GROUND WATER: The extent of petroleum hydrocarbons appears to be predominantly defined.

REMEDIATION STATUS
A dual soil vapor extraction and groundwater extraction system previously operated at the site (see above).

WORK TO BE PERFORMED NEXT QUARTER
Continuation of the quarterly ground water monitoring and sampling program.

SITE CONTACTS
Texaco:	Karen Petryna (510) 236-9139
Property Owner:	Leo Pagano
Lead Agency:	Juliet Shin (510) 567-6763 (ACDEH)