



Texaco Refining
and Marketing Inc

108 Cutting Boulevard
Richmond CA 94804

ENVIRONMENTAL
PROTECTION

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November 11, 1996

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 August 1, 1996, at the site referenced above (see Plate 1, Site Vicinity Map). The gradient map has been reviewed by a registered professional (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,

Rebecca Digerness
Environmental Assistant

Karen E. Petryna, P. E.
Project Coordinator
Texaco Refining and Marketing, Inc.



RBD hs

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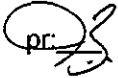
Enclosure

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

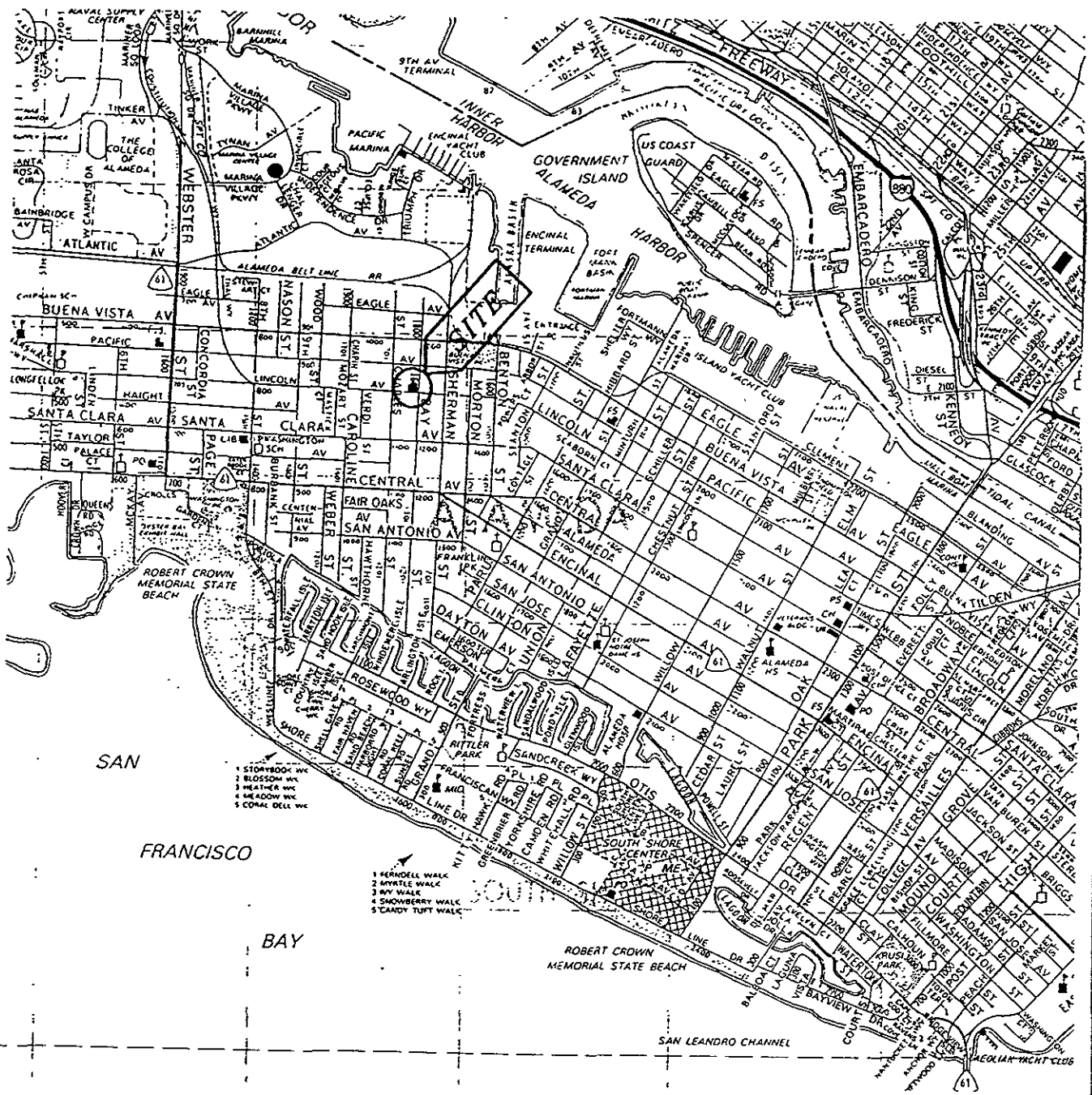
Mr. Leo Pagano
1127 Lincoln Avenue
Alameda, CA 94602

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

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

pr: 

GROUNDWATER MONITORING AND SAMPLING
Third Quarter, 1996
at the
Former Texaco Service Station
1127 Lincoln Avenue
Alameda, California



SOURCE:

1993 THE THOMAS GUIDE
ALAMEDA COUNTY PAGE 111



TEXACO

PLANNING AND MARKETING IN
TEXACO ENVIRONMENTAL SERVICES

PLATE 1

SUB-UNIT 100

FORMER TEXACO SERVICE STATION

1177 JONES BL. #100

ALAMEDA, CALIFORNIA

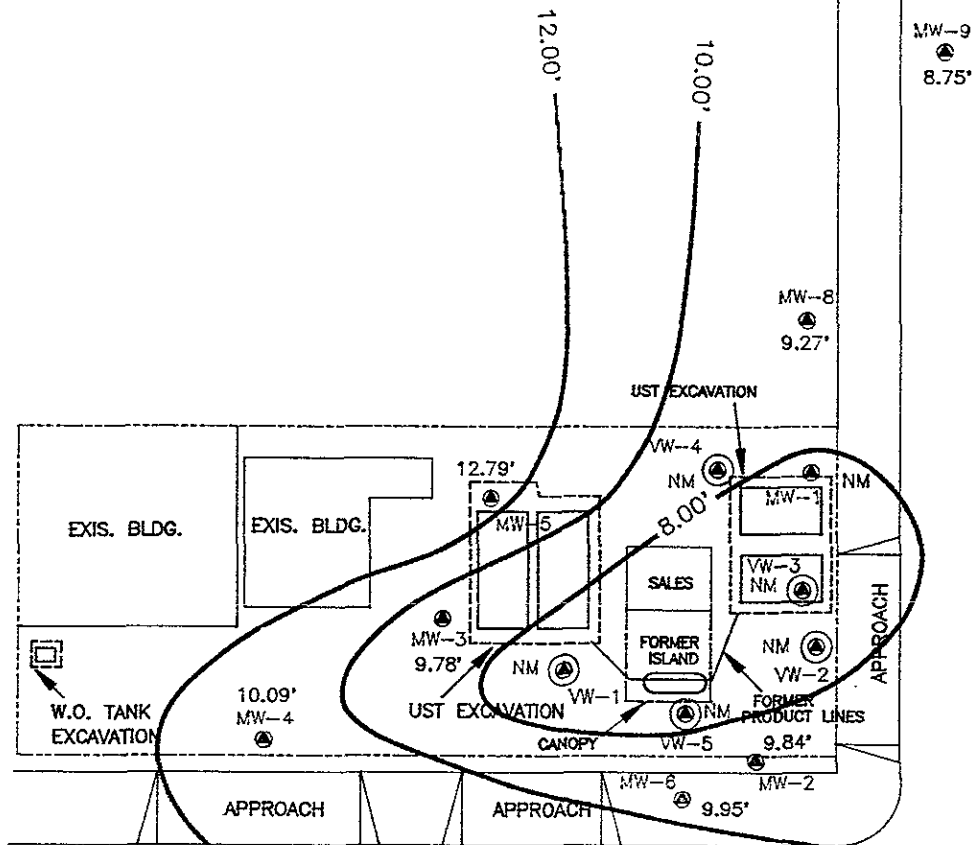
1" = 30'
 2
 3.95'

MW-10
 8.79'

MW-9
 8.75'

MW-8
 9.27'

MW-7
 9.71'



BAY STREET

LINCOLN AVE.

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



REFINING AND MARKETING OF
 ENVIRONMENT, HEALTH AND SAFETY

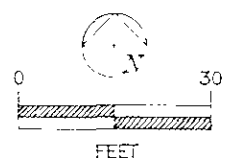
PLATE 1 : GROUNDWATER GRADIENT MAP
 (06/01/1986)

FORMER TEXACO SERVICE STATION

1127 LINCOLN AVE. / BAY ST.,
 ALAMEDA, CALIFORNIA

LEGEND :

- MONITORING WELL LOCATION AND WELL NUMBER
- VAPOR EXTRACTION MONITORING WELL LOCATION AND WELL NUMBER
- GROUNDWATER LOCATION LINE
- 9.78' GROUNDWATER ELEVATION (ABOVE M.C.L.)
- NOT MEASURED



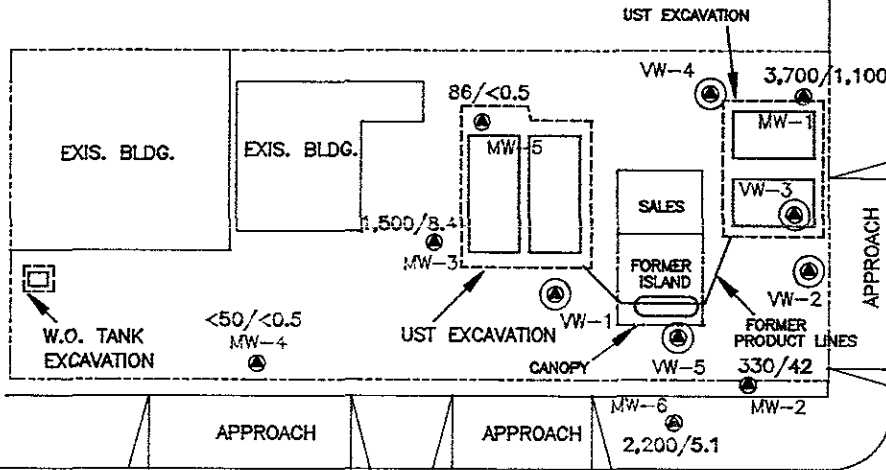
SCALE	1" = 30'-0"	LOCATION #	62-488-1450
DRAWN BY	ANA	DATE	11/05/1988
CHECKED BY	KEP	DATE	11/11/96
DRAWING NO.	(ALAMEDA) LI-BY-ALDWG		

100'-1"
76/6.8

MW-10
<50/<0.5

MW-9
<50/<0.5

MW-8
<50/<0.5



BAY STREET

LINCOLN AVE.

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



REFINING AND MARKETING AND
ENVIRONMENT, HEALTH AND SAFETY

STATE OF CALIFORNIA (METHYLENE CHLORIDE CONCENTRATION IN GROUNDWATER)
(03/21/1996)

FORMER TEXACO SERVICE STATION

1127 LINCOLN AVE. / BAY ST.,
ALAMEDA, CALIFORNIA

SCALE 1"=30'-0" LOCATION # 62-488-1450

DRAWN BY ANA DATE 11/05/1996

CHECKED BY [Signature] DATE 1/11/96

DRAWING NO. (ALAMEDA) LI-BY-ALDWG

LEGEND :

- ▲ MONITORING WELL LOCATION
- VAPOR EXTRACTION MONITORING WELL LOCATION AND WELL NUMBER
- ⊗ VAPOR EXTRACTION MONITORING WELL LOCATION AND WELL NUMBER
- <50/<0.5 TPHg/BENZENE CONCENTRATION IN GROUNDWATER (LPT)

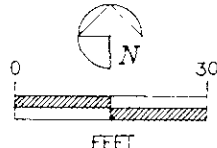


Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-1	2/19/92	16.49		
	1/26/93		5.63	10.86
	2/4/93		6.02	10.47
	3/9/93		5.92	10.57
	5/6/93		6.76	9.73
	6/15/93		6.81	9.68
	7/26/93		Inaccessible - VES	
	8/31/93		Inaccessible - VES	
	9/27/93		Inaccessible - VES	
	10/19/93		Inaccessible - VES	
	11/15/93		Inaccessible - VES	
	12/17/93		Inaccessible - VES	
	2/7/94		Inaccessible - VES	
	5/20/94		Inaccessible - VES	
	8/22/94	16.14 *	7.78	8.36
	11/2/94		Inaccessible - VES	
	2/14/95		15.16	0.98
	5/19/95		13.90	2.24
	8/22/95		7.06	9.08
	10/25/95		Inaccessible	
	2/9/96		Inaccessible	
	4/11/96		Inaccessible	
	8/1/96		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	2/19/92	17.14		
	1/26/93		6.29	10.85
	2/4/93		6.60	10.54
	3/9/93		6.36	10.78
	5/6/93		6.37	10.77
	6/15/93		7.04	10.10
	7/26/93		Inaccessible - VES	
	8/31/93		Inaccessible - VES	
	9/27/93		Inaccessible - VES	
	10/19/93		Inaccessible - VES	
	11/15/93		Inaccessible - VES	
	12/17/93		Inaccessible - VES	
	2/7/94		Inaccessible - VES	
	5/20/94		Inaccessible - VES	
	8/22/94	16.84 *	8.08	8.76
	11/2/94		Inaccessible - VES	
	2/14/95		Inaccessible - VES	
	5/19/95		11.77	5.07
	8/22/95		7.22	9.62
	10/25/95		12.11	4.73
	2/9/96		Inaccessible	
	4/11/96		11.20	5.64
	8/1/96		7.00	9.84

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

Well	Date	Top of Casing Elevation	Depth to Water	Groundwater Elevation
Number	Gauged	(feet, MSL)	(feet, TOC)	(feet, MSL)
MW-3	2/19/92	16.91		
	1/26/93		5.82	11.09
	2/4/93		6.01	10.90
	3/9/93		5.88	11.03
	5/6/93		6.38	10.53
	6/15/93		Inaccessible - VES	
	7/26/93		7.22	9.69
	8/31/93		7.87	9.04
	9/27/93		8.58	8.33
	10/19/93		9.13	7.78
	11/15/93		8.84	8.07
	12/17/93		7.80	9.11
	2/7/94		8.43	8.48
	5/20/94		6.79	10.12
	8/22/94	16.86 *	8.32	8.54
	11/2/94		10.98	5.88
	2/14/95		7.93	8.93
	5/19/95		8.44	8.42
	8/22/95		7.54	9.32
	10/25/95		9.03	7.83
	2/9/96		7.05	9.81
	4/11/96		7.44	9.42
	8/1/96		7.08	9.78

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

Well	Date	Top of Casing Elevation	Depth to Water	Groundwater Elevation
Number	Gauged	(feet, MSL)	(feet, TOC)	(feet, MSL)
MW-4	6/25/92	17.18		
	1/26/93		5.91	11.27
	2/4/93		6.14	11.04
	3/9/93		5.81	11.37
	5/6/93		6.49	10.69
	6/15/93		6.34	10.84
	7/26/93		7.29	9.89
	8/31/93		8.02	9.16
	9/27/93		Inaccessible - Car On Well	
	10/19/93		9.14	8.04
	11/15/93		9.01	8.17
	12/17/93		7.91	9.27
	2/7/94		8.02	9.16
	5/20/94		6.85	10.33
	8/22/94	17.13 *	8.48	8.65
	11/2/94		10.52	6.61
	2/14/95		6.99	10.14
	5/19/95		7.61	9.52
	8/22/95		7.62	9.51
	10/25/95		8.62	8.51
	2/9/96		6.60	10.53
	4/11/96		6.54	10.59
	8/1/96		7.04	10.09

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

Well	Date	Top of Casing	Depth to	Groundwater
Number	Gauged	Elevation	Water	Elevation
		(feet, MSL)	(feet, TOC)	(feet, MSL)
MW-5	6/25/92	16.37		
	1/26/93		Not Monitored	
	2/4/93		Inaccessible	
	3/9/93		5.45	10.92
	5/6/93		6.00	10.37
	6/15/93		7.81	8.56
	7/26/93		Inaccessible - VES	
	8/31/93		Inaccessible - VES	
	9/27/93		Inaccessible - VES	
	10/19/93		Inaccessible - VES	
	11/15/93		Inaccessible - VES	
	12/17/93		Inaccessible - VES	
	2/7/94		Inaccessible - VES	
	5/20/94		Inaccessible - VES	
	8/22/94	15.59 *	7.27	8.32
	11/2/94		Inaccessible - VES	
	2/14/95		Inaccessible - VES	
	5/19/95		11.55	4.04
	8/22/95		6.02	9.57
	10/25/95		11.05	4.54
	2/9/96		6.70	8.89
	4/11/96		12.21	3.38
	8/1/96		2.80	12.79

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

Well	Date	Top of Casing Elevation	Depth to Water	Groundwater Elevation
Number	Gauged	(feet, MSL)	(feet, TOC)	(feet, MSL)
MW-6	6/25/92	17.12		
	1/26/93		6.63	10.49
	2/4/93		6.48	10.64
	3/9/93		6.68	10.44
	5/6/93		6.93	10.19
	6/15/93		7.00	10.12
	7/26/93		7.25	9.87
	8/31/93		7.83	9.29
	9/27/93		8.38	8.74
	10/19/93		8.76	8.36
	11/15/93		8.65	8.47
	12/17/93		7.78	9.34
	2/7/94		7.90	9.22
	5/20/94		6.95	10.17
	8/22/94	17.05 *	8.17	8.88
	11/2/94		10.56	6.49
	2/14/95		8.08	8.97
	5/19/95		8.51	8.54
	8/22/95		7.50	9.55
	10/25/95		8.61	8.44
	2/9/96		7.26	9.79
	4/11/96		7.41	9.64
	8/1/96		7.10	9.95

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-7	6/25/92	16.71		
	1/26/93		6.53	10.18
	2/4/93		6.40	10.31
	3/9/93		6.52	10.19
	5/6/93		Inaccessible	
	6/15/93		6.69	10.02
	7/26/93		Inaccessible	
	8/31/93		Inaccessible	
	9/27/93		7.97	8.74
	10/19/93		8.24	8.47
	11/15/93		8.22	8.49
	12/17/94		Inaccessible	
	2/7/94		Inaccessible	
	5/20/94		Inaccessible	
	8/22/94	16.65 *	7.78	8.87
	11/2/94		9.70	6.95
	2/14/95		Inaccessible	
	5/19/95		7.33	9.32
	8/22/95		6.72	9.93
	10/25/95		Inaccessible	
	2/9/96		7.06	9.59
	4/11/96		Inaccessible	
	8/1/96		6.94	9.71

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	6/25/92	15.91		
	1/26/93		5.30	10.61
	2/4/93		5.62	10.29
	3/9/93		5.56	10.35
	5/6/93		5.99	9.92
	6/15/93		6.32	9.59
	7/26/93		6.75	9.16
	8/31/93		7.35	8.56
	9/27/93		7.86	8.05
	10/19/93		8.27	7.64
	11/15/93		8.17	7.74
	12/17/93		7.14	8.77
	2/7/94		7.26	8.65
	5/20/94		6.17	9.74
	8/22/94	15.87 *	7.63	8.24
	11/2/94		10.16	5.71
	2/14/95		7.32	8.55
	5/19/95		7.83	8.04
	8/22/95		6.98	8.89
	10/25/95		8.16	7.71
	2/9/96		4.89	10.98
	4/11/96		8.48	7.39
	8/1/96		6.60	9.27

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-9	8/22/95	14.44 *	6.00	8.44
	10/25/95		6.71	7.73
	2/9/96		4.87	9.57
	4/11/96		5.40	9.04
	8/1/96		5.69	8.75
MW-10	8/22/95	15.04 *	6.86	8.18
	10/25/95		7.91	7.13
	2/9/96		4.45	10.59
	4/11/96		4.61	10.43
	8/1/96		6.25	8.79
MW-11	8/22/95	10.61 *	5.12	5.49
	10/25/95		Inaccessible	
	2/9/96		2.73	7.88
	4/11/96		3.00	7.61
	8/1/96		4.66	5.95
VW-1	2/19/92	16.83		
	1/26/93 - 8/1/96		Not Monitored	
VW-2	2/19/92	17.00		
	1/26/93 - 8/1/96		Not Monitored	
VW-3	2/19/92	16.94		
	1/26/93 - 8/1/96		Not Monitored	
VW-4	2/19/92	16.81	5.76	11.05
	1/26/93 - 8/1/96		Not Monitored	
VW-5	2/19/92	17.20		
	1/26/93 - 8/1/96		Not Monitored	

MSL = Mean Sea Level
TOC = Top of Casing
VES = Vapor Extraction System
* = Wells resurveyed 8/4/94
** = Wells surveyed 6/9/95

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)
MW-1	2/4/93	120	22	3.1	3.3	10
	5/6/93	710	320	3.1	4.2	20
	9/28/93	Not Accessible - Connected to Vapor Extraction System				
	11/15/93	Not Accessible - Connected to Vapor Extraction System				
	2/7/94	Not Accessible - Connected to Vapor Extraction System				
	5/20/94	Not Accessible - Connected to Vapor Extraction System				
	8/22/94	Not Accessible - Connected to Vapor Extraction System				
	11/3/94	<50	<0.5	<0.5	<0.5	<0.5
	2/14/95	350	40	1.6	15	31
	5/19/95	220	35	2.4	7.2	23
	8/22/95	330	44	1.2	14	21
	10/25/95	<50	1.6	<0.5	<0.5	<0.5
	2/9/96	160	3.2	1.5	0.89	2.7
	4/11/96	1,300	300	85	25	110
	8/1/96	3,700	1,100	80	46	210
MW-2	2/4/93	430	45	0.5	20	30
	5/6/93	2,000	460	2.4	160	66
	9/28/93	Not Accessible - Connected to Vapor Extraction System				
	11/15/93	Not Accessible - Connected to Vapor Extraction System				
	2/7/94	Not Accessible - Connected to Vapor Extraction System				
	5/20/94	Not Accessible - Connected to Vapor Extraction System				
	8/22/94	Not Accessible - Connected to Vapor Extraction System				
	11/2/94	Not Sampled				
	2/14/95	Not Sampled				
	5/19/95	580	75	19	5.1	30
	8/22/95	1,200	130	8.3	84	86
	10/25/95	350	79	1.2	55	13
	2/9/96	<50	1.5	0.53	1.1	1.5
	4/11/96	80	1.5	<0.5	<0.5	<0.5
	8/1/96	330	42	0.55	20	8.1

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)	
MW-3	2/4/93	2,900	180	13	210	350	
	5/6/93	2,700	270	6.2	300	720	
	9/28/93	1,800	92	1.7	99	240	
	11/15/93	1,900	100	2.4	85	280	
	2/7/94	1,400	69	3.3	100	320	
	5/20/94	1,100	64	19	120	180	
	8/22/94	77	4.3	<0.5	2.0	5.6	
	11/2/94	<50	0.75	<0.5	<0.5	<0.5	
	2/14/95	1,300	24	5.2	85	360	
	5/19/95	5,300	98	28	650	1,700	
	8/22/95	700	4.1	1.1	50	72	
	10/25/95	<50	2.4	<0.5	<0.5	1.6	
	2/9/96	<50	<0.5	<0.5	<0.5	<0.5	
	4/11/96	2,000	11	3.9	190	500	
	8/1/96	1,500	8.4	<0.5	160	150	
	MW-4	2/4/93	<50	<0.5	<0.5	<0.5	<0.5
5/6/93		<50	1.6	<0.5	1	2.1	
9/28/93		Not Accessible - Auto on Well					
11/15/93		<50	<0.5	<0.5	<0.5	<0.5	
2/7/94		<50	<0.5	<0.5	<0.5	2.6	
5/20/94		82	6.2	7.6	3.3	17	
8/22/94		<50	<0.5	<0.5	<0.5	<0.5	
11/2/94		<50	<0.5	0.56	<0.5	<0.5	
2/14/95		<50	<0.5	<0.5	<0.5	<0.5	
5/19/95		66	0.77	0.63	0.87	3.6	
8/22/95		<50	<0.5	<0.5	<0.5	<0.5	
10/25/95	<50	<0.5	<0.5	<0.5	<0.5		
2/9/96	<50	<0.5	<0.5	<0.5	<0.5		
4/11/96	Not Sampled						
8/1/96	<50	<0.5	<0.5	<0.5	<0.5		

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)
MW-5	2/4/93	Not Sampled				
	5/6/93	6,200	460	980	300	1,200
	9/28/93	Not Accessible - Connected to Vapor Extraction System				
	11/15/93	Not Accessible - Connected to Vapor Extraction System				
	2/7/94	Not Accessible - Connected to Vapor Extraction System				
	5/20/94	Not Accessible - Connected to Vapor Extraction System				
	8/22/94	Not Accessible - Connected to Vapor Extraction System				
	11/3/94	5,700	800	400	4.7	600
	2/14/95	1,300	290	76	21	140
	5/19/95	600	83	20	5.7	33
	8/22/95	8,100	650	720	54	1,700
	10/25/95	1,500	290	85	15	170
	2/9/96	1,000	120	49	26	130
	4/11/96	210	5.7	<0.5	9.2	22
	8/1/96	86	<0.5	<0.5	<0.5	5.3
MW-6	2/4/93	2,300	19	5.4	27	220
	5/6/93	540	44	0.9	7	6.7
	9/28/93	180	2.7	0.73	6.3	13
	11/15/93	180	2.2	0.91	5.4	16
	2/7/94	240	2.9	1.2	3.9	7.1
	5/20/94	600	4.5	2.2	24	66
	8/22/94	400	3.2	1	7.9	40
	11/2/94	150	1.6	1.3	6.5	27
	2/14/95	770	4.0	2.9	42	130
	5/19/95	2,400	6.9	11	99	350
	8/22/95	190	1.0	1.7	5.2	18
	10/25/95	910	5.5	3.3	50	160
	2/9/96	4,100	3.8	9.9	60	270
	4/11/96	Not Sampled				
	8/1/96	2,200	5.1	2.4	160	170

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)
MW-7	2/4/93	<50	<0.5	<0.5	<0.5	<0.5
	5/6/93	Not Sampled				
	9/28/93	<50	<0.5	<0.5	<0.5	<0.5
	11/15/93	<50	<0.5	<0.5	<0.5	<0.5
	2/7/94	Not Sampled				
	5/20/94	Not Sampled				
	8/22/94	130	<0.5	<0.5	<0.5	<0.5
	11/2/94	73	<0.5	<0.5	<0.5	<0.5
	2/14/95	Not Sampled				
	5/19/95	<50	<0.5	<0.5	<0.5	2.3
	8/22/95	400	<0.5	<0.5	<0.5	0.76
	10/25/95	Not Sampled				
	2/9/96	Not Sampled				
	4/11/96	Not Sampled				
	8/1/96	460	<0.5	<0.5	<0.5	<0.5
MW-8	2/4/93	540	150	3.7	5.2	10
	5/6/93	22,000	9,400	46	390	520
	9/28/93	8,000	1,700	22	30	75
	11/15/93	2,000	840	8.8	15	42
	2/7/94	1,700	460	0.6	13	5
	5/20/94	110	98	1.4	1.3	3.4
	8/22/94	51	16	<0.5	<0.5	<0.5
	11/2/94	<50	<0.5	<0.5	<0.5	<0.5
	2/14/95	<50	<0.5	<0.5	<0.5	<0.5
	5/19/95	<50	<0.5	<0.5	<0.5	<0.5
	8/22/95	<50	<0.5	<0.5	<0.5	<0.5
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5
	2/9/96	<50	<0.5	<0.5	<0.5	<0.5
	4/11/96	<50	<0.5	<0.5	<0.5	<0.5
	8/1/96	<50	<0.5	<0.5	<0.5	<0.5
MW-9	8/22/95	<50	<0.5	<0.5	<0.5	<0.5
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5
	2/9/96	<50	<0.5	<0.5	<0.5	<0.5
	4/11/96	<50	<0.5	<0.5	<0.5	<0.5
	8/1/96	<50	<0.5	<0.5	<0.5	<0.5

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)	
MW-10	8/22/95	<50	<0.5	<0.5	<0.5	<0.5	
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5	
	2/9/96	<50	<0.5	<0.5	<0.5	<0.5	
	4/11/96	<50	0.67	1.8	1.3	7.7	
	8/1/96	<50	<0.5	<0.5	<0.5	<0.5	
MW-11	8/22/95	<50	<0.5	<0.5	<0.5	<0.5	
	10/25/95	Not Sampled					
	2/9/96	<50	<0.5	<0.5	<0.5	<0.5	
	4/11/96	<50	<0.5	<0.5	<0.5	<0.5	
	8/1/96	76	6.8	5.3	2.7	9.1	
< = Less than the detection limit for the specified method of analysis							
ppb = parts per billion							

✓

✓

APPENDIX

801 Western Avenue
 Glendale, CA 91201
 818/241-5737
 Fax: 818/241-9797

LOG NO: G96-08-037

Received: 01 AUG 96

Mailed:

Ms. Rebecca Duerness
 Teacup Environmental Services
 178 Cutting Boulevard
 Richmond, CA 94804

Purchase Order: 94-1446346+4370

Requisition: 624881450
 Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

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	Total Xylenes Isomers ug/L	Carbon Range
RDI				1	50	0.5	0.5	0.5	0.5	
1*MM-1	08/01/96	08/05/96		5	3700	1100	80	46	210	C6-C12
2*MM-2	08/01/96	08/02/96		1	330	42	0.55	20	8.1	C6-C12
3*MM-3	08/01/96	08/02/96		1	1500	8.4	<0.5	160	150	C6-C12
4*MM-4	08/01/96	08/02/96		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
5*MM-5	08/01/96	08/02/96		1	86	<0.5	<0.5	<0.5	5.3	C6-C12
6*MM-6	08/01/96	08/02/96		1	2200	5.1	2.4	160	170	C6-C12
7*MM-7	08/01/96	08/02/96		1	460	<0.5	<0.5	<0.5	<0.5	C6-C12
8*MM-8	08/01/96	08/02/96		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
9*MM-9	08/01/96	08/02/96		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
10*MM-10	08/01/96	08/02/96		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
11*MM-11	08/01/96	08/03/96		1	76	6.8	5.3	2.7	9.1	C6-C12

Karen Petryna
 1127 Lincoln Ave., Alameda
 Alameda County



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

LOG NO: G96-08-037

Received: 01 AUG 96

Ms. Rebecca Pagness
 Texaco Environmental Services
 103 Harding Boulevard
 Richmond, CA 94804

Purchase Order: 94-1446346+4370

Requisition: 624881450
 Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

Page 2

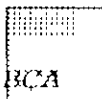
AQUEOUS

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	Total Xylenes Isomers ug/L	Carbon Range
RDI				1	50	0.5	0.5	0.5	0.5	
12*13	08/01/96	08/03/96		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12

Greta Galoustian
 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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OPENUS SAMPLES

----- METHOD BLANK -----				----- LAB CONTROL -----								----- MATRIX QC -----							
				LCS	LCS			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*96510 Method: 8015M.TX - Modified 8015

Benzene	ug/L	0	0.5 -	98 -	- -	76	141	-	-	-		101 -	102 -	71	125	1	29	-
Toluene	ug/L	0	0.5 -	97 -	- -	73	122	-	-	-		101 -	98 -	63	126	2	33	-
Ethylbenzene	ug/L	0	0.5 -	96 -	- -	72	133	-	-	-		99 -	97 -	65	126	2	34	-
Total Xylene Isomers	ug/L	0	0.5 -	97 -	- -	64	117	-	-	-		101 -	100 -	69	128	1	35	-
IPH (Gasoline Range)	ug/L	0	50 -	105 -	- -	64	152	-	-	-		108 -	108 -	53	166	0	21	-
[a,a,a-Trifluorotoluene]	Percent	103	- -	111 -	- -	75	117	-	-	-		114 -	109 -	78	126	-	-	-

Batch: GAS*965113 Method: 8015M.TX - Modified 8015

Benzene	ug/L	0	0.5 -	106 -	- -	76	141	-	-	-		140 Q	142 Q	71	125	1	29	-
Toluene	ug/L	0	0.5 -	91 -	- -	73	122	-	-	-		94 -	95 -	63	126	2	33	-
Ethylbenzene	ug/L	0	0.5 -	93 -	- -	72	133	-	-	-		96 -	96 -	65	126	0	34	-
Total Xylene Isomers	ug/L	0	0.5 -	91 -	- -	64	117	-	-	-		91 -	92 -	69	128	2	35	-
IPH (Gasoline Range)	ug/L	0	50 -	104 -	- -	64	152	-	-	-		99 -	102 -	53	166	3	21	-
[a,a,a-Trifluorotoluene]	Percent	103	- -	106 -	- -	75	117	-	-	-		109 -	109 -	78	126	-	-	-

ORDER PLACED FOR CLIENT: Texaco Environmental Services 9608037 :
BC ANALYTICAL : GLEN LAB : 10:05:16 07 AUG 1996 - P. 1 :

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MPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE.....	METHOD.....	EQUIP.	BATCH..	ID.NO
			ANALYZED				
508037*1	MW-1	GAS.BTX.TESNC	08.05.96	8015M.TX	536-36	966113	6843
508037*2	MW-2	GAS.BTX.TESNC	08.02.96	8015M.TX	536-23	965107	8171
508037*3	MW-3	GAS.BTX.TESNC	08.02.96	8015M.TX	536-23	965107	8171
508037*4	MW-4	GAS.BTX.TESNC	08.02.96	8015M.TX	536-23	965107	8171
508037*5	MW-5	GAS.BTX.TESNC	08.02.96	8015M.TX	536-23	965107	8171
508037*6	MW-6	GAS.BTX.TESNC	08.02.96	8015M.TX	536-23	965107	8171
508037*7	MW-7	GAS.BTX.TESNC	08.02.96	8015M.TX	536-23	965107	8171
508037*8	MW-8	GAS.BTX.TESNC	08.02.96	8015M.TX	536-23	965107	8171
508037*9	MW-9	GAS.BTX.TESNC	08.02.96	8015M.TX	536-23	965107	8171
508037*10	MW-10	GAS.BTX.TESNC	08.02.96	8015M.TX	536-23	965107	8171
508037*11	MW-11	GAS.BTX.TESNC	08.03.96	8015M.TX	536-23	965107	8171
508037*12	EB	GAS.BTX.TESNC	08.03.96	8015M.TX	536-23	965107	8171

**

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 : 10:06:02 07 AUG 1996 - P. 1 :

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METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
	08037*1						
	15M.TXa,a,a-Trifluorotoluene	Re966113	08/05/96	265	250	106	
	08037*2						
	15M.TXa,a,a-Trifluorotoluene	Re965107	08/02/96	48.6	50.0	97	
	08037*3						
	15M.TXa,a,a-Trifluorotoluene	Re965107	08/02/96	49.3	50.0	99	
	08037*4						
	15M.TXa,a,a-Trifluorotoluene	Re965107	08/02/96	50.2	50.0	100	
	08037*5						
	15M.TXa,a,a-Trifluorotoluene	Re965107	08/02/96	50.9	50.0	102	
	08037*6						
	15M.TXa,a,a-Trifluorotoluene	Re965107	08/02/96	49.7	50.0	99	
	08037*7						
	15M.TXa,a,a-Trifluorotoluene	Re965107	08/02/96	52.0	50.0	104	
	08037*8						
	15M.TXa,a,a-Trifluorotoluene	Re965107	08/02/96	50.3	50.0	101	
	08037*9						
	15M.TXa,a,a-Trifluorotoluene	Re965107	08/02/96	49.9	50.0	100	
	08037*10						
	15M.TXa,a,a-Trifluorotoluene	Re965107	08/02/96	51.5	50.0	103	
	08037*11						
	15M.TXa,a,a-Trifluorotoluene	Re965107	08/03/96	50.7	50.0	101	
	08037*12						
	15M.TXa,a,a-Trifluorotoluene	Re965107	08/03/96	51.1	50.0	102	

SURROGATE RECOVERIES :

BC ANALYTICAL : GLEN LAB : 10:06:11 07 AUG 1996 - P. 1 :

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METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
608036*2*R1							
015M.TXa	a,a,a-Trifluorotoluene	Re965107	08/02/96	51.0	50.0	102	
608036*2*S1							
015M.TXa	a,a,a-Trifluorotoluene	Re965107	08/02/96	57.2	50.0	114	
608036*2*S2							
015M.TXa	a,a,a-Trifluorotoluene	Re965107	08/02/96	54.4	50.0	109	
608036*2*T							
015M.TXa	a,a,a-Trifluorotoluene	Re965107	08/02/96	50.0	50.0	100	
608038*1*R1							
010	Bromochloromethane	963104	08/02/96	52.7	50.0	105	
015M.TXa	a,a,a-Trifluorotoluene	Re966113	08/05/96	50.7	50.0	101	
608038*1*S1							
010	Bromochloromethane	963104	08/02/96	48.0	50.0	96	
015M.TXa	a,a,a-Trifluorotoluene	Re966113	08/05/96	54.4	50.0	109	
608038*1*S2							
010	Bromochloromethane	963104	08/02/96	47.4	50.0	95	
015M.TXa	a,a,a-Trifluorotoluene	Re966113	08/05/96	54.7	50.0	109	
608038*1*T							
010	Bromochloromethane	963104	08/02/96	50.0	50.0	100	
015M.TXa	a,a,a-Trifluorotoluene	Re966113	08/05/96	50.0	50.0	100	
608206*1*MB							
015M.TXa	a,a,a-Trifluorotoluene	Re965107	08/02/96	51.3	50.0	103	
608392*1*MB							
015M.TXa	a,a,a-Trifluorotoluene	Re966113	08/05/96	51.3	50.0	103	
608346*1*LC							
015M.TXa	a,a,a-Trifluorotoluene	Re965107	08/01/96	55.6	50.0	111	
608346*1*LT							
015M.TXa	a,a,a-Trifluorotoluene	Re965107	08/01/96	50.0	50.0	100	
608704*1*LC							
015M.TXa	a,a,a-Trifluorotoluene	Re966113	08/05/96	52.9	50.0	106	

SURROGATE RECOVERIES :
BC ANALYTICAL : GLEN LAB : 10:06:11 07 AUG 1996 - P. 2 :

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THOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
.08704	*1*LT						
15M.TXa	,a,a-Trifluorotoluene	Re966113	08/05/96	50.0	50.0	100	

G41008037

Chain of Custody

Toxaco Environmental Services

108 Cutting Boulevard
 Richmond, California 94804
 Phone (510) 230-3541
 FAX (510) 237-7021

Forward Results to the Attention of Rebecca Digerness
 Toxaco Project Coordinator Karen Petryna

Site Name: Texaco Loc. # 624881450
 Site Address: 1127 Lincoln Ave. Alameda, CA
 Contractor Project Number: 960801-L1
 Contractor Name: Blaine Tech Services, Inc.
 Address: 985 Timothy Dr., San Jose, CA 95133
 Project Contact: Jim Keller
 Phone/FAX: (408) 995-5535 / (408) 293-8773

Laboratory: B C Analytical
 Turn Around Time: normal (10 day)
 Samplers (PRINT NAME): LAD B OLIVER
 Sampler Signature: [Signature]
 Date Samples Collected: 8-1-96

ANALYSIS										Comments
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			
X	-1									
X	-2									
X	-3									
X	-4									
X	-5									
X	-6									
X	-7									
X	-8									
X	-9									
X	-10									
X	-11									
X	-12									

Sample Number	Lab Sample Number	Date/Time Collected	No. of Containers	Type of Containers	Sample Name	Preservative
MW-1		8/1 1220	3	AO		HCL
MW-2		1208	3	M		
MW-3		1150	3	HCL		
MW-4		1115	3	VDA		
MW-5		1230	3			
MW-6		1306	3			
MW-7		1250	3			
MW-8		1030	3			
MW-9		1015	3			
MW-10		957	3			
MW-11		938	3			
EB		945	3			

Relinquished by: <u>[Signature]</u> (Signature) <u>LAD B OLIVER</u> Date: <u>8-1-96</u> Time: <u>1445</u>	Received by: <u>[Signature]</u> (Signature) <u>Bill Lyons</u> Date: <u>8-1-96</u> Time: <u>2:40</u>
Relinquished by: <u>[Signature]</u> (Signature) <u>Blaine Tech Services</u> Date: <u>8-1-96</u> Time: <u>9:15</u>	Received by: <u>[Signature]</u> (Signature) <u>Monica Mathes</u> Date: <u>8/1/96</u> Time: <u>4:50</u>
Relinquished by: <u>[Signature]</u> (Signature) <u>Monica Mathes</u> Date: <u>8/1/96</u> Time: <u>5:00</u>	Received by: <u>[Signature]</u> (Signature) <u>Leucullum</u> Date: <u>8/2/96</u> Time: <u>9:05</u>
Method of Shipment:	Lab Comments:

Well Gauging Data

Project Name: TEX# 624881450
 Project Number: 960801-L1

Date: 8-1-96
 Recorded By: CAD

Well ID	TOC Elev.	DTB (ft. TOC)	Well Dia. (in.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW-1	(INACCESSIBLE)						
MW-2		—	4.0		7.00		
MW-3		19.60	4.0		7.08		
MW-4		20.25	4.0		7.04		
MW-5		—	4.0		2.80		
MW-6		19.48	2.0		7.10		
MW-7		19.61	2.0		6.94		
MW-8		19.72	4.0		6.60		
MW-9		14.50	4.0		5.69		
MW-10		14.25	4.0		6.25		
MW-11		13.85	4.0		4.66		

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>960801-L1</u>	Texaco ID#: <u>629881450</u>
Sampler: <u>LAD</u>	Date: <u>8-1-96</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>2 3 4 6 8</u> _____
Total Well Depth: _____	Depth to Water: <u>INACCESSIBLE</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: <u>S.S. Bailer</u> <u>Teflon Bailer</u> <u>Middleburg</u> <u>Electric Submersible</u> <u>Extraction Pump</u> Other: _____	Sampling Method: <u>S.S. Bailer</u> <u>Teflon Bailer</u> <u>Extraction Port</u> Other: <u>PORT</u>
--------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>- PUMP RAN FOR 5 MIN.</u>						
<u>1215</u>	<u>72.0</u>	<u>6.7</u>	<u>520.</u>	<u>29.</u>		<u>ODOR</u>
<u>- CAR OVER WELL, COULD NOT GAUGE</u>						
<u>- STATION MANAGER SAYS THE CAR CANNOT BE MOVED.</u>						

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: _____
Sampling Time: <u>1220</u>	Sampling Date: <u>8-1-96</u>
Sample I.D.: <u>MW-1</u>	Laboratory: <u>BC Analytical</u>
Analyzed for: <u>(Tph-G) (BTEX) Tph-D</u>	Other: _____
Equipment Blank I.D.: _____	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: <u>960801-L1</u>	Texaco ID#: <u>624881450</u>
Sampler: <u>LAD</u>	Date: <u>8-1-96</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth: <u> </u>	Depth to Water: <u>7.00</u>
Depth to Free Product: <u> </u>	Thickness of Free Product: <u> </u>
All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.	

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

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

Sampling Method: S.S. Bailer
 Teflon Bailer
 Extraction Port
 Other: PORT

<u> </u>	X	<u> </u>	=	<u> </u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>1203</u>	<u>71.6</u>	<u>7.0</u>	<u>420.</u>	<u>12.</u>	<u>SYS. RAN FOR</u>	
					<u>5 MIN.</u>	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u> </u>
Sampling Time: <u>1208</u>	Sampling Date: <u>8-1-96</u>
Sample I.D.: <u>MW-2</u>	Laboratory: <u>BC Analytical</u>
Analyzed for: <u>TPO</u> <u>BTEX</u> Tph-D	Other: <u> </u>
Equipment Blank I.D.: <u> </u>	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 960801-L1	Texaco ID#: 624881450
Sampler: LAD	Date: 8-1-96
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 19.60	Depth to Water: 7.08
Depth to Free Product:	Thickness of Free Product:
All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.	

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

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

Other: _____

<u>8.1</u>	x	<u>3</u>	=	<u>24.3</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1140	70.4	7.0	460.	68.	9.	
1142	69.4	6.9	440.	33.	17.	
1144	69.4	6.8	440.	11.	25.	

Did well dewater? Yes No Gallons actually evacuated: 25

Sampling Time: 1150 Sampling Date: 8-1-96

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 #: <u>960801-L1</u>	Texaco ID#: <u>624 88 1450</u>
Sampler: <u>LAD</u>	Date: <u>8-1-96</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth: <u>20.25</u>	Depth to Water: <u>7.04</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 <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>8.6</u>	x	<u>3</u>	=	<u>25.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>1108</u>	<u>70.4</u>	<u>6.9</u>	<u>460.</u>	<u>68.</u>	<u>9.</u>	
<u>1110</u>	<u>69.4</u>	<u>6.8</u>	<u>450.</u>	<u>87.</u>	<u>87.</u>	<u>18.</u>
<u>1112</u>	<u>69.6</u>	<u>6.8</u>	<u>460.</u>	<u>109</u>	<u>109.</u>	<u>26.</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>26.</u>
Sampling Time: <u>1115</u>	Sampling Date: <u>8-1-96</u>
Sample I.D.: <u>MW-4</u>	Laboratory: <u>BC Analytical</u>
Analyzed for: Tph-C BTEX Tph-D Other: _____	
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: <u>960801-L1</u>	Texaco ID#: <u>624881450</u>
Sampler: <u>LAD</u>	Date: <u>8-1-96</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>→</u>	Depth to Water: <u>2.80</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 <input checked="" type="checkbox"/> Other: _____	Sampling Method: S.S. Bailer Teflon Bailer Extraction Port <input checked="" type="checkbox"/> Other: <u>PORT</u>
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_____	X	_____	=	_____ Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>1229</u>	<u>67.2</u>	<u>6.9</u>	<u>600.</u>	<u>28.</u>	<u>PUMP RAN FOR 5 min</u>	<u>✓</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>—</u>
Sampling Time: <u>1230</u>	Sampling Date: <u>8-1-96</u>
Sample I.D.: <u>MW-5</u>	Laboratory: <u>BC Analytical</u>
Analyzed for: <u>Tph-C</u> <u>BTEX</u> Tph-D Other: _____	
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 960801-L1	Texaco ID#: 624881450
Sampler: LAD	Date: 8-1-96
Well I.D.: MW-6	Well Diameter: Ø 3 4 6 8 _____
Total Well Depth: 19.48	Depth to Water: 7.10
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 <input checked="" type="checkbox"/> Teflon Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: S.S. Bailer <input checked="" type="checkbox"/> Teflon Bailer Extraction Port Other: _____
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<u>2.0</u>	x	<u>3</u>	=	<u>6.0</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1257	71.4	7.1	250.	>200.	2.	
1300	71.0	7.1	260.	>200.	4.	
1304	71.2	7.1	240.	>200.	6.	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 6.
Sampling Time: 1306	Sampling Date: 8-1-96
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 #: 960801-L1	Texaco ID#: 624881450
Sampler: LAD	Date: 8-1-96
Well I.D.: MW-7	Well Diameter: ② 3 4 6 8 _____
Total Well Depth: 19.61	Depth to Water: 6.94
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: _____

<u>2.0</u>	X	<u>3</u>	=	<u>6.0</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1240	68.6	7.2	350	>200	2.	
1243	68.4	7.1	300	>200	4.	
1246	69.0	7.2	310	>200	6.	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 6
Sampling Time: 1250	Sampling Date: 8-1-96
Sample I.D.: MW-7	Laboratory: BC Analytical
Analyzed for: <input checked="" type="checkbox"/> Tph-G <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> Tph-D Other: _____	
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: <u>960801-L1</u>	Texaco ID#: <u>62488 1450</u>
Sampler: <u>LAD</u>	Date: <u>8-1-96</u>
Well I.D.: <u>MW-8</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>19.72</u>	Depth to Water: <u>6.60</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 Sampling Method: S.S. Bailer
 Teflon Bailer Teflon Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump
 Other: _____

<u>8.5</u>	x	<u>3</u>	=	<u>255</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>1021</u>	<u>67.2</u>	<u>6.9</u>	<u>300.</u>	<u>141.</u>	<u>9.</u>	
<u>1023</u>	<u>67.8</u>	<u>6.8</u>	<u>300.</u>	<u>>200.</u>	<u>17.</u>	
<u>1025</u>	<u>67.0</u>	<u>6.6</u>	<u>320.</u>	<u>>200.</u>	<u>26.</u>	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>26.</u>
Sampling Time: <u>1030</u>	Sampling Date: <u>8-1-96</u>
Sample I.D.: <u>MW-8</u>	Laboratory: <u>BC Analytical</u>
Analyzed for: <u>Tph-G</u> <u>BTEX</u> Tph-D	Other: _____
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: <u>960801-L1</u>	Texaco ID#: <u>624881450</u>
Sampler: <u>LAD</u>	Date: <u>8-1-96</u>
Well I.D.: <u>MW-9</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 ____
Total Well Depth: <u>14.50</u>	Depth to Water: <u>5.69</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 <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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$$\frac{5.7}{1 \text{ Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{16.1}{\text{Calculated Volume}} \text{ Gals.}$$

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>1006</u>	<u>70.2</u>	<u>7.1</u>	<u>350.</u>	<u>140.</u>	<u>6.</u>	
<u>1008</u>	<u>70.2</u>	<u>7.0</u>	<u>340.</u>	<u>>200.</u>	<u>12.</u>	
<u>1011</u>	<u>70.0</u>	<u>6.9</u>	<u>340.</u>	<u>>200.</u>	<u>17.</u>	

Did well dewater? Yes <input checked="" type="checkbox"/> <u>No</u>	Gallons actually evacuated: <u>17.</u>
Sampling Time: <u>1015</u>	Sampling Date: <u>8-1-96</u>
Sample I.D.: <u>MW-9</u>	Laboratory: <u>BC Analytical</u>
Analyzed for: <u>Tph-G</u> <u>BTEX</u> Tph-D Other:	
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 960801-L1	Texaco ID#: 624 881450
Sampler: LAD	Date: 8-1-96
Well I.D.: MW-10	Well Diameter: 2 3 4 6 8
Total Well Depth: 14.25	Depth to Water: 6.25
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 Sampling Method: S.S. Bailer
 Teflon Bailer Teflon Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump
 Other: _____

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
949	66.8	6.5	710.	>200.	6.	
951	68.8	6.5	680.	>200.	11.	
955	67.0	6.6	700.	>200.	16.	

Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 16
Sampling Time: 957	Sampling Date: 8-1-96
Sample I.D.: MW-10	Laboratory: BC Analytical
Analyzed for: Tph-G BTEX Tph-D Other:	
Equipment Blank I.D.: EBC 945	Analyzed for same as primary sample

AFTER MW-11

TEXACO WELL MONITORING DATA SHEET

Project #: <u>960801-L1</u>	Texaco ID#: <u>624881450</u>
Sampler: <u>LAD</u>	Date: <u>8-1-96</u>
Well I.D.: <u>MW-11</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth: <u>13.85</u>	Depth to Water: <u>4.66</u>
Depth to Free Product: <u> </u>	Thickness of Free Product: <u> </u>
All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.	

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

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

Other: _____

$$\frac{6.0}{1 \text{ Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{18.0}{\text{Calculated Volume}} \text{ Gals.}$$

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>927</u>	<u>73.6</u>	<u>7.8</u>	<u>430.</u>	<u>>200.</u>	<u>6.</u>	
<u>929</u>	<u>73.2</u>	<u>7.5</u>	<u>280.</u>	<u>>200.</u>	<u>12.</u>	
<u>933</u>	<u>72.0</u>	<u>7.3</u>	<u>260.</u>	<u>>200.</u>	<u>18.</u>	

Did well dewater? Yes No Gallons actually evacuated: 18

Sampling Time: 938 Sampling Date: 8-1-96

Sample I.D.: MW-11 Laboratory: BC Analytical

Analyzed for: Tph-C 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 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 #: 624881450
 Address: 1127 LINCOLN AVE
 City, State, ZIP: ALAMEDA, CA

Well I.D.	Gals.	Well I.D.	Gals.
/	/	/	/
MW-1	/	/	/
/	/	/	/
/	/	/	/
/	/	/	/
MW-1	140	/	/
/	/	/	/
/	/	/	/
/	/	/	/
/	/	/	/

Total gals. 140 added rinse water 10

Total Gals. Recovered 150

Job #: 960801-L1
 Date: 8-1-96
 Time: 900
 Signature: [Signature]

REC'D AT: BYS
 Date: 8-1-96
 Time: 1430
 Signature: [Signature]

QUARTERLY SUMMARY REPORT
Former Texaco Service Station
1127 Lincoln Avenue, Alameda, California
Alameda County
Second 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 groundwater 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 has been operating since September 1993. 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 act as combined extraction/recovery wells.

WORK PERFORMED DURING THIS QUARTER

Ground water monitoring and sampling of the monitoring wells. Summary of the monitoring and sampling results is presented in Texaco's report dated June 7, 1996. Operation of the dual soil vapor / ground water extraction system.

CHARACTERIZATION STATUS

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

GROUND WATER: The extent of petroleum hydrocarbons is delineated based on the recent sample results.

REMEDIATION STATUS

A dual soil vapor extraction and groundwater extraction system is in operation (see above). Vapors are extracted from five vapor extraction wells and three combination wells and groundwater is extracted from the three combination wells.

WORK TO BE PERFORMED NEXT QUARTER

Continuation of the quarterly ground water monitoring and sampling program and the operation and maintenance of the dual soil vapor / ground water extraction system. Evaluate remedial system performance and the need for continued system operation.

SITE CONTACTS

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