



Texaco Refining  
and Marketing Inc

108 Cutting Boulevard  
Richmond CA 94804

January 22, 1996

**ENV - STUDIES, SURVEYS, & REPORTS**

**1127 Lincoln Avenue  
Alameda, California**

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 October 25, 1995, 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. 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, along with Texaco Environmental Services' Standard Operating Procedures.

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

Best Regards,

Rebecca Digerness  
Environmental Assistant

Karen E. Petryna  
Engineer  
Texaco Environmental Services

RBD hs

C:\QMR\1127L\QMR LET

Enclosures

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

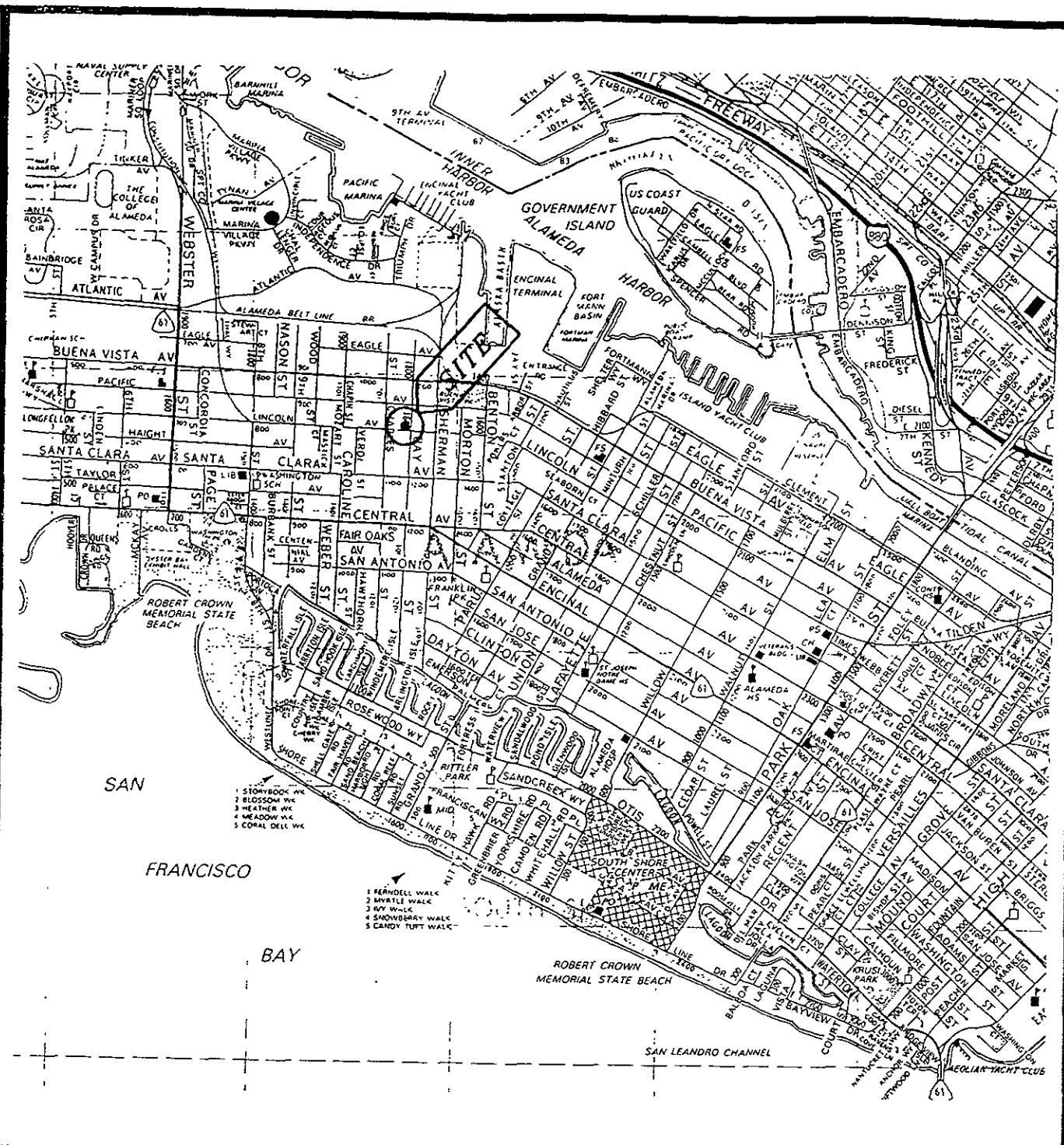
Mr. Leo Pagano  
1127 Lincoln Avenue  
Alameda, CA 94602

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

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

pr: 

**GROUNDWATER MONITORING AND SAMPLING**  
**Fourth Quarter, 1995**  
**at the**  
**Former Texaco Service Station**  
**1127 Lincoln Avenue**  
**Alameda, California**



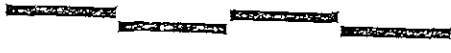
SOURCE  
 1993 THE THOMAS GUIDE



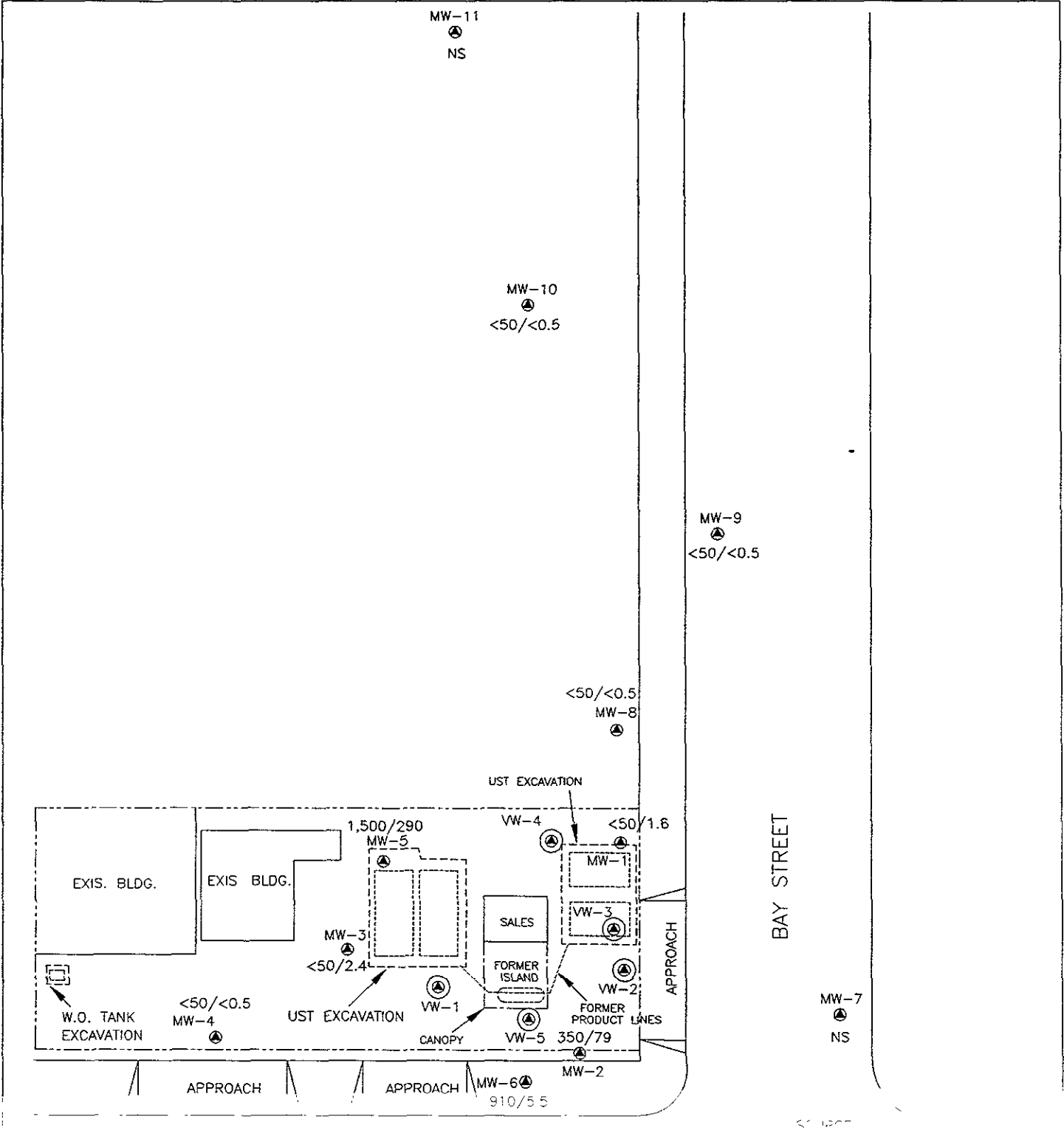
**TEXACO**

LEADING AND MARKETING THE  
 LARGEST ENVIRONMENTAL SERVICE

PLEASE  
 SEE MAP ONLY MAP  
 FORMER TEXACO SERVICE STATIONS  
 1000 1000 1000 1000  
 1000 1000 1000 1000







SOURCE  
 HATTISON ENGINEERING CONDUCTED  
 SURVEY ON 08/04/1994

**TRACCO**  
 REFINING AND MARKETING CO.  
 TRACCO ENVIRONMENTAL SERVICES

DATE: 08/04/1994  
 TIME: 08:00 AM  
 LOCATION: 10000 LINCOLN AVE, BAY 5  
 ALAMEDA, CALIFORNIA  
 PROJECT: 82-495-100  
 DRAWING NO: 82-495-100-01  
 DATE: 08/12/1994  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 SCALE: AS SHOWN

MONITORING WELL LOCATION AND WELL NUMBER  
 MONITORING WELL NUMBER AND LOCATION  
 MONITORING WELL NUMBER AND LOCATION  
 MONITORING WELL NUMBER AND LOCATION

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	
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

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-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
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	



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-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
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	

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		
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	8.88	
10/25/95		8.16	7.71	
MW-9	8/22/95	14.44 **	6.00	8.44
	10/25/95		6.71	7.73

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-10	8/22/95	15.04	6.86	8.18
	10/25/95		7.91	7.13
MW-11	8/22/95	10.61	5.12	5.49
	10/25/95		Inaccessible	
VW-1	2/19/92	16.83		
	1/26/93 - 10/25/95		Not Monitored	
VW-2	2/19/92	17.00		
	1/26/93 - 10/25/95		Not Monitored	
VW-3	2/19/92	16.94		
	1/26/93 - 10/25/95		Not Monitored	
VW-4	2/19/92	16.81	5.76	11.05
	1/26/93 - 10/25/95		Not Monitored	
VW-5	2/19/92	17.20		
	1/26/93 - 10/25/95		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)	MTBE (ppb)	
MW-1	2/4/93	120	22	3.1	3.3	10	NA	
	5/6/93	710	320	3.1	4.2	20	NA	
	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	<0.5	NA
	2/14/95	350	40	1.6	15	31		NA
	5/19/95	220	35	2.4	7.2	23		NA
	8/22/95	330	44	1.2	14	21		<10
	10/25/95	<50	1.6	<0.5	<0.5	<0.5	<0.5	<10
MW-2	2/4/93	430	45	0.5	20	30	NA	
	5/6/93	2,000	460	2.4	160	66	NA	
	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		NA
	8/22/95	1,200	130	8.3	84	86		<10
10/25/95	350	79	1.2	55	13		<10	
MW-3	2/4/93	2,900	180	13	210	350	NA	
	5/6/93	2,700	270	6.2	300	720	NA	
	9/28/93	1,800	92	1.7	99	240	NA	
	11/15/93	1,900	100	2.4	85	280	NA	
	2/7/94	1,400	69	3.3	100	320	NA	
	5/20/94	1,100	64	19	120	180	NA	
	8/22/94	77	4.3	<0.5	2.0	5.6	NA	
	11/2/94	<50	0.75	<0.5	<0.5	<0.5	NA	
	2/14/95	1,300	24	5.2	85	360	NA	
	5/19/95	5,300	98	28	650	1,700	NA	
	8/22/95	700	4.1	1.1	50	72	<10	
10/25/95	<50	2.4	<0.5	<0.5	1.6	<10		

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-4	2/4/93	<50	<0.5	<0.5	<0.5	<0.5	NA	
	5/6/93	<50	1.6	<0.5	1	2.1	NA	
	9/28/93	Not Accessible - Auto on Well						
	11/15/93	<50	<0.5	<0.5	<0.5	<0.5	NA	
	2/7/94	<50	<0.5	<0.5	<0.5	2.6	NA	
	5/20/94	82	6.2	7.6	3.3	17	NA	
	8/22/94	<50	<0.5	<0.5	<0.5	<0.5	NA	
	11/2/94	<50	<0.5	0.56	<0.5	<0.5	NA	
	2/14/95	<50	<0.5	<0.5	<0.5	<0.5	NA	
	5/19/95	66	0.77	0.63	0.87	3.6	NA	
	8/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10	
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5	<10	
	MW-5	2/4/93	Not Sampled					
5/6/93		6,200	460	980	300	1,200	NA	
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	NA	
2/14/95		1,300	290	76	21	140	NA	
5/19/95		600	83	20	5.7	33	NA	
8/22/95		8,100	650	720	54	1,700	<50	
10/25/95	1,500	290	85	15	170	<50		
MW-6	2/4/93	2,300	19	5.4	27	220	NA	
	5/6/93	540	44	0.9	7	6.7	NA	
	9/28/93	180	2.7	0.73	6.3	13	NA	
	11/15/93	180	2.2	0.91	5.4	16	NA	
	2/7/94	240	2.9	1.2	3.9	7.1	NA	
	5/20/94	600	4.5	2.2	24	66	NA	
	8/22/94	400	3.2	1	7.9	40	NA	
	11/2/94	150	1.6	1.3	6.5	27	NA	
	2/14/95	770	4.0	2.9	42	130	NA	
	5/19/95	2,400	6.9	11	99	350	NA	
	8/22/95	190	1.0	1.7	5.2	18	<10	
10/25/95	910	5.5	3.3	50	160	<10		

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-7	2/4/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/6/93	Not Sampled					
	9/28/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	11/15/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	2/7/94	Not Sampled					
	5/20/94	Not Sampled					
	8/22/94	130	<0.5	<0.5	<0.5	<0.5	NA
	11/2/94	73	<0.5	<0.5	<0.5	<0.5	NA
	2/14/95	Not Sampled					
	5/19/95	<50	<0.5	<0.5	<0.5	2.3	NA
	8/22/95	400	<0.5	<0.5	<0.5	0.76	<10
	10/25/95	Not Sampled					
						-	
MW-8	2/4/93	540	150	3.7	5.2	10	NA
	5/6/93	22,000	9,400	46	390	520	NA
	9/28/93	8,000	1,700	22	30	75	NA
	11/15/93	2,000	840	8.8	15	42	NA
	2/7/94	1,700	460	0.6	13	5	NA
	5/20/94	110	98	1.4	1.3	3.4	NA
	8/22/94	51	16	<0.5	<0.5	<0.5	NA
	11/2/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	2/14/95	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/19/95	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-9	8/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-10	8/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-11	8/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10
	10/25/95	Not Sampled					
< = Less than the detection limit for the specified method of analysis							
NA = Not available							
ppb = parts per billion							

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	
	5/6/93	710	320	3.1	4.2	20	NA	
	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	<0.5	NA
	2/14/95	350	40	1.6	15	31	NA	
	5/19/95	220	35	2.4	7.2	23	NA	
	8/22/95	330	44	1.2	14	21	<10	
	10/25/95	<50	1.6	<0.5	<0.5	<0.5	<0.5	<10
MW-2	2/4/93	430	45	0.5	20	30	NA	
	5/6/93	2,000	460	2.4	160	66	NA	
	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	NA	
	8/22/95	1,200	130	8.3	84	86	<10	
	10/25/95	350	79	1.2	55	13	<10	
MW-3	2/4/93	2,900	180	13	210	350	NA	
	5/6/93	2,700	270	6.2	300	720	NA	
	9/28/93	1,800	92	1.7	99	240	NA	
	11/15/93	1,900	100	2.4	85	280	NA	
	2/7/94	1,400	69	3.3	100	320	NA	
	5/20/94	1,100	64	19	120	180	NA	
	8/22/94	77	4.3	<0.5	2.0	5.6	NA	
	11/2/94	<50	0.75	<0.5	<0.5	<0.5	NA	
	2/14/95	1,300	24	5.2	85	360	NA	
	5/19/95	5,300	98	28	650	1,700	NA	
	8/22/95	700	4.1	1.1	50	72	<10	
	10/25/95	<50	2.4	<0.5	<0.5	1.6	<10	

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-4	2/4/93	<50	<0.5	<0.5	<0.5	<0.5	NA	
	5/6/93	<50	1.6	<0.5	1	2.1	NA	
	9/28/93	Not Accessible - Auto on Well						
	11/15/93	<50	<0.5	<0.5	<0.5	<0.5	NA	
	2/7/94	<50	<0.5	<0.5	<0.5	2.6	NA	
	5/20/94	82	6.2	7.6	3.3	17	NA	
	8/22/94	<50	<0.5	<0.5	<0.5	<0.5	NA	
	11/2/94	<50	<0.5	0.56	<0.5	<0.5	NA	
	2/14/95	<50	<0.5	<0.5	<0.5	<0.5	NA	
	5/19/95	66	0.77	0.63	0.87	3.6	NA	
	8/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10	
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5	<10	
							-	
MW-5	2/4/93	Not Sampled						
	5/6/93	6,200	460	980	300	1,200	NA	
	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	NA	
	2/14/95	1,300	290	76	21	140	NA	
	5/19/95	600	83	20	5.7	33	NA	
	8/22/95	8,100	650	720	54	1,700	<50	
10/25/95	1,500	290	85	15	170	<50		
MW-6	2/4/93	2,300	19	5.4	27	220	NA	
	5/6/93	540	44	0.9	7	6.7	NA	
	9/28/93	180	2.7	0.73	6.3	13	NA	
	11/15/93	180	2.2	0.91	5.4	16	NA	
	2/7/94	240	2.9	1.2	3.9	7.1	NA	
	5/20/94	600	4.5	2.2	24	66	NA	
	8/22/94	400	3.2	1	7.9	40	NA	
	11/2/94	150	1.6	1.3	6.5	27	NA	
	2/14/95	770	4.0	2.9	42	130	NA	
	5/19/95	2,400	6.9	11	99	350	NA	
	8/22/95	190	1.0	1.7	5.2	18	<10	
	10/25/95	910	5.5	3.3	50	160	<10	



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-7	2/4/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/6/93	Not Sampled					
	9/28/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	11/15/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	2/7/94	Not Sampled					
	5/20/94	Not Sampled					
	8/22/94	130	<0.5	<0.5	<0.5	<0.5	NA
	11/2/94	73	<0.5	<0.5	<0.5	<0.5	NA
	2/14/95	Not Sampled					
	5/19/95	<50	<0.5	<0.5	<0.5	2.3	NA
	8/22/95	400	<0.5	<0.5	<0.5	0.76	<10
	10/25/95	Not Sampled					
	MW-8	2/4/93	540	150	3.7	5.2	10
5/6/93		22,000	9,400	46	390	520	NA
9/28/93		8,000	1,700	22	30	75	NA
11/15/93		2,000	840	8.8	15	42	NA
2/7/94		1,700	460	0.6	13	5	NA
5/20/94		110	98	1.4	1.3	3.4	NA
8/22/94		51	16	<0.5	<0.5	<0.5	NA
11/2/94		<50	<0.5	<0.5	<0.5	<0.5	NA
2/14/95		<50	<0.5	<0.5	<0.5	<0.5	NA
5/19/95		<50	<0.5	<0.5	<0.5	<0.5	NA
8/22/95		<50	<0.5	<0.5	<0.5	<0.5	<10
10/25/95		<50	<0.5	<0.5	<0.5	<0.5	<10
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	<10
MW-10	8/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-11	8/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10
	10/25/95	Not Sampled					
MTBE = Methyl-tert-butylether							
< = Less than the detection limit for the specified method of analysis							
NA = Not available							
ppb = parts per billion							

## **APPENDIX**

801 Western Avenue  
 Mendota, CA 91201  
 (916) 437-5737  
 FX: 318/217-9797

LOG NO: G95-10-547

Received: 26 OCT 95

Mailed: NOV 3 1995

Ms. Rebecca Dugerness  
 Texaco Environmental Services  
 108 Cutting Boulevard  
 Richmond, CA 94701

Purchase Order: 94-1446346+4370

Requisition: 624881450  
 Project: FKEP1001L

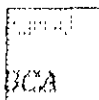
CC: Mr. Timothy Ross

REPORT OF ANALYTICAL RESULTS

Page 1

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
RDI				1	50	0.5	0.5	0.5	10	0.5	
1-SW 1	10/25/95	10/31/95		1	<50	1.6	<0.5	<0.5	<10	<0.5	C6-C12
2-SW 2	10/25/95	10/31/95		1	350	79	1.2	55	<10	13	C6-C12
3-SW 3	10/25/95	10/31/95		1	<50	2.4	<0.5	<0.5	<10	1.6	C6-C12
4-SW 4	10/25/95	10/31/95		5	1500	290	85	15	<50	170	C6-C12
5-SW 5	10/25/95	10/31/95		1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12
6-SW 6	10/25/95	10/31/95		1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12
7-SW 7	10/25/95	10/31/95		1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12



301 Western Avenue  
 Mendota, CA 91201  
 318124/ 5/37  
 Fax: 318124/ 9/97

LOG NO: G95-10-547

Received: 26 OCT 95

Ms. Rebecca Tierney  
 Texaco Environmental Services  
 108 Cutting Boulevard  
 Richmond, CA 94801

Purchase Order: 94-1446346+4370

Requisition: 624881450  
 Project: FKEP1001L

CC: Mr. Timothy Ross

REPORT OF ANALYTICAL RESULTS

Page 2

AQUEOUS

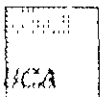
SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)	Date Analyzed Date	Dilution Factor Times	TPH-g	Benzene	Toluene	Ethyl-Benzene	Methyl-tert-butylether	Total Xylenes	Carbon Range
					ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
RDI				1	50	0.5	0.5	0.5	10	0.5	
Q1B	10/25/95	10/31/95		1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12
Q1B	10/25/95	10/31/95		1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12

Karen Petryna  
 11, Lincoln Ave., Alameda  
 Alameda County

*Jane Freemyer*  
 Jane Freemyer, 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.

This report shall not be reproduced, except in full, without the written approval of BCA. No use of this report for promotional or advertising purposes is permitted without prior written BCA approval.



SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE.....	METHOD.....	EQUIP.	BATCH..	ID.NO
			ANALYZED				
9510547*1	MW 1	GAS.BTX.TESNC	10.31.95	8015M.TX	536-35	95420	8559
9510547*2	MW 2	GAS.BTX.TESNC	10.31.95	8015M.TX	536-35	95420	8559
9510547*3	MW 3	GAS.BTX.TESNC	10.31.95	8015M.TX	536-35	95420	8559
9510547*4	MW 5	GAS.BTX.TESNC	10.31.95	8015M.TX	536-35	95420	8559
9510547*5	MW 8	GAS.BTX.TESNC	10.31.95	8015M.TX	536-35	95420	8559
9510547*6	MW 9	GAS.BTX.TESNC	10.31.95	8015M.TX	536-35	95420	8559
9510547*7	MW 10	GAS.BTX.TESNC	10.31.95	8015M.TX	536-35	95420	8559
9510547*8	EB	GAS.BTX.TESNC	10.31.95	8015M.TX	536-35	95420	8559
9510547*9	TB	GAS.BTX.TESNC	10.31.95	8015M.TX	536-35	95420	8559

\*\*\*

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

ID.NO BC Analytical employee identification number of analyst.

## BC ANALYTICAL

ORDER QC REPORT FOR G9510547

DATE REPORTED : 11/03/95

Page 1

LABORATORY CONTROL STANDARDS  
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. TPH	C511041*1					
Date Analyzed	11.01.95	95420	11/01/95	11/01/95	Date	N/A
Benzene	11.01.95	95420	18.4	18.5	ug/L	99
Toluene	11.01.95	95420	95.0	91.1	ug/L	104
Ethylbenzene	11.01.95	95420	20.5	19.2	ug/L	107
Total Xylene Isomers	11.01.95	95420	110	103	ug/L	107
TPH (Gasoline Range)	11.01.95	95420	1110	1000	ug/L	111
a,a,a-Trifluorotoluene Rep.	11.01.95	95420	59.6	50.0	ug/L	119
a,a,a-Trifluorotoluene Th.	11.01.95	95420	50.0	50.0	ug/L	100

BC ANALYTICAL

ORDER QC REPORT FOR G9510547

DATE REPORTED : 11/03/95

Page 1

MATRIX QC ACCURACY (SPIKES)  
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. TPH	9510547*1						
Benzene		10.31.95	95420	105	106	19.1	ug/L
Toluene		10.31.95	95420	104	103	91.1	ug/L
Ethylbenzene		10.31.95	95420	104	103	19.2	ug/L
Total Xylene Isomers		10.31.95	95420	106	105	103	ug/L
TPH (Gasoline Range)		10.31.95	95420	109	106	1000	ug/L
a,a,a-Trifluorotoluene Rep.		10.31.95	95420	112	114	50.0	ug/L
a,a,a-Trifluorotoluene Th.		10.31.95	95420	100	100	50.0	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR G9510547

DATE REPORTED : 11/03/95

Page 1

MATRIX QC PRECISION (DUPLICATE SPIKES)  
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. TPH	9510547*1						
Date Analyzed		10.31.95	95420	10/31/95	10/31/95	Date	N/A
Benzene		10.31.95	95420	20.0	20.1	ug/L	0
Toluene		10.31.95	95420	94.5	93.8	ug/L	1
Ethylbenzene		10.31.95	95420	20.0	19.7	ug/L	2
Total Xylene Isomers		10.31.95	95420	109	108	ug/L	1
TPH (Gasoline Range)		10.31.95	95420	1090	1060	ug/L	3
a,a,a-Trifluorotoluene Rep.		10.31.95	95420	56.2	57.2	ug/L	2
a,a,a-Trifluorotoluene Th.		10.31.95	95420	50.0	50.0	ug/L	0



BC ANALYTICAL

ORDER QC REPORT FOR G9510547

DATE REPORTED : 11/03/95

Page 1

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)  
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
1. TPH	B511019*1					
Date Analyzed	10.31.95	95420	10/31/95	NA	Date	8015M.TX
Benzene	10.31.95	95420	0	0.5	ug/L	8015M.TX
Toluene	10.31.95	95420	0	0.5	ug/L	8015M.TX
Ethylbenzene	10.31.95	95420	0	0.5	ug/L	8015M.TX
Methyl-tert-butylether	10.31.95	95420	0	NA	ug/L	8015M.TX
Total Xylene Isomers	10.31.95	95420	0	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	10.31.95	95420	0	50	ug/L	8015M.TX
a,a,a-Trifluorotoluene Rep.	10.31.95	95420	53.9	NA	ug/L	8015M.TX
a,a,a-Trifluorotoluene Th.	10.31.95	95420	50.0	NA	ug/L	8015M.TX

: SURROGATE RECOVERIES :  
: BC ANALYTICAL : GLEN LAB : 09:32:31 03 NOV 1995 - P. 1 :  
=====

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
0510547*1							
3015M.TXa	a,a-Trifluorotoluene	Re95420	10/31/95	49.4	50.0	99	
0510547*2							
3015M.TXa	a,a-Trifluorotoluene	Re95420	10/31/95	50.5	50.0	101	
0510547*3							
3015M.TXa	a,a-Trifluorotoluene	Re95420	10/31/95	53.3	50.0	107	
0510547*4							
3015M.TXa	a,a-Trifluorotoluene	Re95420	10/31/95	269	250	108	
0510547*5							
3015M.TXa	a,a-Trifluorotoluene	Re95420	10/31/95	52.2	50.0	104	
0510547*6							
3015M.TXa	a,a-Trifluorotoluene	Re95420	10/31/95	51.9	50.0	104	
0510547*7							
3015M.TXa	a,a-Trifluorotoluene	Re95420	10/31/95	52.5	50.0	105	
0510547*8							
3015M.TXa	a,a-Trifluorotoluene	Re95420	10/31/95	52.2	50.0	104	
0510547*9							
3015M.TXa	a,a-Trifluorotoluene	Re95420	10/31/95	53.1	50.0	106	

: SURROGATE RECOVERIES :  
: BC ANALYTICAL : GLEN LAB : 09:32:34 03 NOV 1995 - P. 1 :  
=====

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9510547*1*R1							
8015M.TXa	a,a,a-Trifluorotoluene	Re95420	10/31/95	49.4	50.0	99	
9510547*1*S1							
8015M.TXa	a,a,a-Trifluorotoluene	Re95420	10/31/95	56.2	50.0	112	
9510547*1*S2							
8015M.TXa	a,a,a-Trifluorotoluene	Re95420	10/31/95	57.2	50.0	114	
9510547*1*T							
8015M.TXa	a,a,a-Trifluorotoluene	Re95420	10/31/95	50.0	50.0	100	
8511019*1*MB							
8015M.TXa	a,a,a-Trifluorotoluene	Re95420	10/31/95	53.9	50.0	108	
C511041*1*LC							
8015M.TXa	a,a,a-Trifluorotoluene	Re95420	11/01/95	59.6	50.0	119	
C511041*1*LT							
8015M.TXa	a,a,a-Trifluorotoluene	Re95420	11/01/95	50.0	50.0	100	

Chain-of-Custody

**Texaco Environmental Services**  
 108 Cutting Boulevard  
 Richmond, California 94804  
 Phone: (510) 238-3541  
 FAX: (510) 237-7021  
 Forward Results to the Attention of Rebecca Digerness  
 Texaco Project Corordinator Karen Petryna

**Site Name:** Texaco Loc. # 624881450  
**Site Address:** 1127 Lincoln Ave. Alameda, CA  
**Contractor Project Number:** 951025-62  
**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):** GRANT MOHR  
**Sampler Signature:** [Signature]  
**Date Samples Collected:** 10-25-95

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/TRPH (418.1)	TPH Ex. (C8-C36 +)	VOCs 8240/624 For MTBE	P. Halocarbons 8010/60	P. Aromatics 8020/602	Organic Lead	Comments
MW1		10-25/1545	3	VOA	W	Hex	X								-1 cooler temp: 5°C sample cond: good 624881450 Alameda KEP Comments FKEP 10C/L cc: Tim Ross
MW2		1600	3				X								-2
MW3		1700	3				X								-3
MW5		1615	3				X								-4
MW8		1515	3				X								-5
MW9		1500	3				X								-6
EB		1450	3				X								-7
MW10		1440	3				X								-8
FB			2				X								-9

Relinquished by: <u>[Signature]</u> Date: <u>10/26/95</u> Time: <u>10:45</u>	Received by: <u>Bill Lyons</u> Date: <u>10-26-95</u> Time: <u>10:45</u>
Relinquished by: <u>Bill Lyons</u> Date: <u>10-26-95</u> Time: <u>3:00</u>	Received by: <u>Kimberly Eng</u> Date: <u>10/26/95</u> Time: <u>3:00</u>
Relinquished by: <u>Kimberly Eng</u> Date: <u>10/26/95</u> Time: <u>6:00</u>	Received by: _____ Date: _____ Time: _____
Method of Shipment: _____	Lab Comments: _____

301 Western Avenue  
 Glendale, CA 91201  
 818/247-5137  
 Fax: 818/247-9797

LOG NO: G95-10-546

Received: 26 OCT 95

Mailed: OCT 31 1995

Ms. Rebecca Digherness  
 Texaco Environmental Services  
 108 Cutting Boulevard  
 Richmond, CA 94801

Purchase Order: 94-1446346+4370

Requisition: 624881450  
 Project: FKEP1001L

CC: Mr. Timothy Ross

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
RG1				1	50	0.5	0.5	0.5	10	0.5	
1*11834MW4 NP	10/25/95	10/27/95	1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12	
2*11834MW4 PP	10/25/95	10/27/95	1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12	
3*11834MW6 NP	10/25/95	10/27/95	1	1600	4.8	3.9	97	<10	280	C6-C12	
4*11834MW6 NPD	10/25/95	10/27/95	1	1800	6.5	4.5	110	<10	320	C6-C12	
5*11834MW6 PP	10/25/95	10/27/95	1	910	5.5	3.3	50	<10	160	C6-C12	
6*11834MW6 PPD	10/25/95	10/27/95	1	1300	6.9	3.7	60	<10	200	C6-C12	

Karen Petryna  
 1127 Lincoln Ave., Alameda  
 Alameda County

*Jane Freemyer*  
 Jane Freemyer, Program Manager

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.

This report shall not be reproduced, except in full, without the written approval of BCA. No use of this report for promotional or advertising purposes is permitted without prior written BCA approval.



: ORDER PLACED FOR CLIENT: Texaco Environmental Services 9510546 :  
: BC ANALYTICAL : GLEN LAB : 09:48:19 31 OCT 1995 - P. 1 :

=====

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE.....	METHOD.....	EQUIP.	BATCH..	ID.NO
			ANALYZED				
9510546*1	T1834MW4 NP	GAS.BTX.TESNC	10.27.95	8015M.TX	536-35	95418	8559
9510546*2	T1834MW4 PP	GAS.BTX.TESNC	10.27.95	8015M.TX	536-35	95418	8559
9510546*3	T1834MW6 NP	GAS.BTX.TESNC	10.27.95	8015M.TX	536-35	95418	8559
9510546*4	T1834MW6 NPD	GAS.BTX.TESNC	10.27.95	8015M.TX	536-35	95418	8559
9510546*5	T1834MW6 PP	GAS.BTX.TESNC	10.27.95	8015M.TX	536-35	95418	8559
9510546*6	T1834MW6 PPD	GAS.BTX.TESNC	10.27.95	8015M.TX	536-35	95418	8559

\*\*\*

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.  
ID.NO - BC Analytical employee identification number of analyst.

BC ANALYTICAL

ORDER QC REPORT FOR G9510546

DATE REPORTED : 10/31/95

Page 1

LABORATORY CONTROL STANDARDS  
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. BTEX/TPH	C5103804*1					
Date Analyzed	10.28.95	95418	10/28/95	10/28/95	Date	N/A
Benzene	10.28.95	95418	17.2	18.5	ug/L	93
Toluene	10.28.95	95418	90.5	91.1	ug/L	99
Ethylbenzene	10.28.95	95418	19.4	19.2	ug/L	101
Total Xylene Isomers	10.28.95	95418	104	103	ug/L	101
TPH (Gasoline Range)	10.28.95	95418	1040	1000	ug/L	104
a,a,a-Trifluorotoluene Rep.	10.28.95	95418	56.0	50.0	ug/L	112
a,a,a-Trifluorotoluene Th.	10.28.95	95418	50.0	50.0	ug/L	100

BC ANALYTICAL

ORDER QC REPORT FOR G9510546

DATE REPORTED : 10/31/95

Page 1

MATRIX QC PRECISION (DUPLICATE SPIKES)  
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. TPH	9510546*1						
Date Analyzed		10.27.95	95418	10/27/95	10/27/95	Date	N/A
Benzene		10.27.95	95418	16.0	16.5	ug/L	3
Toluene		10.27.95	95418	84.5	86.6	ug/L	2
Ethylbenzene		10.27.95	95418	17.7	18.1	ug/L	2
Total Xylene Isomers		10.27.95	95418	97.0	100	ug/L	3
TPH (Gasoline Range)		10.27.95	95418	974	1030	ug/L	6
a,a,a-Trifluorotoluene Rep.		10.27.95	95418	50.6	52.1	ug/L	3
a,a,a-Trifluorotoluene Th.		10.27.95	95418	50.0	50.0	ug/L	0



BC ANALYTICAL

ORDER QC REPORT FOR G9510546

DATE REPORTED : 10/31/95

Page 1

MATRIX QC ACCURACY (SPIKES)  
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. TPH	9510546*1						
Benzene		10.27.95	95418	86	89	18.5	ug/L
Toluene		10.27.95	95418	93	95	91.1	ug/L
Ethylbenzene		10.27.95	95418	92	94	19.2	ug/L
Total Xylene Isomers		10.27.95	95418	94	97	103	ug/L
TPH (Gasoline Range)		10.27.95	95418	97	103	1000	ug/L
a,a,a-Trifluorotoluene Rep.		10.27.95	95418	101	104	50.0	ug/L
a,a,a-Trifluorotoluene Th.		10.27.95	95418	100	100	50.0	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR G9510546

DATE REPORTED : 10/31/95

Page 1

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)  
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
1. BTEX/TPH	B5102134*1					
Date Analyzed	10.27.95	95418	10/27/95	NA	Date	8015M
Benzene	10.27.95	95418	0	0.5	ug/L	8015M
Toluene	10.27.95	95418	0	0.5	ug/L	8015M
Ethylbenzene	10.27.95	95418	0	0.5	ug/L	8015M
Total Xylene Isomers	10.27.95	95418	0	0.5	ug/L	8015M
TPH (Gasoline Range)	10.27.95	95418	0	50	ug/L	8015M
a,a,a-Trifluorotoluene Rep.	10.27.95	95418	53.9	NA	ug/L	8015M
a,a,a-Trifluorotoluene Th.	10.27.95	95418	50.0	NA	ug/L	8015M

: SURROGATE RECOVERIES :  
: BC ANALYTICAL : GLEN LAB : 09:49:02 31 OCT 1995 - P. 1 :  
=====

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9510546*1							
8015M.TXa	,a,a-Trifluorotoluene	Re95418	10/27/95	50.9	50.0	102	
9510546*2							
8015M.TXa	,a,a-Trifluorotoluene	Re95418	10/27/95	50.1	50.0	100	
9510546*3							
8015M.TXa	,a,a-Trifluorotoluene	Re95418	10/27/95	43.9	50.0	88	
9510546*4							
8015M.TXa	,a,a-Trifluorotoluene	Re95418	10/27/95	45.1	50.0	90	
9510546*5							
8015M.TXa	,a,a-Trifluorotoluene	Re95418	10/27/95	51.4	50.0	103	
9510546*6							
8015M.TXa	,a,a-Trifluorotoluene	Re95418	10/27/95	44.9	50.0	90	

: SURROGATE RECOVERIES :  
: BC ANALYTICAL : GLEN LAB : 09:49:05 31 OCT 1995 - P. 1 :  
=====

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9510546*1*R1							
8015M.TXa	a,a,a-Trifluorotoluene	Re95418	10/27/95	50.9	50.0	102	
9510546*1*S1							
8015M.TXa	a,a,a-Trifluorotoluene	Re95418	10/27/95	50.6	50.0	101	
9510546*1*S2							
8015M.TXa	a,a,a-Trifluorotoluene	Re95418	10/27/95	52.1	50.0	104	
9510546*1*T							
8015M.TXa	a,a,a-Trifluorotoluene	Re95418	10/27/95	50.0	50.0	100	
B5102134*1*MB							-
8015M	a,a,a-Trifluorotoluene	Re95418	10/27/95	53.9	50.0	108	
C5103804*1*LC							
8015M	a,a,a-Trifluorotoluene	Re95418	10/28/95	56.0	50.0	112	
C5103804*1*LT							
8015M	a,a,a-Trifluorotoluene	Re95418	10/28/95	50.0	50.0	100	

G9510546 1 of 1  
 Page ~~1~~ 10/26/95

Chain-of-Custody

Texaco Environmental Services

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

Site Name: Texaco Loc. # 624881450  
 Site Address: 1127 Lincoln Ave. Alameda, CA  
 Contractor Project Number: 951025-G2  
 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

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

Laboratory: B C Analytical

Turn Around Time: ~~normal (10 days)~~ 7 DAY TAT

Samplers (PRINT NAME): GRANT MOHR

Sampler Signature: [Signature]

Date Samples Collected: 10-25-95

ANALYSIS

7 DAY  
 TAT  
 WSPA  
 T-1834

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. (CB-C36+)	VOCs 8240/624 FOR MTBE	P. Halocarbons 8010/60	P. Aromatics 8020/602	Organic Lead	Comments
T1834 MW4	NP	10-25 1520	3	VQA	W	Hex	X								-1 cooler temp:
T1834 MW4	PP	1535	3				X								-2 5 °C
T1834 MW6	NP	1620	3				X								-3 sample cond:
T1834 MW6	NPD	1620	3				X								-4 good
T1834 MW6	PP	1640	3				X								-5
T1834 MW6	PPD	1640	3				X								-4
															624881450
															Alameda
															KEP
															FKEP1001L
															CC: Tim Ross

Relinquished by: [Signature] Date: 10/26/95 Time: 10:45  
 Relinquished by: Bill Lyons Date: 10-26-95 Time: 3:00  
 Relinquished by: Kimberly Gray Date: 10/26/95 Time: 6:00

Received by: Bill Lyons Date: 10-26-95 Time: 10:45  
 Received by: Kimberly Gray Date: 10/26/95 Time: 3:00



# Groundwater Sampling Form

Project Name 6249901450 Well No. MW1  
 Project Number 951025-62 Well Type  Monitor  Extraction  Other  
 Recorded By Gr Sampled by Gr Date 10-25

## WELL PURGING

### PURGE VOLUME

Well casing diameter  
 2-inch  4-inch  Other \_\_\_\_\_ **UNABLE TO GAUGE**  
 Well Total Depth (TD, ft. below TOC) \_\_\_\_\_  
 Depth to Water (WL, ft. below TOC) \_\_\_\_\_  
 Depth to free phase hydrocarbons (FP, ft. below TOC) \_\_\_\_\_  
 Number of well volumes to be purged  
 3  10  Other \_\_\_\_\_

### PURGE METHOD

Bailor - Type \_\_\_\_\_  
 Pump - Type EXTRACTION  
 Other \_\_\_\_\_

### PUMP INTAKE

Near top Depth (ft) \_\_\_\_\_  
 Near Bottom Depth (ft) \_\_\_\_\_  
 Other \_\_\_\_\_

### PURGE VOLUME CALCULATION

$$\text{Water Column Length} \times \text{Multiplier} \times \text{No. Vols} = \text{Gals}$$

MULTIPLIER (Casing Dia. inches) = Gallons/linear ft.  
 2 = 0.17 | 3 = 0.38 | 4 = 0.66 | 4.5 = 0.83 | 5 = 1.02 | 6 = 1.5 | 8 = 2.6

Pumping Rate \_\_\_\_\_ gpm  
 CALCULATED PURGE VOLUME \_\_\_\_\_ gals  
 ACTUAL PURGE VOLUME \_\_\_\_\_ gals

### GROUNDWATER PARAMETER MEASUREMENT

Time/Gallons	pH	Cond. (uomhos/cm)	Temp (deg C / deg F)	Turbidity (NTU)	Color/Odor
1340 / —	6.4	430	70.6	18.4	
/					
/					
/					
/					
/					
/					
/					

Comments during well purge \_\_\_\_\_  
 Well Pumped dry: YES NO Purge water storage/disposal  Drummed onsite  Other \_\_\_\_\_

## WELL SAMPLING

SAMPLING METHOD: \_\_\_\_\_ Date/Time Sampled 10-25, 1545  
 Bailor - Type  Sample port  Other

### GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Date/Time/% Recharge	pH	Cond. (uomhos/cm)	Temp (deg C / deg F)	Turbidity (NTU)	Color/Odor
/ /					

### SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
MW1	DDA	TRUG BTEX MTBE	HC	BL	

### QUALITY CONTROL SAMPLES

Duplicate Samples	
Original Sample No	Duplicate Sample No

Blank Samples	
Type	Sample No
Trip	
Rinsate	
Transfer	
Other	

# Groundwater Sampling Form

Project Name 624 891450 Well No. HW2  
 Project Number 95107562 Well Type  Monitor  Extraction  Other  
 Recorded By Can Sampled by Can Date 10-25-95

## WELL PURGING

### PURGE VOLUME

Well casing diameter  
 2-inch  4-inch  Other \_\_\_\_\_  
 Well Total Depth (TD, ft. below TOC) \_\_\_\_\_  
 Depth to Water (WL, ft. below TOC) 12.11  
 Depth to free phase hydrocarbons (FP, ft. below TOC) \_\_\_\_\_  
 Number of well volumes to be purged  
 3  10  Other \_\_\_\_\_

### PURGE METHOD

Bailor - Type \_\_\_\_\_  
 Pump - Type EXTRACTION  
 Other \_\_\_\_\_

### PUMP INTAKE

Near top Depth (ft) \_\_\_\_\_  
 Near Bottom Depth (ft) \_\_\_\_\_  
 Other \_\_\_\_\_

### PURGE VOLUME CALCULATION

$$\frac{\text{Water Column Length}}{\text{Multiplier}} \times \text{No. Vols} = \text{Gallons}$$

MULTIPLIER (Casing Dia. [inches] = Gallons/linear ft)  
 2 = 0.17 | 3 = 0.38 | 4 = 0.66 | 4.5 = 0.83 | 5 = 1.02 | 6 = 1.5 | 8 = 2.6

Pumping Rate \_\_\_\_\_ gpm  
 \_\_\_\_\_ gals  
**CALCULATED PURGE VOLUME**  
 \_\_\_\_\_ gals  
**ACTUAL PURGE VOLUME**

### GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON

Time/Gallons	pH	Cond. (uomhcs/cm)	Temp (deg C / deg F)	Turbidity (NTU)	Color/Odor
1355 /	6.4	490	109.2	23.2	
/					
/					
/					
/					
/					
/					

Comments during well purge \_\_\_\_\_

Well Pumped dry: YES  NO  Purge water storage/disposal  Drummed onsite  Other BIS

## WELL SAMPLING

SAMPLING METHOD: \_\_\_\_\_ Date/Time Sampled 10-25 11600  
 Bailor - Type  Sample port  Other

### GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type \_\_\_\_\_

Date/Time/% Recharge	pH	Cond. (uomhcs/cm)	Temp (deg C / deg F)	Turbidity (NTU)	Color/Odor
/ /					

### SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
<u>MW2</u>	<u>VOA</u>	<u>TPHG</u>	<u>HU</u>	<u>BL</u>	
		<u>PAH</u>			
		<u>MTBE</u>			

### QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinse	
Transfer	
Other:	



Project Name 624881450 Groundwater Sampling Form Well No. MW3  
 Project Number 951025-62 Well Type  Monitor  Extraction  Other  
 Recorded By GM Sampled by GM Date 10-25

**WELL PURGING**

**PURGE VOLUME**

Well casing diameter  
 2-inch  4-inch  Other  
 Well Total Depth (TD, ft. below TOC) 19.49  
 Depth to Water (WL, ft. below TOC) 9.03

Depth to free phase hydrocarbons (FP, ft. below TOC)

Number of well volumes to be purged  
 3  10  Other

**PURGE VOLUME CALCULATION**

$$\frac{10.46}{\text{Water Column Length}} \times \frac{.66}{\text{Multiplier}} \times \frac{6.9}{\text{No. Vols}} = 3$$

MULTIPLIER (Casing Dia. [inches] = Gallons/linear ft.)  
 2 = 0.17 | 3 = 0.38 | 4 = 0.66 | 4.5 = 0.83 | 5 = 1.02 | 6 = 1.5 | 8 = 2.6

**PURGE METHOD**

Bailor - Type  
 Pump - Type GRUNDFOS  
 Other

**PUMP INTAKE**

Near top Depth (ft) \_\_\_\_\_  
 Near Bottom Depth (ft) \_\_\_\_\_  
 Other

Pumping Rate 10 gpm  
20.7 gals  
**CALCULATED PURGE VOLUME**  
21.0 gals  
**ACTUAL PURGE VOLUME**

**GROUNDWATER PARAMETER MEASUREMENT** Meter Type

Time/Gallons	pH	Cond. (uomhcs/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
1650 1 7.0	6.4	490	68.6		39.4	
1652 1 14.0	6.5	500	68.2		52.3	
1654 1 21.0	6.5	470	68.4		48.7	
1						
1						
1						
1						

Comments during well purge  
 Well Pumped dry: YES  NO  Purge water storage/disposal  Drummed onsite  Other BTS

**WELL SAMPLING**

**SAMPLING METHOD** Date/Time Sampled 10-25 1700

Bailer - Type  SS Sample port  Other

**GROUNDWATER SAMPLE PARAMETER MEASUREMENTS** Meter Type

Date/Time/% Recharge	pH	Cond. (uomhcs/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
1 / 1						

**SAMPLING PROGRAM**

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
<u>MW3</u>	<u>UOA</u>	<u>TRAC</u> <u>BTEX</u> <u>MTBE</u>	<u>HCl</u>	<u>BL</u>	

**QUALITY CONTROL SAMPLES**

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Tnp	
Rinsate	
Transfer	
Other	

Project Name 624881450 Groundwater Sampling Form Well No. MW5  
 Project Number 951025-02 Well Type  Monitor  Extraction  Other  
 Recorded By GM Sampled by GM Date 10-25

**WELL PURGING**

**PURGE VOLUME**

Well casing diameter  
 2-inch  4-inch  Other \_\_\_\_\_  
 Well Total Depth (TD, ft. below TOC) \_\_\_\_\_  
 Depth to Water (WL, ft. below TOC) 11.05  
 Depth to free phase hydrocarbons (FP, ft. below TOC) \_\_\_\_\_  
 Number of well volumes to be purged  
 3  10  Other \_\_\_\_\_

**PURGE METHOD**

Bailor - Type \_\_\_\_\_  
 Pump - Type \_\_\_\_\_  
 Other EXTRACTION

**PUMP INTAKE**

Near top Depth (ft) \_\_\_\_\_  
 Near Bottom Depth (ft) \_\_\_\_\_  
 Other \_\_\_\_\_

Pumping Rate \_\_\_\_\_ gpm  
 \_\_\_\_\_ gals  
**CALCULATED PURGE VOLUME**  
 \_\_\_\_\_ gals  
**ACTUAL PURGE VOLUME**

**PURGE VOLUME CALCULATION**

Water Column Length x Multiplier x No. Vols = \_\_\_\_\_  
 MULTIPLIER (Casing Dia. [inches] = Gallons/linear ft.)  
 2 = 0.17 | 3 = 0.38 | 4 = 0.65 | 4.5 = 0.83 | 5 = 1.02 | 6 = 1.5 | 8 = 2.6

**GROUNDWATER PARAMETER MEASUREMENT** Meter Type \_\_\_\_\_

Time/Gallons	pH	Cond. (uomhos/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
1616 /	6.5	500	68.9		11.1	
/						
/						
/						
/						
/						
/						
/						

Comments during well purge \_\_\_\_\_  
 Well Pumped dry: YES  NO  Purge water storage/disposal  Drummed onsite  Other \_\_\_\_\_

**WELL SAMPLING**

**SAMPLING METHOD** Date/Time Sampled 10-25, 1615  
 Bailor - Type  Sample port  Other

**GROUNDWATER SAMPLE PARAMETER MEASUREMENTS** Meter Type \_\_\_\_\_

Date/Time/% Recharge	pH	Cond. (uomhos/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
/ /						

**SAMPLING PROGRAM**

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
MW5	UOA	TPAG BTEX MIBK	HU	BL	

**QUALITY CONTROL SAMPLES**

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trp	
Rinsate	
Transfer	
Other	

# Groundwater Sampling Form

Project Name 624881450 Well No. MW 7  
 Project Number 951025-62 Well Type  Monitor  Extraction  Other  
 Recorded By GRANT Sampled by GRANT Date 10-25

## WELL PURGING

**PURGE VOLUME**  
 Well casing diameter  
 2-inch  4-inch  Other \_\_\_\_\_  
 Well Total Depth (TD, ft. below TOC) \_\_\_\_\_  
 Depth to Water (WL, ft. below TOC) \_\_\_\_\_  
 Depth to free phase hydrocarbons (FP, ft. below TOC) \_\_\_\_\_  
 Number of well volumes to be purged  
 3  10  Other \_\_\_\_\_

**PURGE METHOD**  
 Bailor - Type \_\_\_\_\_  
 Pump - Type \_\_\_\_\_  
 Other \_\_\_\_\_

**PUMP INTAKE**  
 Near top Depth (ft) \_\_\_\_\_  
 Near Bottom Depth (ft) \_\_\_\_\_  
 Other \_\_\_\_\_  
 Pumping Rate \_\_\_\_\_ gpm

**PURGE VOLUME CALCULATION**  
 \_\_\_\_\_ X \_\_\_\_\_ X \_\_\_\_\_ = \_\_\_\_\_ gals  
 Water Column Length Multiplier No. Vols  
 MULTIPLIER (Casing Dia. [inches] = Gallons/linear ft.)  
 2 = 0.17 | 3 = 0.38 | 4 = 0.66 | 4.5 = 0.83 | 5 = 1.02 | 6 = 1.5 | 8 = 2.6

CALCULATED PURGE VOLUME \_\_\_\_\_ gals  
 ACTUAL PURGE VOLUME \_\_\_\_\_ gals

**GROUNDWATER PARAMETER MEASUREMENT** Meter Type \_\_\_\_\_

Time/Gallons	pH	Cond. (uomhcs/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
/						
/						
/	CAP ON WELL					
/						
/						
/						
/						

Comments during well purge \_\_\_\_\_  
 Well Pumped dry: YES NO Purge water storage/disposal  Drummed onsite  Other \_\_\_\_\_

## WELL SAMPLING

**SAMPLING METHOD** Date/Time Sampled \_\_\_\_\_ / \_\_\_\_\_  
 Bailor - Type  Sample port  Other

**GROUNDWATER SAMPLE PARAMETER MEASUREMENTS** Meter Type \_\_\_\_\_

Date/Time/% Recharge	pH	Cond. (uomhcs/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
/ /						

**SAMPLING PROGRAM**

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments

**QUALITY CONTROL SAMPLES**

Duplicate Samples		Blank Samples	
Original Sample No	Duplicate Sample No	Type	Sample No
		Trip	
		Rinsate	
		Transfer	
		Other	

# Groundwater Sampling Form

Project Name 624481450  
 Project Number 951025-62  
 Recorded By Gm

Well No. MW8  
 Well Type  Monitor  Extraction  Other  
 Sampled by Gm Date 10-25

## WELL PURGING

### PURGE VOLUME

Well casing diameter  
 2-inch  4-inch  Other

Well Total Depth (TD, ft. below TOC) 14.64

Depth to Water (WL, ft. below TOC) 8.16

Depth to free phase hydrocarbons (FP, ft. below TOC) \_\_\_\_\_

Number of well volumes to be purged  
 3  10  Other \_\_\_\_\_

### PURGE VOLUME CALCULATION

$$\frac{11.49}{\text{Water Column Length}} \times \frac{1.66}{\text{Multiplier}} \times 3 = \text{No. Vols}$$

MULTIPLIER (Casing Dia. [inches] = Gallons/linear ft.)  
 2 = 0.17 | 3 = 0.38 | 4 = 0.66 | 4.5 = 0.83 | 5 = 1.02 | 6 = 1.5 | 8 = 2.6

### PURGE METHOD

Bailor - Type \_\_\_\_\_  
 Pump - Type GRUNDFOS  
 Other \_\_\_\_\_

### PUMP INTAKE

Near top Depth (ft) \_\_\_\_\_  
 Near Bottom Depth (ft) \_\_\_\_\_  
 Other \_\_\_\_\_

Pumping Rate 10 gpm

22.7 cals  
 CALCULATED PURGE VOLUME

23.0 cals  
 ACTUAL PURGE VOLUME

### GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON

Time/Gallons	pH	Cond. (uomhos/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
1508 / 4	8.0	7.2	450	69.0	89.6	
1510 / 16.0	7.1	460	68.9	113.7		
1512 / 23.0	7.0	440	68.10	121.5		
/						
/						
/						
/						
/						

Comments during well purge \_\_\_\_\_

Well Pumped dry: YES  NO

Purge water storage/disposal  Drummed onsite  Other BIB

## WELL SAMPLING

SAMPLING METHOD \_\_\_\_\_ Date/Time Sampled 10-25 / 1515

Bailor - Type  SS Sample port  Other

### GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type \_\_\_\_\_

Date/Time/% Recharge	pH	Cond. (uomhos/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
/ / /						

### SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
<u>MW8</u>	<u>VDA</u>	<u>TPH, PPE, MPAH</u>	<u>HCl</u>	<u>BC</u>	

### QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No	Duplicate Sample No

Blank Samples

Type	Sample No.
Trip	
Rinse	
Transfer	
Other:	

Project Name 02488 Groundwater Sampling Form Well No. Mw9  
 Project Number 951025-62 Well Type  Monitor  Extraction  Other  
 Recorded By ca Sampled by ca Date 10-25

**WELL PURGING**

**PURGE VOLUME**

Well casing diameter  
 2-inch  4-inch  Other  
 Well Total Depth (TD, ft. below TOC) 14.40

Depth to Water (WL, ft. below TOC) 6.71

Depth to free phase hydrocarbons (FP, ft. below TOC)

Number of well volumes to be purged  
 3  10  Other

**PURGE VOLUME CALCULATION**

$$\frac{7.69}{\text{Water Column Length}} \times \frac{1.66}{\text{Multiplier}} \times \frac{3}{\text{No. Vols}} =$$

MULTIPLIER (Casing Dia. [inches] = Gallons/linear ft.)  
 2 = 0.17 | 3 = 0.58 | 4 = 0.66 | 4.5 = 0.83 | 5 = 1.02 | 6 = 1.5 | 8 = 2.6

**PURGE METHOD**

Bailor - Type  
 Pump - Type GRUNDFOS  
 Other

**PUMP INTAKE**

Near top Depth (ft) \_\_\_\_\_  
 Near Bottom Depth (ft) \_\_\_\_\_  
 Other

Pumping Rate 10 gpm

15.2 gals  
**CALCULATED PURGE VOLUME**

16.0 gals  
**ACTUAL PURGE VOLUME**

**GROUNDWATER PARAMETER MEASUREMENT** Meter Type MYRON

Time/Gallons	pH	Cond. (uomhos/cm)	Temp deg C / deg F	Turbidity (NTU)	Color/Odor
1453 / 1.60	6.9	760	70.0	7200	
1454 / 1.12.0	6.8	620	70.4	7200	
1455 / 1.16.0	6.7	600	70.6	7200	
/					
/					
/					
/					
/					

Comments during well purge

Well Pumped dry: YES  NO  Purge water storage/disposal  Drummed onsite  Other BTS

**WELL SAMPLING**

**SAMPLING METHOD** Date/Time Sampled 10-25 / 1500

Bailor - Type  SS Sample port  Other

**GROUNDWATER SAMPLE PARAMETER MEASUREMENTS** Meter Type

Date/Time/% Recharge	pH	Cond. (uomhos/cm)	Temp deg C / deg F	Turbidity (NTU)	Color/Odor
/ /					

**SAMPLING PROGRAM**

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
MW9	VOA	TPH BTEX MTBE	HCl	BL	

**QUALITY CONTROL SAMPLES**

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	EBC/MSD
Transfer	
Other:	

# Groundwater Sampling Form

Project Name 624 881450 Well No. MW10  
 Project Number 951025-G1 Well Type  Monitor  Extraction  Other  
 Recorded By GM Sampled by GM Date 10-25

## WELL PURGING

### PURGE VOLUME

Well casing diameter  
 2-inch  4-inch  Other

Well Total Depth (TD, ft. below TOC) 14.19

Depth to Water (WL, ft. below TOC) 7.91

Depth to free phase hydrocarbons (FP, ft. below TOC) \_\_\_\_\_

Number of well volumes to be purged  
 3  10  Other \_\_\_\_\_

### PURGE VOLUME CALCULATION

$$\frac{6.28}{\text{Water Column Length}} \times \frac{.66}{\text{Multiplier}} \times \frac{3}{\text{No. Vols}} =$$

MULTIPLIER (Casing Dia. [inches] = Gallons/linear ft)  
 2 = 0.17 | 3 = 0.38 | 4 = 0.66 | 4.5 = 0.83 | 5 = 1.02 | 6 = 1.5 | 8 = 2.6

### PURGE METHOD

Bailor - Type \_\_\_\_\_  
 Pump - Type ELEC. SUB  
 Other \_\_\_\_\_

### PUMP INTAKE

Near top Depth (ft) \_\_\_\_\_  
 Near Bottom Depth (ft) \_\_\_\_\_  
 Other \_\_\_\_\_

Pumping Rate 10 gpm  
12.4 gals  
**CALCULATED PURGE VOLUME**  
13.0 gals  
**ACTUAL PURGE VOLUME**

### GROUNDWATER PARAMETER MEASUREMENT

Time/Gallons	pH	Cond. (uomhcs/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
1437 / 5.0	7.1	730	67.2		7200	
1438 / 10.0	7.0	710	66.8		7200	
1439 / 17.0	7.0	700	66.8		7200	
/						
/						
/						
/						
/						

Comments during well purge \_\_\_\_\_  
 Well Pumped dry: YES  NO  Purge water storage/disposal  Drummed onsite  Other \_\_\_\_\_

## WELL SAMPLING

SAMPLING METHOD: \_\_\_\_\_ Date/Time Sampled 10-25 11440  
 Bailor - Type  SS Sample port  Other

### GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Date/Time/% Recharge	pH	Cond. (uomhcs/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
/ / /						

### SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
MW10	VDA	TPHG BTEX MTBE	HU	BL	

### QUALITY CONTROL SAMPLES

Duplicate Samples	
Original Sample No.	Duplicate Sample No.

Blank Samples	
Type	Sample No.
Trip	
Rinsate	
Transfer	
Other	

# Groundwater Sampling Form

Project Name 624981450 Well No. MW 11  
 Project Number 951025-GZ Well Type  Monitor  Extraction  Other  
 Recorded By [Signature] Sampled by [Signature] Date 10-25

## WELL PURGING

**PURGE VOLUME**

Well casing diameter  
 2-inch  4-inch  Other \_\_\_\_\_

Well Total Depth (TD, ft. below TOC) \_\_\_\_\_

Depth to Water (WL, ft. below TOC) \_\_\_\_\_

Depth to free phase hydrocarbons (FP, ft. below TOC) \_\_\_\_\_

Number of well volumes to be purged  
 3  10  Other \_\_\_\_\_

**PURGE VOLUME CALCULATION:**

\_\_\_\_\_ X \_\_\_\_\_ X \_\_\_\_\_ = \_\_\_\_\_  
 Water Column Length Multiplier No. Vols

**MULTIPLIER (Casing Dia. [inches] = Gallons/linear ft.)**  
 2 = 0.17 | 3 = 0.38 | 4 = 0.66 | 4.5 = 0.63 | 5 = 1.02 | 6 = 1.5 | 8 = 2.6

**PURGE METHOD:**  
 Bailor - Type \_\_\_\_\_  
 Pump - Type \_\_\_\_\_  
 Other \_\_\_\_\_

**PUMP INTAKE:**  
 Near top Depth (ft) \_\_\_\_\_  
 Near Bottom Depth (ft) \_\_\_\_\_  
 Other \_\_\_\_\_

Pumping Rate \_\_\_\_\_ gpm

CALCULATED PURGE VOLUME \_\_\_\_\_ gals  
 ACTUAL PURGE VOLUME \_\_\_\_\_ gals

**GROUNDWATER PARAMETER MEASUREMENT** Meter Type \_\_\_\_\_

Time/Gallons	pH	Cond. (uomhcs/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
/						
/						
/	CAP ON WELL					
/						
/						
/						
/						

Comments during well purge \_\_\_\_\_

Well Pumped dry: YES NO \_\_\_\_\_ Purge water storage/disposal  Drummed onsite  Other \_\_\_\_\_

## WELL SAMPLING

**SAMPLING METHOD** Date/Time Sampled \_\_\_\_\_

Bailor - Type  \_\_\_\_\_ Sample port  \_\_\_\_\_ Other  \_\_\_\_\_

**GROUNDWATER SAMPLE PARAMETER MEASUREMENTS** Meter Type \_\_\_\_\_

Date/Time/% Recharge	pH	Cond. (uomhcs/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
/						

**SAMPLING PROGRAM**

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments

**QUALITY CONTROL SAMPLES**

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinse	
Transfer	
Other:	

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  
 City, State, ZIP: ALAMEDA

Well I.D.	Gals.	Well I.D.	Gals.
/	/	/	/
/	/	/	/
/	/	/	/
MW 1	/	/	/
	/	/	/
	/	/	/
	/	/	/
	/	/	/
	/	/	/
↓	/	/	/
MW 10	103	/	/
/	/	/	/
Total gals. <u>103</u>		added rinse water <u>20</u>	
Total Gals. Recovered <u>123</u>			
<hr/>			
Job #:	<u>951025-G2</u>		
Date:	<u>10-25-95</u>		
Time:	<u>1730</u>		
Signature:	<u>[Signature]</u>		
<hr/>			
REC'D AT:	<u>BT3</u>		
Date:	<u>10-25</u>		
Time:	<u>1830</u>		
Signature:	<u>[Signature]</u>		