



Texaco Refining
and Marketing Inc

108 Cutting Boulevard
Richmond CA 94804

April 22, 1996

ENV - STUDIES, SURVEYS & REPORTS

Former Texaco/Current Exxon Service Station
2225 Telegraph Ave., Oakland, California
Quarterly Monitoring Report

Mr. Thomas Peacock
Alameda County Hazardous Materials
1131 Harbor Bay Pky
Alameda, CA 94502-6577

Dear Mr. Peacock:

This letter presents the results of groundwater monitoring and sampling conducted by Blaine Tech Services, Inc. on February 24, 1996, at the site referenced above (see Plate 1, Site Vicinity Map). Based on groundwater level measurements, the areal hydraulic gradient was estimated to be southeast (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 groundwater treatment system on site ran continuously throughout the reporting period.

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

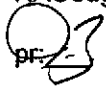
96 APR 25 PM 2:01
ENVIRONMENTAL
PROTECTION

cc: Mr. Richard Hiatt
CRWQCB - San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

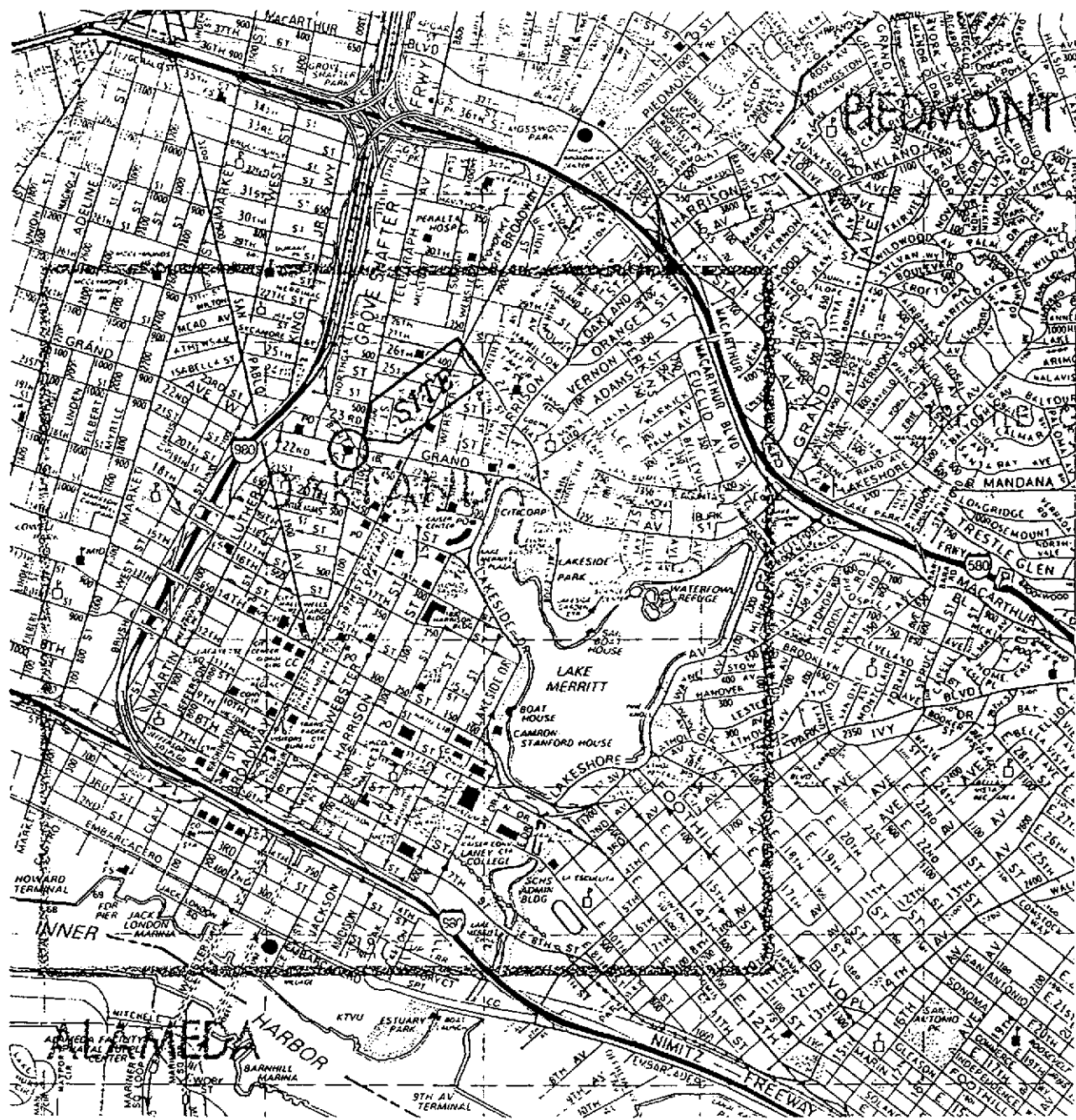
Mr. Michael Faber
Exxon Company, USA
2300 Clayton Road, Suite 1250
Concord, CA 94524-2032

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

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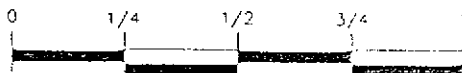
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**Groundwater Monitoring and Sampling
First Quarter, 1996
at the
Former Texaco Service Station
2225 Telegraph Avenue
Oakland, CA**



SOURCE:

1993 THE THOMAS GUIDE
ALAMEDA COUNTY, PAGE 9 (B3)



MILE

1" = 2200'



TEXACO

REFINING AND MARKETING, INC.
TEXACO ENVIRONMENTAL SERVICES

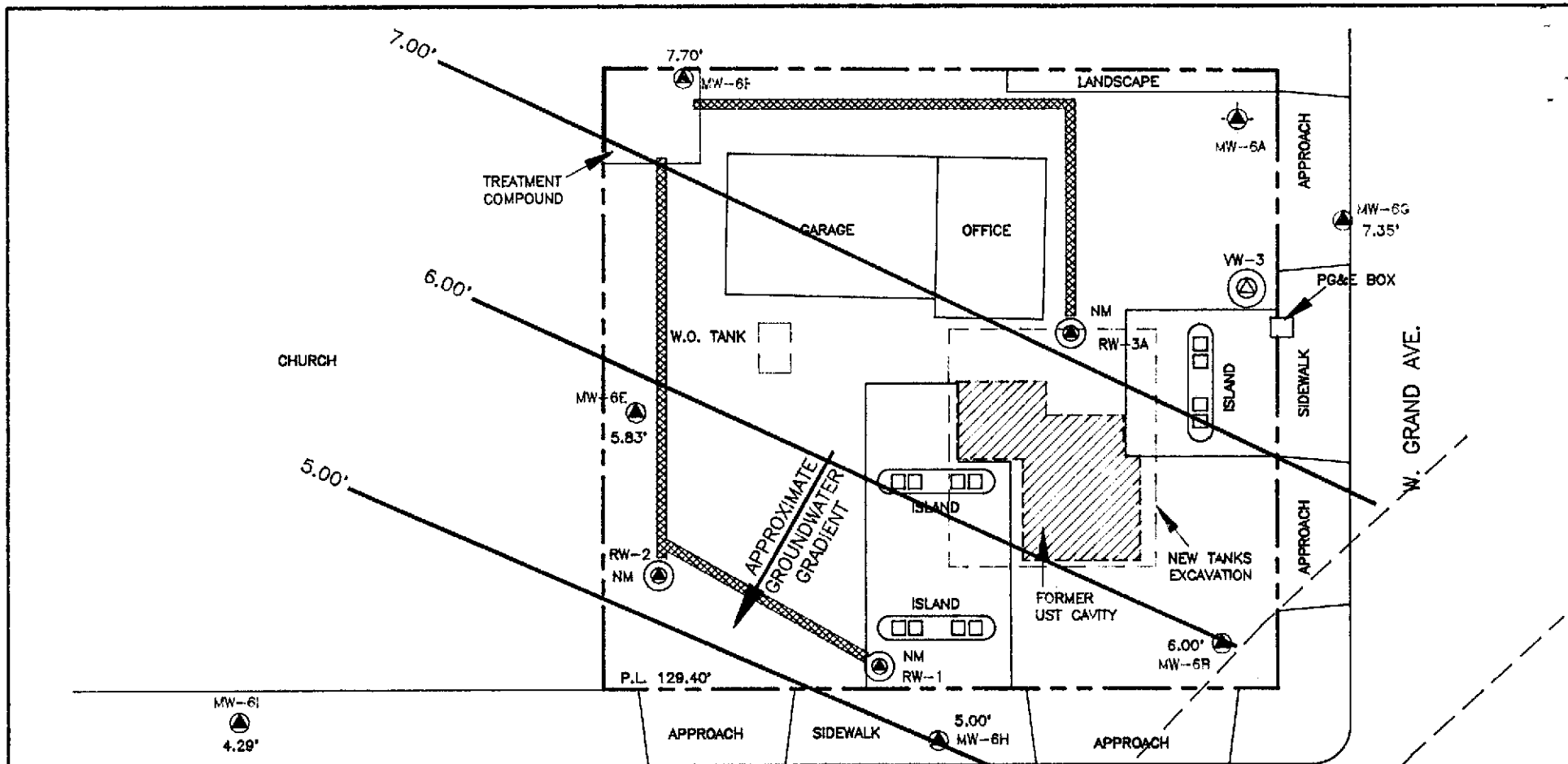
PLATE 1

SITE VICINITY MAP








FORMER TEXACO SERVICE STATION

2225 TELEGRAPH AVE. / GRAND AVE.

OAKLAND, CALIFORNIA

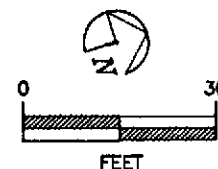


LEGEND :


-  VAPOR EXTRACTION WELL LOCATION AND WELL NUMBER
VW-3
-  PROPERLY ABANDONED WELL LOCATION AND WELL NUMBER
MW-6A
-  GROUNDWATER MONITORING WELL LOCATION AND WELL NUMBER
MW-1
-  GROUNDWATER RECOVERY/VAPOR EXTRACTION WELL LOCATION AND WELL NUMBER
RW-1
-  TEXACO REMEDIATION SYSTEM TRENCH WITH 2" PVC VAPOR EXTRACTION LINE
-  GROUNDWATER CONTOUR LINE
4.29' GROUNDWATER ELEVATION (ABOVE MSL)
-  WELL NOT MONITORED
NM

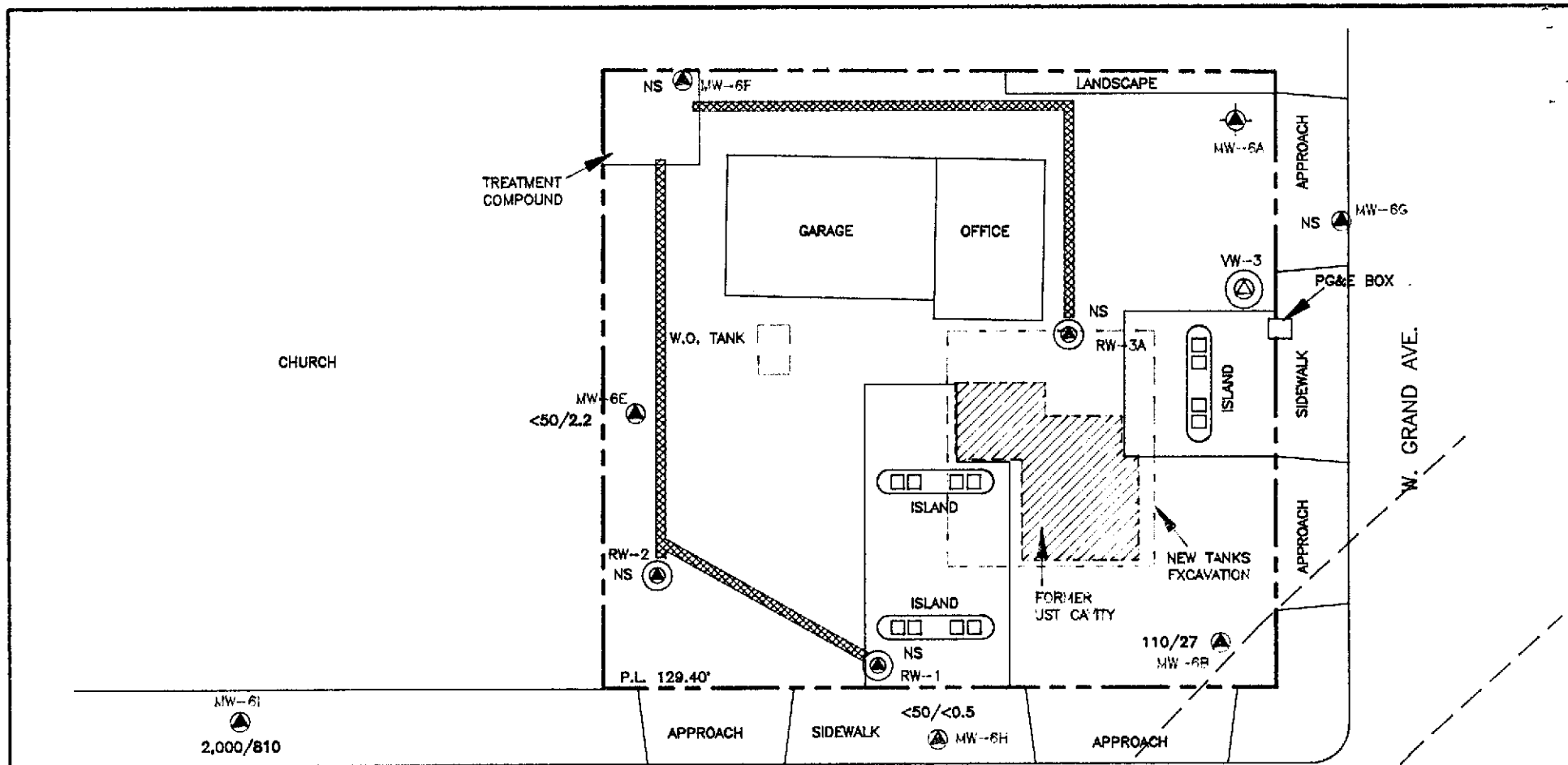
TELEGRAPH AVE.

APPROXIMATE LOCATION OF BART TUNNEL








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


	
TEXACO REFINING AND MARKETING INC. ENVIRONMENT, HEALTH AND SAFETY	
PLATE 2 : GROUNDWATER GRADIENT MAP (02/24/1996) FORMER TEXACO SERVICE STATION 2225 TELEGRAPH AVE. / GRAND AVE., OAKLAND, CALIFORNIA	
SCALE 1"=30'-0"	LOCATION # 62-488-0195
DRAWN BY AMA	DATE 04/09/1996
CHECKED BY RD	DATE 4/22/96
DRAWING NO. (OAKLAND) TE-GR-OK.DWG	




LEGEND :

- 
 VAPOR EXTRACTION WELL LOCATION AND WELL NUMBER
 VW-3
- 
 PROPERLY ABANDONED WELL LOCATION AND WELL NUMBER
 MW-6A
- 
 GROUNDWATER MONITORING WELL LOCATION AND WELL NUMBER
 MW-1
- 
 GROUNDWATER RECOVERY/VAPOR EXTRACTION WELL LOCATION AND WELL NUMBER
 RW-1
- 
 TEXACO REMEDIATION SYSTEM TRENCH WITH 2" PVC VAPOR EXTRACTION LINE
- <50/<0.5 TPH_g/BENZENE CONCENTRATION IN GROUNDWATER (ppb)
- NS WELL NOT SAMPLED

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





 FEET

TEXACO	
REFINING AND MARKETING INC. ENVIRONMENT, HEALTH AND SAFETY	
PLATE 3 : TPH _g /BENZENE CONCENTRATION IN GROUNDWATER (2/24/1996)	
FORMER TEXACO SERVICE STATION 2225 TELEGRAPH AVE. / GRAND AVE., OAKLAND, CALIFORNIA	
SCALE	1"=30'-0"
LOCATION #	62-488-0195
DRAWN BY	AMA
DATE	04/09/1996
CHECKED BY	RD
DATE	4/22/96
DRAWING NO.	(OAKLAND) TE-GR-OK.DWG

Table 1
Groundwater Elevation Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
MW-6A	12/30/91				Well Destroyed
MW-6B	12/15/88	98.81	*		
	2/25/92			11.81	87.00
	3/25/92			11.58	87.23
	6/16/92	15.34	**	12.54	2.80
	9/8/92			12.87	2.47
	11/5/92			12.70	2.64
	12/14/92			12.19	3.15
	1/28/93			11.39	3.95
	2/11/93			11.70	3.64
	3/9/93			11.70	3.64
	4/14/93			11.87	3.47
	5/11/93			12.22	3.12
	6/17/93			12.46	2.88
	7/26/93			12.72	2.58
	8/10/93			12.82	2.52
	9/21/93			13.08	2.26
	10/27/93			13.18	2.16
	11/23/93			13.07	2.27
	12/17/93			NA	NA
	2/16/94			12.07	3.27
	5/31/94			12.42	2.92
	8/30/94	17.48	***	13.02	4.46
	11/11/94			11.72	5.76
	2/27/95			11.84	5.64
	5/30/95			12.09	5.39
	8/30/95			12.76	4.72
	10/25/95			13.03	4.45
	2/24/96			11.48	6.00

Table 1
Groundwater Elevation Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
MW-6E	12/15/88	98.99	*		
	2/25/92			13.16	85.83
	3/25/92			12.15	86.84
	6/16/92	15.23	**	13.54	1.69
	9/8/92			14.78	0.45
	11/5/92				Not Monitored
	12/14/92				Not Monitored
	1/28/93			11.62	3.61
	2/11/93			12.85	2.38
	3/9/93			12.83	2.40
	4/14/93				Not Monitored
	5/11/93			13.59	1.64
	6/17/93			13.74	1.49
	7/26/93			14.01	1.22
	8/10/93			14.13	1.10
	9/21/93			14.20	1.03
	10/27/93			14.34	0.89
	11/23/93			13.97	1.26
	12/17/93			13.08	2.15
	2/16/94			13.34	1.89
	5/31/94			13.82	1.41
	8/30/94	17.63	***	14.32	3.31
	11/11/94			13.92	3.71
	2/27/95			12.96	4.67
	5/30/95			13.20	4.43
	8/30/95			13.85	3.78
	10/25/95			13.96	3.67
	2/24/96			11.80	5.83

Table 1
Groundwater Elevation Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
MW-6F	12/15/88	99.91	*		
	2/25/92			12.68	87.23
	3/25/92			11.93	87.98
	6/16/92	16.46	**	14.34	2.12
	9/8/92			14.75	1.71
	11/5/92			14.35	2.11
	12/14/92			12.90	3.56
	1/28/93			11.60	4.86
	2/11/93			12.25	4.21
	3/9/93			12.50	3.96
	4/14/93			12.71	3.75
	5/11/93			13.63	2.83
	6/17/93			14.02	2.44
	7/26/93				Not Monitored
	8/10/93				Not Monitored
	9/21/93			14.80	1.66
	10/27/93			14.85	1.61
	11/23/93			Not Monitored - Inaccessible	
	12/17/93			13.86	2.60
	2/16/94			13.08	3.38
	5/31/94			14.06	2.40
	8/30/94	18.58	***	14.84	3.74
	11/11/94			12.60	5.98
	2/27/95			12.75	5.83
	5/30/95			13.16	5.42
	8/30/95			14.31	4.27
	10/25/95			14.40	4.18
	2/24/96			10.88	7.70

Table 1
Groundwater Elevation Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
MW-6G	12/15/88	99.16	*		
	2/25/92			10.32	88.84
	3/25/92			9.93	89.23
	6/16/92	14.71	**	11.88	2.83
	9/8/92			12.20	2.51
	11/5/92			12.02	2.69
	12/14/92			10.95	3.76
	1/28/93			9.56	5.15
	2/11/93			10.04	4.67
	3/9/93			10.10	4.61
	4/14/93			10.43	4.28
	5/11/93			11.05	3.66
	6/17/93			11.49	3.22
	7/26/93			11.98	2.73
	8/10/93			12.17	2.54
	9/21/93			12.42	2.29
	10/27/93			13.47	1.24
	11/23/93			12.48	2.23
	12/17/93			11.19	3.52
	2/16/94			10.62	4.09
	5/31/94			11.40	3.31
	8/30/94	16.82	***	12.32	4.50
	11/11/94			11.06	5.76
	2/27/95			10.32	6.50
	5/30/95			10.77	6.05
	8/30/95			11.92	4.90
	10/25/95			12.11	4.71
	2/24/96			9.47	7.35

Table 1
Groundwater Elevation Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
MW-6H	12/15/88	97.93	*		
	2/25/92			12.17	85.76
	3/25/92			11.65	86.28
	6/16/92	14.47	**	12.12	2.35
	9/8/92			12.30	2.17
	11/5/92			12.05	2.42
	12/14/92			11.65	2.82
	1/28/93			11.57	2.90
	2/11/93			12.22	2.25
	3/9/93			12.02	2.45
	4/14/93			12.02	2.45
	5/11/93			12.35	2.12
	6/17/93			12.22	2.25
	7/26/93			12.32	2.15
	8/10/93			12.30	2.17
	9/21/93			12.79	1.68
	10/27/93			13.93	0.54
	11/23/93			12.46	2.01
	12/17/93			12.08	2.39
	5/31/94			12.46	2.01
	8/30/94	16.58	***	12.72	3.86
	11/11/94			11.98	4.60
	2/27/95			11.89	4.69
	5/30/95			12.05	4.53
	8/30/95			12.34	4.24
	10/25/95			12.52	4.06
	2/24/96			11.58	5.00

Table 1
Groundwater Elevation Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
MW-6I	12/15/88	97.60	*		
	2/25/92			12.45	85.15
	3/25/92			12.12	85.48
	6/16/92	14.14	**	12.75	1.39
	9/8/92			12.84	1.30
	11/5/92			12.75	1.39
	12/14/92			12.40	1.74
	1/28/93			12.20	1.94
	2/11/93			12.40	1.74
	3/9/93			12.45	1.69
	4/14/93			12.43	1.71
	5/11/93			12.73	1.41
	6/17/93			12.78	1.36
	7/26/93			12.92	1.22
	8/10/93			12.97	1.17
	9/21/93			13.02	1.12
	10/27/93			13.10	1.04
	11/23/93			13.02	1.12
	12/17/93			12.65	1.49
	2/16/94			12.66	1.48
	5/31/94			12.90	1.24
	8/30/94	16.26	***	13.06	3.20
	11/11/94			15.20	1.06
	2/27/95			12.51	3.75
	5/30/95			12.57	3.69
	8/30/95			12.86	3.40
	10/25/95			12.92	3.34
	2/24/96			11.97	4.29

Table 1
Groundwater Elevation Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
RW-1	10/16/90	97.89	*		
	2/25/92			14.40	83.49
	3/25/92			NA	NA
	6/16/92	14.42	**	12.37	2.05
	9/8/92				Not Monitored
	11/5/92				Not Monitored
	12/14/92				Not Monitored
	1/18/93				Not Monitored
	2/11/93				Not Monitored
	3/9/93				Not Monitored
	4/14/93				Not Monitored
	5/11/93				Not Monitored
	6/17/93				Not Monitored
	7/26/93				Not Monitored
	8/10/93				Not Monitored
	9/21/93				Not Monitored
	10/27/93				Not Monitored
	11/23/93				Not Monitored
	12/17/93				Not Monitored
	2/16/94				Not Monitored
	5/31/94				Not Monitored
	8/30/94	16.79	***		Not Monitored
	11/11/94				Not Monitored
	2/27/95				Not Monitored
	5/30/95				Not Monitored
	8/30/95				Not Monitored
	10/25/95				Not Monitored
2/24/96				Not Monitored	

Table 1
Groundwater Elevation Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
RW-2 (formerly MW-6D)	10/16/90	98.11	*		
	2/25/92			16.27	81.84
	3/25/92				Not Monitored
	6/16/92	14.61	**	12.86	1.75
	9/8/92				Not Monitored
	11/5/92				Not Monitored
	12/14/92				Not Monitored
	1/28/93				Not Monitored
	2/11/93				Not Monitored
	3/9/93				Not Monitored
	4/14/93				Not Monitored
	5/11/93				Not Monitored
	6/17/93				Not Monitored
	8/10/93				Not Monitored
	9/21/93				Not Monitored
	10/27/93				Not Monitored
	11/23/93				Not Monitored
	12/17/93				Not Monitored
	2/16/94				Not Monitored
	5/31/94				Not Monitored
8/30/94		17.02	***		Not Monitored
11/11/94					Not Monitored
2/27/95					Not Monitored
5/30/95					Not Monitored
8/30/95					Not Monitored
10/25/95					Not Monitored
2/24/96					Not Monitored
RW-3 (formerly MW-6C)	8/30/94	18.04	***		Not Monitored
	11/11/94				Not Monitored
	2/27/95				Not Monitored
	5/30/95				Not Monitored
	8/30/95				Not Monitored
	10/25/95				Not Monitored
	2/24/96				Not Monitored
* = Based on assigned benchmark with elevation arbitrarily set at 100 feet.					
** = Elevation relative to mean sea level (MSL).					
*** = Wells resurveyed 8/4/94, Benchmark is City of Oakland #37J;					
Elevation 17.68 @ intersection of Telegraph & 23rd St. jobsite.					
NA = Not Available					

Table 2
Groundwater Analytical Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Sampled	TPH as gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-6F	3/25/92	ND	ND	<0.5	<0.5	<0.5
	6/16/92	ND	ND	<0.5	<0.5	<0.5
	9/8/92	<50	<0.5	<0.5	<0.5	<0.5
	11/5/92	<50	<0.5	<0.5	<0.5	<0.5
	2/11/93	<50	<0.5	<0.5	<0.5	<0.5
	5/11/93	<50	<0.5	<0.5	<0.5	<0.5
	8/10/93	Not Sampled				
	10/27/93	<50	<0.5	<0.5	<0.5	<0.5
	2/16/94	<50	<0.5	<0.5	<0.5	<0.5
	5/31/94	<50	<0.5	<0.5	<0.5	<0.5
	8/30/94	<50	<0.5	<0.5	<0.5	<0.5
	11/11/94	<50	<0.5	0.54	<0.5	<0.5
	2/27/95	<50	6.2	3.0	0.82	3.5
	5/30/95	<50	<0.5	<0.5	<0.5	<0.5
	8/30/95	<50	<0.5	<0.5	<0.5	<0.5
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5
	2/24/96	Not Sampled				
MW-6G	3/25/92	ND	ND	<0.5	<0.5	<0.5
	6/16/92	ND	ND	<0.5	<0.5	<0.5
	9/8/92	<50	<0.5	<0.5	<0.5	<0.5
	11/5/92	<50	<0.5	<0.5	<0.5	<0.5
	2/11/93	<50	<0.5	<0.5	<0.5	<0.5
	5/11/93	<50	<0.5	<0.5	<0.5	<0.5
	8/10/93	<50	<0.5	<0.5	<0.5	<0.5
	10/27/93	<50	<0.5	<0.5	<0.5	<0.5
	2/16/94	<50	<0.5	<0.5	<0.5	<0.5
	5/31/94	<50	<0.5	<0.5	<0.5	<0.5
	8/30/94	<50	<0.5	<0.5	<0.5	<0.5
	11/11/94	58	0.58	1.6	<0.5	1.6
	2/27/95	<50	0.86	0.99	<0.5	0.51
	5/30/95	<50	<0.5	<0.5	<0.5	<0.5
	8/30/95	<50	<0.5	<0.5	<0.5	<0.5
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5
	2/24/96	Not Sampled				

Table 2
Groundwater Analytical Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Sampled	TPH as gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-6A		Well Destroyed				
MW-6B	3/25/92	190	31	8.6	84	8.6
	6/16/92	1,700	44	1.7	7.2	230
	9/8/92	2,900	35	8.3	110	330
	11/5/92	1,400	29	<0.5	75	190
	2/11/93	210	1.2	<0.5	2.8	4.3
	5/11/93	570	54	2.4	37	36
	8/10/93	1,300	48	2.4	28	44
	10/27/93	1,300	23	1.7	25	250
	2/16/94	300	16	<0.5	3.5	2.4
	5/31/94	690	21	3.9	11	36
	8/30/94	260	4	0.62	0.82	4
	11/11/94	300	60	2	1.2	2.4
	2/27/95	180	28	2.6	0.65	1.6
	5/30/95	200	23	3.6	0.88	2.3
	8/30/95	120	3.8	3.6	0.61	0.69
	10/25/95	91	1.7	<0.5	<0.5	0.84
	2/24/96	110	27	0.86	0.98	1.8
MW-6E	3/25/92	830	41	1	3.8	16
	6/16/92	3,400	300	23	68	510
	9/8/92	480	27	<0.5	3.6	21
	11/5/92	Not Sampled				
	2/11/93	270	15	<0.5	<0.5	8.7
	5/11/93	<50	2.3	<0.5	1.4	3.2
	8/10/93	1,700	130	2.7	23	140
	10/27/93	100	6	<0.5	<0.5	<0.5
	2/16/94	640	45	<0.5	12	15
	5/31/94	52	1.5	0.97	<0.5	<0.5
	8/30/94	920	22	0.98	5.2	33
	11/11/94	910	13	2.4	13	2.5
	2/27/95	<50	1.9	1.3	<0.5	0.83
	5/30/95	<50	<0.5	<0.5	<0.5	<0.5
	8/30/95	1,500	91	2.3	56	59
	10/25/95	290	7.7	<0.5	5.7	1.7
	2/24/96	<50	2.2	0.77	<0.5	0.83

Table 2
Groundwater Analytical Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Sampled	TPH as gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-6H	3/25/92	920	170	52	25	54
	6/16/92	460	31	11	6.8	16
	9/8/92	780	69	23	17	18
	11/5/92	3,400	500	260	85	160
	2/11/93	2,500	410	170	28	130
	5/11/93	4,200	490	270	80	210
	8/10/93	650	83	22	14	29
	10/27/93	1,600	130	90	29	130
	2/16/94	<50	<0.5	<0.5	<0.5	2.9
	5/31/94	1,800	370	220	65	210
	8/30/94	1,900	130	90	19	86
	11/11/94	13,000	1,700	1,400	260	1,800
	2/27/95	320	450	120	28	79
	5/30/95	2,300	960	260	64	200
	8/30/95	2,100	590	35	24	74
	10/25/95	1,400	93	23	11	80
2/24/96	<50	<0.5	<0.5	<0.5	<0.5	
MW-6I	3/25/92	ND	ND	<0.5	<0.5	<0.5
	6/16/92	ND	ND	<0.5	<0.5	<0.5
	9/8/92	<50	<0.5	<0.5	<0.5	<0.5
	11/5/92	<50	<0.5	<0.5	<0.5	<0.5
	2/11/93	<50	<0.5	<0.5	<0.5	<0.5
	5/11/93	<50	<0.5	<0.5	<0.5	<0.5
	8/10/93	<50	<0.5	<0.5	<0.5	<0.5
	10/27/93	<50	<0.5	<0.5	<0.5	1.1
	2/16/94	<50	<0.5	<0.5	<0.5	<0.5
	5/31/94	<50	<0.5	<0.5	<0.5	<0.5
	8/30/94	<50	<0.5	<0.5	<0.5	<0.5
	11/11/94	53	0.62	1.8	<0.5	2.0
	2/27/95	<50	<0.5	<0.5	<0.5	<0.5
	5/30/95	69	2.8	0.96	1.1	4.3
8/30/95	<50	<0.5	<0.5	<0.5	<0.5	
10/25/95	<50	<0.5	<0.5	<0.5	<0.5	
2/24/96	2,000	810	92	25	78	
RW-1	6/16/92	6,200	620	1,400	240	1,400
	9/8/92-2/24/96	Not Sampled				

looks like MW-6H data!

Table 2
Groundwater Analytical Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Sampled	TPH as			Ethyl-	
		gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	benzene (ppb)	Xylenes (ppb)
RW-2	3/25/92	NA	NA	NA	NA	NA
	6/16/92	28,000	2,900	1,000	120	2,700
	9/8/92-10/25/95	Not Sampled				
RW-3	8/30/94-2/24/96	Not Sampled				
ppb = parts per billion						
TPHg = Total Petroleum Hydrocarbons as gasoline.						
< = Less than the detection limit for the specified method of analysis.						
NA = Not Analyzed						
ND = Not detectable at or above method detection limit.						

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

LOG NO: G96-02-663

Received: 29 FEB 96

Mailed: MAR 8 1996

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

Purchase Order: 94-1446346+4370

Requisition: 624880195
 Project: FKEP1015L

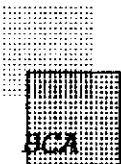
REPORT OF ANALYTICAL RESULTS

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	Total Xylenes Isomers ug/L	Carbon Range
RDL				1	50	0.5	0.5	0.5	0.5	
1*MW 6B	02/24/96	03/07/96		1	110	27	0.86	0.98	1.8	C6-C12
2*MW 6E	02/24/96	03/07/96		1	<50	2.2	0.77	<0.5	0.83	C6-C12
3*MW 6H	02/24/96	03/06/96		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
4*MW 6I	02/24/96	03/06/96		5	2000	810	92	25	78	C6-C12

Karen Petryna
 2225 Telegraph Ave., Oakland
 Alameda county



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

LOG NO: G96-02-663

Received: 29 FEB 96

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

Purchase Order: 94-1446346+4370

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REPORT OF ANALYTICAL RESULTS

Page 2

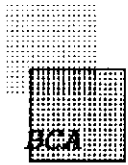
AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)	Date Analyzed Date	Dilution Factor Times	TPH-g	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	Carbon
					ug/L	ug/L	ug/L	ug/L	ug/L	Range
RDL				1	50	0.5	0.5	0.5	0.5	
5*EB	02/24/96	03/05/96		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
6*TB	02/24/96	03/05/96		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12

Janice Winter
 Dick Swenson, 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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SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE.....	METHOD.....	EQUIP.	BATCH..	ID.NO
			ANALYZED				
9602663*1	MW 6B	GAS.BTX.TESNC	03.07.96	8015M.TX	536-36	96623	6843
9602663*2	MW 6E	GAS.BTX.TESNC	03.07.96	8015M.TX	536-36	96623	6843
9602663*3	MW 6H	GAS.BTX.TESNC	03.06.96	8015M.TX	536-36	96622	6843
9602663*4	MW 6I	GAS.BTX.TESNC	03.06.96	8015M.TX	536-36	96623	6843
9602663*5	EB	GAS.BTX.TESNC	03.05.96	8015M.TX	536-36	96622	6843
9602663*6	TB	GAS.BTX.TESNC	03.05.96	8015M.TX	536-36	96622	6843

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 G9602663

DATE REPORTED : 03/08/96

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LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. GRO	C603627*1					
Date Analyzed	03.06.96	96623	03/06/96	03/06/96	Date	N/A
Benzene	03.06.96	96623	17.2	15.2	ug/L	113
Toluene	03.06.96	96623	91.5	97.4	ug/L	94
Ethylbenzene	03.06.96	96623	18.9	20.4	ug/L	93
Total Xylene Isomers	03.06.96	96623	108	119	ug/L	91
TPH (Gasoline Range)	03.06.96	96623	1120	1100	ug/L	102
a,a,a-Trifluorotoluene Rep.	03.06.96	96623	53.3	50.0	ug/L	107
a,a,a-Trifluorotoluene Th.	03.06.96	96623	50.0	50.0	ug/L	100
2. GRO	C603628*1					
Date Analyzed	03.06.96	96623	03/06/96	03/06/96	Date	N/A
Benzene	03.06.96	96623	15.4	15.2	ug/L	101
Toluene	03.06.96	96623	89.1	97.4	ug/L	91
Ethylbenzene	03.06.96	96623	18.4	20.4	ug/L	90
Total Xylene Isomers	03.06.96	96623	105	119	ug/L	88
TPH (Gasoline Range)	03.06.96	96623	1160	1100	ug/L	105
a,a,a-Trifluorotoluene Rep.	03.06.96	96623	52.7	50.0	ug/L	105
a,a,a-Trifluorotoluene Th.	03.06.96	96623	50.0	50.0	ug/L	100
3. GRO	C603507*1					
Date Analyzed	03.04.96	96622	03/04/96	03/04/96	Date	N/A
Benzene	03.04.96	96622	16.7	15.2	ug/L	110
Toluene	03.04.96	96622	85.6	97.4	ug/L	88
Ethylbenzene	03.04.96	96622	17.6	20.4	ug/L	86
Total Xylene Isomers	03.04.96	96622	101	119	ug/L	85
TPH (Gasoline Range)	03.04.96	96622	1120	1100	ug/L	102
a,a,a-Trifluorotoluene Rep.	03.04.96	96622	71.6	50.0	ug/L	143
a,a,a-Trifluorotoluene Th.	03.04.96	96622	50.0	50.0	ug/L	100

BC ANALYTICAL

ORDER QC REPORT FOR G9602663

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ADDITIONAL LCS PRECISION (DUPLICATES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	LC1 RESULT	LC2 RESULT	UNIT	RELATIVE % DIFF
1. GRO							
Date Analyzed		03.06.96	96623	03/06/96	03/06/96	Date	N/A
Benzene		03.06.96	96623	17.2	15.4	ug/L	11
Toluene		03.06.96	96623	91.5	89.1	ug/L	3
Ethylbenzene		03.06.96	96623	18.9	18.4	ug/L	3
Total Xylene Isomers		03.06.96	96623	108	105	ug/L	3
TPH (Gasoline Range)		03.06.96	96623	1120	1160	ug/L	4
a,a,a-Trifluorotoluene Rep.		03.06.96	96623	53.3	52.7	ug/L	1
a,a,a-Trifluorotoluene Th.		03.06.96	96623	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9602663

DATE REPORTED : 03/08/96

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MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. GRO	9602663*2						
Benzene		03.07.96	96623	110	113	17.4	ug/L
Toluene		03.07.96	96623	94	94	98.2	ug/L
Ethylbenzene		03.07.96	96623	94	97	20.4	ug/L
Total Xylene Isomers		03.07.96	96623	90	91	120	ug/L
TPH (Gasoline Range)		03.07.96	96623	97	95	1100	ug/L
a,a,a-Trifluorotoluene Rep.		03.07.96	96623	108	109	50.0	ug/L
a,a,a-Trifluorotoluene Th.		03.07.96	96623	100	100	50.0	ug/L
2. GRO	9603092*2						
Benzene		03.05.96	96622	107	105	21.9	ug/L
Toluene		03.05.96	96622	94	97	97.4	ug/L
Ethylbenzene		03.05.96	96622	94	95	20.4	ug/L
Total Xylene Isomers		03.05.96	96622	90	100	119	ug/L
TPH (Gasoline Range)		03.05.96	96622	104	102	1100	ug/L
a,a,a-Trifluorotoluene Rep.		03.05.96	96622	103	103	50.0	ug/L
a,a,a-Trifluorotoluene Th.		03.05.96	96622	100	100	50.0	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR G9602663

DATE REPORTED : 03/08/96

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MATRIX QC PRECISION (DUPLICATE SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. GRO	9602663*2						
Date Analyzed		03.07.96	96623	03/07/96	03/07/96	Date	N/A
Benzene		03.07.96	96623	18.9	19.4	ug/L	3
Toluene		03.07.96	96623	91.9	92.4	ug/L	1
Ethylbenzene		03.07.96	96623	19.1	19.7	ug/L	3
Total Xylene Isomers		03.07.96	96623	108	109	ug/L	1
TPH (Gasoline Range)		03.07.96	96623	1070	1040	ug/L	3
a,a,a-Trifluorotoluene Rep.		03.07.96	96623	53.8	54.3	ug/L	1
a,a,a-Trifluorotoluene Th.		03.07.96	96623	50.0	50.0	ug/L	0
2. GRO	9603092*2						
Date Analyzed		03.05.96	96622	03/05/96	03/05/96	Date	N/A
Benzene		03.05.96	96622	22.9	22.6	ug/L	1
Toluene		03.05.96	96622	91.3	94.5	ug/L	3
Ethylbenzene		03.05.96	96622	19.2	19.4	ug/L	1
Total Xylene Isomers		03.05.96	96622	107	119	ug/L	11
TPH (Gasoline Range)		03.05.96	96622	1140	1120	ug/L	2
a,a,a-Trifluorotoluene Rep.		03.05.96	96622	51.7	51.5	ug/L	0
a,a,a-Trifluorotoluene Th.		03.05.96	96622	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9602663

DATE REPORTED : 03/08/96

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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/GRO	B603344*1					
Date Analyzed	03.06.96	96623	03/06/96	NA	Date	8015M
Benzene	03.06.96	96623	0	0.3	ug/L	8015M
Toluene	03.06.96	96623	0	0.3	ug/L	8015M
Ethylbenzene	03.06.96	96623	0	0.3	ug/L	8015M
Total Xylene Isomers	03.06.96	96623	0	0.6	ug/L	8015M
TPH (Gasoline Range)	03.06.96	96623	0	100	ug/L	8015M
a,a,a-Trifluorotoluene Rep.	03.06.96	96623	50.6	0.5	ug/L	8015M
a,a,a-Trifluorotoluene Th.	03.06.96	96623	50.0	NA	ug/L	8015M
2. GRO	B603272*1					
Date Analyzed	03.05.96	96622	03/05/96	NA	Date	8015M.TX
Benzene	03.05.96	96622	0	0.5	ug/L	8015M.TX
Toluene	03.05.96	96622	0	0.5	ug/L	8015M.TX
Ethylbenzene	03.05.96	96622	0	0.5	ug/L	8015M.TX
Total Xylene Isomers	03.05.96	96622	0	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	03.05.96	96622	0	50	ug/L	8015M.TX
a,a,a-Trifluorotoluene Rep.	03.05.96	96622	46.1	NA	ug/L	8015M.TX
a,a,a-Trifluorotoluene Th.	03.05.96	96622	50.0	NA	ug/L	8015M.TX

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 14:12:30 08 MAR 1996 - P. 1 :
=====

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9602663*1							
8015M.TXa	a,a-Trifluorotoluene	Re96623	03/07/96	52.6	50.0	105	
9602663*2							
8015M.TXa	a,a-Trifluorotoluene	Re96623	03/07/96	51.9	50.0	104	
9602663*3							
8015M.TXa	a,a-Trifluorotoluene	Re96622	03/06/96	45.7	50.0	91	
9602663*4							
8015M.TXa	a,a-Trifluorotoluene	Re96623	03/06/96	245	250	98	
9602663*5							
8015M.TXa	a,a-Trifluorotoluene	Re96622	03/05/96	51.4	50.0	103	
9602663*6							
8015M.TXa	a,a-Trifluorotoluene	Re96622	03/05/96	51.1	50.0	102	

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9602663*2*R1							
8015M.TXa	a,a,a-Trifluorotoluene	Re96623	03/07/96	51.9	50.0	104	
9602663*2*S1							
8015M.TXa	a,a,a-Trifluorotoluene	Re96623	03/07/96	53.8	50.0	108	
9602663*2*S2							
8015M.TXa	a,a,a-Trifluorotoluene	Re96623	03/07/96	54.3	50.0	109	
9602663*2*T							
8015M.TXa	a,a,a-Trifluorotoluene	Re96623	03/07/96	50.0	50.0	100	
9603092*2*R1							
8015M.TXa	a,a,a-Trifluorotoluene	Re96622	03/05/96	49.1	50.0	98	
9603092*2*S1							
8015M.TXa	a,a,a-Trifluorotoluene	Re96622	03/05/96	51.7	50.0	103	
9603092*2*S2							
8015M.TXa	a,a,a-Trifluorotoluene	Re96622	03/05/96	51.5	50.0	103	
9603092*2*T							
8015M.TXa	a,a,a-Trifluorotoluene	Re96622	03/05/96	50.0	50.0	100	
B603272*1*MB							
8015M.TXa	a,a,a-Trifluorotoluene	Re96622	03/05/96	46.1	50.0	92	
B603344*1*MB							
8015M	a,a,a-Trifluorotoluene	Re96623	03/06/96	50.6	50.0	101	
C603507*1*LC							
8015M.TXa	a,a,a-Trifluorotoluene	Re96622	03/04/96	71.6	50.0	143	
C603507*1*LT							
8015M.TXa	a,a,a-Trifluorotoluene	Re96622	03/04/96	50.0	50.0	100	
C603627*1*LC							
8015M.TXa	a,a,a-Trifluorotoluene	Re96623	03/06/96	53.3	50.0	107	
C603627*1*LT							
8015M.TXa	a,a,a-Trifluorotoluene	Re96623	03/06/96	50.0	50.0	100	

.. SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 14:12:41 *08 MAR 1996 - P. 2 :
=====

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
C603628*1*LC							
8015M.TXa	a,a,a-Trifluorotoluene	Re96623	03/06/96	52.7	50.0	105	
C603628*1*LT							
8015M.TXa	a,a,a-Trifluorotoluene	Re96623	03/06/96	50.0	50.0	100	

624880195

Chain-of-Custody

Texaco Environmental Services

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

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

Site Name: Texaco Loc# 624880195
 Site Address: 2225 Telegraph Ave. Oakland, CA
 Contractor Project Number: 360224-K2
 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): Keith Brown
 Sampler Signature: [Signature]
 Date Samples Collected: 2/24/96

ANALYSIS

624880195
 Alameda
 KEP
 FKEPIC156
 Cooler Temp: 40

Sample Condition:

SPD

Comments

Sample Number	Lab. Sample Number	Date/Time Collected	No. of Containers	Type of Containers	Sample Matrix	Preservative	TPH gas/BTEX	TPH Diesel	O&G/TRPH (418.1)	TPH Ex. (C8-C39+)	VOCs 8240/824	P. Halocarbons 8010/60	P. Aromatics 8020/602	Organic Lead		
16608B		2/24 930	3	VOL	W	HCl	X								-	1
16608E		940					X								-	2
16608H		1000					X								-	3
16608I		905					X								-	4
EB							X									-5
TB							X									-6

Relinquished by: [Signature] Date: 2/29/96 Time: 2:05
 Relinquished by: [Signature] Date: 2-29-96 Time: 3:35
 Relinquished by: [Signature] Date: 2-29-96 Time: 4:30

Received by: [Signature] Date: 2-29-96 Time: 2:05
 Received by: [Signature] Date: 2-29-96 Time: 2:20

Method of Shipment:

Lab Comments:

Well Gauging Data

Project Name: 960224-K2
 Project Number: Telegraph Ave

Date: 2/24
 Recorded By: KCB

Well ID	TOC Elev.	DTB (ft. TOC)	Well Dia. (in.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW 6B		1821	2		1148		
MW 6E		1952	4		1180		
MW 6F		1958	4		1088		
MW 6G		1957	4		947		
MW 6H		1968	4		1158		
MW 6I		1923	4		1197		

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>960224-1C2</u>	Texaco ID#: <u>624880195</u>
Sampler: <u>ICCB</u>	Date: <u>2/24</u>
Well I.D.: <u>MW6B</u>	Well Diameter: <u>2</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>1821</u>	Depth to Water: <u>1148</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: <input checked="" type="checkbox"/> S.S. Bailor <input type="checkbox"/> Teflon Bailor <input type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input checked="" type="checkbox"/> S.S. Bailor <input checked="" type="checkbox"/> Teflon Bailor <input type="checkbox"/> Extraction Port Other: _____
---	---

<u>1.0</u>	x	<u>3</u>	=	<u>3.0</u>	Gals.
I Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
922	65.1	7.0	1000	>200	1.0	greyish
924	65.4	7.0	1000	>200	2.0	odor
926	66.0	7.0	1000	>200	3.0	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>3.0</u>
Sampling Time: <u>930</u>	Sampling Date: <u>2/24</u>
Sample I.D.: <u>MW6B</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>960224-KR</u>	Texaco ID#: <u>624880195</u>
Sampler: <u>1CCB</u>	Date: <u>2/24</u>
Well I.D.: <u>1WV6E</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth: <u>1952</u>	Depth to Water: <u>1180</u>
Depth to Free Product:	Thickness of Free Product:
All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.	

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

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

<u>5.0</u>	x	<u>3</u>	=	<u>15.0</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
934	62.0	7.0	600	144.7	5.0	
936	63.0	6.8	500	28.2	10.0	
937	62.8	6.7	480	9.6	15.0	

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: <u>15.0</u>
Sampling Time: <u>940</u>	Sampling Date: <u>2/24</u>
Sample I.D.: <u>MW6E</u>	Laboratory: <u>BC Analytical</u>
Analyzed for: Tph-G BTEX Tph-D	Other:
Equipment Blank I.D.: <u>EB-(915)</u>	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: <u>960224-1C2</u>	Texaco ID#: <u>624880195</u>
Sampler: <u>1CCB</u>	Date: <u>2/24</u>
Well I.D.: <u>NW6H</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth: <u>1968</u>	Depth to Water: <u>1158</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: _____
--	--

<u>5.2</u>	x	<u>3</u>	=	<u>15.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>950</u>	<u>65.0</u>	<u>6.8</u>	<u>880</u>	<u>114.8</u>	<u>6.0</u>	<u>drk grey</u>
<u>952</u>	<u>65.6</u>	<u>6.9</u>	<u>900</u>	<u>70.4</u>	<u>11.0</u>	<u>strgy odor</u>
<u>954</u>	<u>66.0</u>	<u>6.9</u>	<u>910</u>	<u>179.5</u>	<u>16.0</u>	

Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>16.0</u>
Sampling Time: <u>1000</u>	Sampling Date: <u>2/24</u>
Sample I.D.: <u>NW6H</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 #: <u>960224-142</u>	Texaco ID#: <u>624880195</u>
Sampler: <u>1CCB</u>	Date: <u>2/24</u>
Well I.D.: <u>NW6I</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth: <u>1925</u>	Depth to Water: <u>1197</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: <u>S.S. Bailer</u> Teflon Bailer Extraction Port Other: _____
--	---

<u>4.7</u>	\times	<u>3</u>	$=$	<u>14.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>857</u>	<u>65.4</u>	<u>7.0</u>	<u>720</u>	<u>62.2</u>	<u>50</u>	
<u>859</u>	<u>66.0</u>	<u>7.0</u>	<u>700</u>	<u>33.9</u>	<u>10.0</u>	
<u>902</u>	<u>65.8</u>	<u>7.0</u>	<u>680</u>	<u>109.6</u>	<u>150</u>	

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: <u>150</u>
Sampling Time: <u>905</u>	Sampling Date: <u>2/24</u>
Sample I.D.: <u>NW6I</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

Groundwater Sampling Form

Project Name TEX# 624880195 Well No. MW-6B
 Project Number 950830-L1 Well Type Monitor Extraction Other
 Recorded By LAD BOWLER Sampled by LAD Date 8-30-95

WELL PURGING

PURGE VOLUME

Well casing diameter
 2-inch 4-inch Other
 Well Total Depth (TD, ft. below TOC) 18.08
 Depth to Water (WL, ft. below TOC) 12.76
 Depth to free phase hydrocarbons (FP, ft. below TOC) _____
 Number of well volumes to be purged
 3 10 Other _____

PURGE METHOD

Bailor - Type TEFLON
 Pump - Type _____
 Other _____

PUMP INTAKE

Near top Depth (ft) 15.
 Near Bottom Depth (ft) _____
 Other _____

Pumping Rate 0.5 gpm

$\frac{5.3}{\text{Water Column Length}} \times \frac{.17}{\text{Multiplier}} \times \frac{3}{\text{No. Vols}} = \frac{2.7}{\text{CALCULATED PURGE VOLUME}} \text{ gals}$
3. gals
ACTUAL PURGE VOLUME

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 MYRON-L

Time/Gallons	pH	Cond. (uomhcs/cm)	Temp (deg C / deg F)	Turbidity (NTU)	Color/Odor
1205 1 1.	7.4	1200.	68.6	>200.	ODOR
1208 1 2.	7.0	1200.	68.8	>200	
1212 1 3.	7.2	1200.	69.2	>200	
/					
/					
/					
/					
/					

Comments during well purge
 Well Pumped dry: YES NO Purge water storage/disposal Drummed onsite Other TRUCK #14

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 8-30-95 1215

Bailor - Type TEFLON 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>MW-6B</u>	<u>40 ml</u>	<u>TPH 6</u> <u>BTEX</u>	<u>HCL</u>	<u>BLA</u>	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Tripp	
Rinsate	
Transfer	
Other:	

Groundwater Sampling Form

Project Name TEX# 62A880195 Well No. MW-6E
 Project Number 950830-L1 Well Type Monitor Extraction Other
 Recorded By LAD BOWER Sampled by LAD Date 8-30-95

WELL PURGING

PURGE VOLUME

Well casing diameter
 2-inch 4-inch Other
 Well Total Depth (TD, ft. below TOC) 19.42
 Depth to Water (VWL, ft. below TOC) 13.85
 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 BTS MIDDLEBURG
 Other _____

PUMP INTAKE

Near top Depth (ft) _____
 Near Bottom Depth (ft) 18.
 Other _____

PURGE VOLUME CALCULATION

$$\frac{5.6}{\text{Water Column Length}} \times \frac{.66}{\text{Multiplier}} \times \frac{3}{\text{No. Vols}} =$$

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

Pumping Rate 1. gpm
11.0 gals
CALCULATED PURGE VOLUME
11.0 gals
ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT Meter Type MYRON-L

Time/Gallons	pH	Cond. (uomhcs/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
1115 / 4.	7.2	710.	63.0		57.	
1118 / 7.	7.0	670.	63.0		15.	
1121 / 11	7.2	650	62.6		16.	
/						
/						
/						
/						
/						

Comments during well purge _____
 Well Pumped dry: YES NO Purge water storage/disposal Drummed onsite Other TRUCK # 11.

WELL SAMPLING

SAMPLING METHOD _____ Date/Time Sampled 8-30-95 1125

Bailor - 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
/ /						

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
<u>MW-6E</u>	<u>40ml</u>	<u>TPH, BTEX</u>	<u>HCL</u>	<u>BLA</u>	

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank Samples	
Original Sample No.	Duplicate Sample No.	Type	Sample No.
		Trip	
		Rinsale	
		Transfer	
		Other:	

C+L

Groundwater Sampling Form

Project Name TEX# 624880195 Well No. MW-6F
 Project Number 950830-L1 Well Type Monitor Extraction Other
 Recorded By LAD B OLVER Sampled by LAD Date 8-30-95

WELL PURGING

PURGE VOLUME

Well casing diameter
 2-inch 4-inch Other
 Well Total Depth (TD, ft. below TOC) 19.68
 Depth to Water (WL, ft. below TOC) 19.31
 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 BTS MIDDLEBURG
 Other

PUMP INTAKE

Near top Depth (ft.)
 Near Bottom Depth (ft.) 18.0
 Other

Pumping Rate 1 gpm

$$\frac{5.37}{\text{Water Column Length}} \times \frac{.66}{\text{Multiplier}} \times \frac{3}{\text{No. Vols}} =$$

10.6 calcs

CALCULATED PURGE VOLUME

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

11 calcs

ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON-L

Time/Gallons	pH	Cond. (uomhcs/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
1015 / 4.	6.8	1100.	63.0		27.	
1019 / 8.	6.9	1100.	62.8		19.	
1022 / 11.	7.0	990.	63.0		17.	
/						
/						
/						
/						
/						

Comments during well purge

Well Pumped dry: YES NO Purge water storage/disposal Drummed onsite Other TRUCK #14

WELL SAMPLING

SAMPLING METHOD: Date/Time Sampled 8-30-95 10:30

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
<u>MW-6F</u>	<u>40ml</u>	<u>TPHC</u> <u>BTEX</u>	<u>HCL</u>	<u>BCA</u>	

QUALITY CONTROL SAMPLES

Duplicate Samples	
Original Sample No.	Duplicate Sample No.

Blank Samples	
Type	Sample No.
Trip	
Rinse	
Transfer	
Other:	

Groundwater Sampling Form

Project Name TEX# 624880195
 Project Number 950830-L1
 Recorded By LAD B OLVER

Well No. MW-66
 Well Type Monitor Extraction Other
 Sampled by LAD Date 8-30-95

WELL PURGING

PURGE VOLUME

Well casing diameter:
 2-inch 4-inch Other
 Well Total Depth (TD, ft. below TOC) 19.58
 Depth to Water (WL, ft. below TOC) 11.92
 Depth to free phase hydrocarbons (FP, ft. below TOC) _____
 Number of well volumes to be purged:
 3 10 Other _____

PURGE METHOD

Bailor - Type TEFLON
 Pump - Type _____
 Other _____

PUMP INTAKE

Near top Depth (ft) 14.
 Near Bottom Depth (ft) _____
 Other _____
 Pumping Rate 0.5 gpm

PURGE VOLUME CALCULATION

$$\frac{7.7}{\text{Water Column Length}} \times \frac{.66}{\text{Multiplier}} \times \frac{3}{\text{No. Vols}} =$$

MULTIPLIER (Casing Dia. [inches] = Gallons/linear ft.)
 2 = 0.173 | 3 = 0.38 | 4 = 0.66 | 4.5 = 0.83 | 5 = 1.02 | 6 = 1.5 | 8 = 2.6

15. gals
CALCULATED PURGE VOLUME
15. gals
ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT Meter Type MYRON-L

Time/Gallons	pH	Cond. (uomhcs/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
1050 5	7.2	1100	66.8		2200	
1056 10	7.1	1100.	66.0		2200	
1103 15	7.0	1100	66.6		2200	
/						
/						
/						
/						
/						

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

WELL SAMPLING

SAMPLING METHOD: Date/Time Sampled 8-30-95, 1110
 Bailor - Type TEFLON 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>MW-66</u>	<u>40ml</u>	<u>TATG</u> <u>BTEX</u>	<u>HCL</u>	<u>BLA</u>	

QUALITY CONTROL SAMPLES

Duplicate Samples	
Original Sample No.	Duplicate Sample No.

Blank Samples	
Type	Sample No.
Trip	
Rinsale	<u>EB@1040</u>
Transfer	<u>AFTER</u>
Other:	<u>MW-66</u>

Groundwater Sampling Form

Project Name TEY#62488195 Well No. MW-6H
 Project Number 950830-L1 Well Type Monitor Extraction Other
 Recorded By LAD BOLVER Sampled by LAD Date 8-30-95

WELL PURGING

PURGE VOLUME

Well casing diameter
 2-inch 4-inch Other
 Well Total Depth (TD, ft. below TOC) 19.76
 Depth to Water (WL, ft. below TOC) 12.34
 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 BTS MIDDLEBURG
 Other

PUMP INTAKE

Near top Depth (ft)
 Near Bottom Depth (ft) 18.
 Other

PURGE VOLUME CALCULATION

$$\frac{7.4}{\text{Water Column Length}} \times \frac{.66}{\text{Multiplier}} \times \frac{3}{\text{No. Vols}} =$$

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

Pumping Rate 1. gpm
14.7 gals
CALCULATED PURGE VOLUME
15. gals
ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON-C

Time/Gallons	pH	Cond. (uomhcs/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
1220 / 5	7.6	1200.	72.4		78.	
1225 / 10	7.7	1200.	71.0		40.	STRONG
1230 / 15	7.7	1200.	69.6		24.	ODOR
/						
/						
/						
/						

Comments during well purge
 Well Pumped dry: YES NO
 Purge water storage/disposal Drummed onsite Other TRUCK #14

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 8-30-95 1235

Bailor - 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
/ / /						

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
<u>MW-6H</u>	<u>40ml</u>	<u>TPH 6</u> <u>BTEX</u>	<u>HCL</u>	<u>BCA</u>	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinse	
Transfer	
Other:	

C

Groundwater Sampling Form

MW-6 I

Project Name TEX# 624880 195
 Project Number 950830-1
 Recorded By LAD B OLVER

Well No. _____
 Well Type Monitor Extraction Other _____
 Sampled by LAD Date 8-30-95

WELL PURGING

PURGE VOLUME

Well casing diameter
 2-inch 4-inch Other _____
 Well Total Depth (TD, ft. below TOC) 19.28
 Depth to Water (WL, ft. below TOC) 12.86
 Depth to free phase hydrocarbons (FP, ft. below TOC) _____
 Number of well volumes to be purged
 3 10 Other _____

PURGE METHOD

Bailor - Type TEFLON
 Pump - Type _____
 Other _____

PUMP INTAKE

Near top Depth (ft) _____
 Near Bottom Depth (ft) 15
 Other _____

PURGE VOLUME CALCULATION

$$\frac{6.4}{\text{Water Column Length}} \times \frac{.66}{\text{Multiplier}} \times \frac{3}{\text{No. Vols}} =$$

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

Pumping Rate 0.5 gpm
 CALCULATED PURGE VOLUME 12.7 gals
 ACTUAL PURGE VOLUME 13 gals

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON-L

Time/Gallons	pH	Cond. (uomhos/cm)	Temp (deg C / deg F)	Turbidity (NTU)	Color/Odor
1140 / 5.	7.3	800.	64.8	43.	
1148 / 9.	7.2	860.	64.4	157.	
1156 / 13.	7.2	860.	64.8	7200.	
/					
/					
/					
/					
/					

Comments during well purge _____
 Well Pumped dry: YES NO _____ Purge water storage/disposal Drummed onsite Other 12.7 gals

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 8-30-95 / 1200
 Bailor - Type TEFLON 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
MW-6 I	40ml	TYPE MET	HCL	B-LA-	

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank Samples	
Original Sample No.	Duplicate Sample No.	Type	Sample No.
		Trip	
		Rinsate	
		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 #: 960224-K2
 Address: 2225 Telegraph Ave
 City, State, ZIP: Oakland

Well I.D.	Gals.	Well I.D.	Gals.
MW 6B1			
↓	1		1
↓	1		1
↓	1		1
MW 6E1			
	1 490		1
	1		1
	1		1
	1		1
	1		1

Total gals. _____ added rinse water 10
 Total Gals. Recovered 59.0

Job #: 960224-K2
 Date: 2/24
 Time: 1005
 Signature: [Signature]

REC'D AT: 185
 Date: 2/25
 Time: 900
 Signature: [Signature]