

108 Cutting Blvd Richmond CA 94804 HAZMAT 94 APR - I AMII: 58

March 17, 1994

ENV - STUDIES, SURVEYS, & REPORTS 500 Grand Avenue Oakland, California

STIP 109

Ms. Susan Hugo Alameda County Environmental Health Department 80 Swan Way, Room 200 Oakland, CA 94621

Dear Ms. Hugo:

This letter presents the results of groundwater monitoring and sampling conducted by Blaine Tech Services, Inc. on February 3, 1994, at the site referenced above (See Plate 1, Site Vicinity Map). Based on groundwater elevation measurements, the hydraulic gradient was determined to be approximately 0.09 and the general flow direction 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 certified analytical report, chain-of-custody, field data sheets, and bill of lading are in the Appendix along with Blaine Tech Services' Field Procedures and Protocols Summary.

If you have any questions or comments regarding this site, please call the Texaco Environmental Services' site Project Coordinator, Robert Robles at (818) 505-2476.

If you have any questions or comments regarding this report, please call Rebecca Digerness (510) 236-0479.

Best Regards, Texaco Environmental Services

Karen E. Petryna

Engineer

R. R. Zielinski Area Supervisor

KEP/RBD:rbd

P:\GWMP\QMR\500G\1Q94QMR.LET

Enclosures

CC: Mr. Richard Hiett
CRWQCB - San Francisco Bay Region
2101 Webster St., Suite 500
Oakland, CA 94612

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

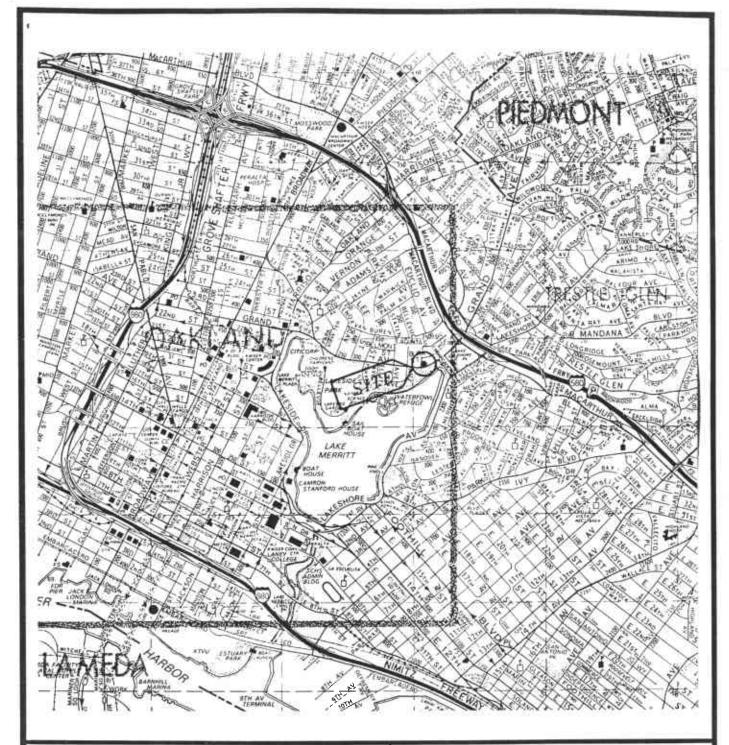
PR: KEP

GROUNDWATER MONITORING AND SAMPLING

First Quarter, 1994

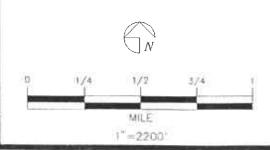
at

Former Texaco Station 500 Grand Avenue Oakland, California





1993 THE THOMAS GUIDE ALAMEDA COUNTY, PAGE 9 (D4)





TEXACO

REFINING AND MARKETING, INC.
TEXACO ENVIRONMENTAL SERVICES

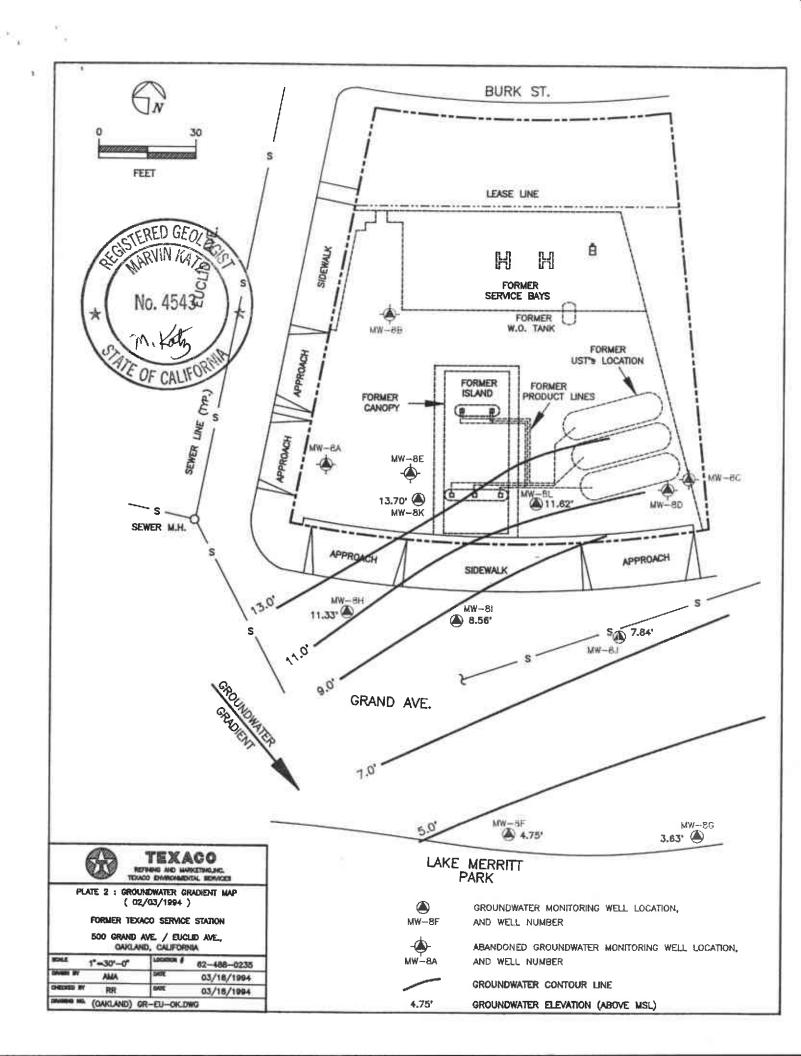
PLATE 1

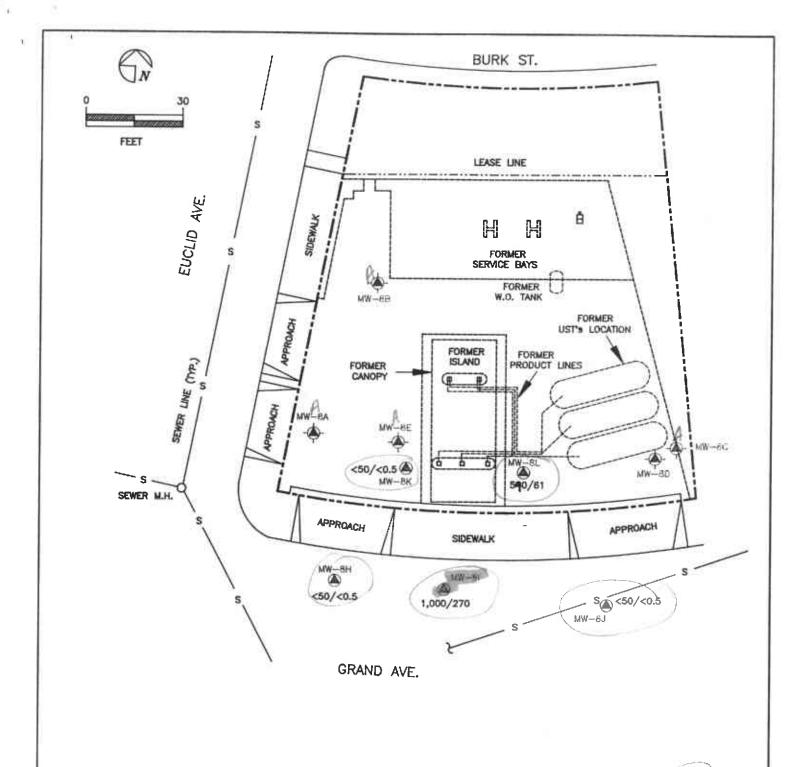
SITE VICINITY MAP

FORMER TEXACO SERVICE STATION

500 GRAND AVE. / EUCLID AVE.,

OAKLAND. CALIFORNIA







TEXACO

PLATE 3 : TPHq/BENZENE CONCENTRATION IN GROUNDWATER (02/03/1994)

FORMER TEXACO SERVICE STATION

500 GRAND AVE. / EUCLID AVE., DARLAND, CALIFORNIA

ROLL	1"-30"-0"	POORIOR 1	62-488-0235
DAMEN BA	AMA	DOE	03/18/1994
OEDED W	RR	DATE	03/18/1994
DVINOR NO. /	COMMINANO) COR.	SI_OW DWG	





LAKE MERRITT PARK

(A)

GROUNDWATER MONITORING WELL LOCATION,

AW--8F

AND WELL NUMBER

A8-WM

ABANDONED GROUNDWATER MONITORING WELL LOCATION, AND WELL NUMBER

<50/<0.5

TPHg/BENZENE CONCENTRATION IN GROUNDWATER (ppb)

Table 1 Groundwater Elevation Data

Well	Date	Well Elevation	Depth to Water	Groundwater Elevation*
Number	Gauged	(feet)	(feet, TOC)	(feet)
MW-8A	03/29/91	99.72	2.32	97.40
	04/23/91		2.31	97.4
	06/10/91		2.82	96.90
	06/28/91		2.53	97.19
	07/23/91		2.35	97.3
	08/22/91		2.68	97.0
	10/03/91		2.46	
	10/24/91		2.53	97.1
ing Military and August	11/26/91		3.03	96.6
	12/30/91		2.28	97.4
	01/23/92		2.57	97.1
	02/28/92		2,48	97.2
	03/26/92		2.13	97.5
	04/30/92		2.10	97.6
: ::::::::::::::::::::::::::::::::::::	08/03/92	11100 000000000000000000000000000000000	Well Properly Aband	
MW-8B	03/29/91	101.11	0,26	100.8
10111	04/23/91		0.31	100.8
1 101 (11) 31-4	08/10/91		0.42	100,6
	06/28/91		0.41	100.7
	07/23/91		0.52	100.5
	08/22/91		0.62	100.4
di disti Arre	10/03/91	3.3 (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	0.52	100.5
	10/24/91		0.62	100,4
T Delikaring Baras (11/26/91	met K. I. Service	0.73	100.3
	12/30/91		0,30	100.8
erte o tax	01/23/92		0.54	100,5
	02/28/92		0,29	100.8
::::::::::::::::::::::::::::::::::::::	03/26/92		0.07	101.0
	04/30/92		0.60	100.5
111111111111111111111111111111111111111	09/28/92		Not Monitored	
	11/19/92		Not Monitored	
	02/12/93	20000	Not Monitored	
	04/01/93		Well Properly Aband	
11 (X) (F) (P)	14	ACC No. 1 Profession	iiiiiiii	
MW-8C	03/29/91	98.41	6.47	91.9
	04/23/91		6.67	91.7
2 22	06/10/91		8.08	90.3
5 - 5 - 5 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	06/28/91	41	7,36	91.0
	07/23/91		7.37	91.0
	08/22/91	an mining to	8.79	89.6
	10/03/91		7.93	90.4
	10/24/91		7,68	90.7
	11/26/91		7.59	90.8
	12/30/91		7.15	91,2
	01/23/92		6.88	91.5
	02/28/92	7	6.69	91.7
	03/26/92	*** ******* *** *** *** *** *** *** **	6.69	91.7
	A production of the second sec	made was to a second	5,90	92.5
, , ,,,,,,,,,,, = 500	09/28/92		Not Monitored	
88:111 38 × 3 m	11/19/92	on mignim nga-ix s	Not Monitored	
	02/12/93		Not Monitored	111111111111111111111111111111111111111
114	04/01/93		Well Properly Aband	

Table 1 Groundwater Elevation Data

		Well	Depth to	Groundwater
Well	Date	Elevation	Water	Elevation*
Number	Gauged	(feet)	(feet, TOC)	(feet)
MW-8E	03/29/91	99,38	3,28	96.10
	04/23/91	2000/100-1009-100-150-150-150-150-150-150-150-150-150	3.02	96.36
	06/10/91		3.08	96,30
BARRATION NA PARAGONARIO ARE CARE ESTA DE	06/28/91	CD-CDCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	3.25	96.13
	07/23/91		3.24	96.14
446800000000000000000000000000000000000	08/22/91	33.33555-55.65.65.60.00.00.00.000.000.00	3.48	95.90
	10/03/91		3.32	98.06
	10/24/91	<u> 2000-00-00-00-00-00-00-00-00-00-00-00-00</u>	3.45	95.93
	11/26/91		3,34	96.04
999970000000000000000000000	12/30/91	: ::::::::::::::::::::::::::::::::::::	3.53	95.85
	01/23/92		3,57	95,81
1900 800 1000 1000 0000 0000 0000	02/28/92	(\$20\$)\$	3.35	96.03
	03/26/92		3.01	96.37
	04/30/92	(20) 40: 20: 20: 20: 20: 20: 20: 20: 20: 20: 2	3.76	95.62
	08/03/92	•	Well Properly Aba	ndoned
MW-8F	03/29/91	97.94	8.59	89,35
	04/23/91		8.85	89.09
	06/10/91		9,58	88.36
	06/28/91		9.48	88.46
	07/23/91		9,79	88.15
	08/22/91		11,44	86.50
	10/03/91		11.58	86.36
A. (A.) () () (A.) () () () () () () () () ()	10/24/91		11.75	86.19
	11/26/91		11.63	86,31
	12/30/91		10.51	87.43
	01/23/92		10,24	87.70
	02/28/92		9.93	88,01
	03/26/92		8.78	89:16
White Manager Constitution and a second second second second	04/30/92		9.36	88.58
	09/28/92		11.83	86.11
	11/19/92		11.22	86.72
	02/12/93		9.66	88.28
	05/06/93		8.83	89.11
	08/16/93	14.04 *	10.16	3,88
Control of the American Control of the Control of t	10/12/93		10.60	3.44
	02/03/94		9.29	4.75
	******			· · · · · · · · · · · · · · · · · · ·

Table 1 Groundwater Elevation Data

344 "	_	Well	Depth to	Groundwater
Well	Date	Elevation	Water	Elevation*
Number	Gauged	(feet)	(feet, TOC)	(feet)
MW-8G	03/29/91	outer a superior of the state o	Well Inaccess	
	04/23/91	97,24	9,44	87.80
	06/10/91	200 190 196 196 200 200 200 200 100 100 100 100 100 100	10.29	86.95
	06/28/91 07/23/91		10.30	86.94
1000 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0	08/22/91		10.74	86.50
waa ka a aa	10/03/91		12.56	84,68
	10/24/91		13.09	84.15
	11/26/91		13.42 13.02	83,82
	12/30/91		11.94	84.22
	01/23/92		11.30	85.30
	02/28/92	\$551.000 (a.g.)	10.83	85.94
	03/26/92		9.20	86.41 88.04
	04/30/92		9.00	88.24 88.24
	09/28/92		13.32	83.92
	11/19/92		Well Inaccessi	
	02/12/93		Well Inaccessi	
	05/06/93		11,18	86.06
	08/16/93	13.32		3.81
	10/12/93		10,93	2,39
	02/03/94		9.69	3.63
MW-8H	03/29/91	98.90	3.70	95,20
	04/23/91		6.03	92.87
	06/10/91		3.68	95,22
WANA MAMADANA AND AND AND AND AND AND AND AND AN	06/28/91		3.83	95.07
	07/23/91		3,85	95.05
V 000000000000000000000000000000000000	08/22/91		3.80	95.10
	10/03/91		3.79	95,11
	10/24/91	New New Committee Committee (1981)	4.02	94.88
	11/26/91		3.88	95.02
WATA 1980 P. C.	12/30/91	jäjääjäve jauannessa vaataa etekkaja,	3.84	95.06
	01/23/92		3,74	95.16
	02/28/92	5.0500.050 B.0.200.000000000000000000000000000000	4,44	94.46
	03/26/92		4.21	94.69
	04/30/92	900010000000.uvocov.goggoggoggoggoggogg	3.46	95.44
	09/28/92		Well Inaccessi	
	11/19/92	Spiritage kan karang manang salabah pagpag pag	3 <i>.</i> 75	95.15
	02/12/93		4.12	94.78
Change and a state of the state	05/06/93		3.85	95.05
	08/16/93	15.04 *	***************************************	11.16
	10/12/93		3.80	11.24
	02/03/94		3,71	11.33
595999999335555555555555555554444444444	90 990 90 50 50 50 50 50 50 50 50 50 50 50 50 50		000000000000000000000000000000000000000	

Table 1 Groundwater Elevation Data

Well Date Elevation Water Elevation Water Gauged (feet) (feet, TOC)	roundwater Elevation*
MW-8I 03/29/91 98.27 6.15 04/23/91 6.29 06/10/91 6.11 06/28/91 6.30 07/23/91 6.41 08/22/91 6.44 10/39/91 6.47 10/24/91 6.57 11/26/91 6.58 12/30/92 6.33 02/28/92 6.55 03/26/92 6.45 04/30/92 6.45 04/30/92 6.44 05/06/93 14.40 6.35 10/12/391 97.69 5.71 06/28/91 6.31 02/12/93 6.31 02/12/93 6.44 05/08/93 14.40 6.35 10/12/391 6.31 02/12/93 6.44 05/08/93 14.40 6.35 10/12/391 6.31 02/12/93 6.44 05/08/93 14.40 6.35 10/12/391 6.31 02/12/391 6.31 02/12/391 6.31 02/12/391 6.31 02/12/391 6.31 02/12/391 6.31 02/12/391 6.31 02/12/391 6.31 02/12/391 6.31 02/12/391 6.31 02/12/391 6.31 03/29/91 6.31 03/29/91 6.31 03/29/91 6.31 03/29/91 6.31 03/29/91 6.31 03/29/91 6.31 03/29/91 6.41 01/23/92 6.38 03/26/92 6.28 03/26/92 6.28 03/26/92 6.28 03/26/92 6.28 03/26/92 6.28 03/26/92 6.28 03/26/92 6.28 03/26/92 6.28 03/26/93 7.46 05/06/93 13.82 6.29 04/30/92 6.48 09/28/92 Well inaccessible 11/19/92 6.55 02/12/93 7.46 05/06/93 13.82 6.21 08/16/93 13.82 6.21 08/16/93 13.82 6.21 08/16/93 13.82 6.21 08/16/93 13.82 6.29 04/30/92 6.48 09/28/92 Well inaccessible 11/19/92 6.55 02/12/93 7.46 05/06/93 13.82 6.21 08/16/93 13.82 6.21 08/16/93 13.82 6.29 04/30/92 6.48	(feet)
06/10/91 6.11 06/28/91 6.30 07/23/91 6.41 06/22/91 6.44 10/03/91 6.57 10/24/91 6.57 11/26/91 6.58 12/30/91 6.41 01/23/92 6.33 02/28/92 6.55 03/26/92 6.45 09/28/92 6.57 02/12/93 6.44 05/06/93 14.40 6.35 03/26/94 5.84 MW-8J 03/29/91 97.69 01/03/91 6.17 06/28/91 6.37 06/10/91 6.37 06/10/91 6.37 06/10/91 6.37 06/10/91 6.37 06/10/91 6.37 06/10/91 6.37 06/10/91 6.37 06/10/91 6.37 06/10/91 6.37 06/10/91 6.37 06/28/91 6.17 06/28/91 6.31 07/23/93 9.69 01/26/92 6.55 03/26/92 6.55 03/26/92 6.55 03/26/92 6.51 00/28/91 6.57 00/28/91 6.57 00/28/91 6.59 00/28/92 6.51 00/28/92 6.51 00/28/92 6.51 00/28/92 6.51 00/28/92 6.51 00/28/92 6.51 00/28/92 6.51 00/28/92 6.51 00/28/92 6.55 00/12/93 7.46 00/28/92 Well inaccessible	92.1
06/28/91 6.41 08/22/91 6.41 08/22/91 6.44 10/03/91 6.47 10/24/91 6.57 11/26/91 6.58 12/30/91 6.41 01/23/92 6.33 02/28/92 6.55 03/26/92 6.45 04/30/92 6.48 09/28/92 Well Inaccessible 11/1/9/92 6.37 02/12/93 6.44 05/06/93 14.40 6.35 10/12/93 5.84 MW-8J 03/29/91 97.69 57.1 04/23/91 6.31 06/10/91 6.17 06/28/91 6.31 07/23/91 6.37 02/23/91 6.37 02/23/91 6.37 02/23/91 97.69 02/03/94 5.84 MW-8J 03/29/91 97.69 02/03/94 5.84 MW-8J 03/29/91 97.69 02/03/94 5.84 MW-8J 03/29/91 97.69 04/23/91 6.17 06/28/91 6.31 07/23/91 6.17 06/28/91 6.31 07/23/91 6.17 06/28/91 6.57 10/03/91 6.17 06/28/91 6.59 10/03/91 6.59 11/26/91 6.59 11/26/91 6.59 11/26/91 6.59 12/30/91 6.41 01/23/92 6.55 02/28/92 6.28 03/26/92 6.28 03/26/92 6.28 03/26/92 6.28 03/26/92 6.28 03/26/92 6.55 02/12/93 7.46 05/06/93 13.82 6.29 11/19/92 6.55 02/12/93 7.46 05/06/93 13.82 6.29 11/19/93 5.57 02/03/94 5.98	91,9
07/23/91 6.41 08/22/91 6.44 10/03/91 6.47 10/24/91 6.57 11/26/91 6.58 12/30/91 6.41 01/23/92 6.33 02/28/92 6.35 03/26/92 6.45 04/30/92 6.48 09/28/93 6.40 05/06/93 14.40 6.35 10/12/93 5.99 02/03/94 5.84 MW-8J 03/29/91 97.69 5.71 04/23/91 6.31 06/10/91 6.31 06/10/91 6.31 06/10/91 6.31 06/10/91 6.31 06/10/91 6.31 06/10/91 6.31 06/10/91 6.31 06/10/91 6.31 07/23/91 6.75 06/28/91 6.31 07/23/91 6.77 06/28/91 6.31 07/23/91 6.75 06/28/91 6.31 07/23/91 6.57 08/22/91 6.57 08/22/91 6.59 01/26/91 6.59 01/26/91 6.59 01/26/91 6.59 01/26/91 6.59 01/26/91 6.59 01/26/91 6.59 01/26/91 6.59 01/26/91 6.59 01/26/91 6.59 01/26/91 6.59 01/26/91 6.59 01/26/91 6.59 01/26/91 6.59 01/26/91 6.59 01/26/91 6.59 01/26/91 6.41 01/23/92 6.59 01/26/91 6.59 01/26/91 6.41 01/23/92 6.59 01/26/92 6.20 04/30/92 6.28 03/26/92 6.20 04/30/92 6.59 01/26/93 13.82 6.29 01/26/93 5.59 02/12/93 7.46 05/06/93 5.59 02/03/94 5.98	92.1
08/22/91 6.44 10/03/91 6.47 10/24/91 6.57 11/26/91 6.58 12/30/91 6.41 01/23/92 6.33 02/28/92 6.55 03/26/92 6.45 04/30/92 6.48 09/28/92 Well Inaccessible 0.7/10/24/91 6.37 02/12/93 6.37 02/12/93 6.36 08/16/93 14.40 6.35 10/12/93 6.36 08/16/93 14.40 6.35 10/12/93 6.37 02/03/94 5.84 MW-8J 03/29/91 97.69 5.71 04/23/91 3.81 06/10/91 6.17 06/28/91 6.31 06/10/91 6.17 06/28/91 6.31 07/23/93 6.75 10/03/93 6.76 08/22/91 6.75 10/03/93 6.77 10/24/91 6.88 11/26/91 6.75 10/03/91 6.77 10/24/91 6.88 11/26/91 6.75 08/22/91 6.75 08/22/91 6.75 08/22/91 6.77 10/24/91 6.88 11/26/93 6.79 08/22/91 6.77 10/24/91 6.88 11/26/93 6.79 08/22/91 6.59 12/30/91 6.41 01/23/92 6.55 02/28/92 6.28 03/26/92 6.20 04/30/92 6.55 02/28/92 6.20 04/30/92 6.55 02/28/93 7.46 05/06/93 6.21 08/16/93 13.82 6.29 10/12/93 7.46 05/06/93 6.21 08/16/93 13.82 6.29 10/12/93 7.46 05/06/93 6.21 08/16/93 15.18 2.08 MW-8K 08/16/93 15.18 2.08	91.9
10/03/91 6.47 10/24/91 6.58 11/26/91 6.58 11/26/91 6.58 11/26/91 6.58 11/26/91 6.58 11/26/91 6.41 01/23/92 6.33 02/28/92 6.55 03/26/92 6.45 04/30/92 6.48 09/28/92 Well inaccessible 02/12/93 6.44 055/06/93 14.40 6.35 10/12/93 5.99 02/03/94 5.84 MW-8J 03/29/31 97.69 5.71 04/23/91 3.81 06/10/91 6.17 06/28/91 6.31 07/23/91 6.31 07/23/91 6.77 10/24/91 6.88 11/26/91 6.77 10/24/91 6.88 11/26/91 6.77 10/24/91 6.88 11/26/91 6.59 11/26/91 6.59 11/26/91 6.59 12/30/91 6.41 01/23/92 6.31 02/23/92 6.31 02/23/92 6.20 04/30/92 6.48 09/28/92 Well inaccessible 04/30/92 6.28 03/26/92 6.20 04/30/92 6.48 09/28/92 Well inaccessible 04/30/92 6.48 09/28/92 6.20 04/30/92 6.48 09/28/92 6.20 04/30/92 6.48 09/28/92 6.20 04/30/92 6.48 09/28/92 7.46 05/06/93 13.82 6.29 10/12/93 7.46 05/06/93 13.82 6.29 10/12/93 7.46	91.8 91.8
10/24/91 6.57 11/26/91 6.58 12/30/91 6.41 01/23/92 6.33 02/28/92 6.55 03/26/92 6.45 04/30/92 6.48 09/28/92 Well inaccessible	91.8
12/30/91 6.41 01/23/92 6.33 02/28/92 6.55 03/26/92 6.45 04/30/92 6.48 09/28/92 Well Inaccessible 05/06/93 6.37 02/12/93 6.44 05/06/93 14.40 6.35 10/12/93 5.99 02/03/94 5.84 MW-8J 03/29/91 97.69 5.71 04/23/91 3.81 06/10/91 6.17 06/28/91 6.31 07/23/91 6.41 07/23/91 6.57 10/03/91 6.75 10/03/91 6.75 10/03/91 6.75 10/03/91 6.75 10/03/91 6.75 10/03/91 6.75 10/03/91 6.59 11/26/91 6.88 11/26/91 6.88 11/26/91 6.88 08/16/93 13.82 6.29 04/30/92 6.28 03/26/92 6.28 03/26/92 6.28 03/26/93 7.46 05/06/93 13.82 6.29 11/19/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 2.08 10/12/93 5.87 02/03/94 5.98	91.7
01/23/92 6.33 02/28/92 6.55 03/26/92 6.45 04/30/92 6.48 09/28/92 Well Inaccessible	91.€
02/28/92 6.55 03/26/92 6.48 04/30/92 6.48 09/28/92 Well Inaccessible 05/05/93 6.44 05/06/93 6.36 08/16/93 14.40 6.35 10/12/93 5.84 MW-8J 03/29/91 97.69 5.71 04/23/91 3.81 06/10/91 3.81 06/10/91 6.17 06/28/91 6.31 07/23/91 6.67 08/22/91 6.75 10/03/91 6.75 10/03/91 6.75 10/03/91 6.77 10/24/91 6.88 11/26/91 6.88 11/26/91 6.55 02/28/92 6.31 02/28/92 6.31 02/28/92 6.31 02/28/92 6.28 03/26/92 6.28 03/26/92 6.28 03/26/92 6.28 03/26/93 13.82 6.21 08/16/93 13.82 6.21 08/16/93 13.82 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 2.08	91.8
03/28/92 6.45 04/30/92 6.48 09/28/92	91.9 9 1.7
09/28/92	91.8
11/19/92 6.37 02/12/93 6.44 05/06/93 6.38 08/16/93 14.40 6.35 10/12/93 5.99 02/03/94 5.84 MW-8J 03/29/91 97.69 5.71 04/23/91 3.81 06/10/91 6.17 06/28/91 6.31 07/23/91 6.67 08/22/91 6.75 10/03/91 6.75 10/03/91 6.88 11/26/91 6.88 11/26/91 6.88 11/26/91 6.88 11/26/91 6.89 12/30/91 6.41 01/23/92 6.31 02/28/92 6.28 03/26/92 6.28 03/26/92 6.28 03/26/92 6.48 09/28/92 Well inaccessible 11/19/92 6.55 02/12/93 7.46 05/06/93 13.82 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 2.08	91.7
02/12/93 6.44 05/06/93 14.40 * 6.35 08/16/93 14.40 * 6.35 10/12/93 5.99 02/03/94 5.84 MW-8J 03/29/91 97.69 5.71 04/23/91 3.81 06/10/91 6.17 06/28/91 6.31 07/23/93 6.67 08/22/91 6.75 10/03/91 6.75 10/03/91 6.77 10/03/91 6.77 10/03/91 6.77 10/03/91 6.79 11/26/91 6.88 11/26/91 6.89 11/26/91 6.89 03/28/92 6.31 01/23/92 6.31 02/28/92 6.20 04/30/92 6.48 09/28/92 6.20 04/30/92 6.48 09/28/92 6.20 04/30/92 6.48 09/28/93 13.82 6.29 11/19/93 7.46 05/06/93 13.82 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 2.08 10/12/93 5.98	
05/06/93 14.40 * 6.36 08/16/93 14.40 * 6.35 10/12/93 5.99 02/03/94 5.84 MW-8J 03/29/91 97.69 5.71 04/23/91 3.81 06/10/91 6.17 06/28/91 6.31 07/23/91 6.67 08/22/91 6.75 10/03/91 6.77 10/24/91 5.88 11/26/91 6.59 12/30/91 5.41 01/23/92 6.31 02/28/92 6.31 02/28/92 6.28 03/26/92 6.28 03/26/92 6.48 09/28/92 Well Inaccessible 11/19/92 6.55 02/12/93 7.46 05/06/93 13.82 * 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 * 2.08 10/12/93 5.98	91.9
08/16/93 14.40 * 6.35 10/12/93 5.99 02/03/94 5.84 MW-8J 03/29/91 97.69 5.71 04/23/91 3.81 06/10/91 6.17 06/28/91 6.31 07/23/91 6.67 08/22/91 6.75 10/03/91 6.75 10/03/91 6.88 11/26/91 6.88 11/26/91 6.88 11/26/91 6.89 12/30/91 6.41 01/23/92 6.31 02/28/92 6.30 03/26/92 6.28 03/26/92 6.20 04/30/92 6.48 09/28/92 Well Inaccessible 11/19/92 6.21 09/18/93 13.82 * 6.29 10/12/93 7.46 05/06/93 6.21 08/16/93 13.82 * 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 * 2.08 10/12/93 0.2/03/94 1.48	91.8 9 1.9
MW-8J 03/29/91 97.69 5.71 04/23/91 3.81 06/10/91 6.17 06/28/91 6.31 07/23/91 6.67 08/22/91 6.75 10/03/91 6.77 10/24/91 6.88 11/26/91 6.59 12/30/91 6.41 01/23/92 6.31 02/28/92 6.28 03/26/92 6.28 03/26/92 6.28 03/26/92 6.48 09/28/92 Well Inaccessible	8.0
MW-8J 03/29/91 97.69 5.71 04/23/91 3.81 06/10/91 6.17 06/28/91 6.31 07/23/93 6.67 08/22/91 6.75 10/03/91 6.75 10/03/91 6.88 11/26/91 6.88 11/26/91 6.59 12/30/91 6.41 01/23/92 6.31 02/28/92 6.31 02/28/92 6.28 03/26/92 6.28 03/26/92 6.48 09/28/92 6.48 09/28/92 6.55 02/12/93 7.46 05/06/93 13.82 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 2.08 10/12/93 5.97	8.4
04/23/91 3.81 06/10/91 6.17 06/28/91 6.31 07/23/91 6.67 08/22/91 6.75 10/03/91 6.77 10/03/91 6.88 11/26/91 6.88 11/26/91 6.89 12/30/91 6.41 01/23/92 6.31 02/28/92 6.28 03/26/92 6.28 03/26/92 6.48 09/28/92 Well inaccessible 11/19/92 6.55 02/12/93 7.46 05/06/93 13.82 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 2.08 10/12/93 5.98 MW-8K 08/16/93 15.18 2.08 10/12/93 1.95 02/03/94 1.48	8.5
04/23/91 3.81 06/10/91 6.17 06/28/91 6.31 07/23/91 6.67 08/22/91 6.75 10/03/91 6.77 10/03/91 6.88 11/26/91 6.88 11/26/91 6.89 12/30/91 6.41 01/23/92 6.31 02/28/92 6.28 03/26/92 6.28 03/26/92 6.48 09/28/92 Well inaccessible 11/19/92 6.55 02/12/93 7.46 05/06/93 13.82 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 2.08 10/12/93 5.98 MW-8K 08/16/93 15.18 2.08 10/12/93 1.95 02/03/94 1.48	
04/23/91 3.81 06/10/91 6.17 06/28/91 6.31 07/23/91 6.67 08/22/91 6.75 10/03/91 6.77 10/03/91 6.88 11/26/91 6.88 11/26/91 6.59 12/30/91 6.41 01/23/92 6.31 02/28/92 6.38 03/26/92 6.28 03/26/92 6.48 09/28/92 Well inaccessible 11/19/92 6.55 02/12/93 7.46 05/06/93 6.21 08/16/93 13.82 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 2.08 10/12/93 5.98	91.9
06/28/91 6.31 07/23/91 6.67 08/22/91 6.75 10/03/91 6.77 10/24/91 6.88 11/26/91 6.59 12/30/91 6.41 01/23/92 6.31 02/28/92 6.28 03/26/92 6.28 03/26/92 6.28 03/26/92 6.48 09/28/92 6.55 02/12/93 7.46 05/06/93 7.46 05/06/93 13.82 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 2.08 10/12/93 5.97	93.8
07/23/91 6,67 08/22/91 6.75 10/03/91 6.77 10/24/91 6.88 11/26/91 6.59 12/30/91 6.41 01/23/92 6.31 02/28/92 6.28 03/26/92 6.28 03/26/92 6.48 09/28/92 Well inaccessible 11/19/92 6.55 02/12/93 7.46 05/06/93 13.82 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 2.08 10/12/93 2.08 10/12/93 2.95 02/03/94 1.48	91.5
08/22/91 6.75 10/03/91 6.77 10/24/91 6.88 11/26/91 6.59 12/30/91 6.41 01/23/92 6.31 02/28/92 6.28 03/26/92 6.28 03/26/92 6.48 09/28/92 6.48 09/28/92 Well inaccessible 11/19/92 6.55 02/12/93 7.46 05/06/93 7.46 05/06/93 13.82 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 2.08 10/12/93 1.95 02/03/94 1.48	91.3
10/03/91	91.0 90.9
11/26/91 6.59 12/30/91 6.41 01/23/92 6.31 02/28/92 6.28 03/26/92 6.20 04/30/92 6.48 09/28/92 Well Inaccessible 11/19/92 6.55 02/12/93 7.46 05/06/93 13.82 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 2.08 10/12/93 1.95 02/03/94 1.48	90.5
12/30/91 6.41 01/23/92 6.31 02/28/92 6.28 03/26/92 6.20 04/30/92 6.48 09/28/92 Well Inaccessible 11/19/92 6.55 02/12/93 7.46 05/06/93 13.82 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 2.08 10/12/93 1.95 02/03/94 1.48	90.8
01/23/92 6.31 02/28/92 6.28 03/26/92 6.20 04/30/92 6.48 09/28/92 Well Inaccessible 11/19/92 6.55 02/12/93 7.46 05/06/93 13.82 5.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 2.08 10/12/93 1.95 02/03/94 1.48	91.1
02/28/92 6.28 03/26/92 6.20 04/30/92 6.48 09/28/92 Well inaccessible 11/19/92 6.55 02/12/93 7.46 05/06/93 13.82 5.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 2.08 10/12/93 1.95 02/03/94 1.48	91.2 9 1.3
04/30/92 6.48 09/28/92 Well Inaccessible 11/19/92 6.55 02/12/93 7.46 05/06/93 6.21 08/16/93 13.82 * 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 * 2.08 10/12/93 1.95 02/03/94 1.48 MW-8L 08/16/93 14.44 * 2.47	91.4
O9/28/92 Well Inaccessible 11/19/92 6.55 O2/12/93 7.46 O5/06/93 6.21 O8/16/93 13.82 * 6.29 10/12/93 5.87 O2/03/94 5.98 MW-8K 08/16/93 15.18 * 2.08 10/12/93 1.95 O2/03/94 1.48 MW-8L 08/16/93 14.44 * 2.47	91.4
11/19/92 6.55 02/12/93 7,46 05/06/93 6.21 08/16/93 13.82 * 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 * 2.08 10/12/93 1.95 02/03/94 1.48	91.2
02/12/93 7,46 05/06/93 6,21 08/16/93 13,82 * 6,29 10/12/93 5,87 02/03/94 5,98 MW-8K 08/16/93 15,18 * 2,08 10/12/93 1,95 02/03/94 1,48 MW-8L 08/16/93 14,44 * 2,47	
05/06/93 6.21 08/16/93 13.82 * 6.29 10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 * 2.08 10/12/93 1.95 02/03/94 1.48	91.1 90.2
10/12/93 5.87 02/03/94 5.98 MW-8K 08/16/93 15.18 2.08 10/12/93 1.95 02/03/94 1.48 MW-8L 08/16/93 14.44 2.47	91.4
02/03/94 5.98 MW-8K 08/16/93 15.18 * 2.08 10/12/93 1.95 02/03/94 1.48 MW-8L 08/16/93 14.44 * 2.47	7.5
MW-8K 08/16/93 15.18 * 2.08 10/12/93 1.95 02/03/94 1.48 MW-8t: 08/16/93 14.44 * 2.47	7.9
10/12/93 1.95 02/03/94 1.48 MW-8L 08/16/93 14.44 * 2.47	7.8
10/12/93 1.95 02/03/94 1.48 MW-8L 08/16/93 14.44 * 2.47	
02/03/94 1.48 MW-8L 08/16/93 14.44 * 2.47	13.1
MW-8L 08/16/93 14.44.* 2.47	13.2
	13.7
	2021 900 00000 0000 0000
	11,3
	12.0
02/03/94 2.82	11,€

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Other*)

		TPH as			Ethyl-		TPH as	TPH as
Well	Date	Gasoline	Benzene	Toluene	benzene	Xylenes	Diesel	Other*
Number	Sampled	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)
MW-8A	06/14/88	NA	<0.5	1.5	<2	6.6	NA	NA NA
Mill but but see becase shook accordes	10/25/88	NA	<0.5	<1	<2	<1	NA NA	NA
	09/28/89	<50	<0.5	<0.5	<0.5	<3	NA	NA
distrustance i porchero e coco	11/29/89	<50	<0.5	1.0	<0.5	<0.5	1,200	<50
	01/24/90	<100	<0.5	<0.5	<0.5	<0.5	NA.	2,800
565655 Vec. 2004 (2004 (2004)	04/26/90	< 2,500	<0.5	<0.5	<0.5	<0.5	<50	890
988884 5010400000000000	07/26/90	<50	6,0		<0.5	<0.5	<50	< 50
	10/18/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	01/08/91	≪30	<0.3	<0.3	<0.3	<0.3	<50	130
	04/23/91	< 50	<0.5	< 0.5	<0.5	<0.5	<50	<500
	07/23/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	10/24/91	< 50	<0.5	<0.5	<0.5	<0.5	<50	<500
	01/23/92	<50	<0.5	< 0.5	<0.5	<0.5	700	NA NA
	04/30/92	<50	<0.5	<0.5	<0.5	<0.5	< 50	< 500
	08/03/92	AA eli	Properly Abando	ned				
B8-WM	06/14/88	NA	<0.5	<1	<2	<1	at a	
ONORONGE BARRES	10/21/88	NA NA	<0.5	<1	~ ~ <2	3.1	NA NA	NA NA
	09/28/89	<50	<0.5	<0.5	<0.5	3.' <3	NA NA	NA NA
	11/29/89	<50	<0.5	<0.5	<0.5	<0.5	<50	380
	01/24/90	<100	₹0.5	<0.5 <0.5	<0.5	<0.5 <0.5	NA NA	350
	04/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	110
	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50 <50	<50
	10/18/90	< 50	<0.5	<0.5	<0.5	<0.5	<50	<50
	01/08/91	<30	<0.3	< 0.3	<0.3	<0.3	<50	180
	04/23/91	<50	8.4	2.5	<0.5	5.1	<50	<500
	07/23/91	<50	<0.5	1,1	<0.5	2.0	<50	<500
	10/24/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	01/23/92	<50	<0.5	<0.5	<0.5	<0,5	550	NA
	04/30/92	< 50	<0.5	<0.5	<0.5	<0.5	<50	< 500
	09/28/92		t Sampled					
0000000 da en en en ennannament	11/19/92	No	t Sampled		**********			
	02/12/93		t Sampled	*********				
555555555555555555555555555555	04/01/93	Well	Properly Abando	ned				
MW-8C	06/14/88	NA	5.3	3.5	2.6	13.0	NA	NA
	10/21/88	NA	<0.5	<1	<2	<1	NA	NA
	09/28/89	< 50	<0.5	<0.5	<0.5	<3.0	NA	NA
	11/29/89	<50	<0,5	<0.5	≪0.5	<0.5	<50	190
100010010000000000000000000000000000000	01/24/90	<100	0.9	< 0.5	<0.5	<0.5	NA	480
	04/26/90	<50	<0,5	< 0.5	<0.5	<0.5	<50	160
	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	10/18/90	<50	<0.5	<0.5	<0.5	<0.5	< 50_	<50
	01/08/91	<30	<0.3	<0.3	<0.3	< 0.3	76	110
ves. 58.0.000 0800 000 000 4.2	04/23/91	800 	12		3.7	19	<50	< 500
	07/23/91	<50 ∠ea	< 0.5	0.6	<0.5	<0.5	<50	<500
	10/24/91	<50	<0.5	< 0.5	< 0.5	<0.5	<50	<500
	01/23/92	<50	1.2	<0.5	<0.5	<0.5	840	NA NA

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Other*)

Well	Date	TPH as Gasoline	Benzene	Toluene	Ethyl- benzene	Xylenes	TPH as Diesel	TPH as Other*
Number MW-8C	Sampled	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)
(cont.)	04/30/92 09/28/92	<50	<0.5 t Sampled	<0.5	<0.5	<0,5	150	<500
(GOIRL)	11/19/92	la de la companio de	t Sampled t Sampled	 \$1.555965555556666666666666666	89 898 9 5 0 1000 V 0 100 0000 100 V.C	59.5988.000.000.000.000.000.000.000.000.000	bulanca sa mana a manana sa manana	555.3 12 12 12 12 12 12 12 12 12 12 12 12 12
kit poorkon tred 1866 til 600	02/12/93		t Sampledt					
	04/01/93		Properly Abandor					
P			roperty Abandor	160 ····				
MW-8E	10/25/88	NA	1,400	510	2.9	420	NA	NA
	09/28/89	22,000	5,600	3,100	<500	<3,000	NA NA	NA NA
	11/29/89	15,000	4,900	2,600	< 250	1,490	6,800	<50
25-22. USAN UAA-N	01/24/90	36,000	10,100	3,340	540	1,790	NA	4,900
	04/26/90	48,000	11,000	5,700	840	2,800	1,400	<50
	07/26/90	56,000	15,000	6,200	520	4,700	<50	<50
	10/18/90	15,000	1,500	1,300	170	1,800	620	<50
(A. C. 0. (2. 0. (0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	01/08/91	51,000	14,000	5,400	860	1,700	17,000	520
	04/23/91	50,000	19,000	6,100	750	4,100	4,800	<500
ud Norwan and an anning the state of the sta	07/23/91	47,000	16,000	5,400	1,100	4,000	3,500	<500
	10/24/91	40,000	19,000	6,100	1,100	4,900	9,400	<500
	01/23/92	38,000	3,800	2,800	610	4,800	9,800	NA
	04/23/92	41,000	20,000	3,700	500	3,900	9,600	<500
	08/03/92	Well	Properly Abandon	red	A.C			
NA 1 OF	A 4 4 4 10 5							
MW-8F	04/14/88	NA	<0.5	<1	<2	<1	NA	NA
::::::::::::::::::::::::::::::::::::::	09/28/89	<50	<0.5	<0.5	<0.5	<3.0	NA.	NA
	11/29/89	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	01/24/90	<100	<0.5	<0.5	<0.5	<0.5	NA	<300
	04/26/90 07/26/90	<50	<0.5	<0.5	<0.5	<0.5	< 50	110
	10/18/90	<50 <50	<0.5	<0.5	<0.5	_ <0.5	<50	<50
	01/08/91	<30	<0.5	<0.5	<0.5	<0.5	360	<50
	04/23/91	<50 <50	<0,3 5.9	< 0.3	<0.3	<0.3	380	620
	07/23/91	₹50	<0.5	3.1 0.8	<0.5 <0.5	2.7	1,400	3,200
141451140511403333333333333333333	10/24/91	<50	<0.5		en anna a chairte ann ann ann ann an an an an an an an an	<0.5	60	< 500
	01/23/92	<50	4.0	<0.5 1.3	<0.5	< 0.5	< 50	< 500
	04/30/92	<50	<0.5	<0.5	<0.5 <0,5	1.9	1,300	NA 4500
	09/28/92	<50	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<50	< 500
	11/19/92	< 5 0	<0.5	<0.5	<0.5		NA NA	NA NA
	02/12/93	₹50	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	NA 20 E	NA
	05/06/93	<50	<0.5	<0.5	<0.5	<0.5	<0.5 <100	NA ~EO
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5 <0.5	<50	<50
	10/12/93	<50	<0.5	<0.5	<0.5	<0.5	<50	<50 <50
	02/03/94	< 50	\0.5 <0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<50	<50 ≼ 50
		erene er		00.000.0000000 71.753.75 04.000000		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
MW-8G	04/14/88	NA	<0.5	<1	<2	<1	NA	NA
	09/28/89	<50	<0.5	<0.5	<0.5	<3.0	NA.	ŇĀ
CONCOUNT TO SELECT THE TAXABLE STATES	11/29/89	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	01/24/90	<100	<0.5	<0.5	<0.5	<0.5	NA.	650
en was was as a same of the control	04/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	120
	07/26/90	<50	<0.5	<0,5	<0.5	<0.5	< 50	< 50
	10/18/90	<50	<0.5	<0.5	<0.5	<0.5	460	<50
	01/08/91	<30	<0.3	<0.3	< 0.3	<0.3	220	260

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Other*)

Well	Date	TPH as Gasoline	Dannana	* - 1	Ethyl-		TPH as	TPH as
Number	Sampled	(ppb)	Benzene (ppb)	Toluene	benzene	Xylenes	Diesel	Other*
MW-8G	04/23/91	<u> </u>	(0.9 O.9	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)
(cont.)	07/23/91	₹50	0.5	0.9	<0.5	< 0.5	1,100	<500
	10/24/91	<50	0.6	1.5	<0.5	3.0	< 50	<500
	01/24/92	<50	<0.5	<0.5 <0.5	<0.5	<0.5	NA	NA
AN AN IN INMININATION CONTRACTOR SECURIORS	04/30/92	<50	1.7	<0.5 <0.5	<0.5	<0.5	980	NA
	09/28/92		ell Dry	~U.3	<0.5	<0.5	<50	< 500
en noor a recent oo a transper ye e y ce e gorgogi	11/19/92		I Inaccessible					
	02/12/93	Wa	II Inaccessible				(0.8 (0.8 (0.8 (0.8 (0.8 (0.8 (0.8 (0.8	
www.www	04/29/93	<50	<0.5	<0.5	<0.5	<0.5	64 *	
	08/16/93	<50	<0.5	<0.5	<0.5 <0.5	<0.5 ≼0.5	00/000 view version and an appropriate and a second	ANNO ANNO A ACCUSACIONO DO CAR
The second secon	10/12/93	<50	<0.5	<0.5	<0.5		<50 ∢50	<50
	02/03/94	₹ 50	≷0.5	<0.5 <0.5	<0.5	<0.5	<50	<50
	venera and a Victoria de Selection de la Selec		**************************************	· · · · · · · · · · · · · · · · · · ·		<0.5 _.	<50	<50
						(0000000000000000000000000000000000000		
MW-8H	01/24/90	460	14.8	14.8	10.8	38.8	NA	~200
	04/26/90	830	67	19	43	35.5 64	NA <50	<300
	07/26/90	190	45	1.3	12	8.2	<50 <50	820
	10/18/90	300	17	2.5	14	8.5	<50 <50	<50 <50
	01/08/91	320	12	2.2	6.4	4.0		
	04/23/91	<50	1.5	< 0.5	CONTRACTOR		180	89
	07/23/91	270	21	1.8	<0.5 9.7	<0.5	730	<500
	10/24/91	120	7,6	1.0	3.7 3.5	2.6	< 50	<500
	01/23/92	110	7.2	1.2	4.7	2.4	70	<500
	04/30/92	190	11	1.5	5.6	3.2	< 60	NA
- v v	09/28/92		Inaccessible	······································	0.0	3.6	90	<500
	11/19/92	130	6.8	<0.5				
	02/12/93	73	5.9	<0.5	1.1	1,5	NA	NA
	05/06/93	57	1.7	<0.5	0.8 <0.5	<0.5	NA	NA
	08/16/93	<50	0.5	<0.5 <0.5		<0.5	<100	<50
	10/12/93	₹50	<0.5	<0.5	0.5 < 0.5	1.4	<50	< 50
	02/03/94	<50	<0.5	<0.5		<0.5	< 50	< 50
			~0.3	\U. 5	<0.5	<0.5	<50	< 50
erece in a construction of the construction of			0 M 00 M					
MW-8I	01/24/90	580	115	7.0	and the second second second		NOVO STATE OF A STATE OF STATE	60000000000000000000000000000000000000
or a series and the series of	04/26/90	4,400	2,400	2,9	13	30.5	NA 150	440
	07/26/90		2,400 <0.5	100 < 0;5	230	350	<50	1,400
1 a na nama a sa	10/18/90	530	**************************************		<0.5	<0,5	<50	<50
	01/08/91	1,300	92 500	4.1	37	21	<50	<50
N2002000000000000000000000000000000000	04/23/91	1,500		4,3	36	26	710	210
	07/23/91	1,700	1,600 1,600	17 20	100	86	1,100	900
	10/25/91	760	1,600 470	30	140	63	260	< 500
	01/23/92	820	470 420	6.0	76	13	230	< 500
**************************************	04/30/92	2,200		7.2	27	20	210	.NA
	09/28/92		1,800 naccessible	19	180	25	430	<500
	11/19/92	720		4 4				
	02/12/93	720 4,000	120	1.1	29 4 2	13	NA	NA
	05/06/93	1,400	970 370	9.2	52 40	36	NA 1100	NA
465 HB 180 HB	08/16/93	1,400 <50	370	2.4	40	8.4	<100	<50
	10/12/93	<50 ≤50— <u> </u>	3.1 1.4	<0.5	5.6	<0.5	<50	<50
	02/03/94	1,000	1.4	< 0.5	<0.5	<0.5	<50	<50
	······································		<u>/</u> 270	3,2	51	14	<50	<50
	0.000			8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		6989 81988 888 888 88 88 88 88 8		20006000000000000000000000000000000000
MW-8J	01/24/90	<100	^ 7					
	04/26/90	160	2.7	<0.5	1	2.6	NA -	<300
4 # 6 C C C C C C C C C C C C C C C C C C	07/26/90		28	7.7	19	24	<50	320
	A SANCE AND ADDRESS OF A SANCE AND A CONTRACT OF THE CONTRACT	<50	< 0.5	<0.5	<0.5	<0.5	< 50	<50
	10/18/90	<50 71	8.3	<0.5	2.6	1.5	<50	<50
	01/08/91	71	0.41	< 0.3	< 0.3	0.52	<50	69

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Other*)

		TPH as			Ethyl-		TPH as	TPH as
Well	Date	Gasoline	Benzene	Toluene	benzene	Xylenes	Diesel	Other*
Number	Sampled	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)
MW-8J	04/23/91	300	16	2.2	9.3	4.6	550	<500
(cont.)	07/23/91	<50	4.6	<0.5	3.1	<0.5	<50	<500
	10/24/91	<50	0,8	<0.5	<0.5	<0.5	<50	<500
65 5 S. J.	01/23/92	<50	0.8	<0.5	<0.5	<0.5	< 50	NA
	04/30/92	<50	2.3	<0.5	<0.5	<0.5	< 50	<500
mana ana ana ana ana ana ana ana ana ana	09/28/92	Well	Inaccessible				***************************************	
	11/19/92	<50	<0,5	<0.5	<0.5	< 0.5	NA	NA
(C. 1011010 D. 201011 11.0000 1.0000	02/12/93	<50	<0.5	<0.5	< 0.5	< 0.5	NA	NA
	05/06/93	<50	< 0.5	<0.5	<0.5	<0.5	<100	<50
	08/16/93	< 50	<0.5	<0.5	<0.5	< 0.5	<50	< 50
	10/12/93	<50	<0,5	<0.5	< 0.5	<0.5	<50	< 50
0000000 di sama ana ara anni monazione.	02/03/94	<50	<0.5	<0.5	< 0.5	< 0.5	<50	< 50
	###### <u>###############################</u>	Siddiffusioner version and the constraints	Walka waka kana kana kana kana ka		ZANAL WANGE			
MM-8K	05/21/93	54	12	≺ 0.5	<0.5	<0.5	<50	<50
	08/16/93	<50	<0.5	<0.5	1	<0.5	< 50	< 50
	10/24/93	<50	4,2	<0,5	<0.5	<0.5	<50	<50
98.9899 Y 178.8903 WAX A MARAMA	02/03/94	<50	<0.5	<0.5	<0.5	<0.5	< 50	<50
MW-8L	05/21/93		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	95.000 550 H 4 H 0 0 1 (200 pp. 200 pp	200140444466666-65-66666-668-688	55550, 555555500 - esperant na revenue		
WW	08/16/93	76	1.1	< 0.5	<0.5	6	<50	<50
\$70.000.000.000.000.000.000	STATES AND THE CONTRACTOR AND A CONTRACTOR OF THE CONTRACTOR OF TH	<50	<0.5	<0.5	0.7	1.1	<50	<50
	10/12/93	110	13	<0.5	6.2	<0.5	<50	<50
	02/03/94	(590)	<i>う</i> 61	2.4	<0.5	110	<50	<50
OB-3	11/06/89	4.000		8	00000000000000000000000000000000000000		: 00: 10:00:00:00:00:00:00:00:00:00:00:00:00:0	: ::::::::::::::::::::::::::::::::::::
	04/26/90	1,000	420 160		6	64	NA	NA.
	07/26/90	68	160	19	5	8.6	3,200	<50
50. 00000000000000000000000000000000000	10/18/90	3,200	<0,5	<0,5	<0.5	0.9	1,200	<50
	(10/10/30		260 Abandoned	69	35	490	2,100	<50
00 (00 00 00 00 00 00 00 00 00 00 00 00		well.	wandoved					
OB-4	11/06/89	4,000	500	11	10	24	NA	
	04/26/90	460	360	10	10			NA 150
	07/26/90	200	23	3.7	1,6	18 = 6	3,900	< 50
o v novem constructiva del del constructiva del constructiva del constructiva del constructiva del constructiva	10/18/90	4,300	23 600			5.9	1,600	<50
	e Necessia de la companya de la comp		Abandoned	540	83	840	330	< 50

ppb = Parts per billion

ppm = Parts per million

NA = Not analyzed

^{* =} Includes "heavy" petroleum hydrocarbons such as waste oil, mineral spirits, jet fuel, or fuel oil.

^{** =} Non-diesel mix > C16; The certified analytical report for sample MW-8G was revised on 10/21/93.



5011 Blum Road, Suite 1 • Martinez, CA 94553 Phone (510) 372-3700 • Fax (510) 372-6955

624880235\1718\013297

Texaco Environmental Services 108 Cutting Blvd.

Richmond, CA 94804

Attn: Rebecca Digerness

Environmental Technician

Date Sampled: 02-03-94 Date Received: 02-04-94

Date Analyzed: 02-15-94

Sample Number

024072

Sample Description

Texaco - Oakland 500 Grand Ave.

MW-8F WATER

ANALYSIS _____

	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	. 0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

QA/QC: Spike Recovery is 93%

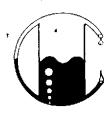
Note:

Analysis was performed using EPA methods 5030 and TPH

LUFT with method 602 used for BTX distinction.

 $(ppb) = (\mu g/L)$

MOBILE CHEM LABS



5011 Blum Road, Suite 1 • Martinez, CA 94553 Phone (510) 372-3700 • Fax (510) 372-6955

624880235\1718\013297

Texaco Environmental Services

108 Cutting Blvd. Richmond, CA 94804

Attn: Rebecca Digerness

Environmental Technician

Date Sampled: 02-03-94

Date Received: 02-04-94

Date Analyzed: 02-15-94

Sample Number

024073

Sample Description

Texaco - Oakland

500 Grand Ave.

MW-8G WATER

ANALYSIS

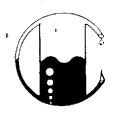
	Detection Limit	Sample Results
	ppb	 ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note:

Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.

 $(ppb) = (\mu g/L)$

MOBILE CHEM LABS



5011 Blum Road, Suite 1 • Martinez, CA 94553 Phone (510) 372-3700 • Fax (510) 372-6955

624880235\1718\013297

Texaco Environmental Services 108 Cutting Blvd.

Richmond, CA 94804 Attn: Rebecca Digerness

Environmental Technician

Date Sampled: 02-03-94 Date Received: 02-04-94

Date Analyzed: 02-15-94

Sample Number
----024074

Sample Description

Texaco - Oakland 500 Grand Ave.

MW-8H

WATER

ANALYSIS

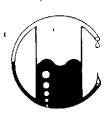
	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note:

Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.

 $(ppb) = (\mu g/L)$

MOBILE CHEM LABS



5011 Blum Road, Suite 1 • Martinez, CA 94553 Phone (510) 372-3700 • Fax (510) 372-6955

624880235\1718\013297

Texaco Environmental Services 108 Cutting Blvd.

Richmond, CA 94804 Attn: Rebecca Digerness

Environmental Technician

Date Sampled: 02-03-94 Date Received: 02-04-94

Date Analyzed: 02-15-94

Sample Number

024075

Sample Description

Texaco - Oakland

500 Grand Ave. I8-WM WATER

A	N	A	L	Y	S	1	S
					_		

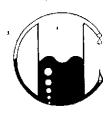
	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	1,000
Benzene	. 0.5	270
Toluene	0.5	3.2
Xylenes	0.5	14
Ethylbenzene	0.5	51

Note:

Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.

 $(ppb) = (\mu g/L)$

MOBILE CHEM LABS



5011 Blum Road, Suite 1 • Martinez, CA 94553 Phone (510) 372-3700 • Fax (510) 372-6955

624880235\1718\013297

Texaco Environmental Services 108 Cutting Blvd.

Richmond, CA 94804 Attn: Rebecca Digerness

Environmental Technician

Date Sampled: 02-03-94

Date Received: 02-04-94

Date Analyzed: 02-15-94

Sample Number

024076

Sample Description

Texaco - Oakland

500 Grand Ave.

U8-WM WATER

ANALYSIS _____

	Detection Limit	Sample Results
	ppb 50 0.5 0.5	ppb
Total Petroleum Hydrocarbons as Gasoline		<50
Benzene	. 0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note:

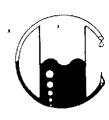
Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.

 $(ppb) = (\mu g/L)$

MOBILE CHEM LABS

Ronald G. Evans

Lab Director



5011 Blum Road, Suite 1 • Martinez, CA 94553 Phone (510) 372-3700 • Fax (510) 372-6955

624880235\1718\013297

Texaco Environmental Services 108 Cutting Blvd.

Richmond, CA 94804

Attn: Rebecca Digerness

Environmental Technician

Date Sampled: 02-03-94 Date Received: 02-04-94

Date Analyzed: 02-15-94

Sample Number

024077

Sample Description

Texaco - Oakland

500 Grand Ave.

MW-8K WATER

ANALYSIS

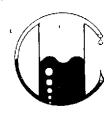
	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	. 0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note:

Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.

 $(ppb) = (\mu g/L)$

MOBILE CHEM LABS



5011 Blum Road, Suite 1 • Martinez, CA 94553 Phone (510) 372-3700 • Fax (510) 372-6955

624880235\1718\013297

Texaco Environmental Services 108 Cutting Blvd. Richmond, CA 94804

Attn: Rebecca Digerness

Environmental Technician

Date Sampled: 02-03-94 Date Received: 02-04-94

Date Analyzed: 02-15-94

Sample Number

024078

Sample Description

Texaco - Oakland 500 Grand Ave.

MW-8L WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	.590
Benzene	. 0.5	61
Toluene	0.5	2.4
Xylenes	0.5	110
Ethylbenzene	0.5	<0.5

Note:

Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.

 $(ppb) = (\mu g/L)$

MOBILE CHEM LABS

Ronald G. Evans

Lab Director



5011 Blum Road, Suite 1 • Martinez, CA 94553 Phone (510) 372-3700 • Fax (510) 372-6955

624880235\1718\013297

Texaco Environmental Services 108 Cutting Blvd. Richmond, CA 94804

Attn: Rebecca Digerness

Environmental Technician

Date Sampled: 02-03-94

Date Received: 02-04-94

Date Analyzed: 02-15-94

Sample Number

024079

Sample Description

Texaco - Oakland 500 Grand Ave.

E.B. W

WATER

ANALYSIS

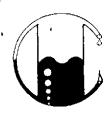
	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note:

Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.

 $(ppb) = (\mu g/L)$

MOBILE CHEM LABS



5011 Blum Road, Suite 1 • Martinez, CA 94553 Phone (510) 372-3700 • Fax (510) 372-6955

624880235\1718\013297

Texaco Environmental Services 108 Cutting Blvd.

Richmond, CA 94804

Attn: Rebecca Digerness

Environmental Technician

Date Sampled: 02-03-94

Date Received: 02-04-94

Date Analyzed: 02-15-94

Sample Number

024080

Sample Description

Texaco - Oakland

500 Grand Ave.

T.B.

WATER

ANALYSIS _____

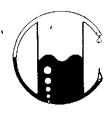
	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	.<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note:

Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.

 $(ppb) = (\mu g/L)$

MOBILE CHEM LABS



5011 Blum Road, Suite 1 • Martinez, CA 94553 Phone (510) 372-3700 • Fax (510) 372-6955

624880235\1428\013297

Texaco Environmental Services

108 Cutting Blvd.

Richmond, ČA 94804 Attn: Rebecca Digerness

Environmental Technician

Date Sampled: 02-03-94 Date Received: 02-04-94

Date Analyzed: 02-09-94

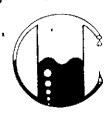
Sample Number	Sample Description	Detection Limit	WATER Total Petroleum Hydrocarbons as Diesel
		ppb	ppb .
	50	exaco - Oakland 00 Grand Avenue coject No.: 624	880235
024072	MW-8F	50	<50
024073	MW-8G	50	<50
024074	MW-8H	50	<50
024075	I8-WM	50	<50
024076	WM-8J	50	. <50
024077	MW-8K	50	<50
024078	MW-8L	50	<50
024079	E.B.	50	<50

QA/QC: Spike Recovery on 024073 is 81% Duplicate Deviation on 024073 is 3.4%

Analysis was performed using EPA method 3510 and TPH LUFT. Note:

 $(ppb) = (\mu q/L)$

MOBILE CHEM LABS



5011 Blum Road, Suite 1 • Martinez, CA 94553 Phone (510) 372-3700 • Fax (510) 372-6955

624880235\1223\013297

Texaco Environmental Services

108 Cutting Blvd.

Richmond, CA 94804 Attn: Rebecca Digerness

Environmental Technician

Date Sampled: 02-03-94

Date Received: 02-04-94

Date Analyzed: 02-15-94

Sample Number	Sample Description	Detection Limit	WATER Gravimetric Waste Oil as Petroleum Oil
		ppm	ppm
			•
	Tex	oject # 624880235 kaco - Oakland Grand Ave.	

		aa	
024072	MW-8F	50	<50
024073	MW-8G	50	<50
024074	H8-WM	50	<50
024075	MW-8I	50	<50
024076	MW-8J	50	<50
024077	MW-8K	50	<50
024078	MW-8L	50	<50
024079	E.B.	50	<50

QA/QC: Spike Recovery on 024072 is 92%

Duplicate Deviation on 024072 is 1.1%

Note: Analysis was performed using EPA extraction method 3550

with Trichlorotrifluoroethane as solvent, and gravimetric

determination by standard methods 5520

(ppm) = (mq/L)

MOBILE CHEM LABS

BLAINE	985 TIMOTHY D SAN JOSE, CA 9		C	ONDU	CT ANAL	YSIS TO DE	TECT	LAB Mobile Ch	om Inhomet		,DHS#
TECH SERVICES INC.	(408) 995- FAX (408) 293-								T MEET SPECIF		DETECTION LIMITS
CHAIN OF CUSTODY 940203-11 CLIENT		- Se		~				□ EPA □ LIA □ OTHER		∏RWQ¢	CB REGION
Texaco Environmenta SITE Location # 6248 SOO GRAND AVE OAKLAND CA MAT	380235	₩POSITE ALL C	PHC, BTEX	۱۱	VASIE OIL			SPECIAL INSTRUCT	Report Texaco 108 Cu Richmo Attn:	& Invoice Environmenting Blv nd, CA 94 Rebecca D 36-3541	nental Service vd. 1804
SAMPLE I.D. TIME DATE 03			1	<u> </u>	>			ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-8F 1245 2/3 W	14 1		X	X >	(AS CONTRACTE		
MW-86 1310 1 W	14		X	X }	(-		
MW-8H 1105 W	4		X	χ,	(
MW-8I 1135 W	14		X	χ̈́	(
MW-85 1025 N	14		X	X >	<u> </u>						
MW 8K 1205 N			X	χŻ							
MW-BL 1235 W	4		X	XX	(
E.B. 1250 W	15		X	x >	(1	
T.B. XV	v 2 Y		X		1				V		
SAMPLING DATE TIME SAMPER 2/3/94 1310	IPLING FORMED BY	ADE	30	VE	R	<u> </u>	<u> </u>	RESULTS NEEDED NO LATER THAN			
RELEASED BY	1	DATE 2-4-9	! 7	IME	~	RECEIVE	D BY	Levie,		DATE 2-4-04	TIME 1.43
RELEASED BY		DATE		IME		RECEIVE	D BY	/ CUINCY	· · · · · · · · · · · · · · · · · · ·	DATE	TIME
RELEASED BY		DATE	Т	IME		RECEIVE				DATE	TIME
SHIPPED VIA		DATE SEN	ТТ	IME SE	NT	COOLER#		ON IC	€ N. h	and 54	Part

and this .

WELL GAUGING DATA

Project # 940203-LI Date 2/3/94 Client 624880235

	Well I.D.	Well Size (in.)	Sheen/ Odor	Depth to Immiscible Liquid (feet)	OAKLAW Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed	Depth to Water (feet)	Depth to Well Bottom (feet)	Survey Point TOB or TOC
	MW-8F	4					9,29	14.50	TOC
	MW-86	4					9,69	14.47	
	MW-8H	4	ļ	ļ 			3.71	14,83	
	MW OI	4				V 12	5.84	14,58	
	MW-85	4					5,98	14.76	
*	MW BK	2					1.	17,40	
}	MW-81	2						18,92	1
] 						
						. ,			
		in the							

(MW-BKTMW-BL) ** ALLOW TIME FOR WATER LEVEL TO EQUILIBRIATE

Project	i. A # ==	- (3	CU	ent · research				
	#: 9402	203		Client: TEXACO ENVIRONMENTAL SERVICES				
Sampler:	LAD			e Sampled:	2/3/99	f		
Well I.D	··· MW-	8F	Kel	1 Diameter: (•	<u> </u>		
Total We	11 Depth:		Dep	th to Water:	TIME: 12.			
Before /	4.50 A	fter	3ef	ore 9,29	After /2	2.84		
Depth to	Free Produ	ct:	Thi	ckness of Fre	e Product (feet):		
Measurem	ents refere	nced to:	(PVC)	Grade	Other			
√ot ≠ ⇒here of of	Volume Graversian Forder (VCF):							
3, 1 Case	4. Volume	_ x	3 Specified V	<u>ol∵-</u> es =	gallons	10,2		
Purging:	Purging: Bailer [] Sampling: Bailer Middleburg [] Middleburg [] Middleburg [] Blectric Submersible [] Suction Rump [] Suction Rump [] Installed Rump []							
TIVE	TIVE.	PH	сскэ.	TURBIDITY:	SEMONED:	OBSERVATIONS:		
928	56.4	7.0	2200,	31,	4.			
	DEWA	TER	ED AT	4. GAL	,			
1240	RETURN	IED T	D SAMPA	E DIW	AT 12.	84		
1242	58.0	7.1	1400.	42,				
·•								
Did Well Dewater? VES If yes, gals. 4. Gallons Actually Evacuated: 4.								
Sampling Time: 1245								
Sample I.D.: MW-8F Laboratory: MOBILE CHEM								
Analyzed for: TPHG, BTEX, TPHD, WASTE OIL								
Duplicate I.D.: Cleaning Blank I.D.:								
Analyzed for:								
wellhead maintenance performed: NEW LOCK + 4" CAP								
Additional Notations:								

Project #: 940203-L1 Client: TEXACO ENVIRO						ONMENTAL	
Sampler:				Date Sampled: 2/3/94			
Well I.D	·· MW-E	36	Wel	l Diameter: (circle one)	2 3 6 6	
Total We	ll Depth:		Dep	th to Water:	TIME: 13	300	
Before //	4,47 A	fter	_	ore 9,69			
Depth to	Free Produ	ct:	Thi	ckness of Fre			
Measurem	ents refere	nced to:	EVO	Grade	Other		
√12 ± →2-cr+ 12 + 2- 2- 2-	version Factor (VCF): (4 ² /4) = n) /221 in/feet clameter (in.) 5.1416 in./feet		2° = 0.1 3° = 0.2 4° = 2.4 6° = 1.4 10° = 4.0	Vell cis. VCP 2° = 0.16 3° = 0.27 5° = 0.48 6° = 1.47 10° = 4.08 12° = 8.67			
-3	. í		3		9	(3	
1 Case	Volume	_ × .	Specified Vo	olumes =	gallons		
Purging: Bailer Middleburg Electric Submersible Suction Pump Type of Installed Pump Sampling: Bailer Middleburg Electric Submersible Suction Pump Installed Pump						urg C C Submersible C Pump C	
TIME	TEMP.	рн	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:	
936	56.8	7.1	2700.	82-	4		
940	56,2	7.0	26001	70.	7.		
	DEWA:	TERE	D AT	7, GAL.			
1300	RETURI	IED 7	O SAMPA	E DTW.	AT 13,1	4'	
1303	57.5	7.1	2000.	69.			
Pid Wall Powdows (a STS was a size of a state of a stat							
Did Well Dewater? If yes, gals. 7 Gallons Actually Evacuated: 7 Sampling Time: 1210							
Sample I.D.: MW-86 Laboratory: MOBILE CHEM							
Analyzed for: TPH6, BTEX, TPHD, WASTE OIL							
Duplicate I.D.: Cleaning Blank I.D.: EB AT 1250							
Analyzed for: AFTER MW-8F							
Shipping Notations:							
Additional Notations: NEW LOCK							

,							
Project #: 940203-L/ Client: TEXACO ENVIRONMENTAL SERVICES							
Sampler:	LAD		Dat	e Sampled:	2/3/9	14	
Well I.D	.: MW-	8H	ne1	l Diameter: (circle one)	2 3 6 6	
Total We	11 Depth:		Dep	th to Water:			
Ì	4,83 A	fter	_	ore 3,71	After		
Depth to	Free Produ	ct:	rhi	ckness of Fie	e Product (feet):	
Measurem	ents refere	nced to:	(PVC)	Grade	Other		
Volume Groversian Fester (Ver): (12 * (c^2/s) * e)/124							
7, 1 Case	<u> </u>	, × _	3 Specified V	olumes =	Z] gallons	,6	
Purging:	Furging: Bailer G Sampling: Bailer Middleburg G Middleburg G Blectric Submersible G Suction Fump G Suction Fump G Installed Fump G						
TIKE	TEX⊋. (E)	рH	сохэ.	TURBIDITY:	YOLUKE REMOVED:	OBSERVATIONS:	
1047	60.4	7,2	900,	8.	8,		
1049	60,4	7.3	900,	5,	16.		
1058	62,4	7,3	900,	18.	22,		
							
•							
Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 22,							
Sampling	Time: //C	75		•			
Sample I.D.: MW-BH Laboratory: MOBILE CHEM							
Analyzed for: TPHG, BTEX, TPHD, WASTE OIL							
Duplicate I.D.: Cleaning Blank I.D.:							
Analyzed	for:	·	•				
wellhead	maintenance			· · · · · · · · · · · · · · · · · · ·		/_	
Additional Notations: SLOW RECHARGE							

1								
Project	#: 940:	203-	LI Cli	ent: TEXACO	ENVIRONMEN	ITAL SERVICES		
Sampler:	LAD		Dat	e Sಮ್ಲಾled:	2/3/94			
Well I.D.: MW-8I Well Diameter: (circle one) 2 3 6								
i	11 Depth:	·	⊃ep	th to Water:		•		
Before	4,58 4	fter	Sef	ore 5,84	After			
Depth to	Free Produ	ct:	Thi	ckness of Fre	e Product (feet):		
Measurem	ents refere	nced to:	EVC	Grade	Other			
€12 + ₩5474 12 - €	nversing france (VCF); (c ² /s) = n ³ /fill c in first = climate (in.) = 2.7664		27 + 6, 27 + 6, 37 + 6, 47 + 1, 47 + 1, 147 + 6, 247 + 1,6			•		
5, 1 Case	7.	_ × _	3 Specified Vo	olumes =	gallons	7.1		
Purging:	Purging: Bailer Middleburg Electric Submersible Suction Fump Type of Installed Fump Installed Fump Installed Fump Installed Fump Installed Fump Installed Fump Installed							
. TIYI	TEVP.	p# 	сокъ.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:		
1118	61.8	7.2	950,	10,	6,			
1120	61.8	7,2	950	5,	12.			
1130	61,2	7,2	900,	6.	181			
··.								
Did Well	Dewater? N	7 If Yes	, gals.	Gallons A	ctually Eva	cuated: 18,		
Sampling	- 1	•			-			
Sample I.	D.: MW	1-8 I	Labo	zetory: Mol	311E CH	tEM		
Analyzed for: TPHG BTEX, TPHD, WASTE OIL								
Duplicate	I.D.:		Clez	ning Blank I.	D.:			
Analyzed for:								
wellhead maintenance performed: Slow RECHARGE								
Additiona	1 Notations	:		•				

Project #: 940203-L1 Client: TEXACO ENVIRONMENTAL SERVICES								
Sampler: LAD Date Sampled: 2/3/94								
Well I.D.: MW-85 Well Diameter: (circle one) 2 3 4 6								
Total We	11 Depth:		Dep	th to Water:		,		
ŀ	14.76 A	fter	-	ore 5,98	After			
Depth to	Free Produ	ct:	Thi	ckness of Fre	e Product (feet):		
Measurem	ents refere	nced to:	©	Grade	Other			
√12 - ~2+ra 12 - 4 5	Volume Gaversian Foster (Next):							
5. 1 Case	7 Volume	_ x _	3 Specified Vo	olumes =	gallons	17, i		
Purging: Bailer Middleburg Electric Submersible Suction Fump Type of Installed Fump Installed Fump Middleburg Middleburg Electric Submersible Suction Fump Installed Fump Installed Fump Installed Fump Installed Fump Installed Fump Installed Fump Installed Fump Installed Fump Installed Fump Installed								
TIVE	TEVP. (F)	рH	ÇOND.	TURBIDITY:	SEHONED: AOTOMS	OBSERVATIONS:		
1005	61.6	7.2	950.	22,	6.			
1007	62.4	7.2	950,	31,	12,			
1020	63.6	7,3	900,	40,	18.			
Did Well	Dewater?	O If yes	, gals.	Gallons)	ctually Ev	ecuated: 18,		
Sempling	Time: 10	25		•				
Sample I.	Sample I.D.: MW-8 T Laboratory: MOBILE CHEM							
Analyzed	for: TP	H6, E	STEX, T	PHD, W	•			
Duplicate	Duplicate I.D.: Cleaning Blank I.D.:							
Analyzed for:								
wellhead maintenance performed:								
Additional Notations: SLOW RECHARGE								

Project	#: 940	203.	-LI Cli	ent: TEXACO	ENVIRONMEN	TAL SERVICES		
Sampler: LAD Date Sampled: 2/3/94								
Well I.D	Well I.D.: MW-8K Well Diameter: (circle one) 23 4 6							
Total We	Total Well Depth: Depth to Water:							
Before /	Before 17,40 After Before 1,48 After							
Depth to	Depth to Free Product: Thickness of Free Product (feet):							
Measurem	ents refere	nced to:	<u> Evo</u>	Grade	Other			
(12 + →2.cre 12 + 4	eversion factor (VCF); (c ² /s) = n)/iiii = fa/fast = chinatur (fa.) = iii/isi = iii/isi		**************************************	27 us cd cd				
2,	5	×	3		7,	5		
	Volume	- ^ -	Specified V	olumes =	gallons			
Purging:	Furging: Bailer * BT > DEDICATED Sampling: Bailer * BT > DED Middleburg 0 Middleburg 0 Section Fump 0 Suction Fump 0 Suction Fump 0 Installed Fump 0							
TIYE	75V2. (F)	рĦ	çохэ. 	TURBIDITY:	KEROVED:	OBSERVATIONS:		
1150	53.6	7.3	950,	>2001	3,			
1155	53.4	7,3	950,	7200,	5,			
1200	53.0	7.4	950,	7200,	81			
					•			
<u>. </u>								
Did Well	Dewater? N	O It Aea	, gala.	Gallons A	ctually Eva	cuated: 8		
Sampling	Time: 12	05		•				
Sample I.	Sample I.D.: MW-8K Laboratory: MOBILE CHEM							
Analyzed for: TPH6, BTEX, TPHD, WASTE OIL								
Duplicate I.D.: Cleaning Blank I.D.:								
Analyzed	for:	•	·					
wellhead	wellhead maintenance performed:							
Additional Notations:								

Project #: 940203-L Client: TEXACO ENVIRONMENTAL SERVICES .									
Sampler: LAD Date Sampled: 2/3/94									
Well I.D.: MW-8L Well Diameter: (circle one) 2 3 4 6									
Total Well Depth: Depth to Water:									
Before	Before 18,92 After Before 2,82 After								
Depth to Free Product: Thickness of Free Product (feet):									
Measurements referenced to: EVC Grade Other									
	Volume Graversia Foder (VCF);								
	2.6	_ × _	3			7.8			
1 Case	Volume		Specified V	olumes =	gallons				
Purging:	Purging: Eailer X BTS DEDICATED Middleburg 0 Electric Submersible 0 Suction Fump 0 Type of Installed Fump 1 Installed Fump 0								
, TLYE	TEVP.	pH 	сскэ.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:			
1218	53,4	7,2	950,	7200,	3.				
1223	54.2	7.2	950,	72001	6.				
1228	54.2	7.1	950,	7200,	8.				
•									
					<u> </u>				
Did Well	Dewater?//) If Asa	, gals.	Gallons A	ctually Eve	cuated: 8			
Sampling Time: 1235									
Sample I.D.: MW-8L Laboratory: MOBILE CHEM									
Analyzed for: TPH6, BTEX, TPHD, WASE OIL									
Duplicate I.D.: Cleaning Blank I.D.:									
Analyzed	Analyzed for:								
wellhead maintenance performed:									
Additional Notations:									

SOURCE RECORD BILL OF LADING

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT TEXACO FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGEWATER WHICH HAS BEEN RECOVERED FROM GROUNDWATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED TO THE DESTINATION DESIGNATED BY TEXACO ENVIRONMENTAL SERVICES (TES).

The contractor performing this work is BLAINE TECH SERVICES, INC., 985 Timothy Drive, San Jose, CA 95133 (phone [408] 995-5535). Blaine Tech Services, Inc. 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 indicated 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 direct 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 to the designated destination point 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 # 62488 0235
STOC GRAND AVE, OAKLAND, CA
street number street name city state

WELL I.D. GALS.	WELL I.D. GALS.
MW-8A	
MW-8L, 85.	
added equip. rinse water / 10 ‹	any other adjustments <u>/</u>
TOTAL GALS. 95	loaded onto BTS vehicle #
BTS event # 940203-L1 signature 7.11301	time date 1025 21394

REC'D AT B-TS	time date 1800 2 3 94
unloaded by signature	

BLAINE TECH SERVICES, INC. A SUMMARY OF FIELD PROCEDURES AND PROTOCOLS

WELL GAUGING (MONITORING)

All field notations are made on preprinted field data collection forms which are supplied to our personnel in a field notebook specific to each assignment at each site. All notations are contemporaneous and completed field notebooks (which we call Sampling Event Folders) are turned in daily and reviewed by our office personnel.

Water-level information is obtained from groundwater monitoring wells either as a preliminary step before evacuation or as a separate activity which is performed on wells that will not be sampled. In cases where none of the wells at the site are scheduled to be evacuated and sampled, the gauging of the wells for the purpose of collecting water-level information is conducted during a designated gauging event.

Wells should be gauged in Clean-to-Dirty Order.

Well gauging instruments and devices are cleaned after each use and before use in the next well. Well gauging is performed prior to well evacuation and sampling.

Well gauging is to be completed in as short a time period as possible.

Normal gauging activities include the following Wellhead Maintenance checks:

- 1. Is there a lid on the grade level utility box that encloses the wellhead? Yes/No
- 2. Is the lid whole or damaged? Okay/Cracked/Chipped/Broken
- 3. Is the lid secured in the intended manner? Yes/No/Loose/Missing bolts
- 4. Is the lid equipped with a seal? Yes/No/Damaged
- 5. Is there water standing in the utility box? Yes/No
- 6. Water stood in what relationship to the top of the well? Above/Below/Even with the top
- 7. Is there a cap or plug in the well, itself? Yes/No (Cap/Plug)
- 8. Is there a lock to secure the cap or plug? Yes/No
- 9. Is the lock closed so as to secure the well? Yes/No
- 10. Is the lock functional? Yes/No
- 11. Is the cap or lid on the wellhead capable of sealing out water? Yes/No seal is possible
- 12. Is the cap or plug sealing tightly? Yes/No/Can be pulled loose

The foregoing 12 checks are drawn from our more extensive Wellhead Survey Forms. They will be included in the next revision of the Sampling Event Field Folder forms.

Well gauging includes the following measurements:

- 1. Depth to Water (DTW)
- 2. Total Depth (TD)
- 3. Odor and Sheen (O&S),
- 4. Separate Phase Hydrocarbon (SPH) thickness (to the nearest 0.01').

Depth to Water measurements are referenced to the surveyed elevation of the wellhead to calculate the elevation of the groundwater in each well (for groundwater gradient mapping). Depth to Water and Total Depth measurements are used in calculating the volume of the water column standing in the wellcase (for evacuation calculation). Odor, sheen and Separate Phase Hydrocarbon thickness are used in evaluating whether or not the well meets standards set by the client that determine when a well should be evacuated and sampled and when that well should not be evacuated and sampled.

EVACUATING GROUNDWATER WELLS

Wells are selected for evacuation and sampling in Clean-to-Dirty order.

Blaine Tech Services, Inc. field personnel select well evacuation devices based on efficiency. They can select from the following:

- 1. Bailers. Teflon and stainless steel are the only materials used in Blaine Tech Services bailers. Our shop fabricates stainless steel bailers in any size we need. Typical bailers are hand operated, but we have hydraulic booms and high speed winches to handle the larger versions.
- 2. Pneumatic purge pumps. These evolved from the USGS/Middleburg bladder type sampling pumps which we began using in 1982. We retain the Teflon air pressure and water discharge hoses, but have modified the pump to increase efficiency and allow more certain cleaning than was possible with the original design. These pumps are ideal for certain types of wells and turbidity control situations.
- 3. Variable speed electric submersible pump. This 2" Grundfos pump has become an accepted tool of the environmental industry in recent years. Despite claims to the contrary, we do not see it as a suitable sampling pump (except in dedicated applications) and use it only as a well evacuation device.
- 4. Fixed speed electric submersible pumps. These 3" and 4" pumps (made by Grundfos and others) are also useful evacuation tools where the well depth or volume of water needing to be removed warrants their use.
- 5. Suction pumps. Grade level pneumatic diaphragm pumps (and similar devices) can be used to evacuate shallow wells when the proper type of hose and footvalves are assembled.

Normal field instrument readings are taken during the evacuation process. These include pH, temperature and electrical conductivity (EC) readings taken within each case volume of groundwater removed and at least one final set of readings taken just prior to sampling. The volume of water evacuated from the well is typically three case volumes and whatever additional volume is needed to achieve stable parameters.

We routinely remove four case volumes of water in those jurisdictions where the regulatory agency requests this level of purging. Our personnel are also equipped to take turbidity readings

and adjust our evacuation protocol to conform to regulatory standards for achieving specific NTU levels prior to collecting samples.

Wells that dewater are handled according to the protocol specified by each client. In most cases this is based on 80% recovery of the original water column or an evaluation of the volume of water that recharges into the well within a period not greater than 24 hours. In view of the volatile constituents being sought, most clients and their consultants are willing to have samples collected from whatever volume of water has recharged into a dewatered well by the end of the day or the end of the work being performed by our personnel at that particular site.

Instruments are calibrated daily and calibration logs are maintained at our office. In addition, each vehicle has calibration fluids on board so that pH and EC meters can be recalibrated in the field. Parameter readings are recorded (along with case volume calculations and other important information) on the preprinted Well Data sheet. Effluent water from the evacuation process is contained and transported in tanks on the sampling vehicle or in tanks on one of our water hauling trailers.

SAMPLE COLLECTION

Blaine Tech Services, Inc. several years ago standardized its sample collection procedures. With few exceptions, all groundwater samples are taken with a bailer. We have a large number of stainless steel and/or Teflon bailers. Specialized bailers are used to perform field filtration of water that will receive metals analyses and other bailers can be rigged as flow-through devices which are attached to the evacuation pump so that the entire volume of evacuated water moves through the bailer which then collects the final volume when the evacuation pump is turned off. Normal sampling is simple and straightforward. It involves removing the evacuation device from the well and promptly collecting water in a stainless steel sampling bailer which is lowered into the well and retracted with a disposable cotton line.

Typically, sample bottles appropriate to the intended analyses are supplied by the laboratory along with prepared trip blanks and a volume of organic free water sufficient to take any equipment rinsate blanks and/or field blanks that have been requested. These sample bottles are filled in accordance with EPA requirements as specified in the SW-846 and the T.E.G.D. Our personnel verify the correct composition of the sample set by referring to the Scope of Work statement provided by our office, and authorized by the client or client's consultant. In addition to notations required by the client, our personnel complete the preprinted Well Data Sheet, the multi-part Chain of Custody form and the blank portions of our computer generated sample bottle labels (time, date and sampler's initials). The samples are placed in an ice chest for storage and transport to the laboratory. We comply with regulatory agency specifications for both temperature and the material by which temperature is achieved and maintained. (e.g. Southern Alameda County Water District requires the use of ice rather than frozen blocks of ice substitutes such as Blue Ice and Super Ice.) Strict adherence to Chain of Custody requirements is maintained.

DECONTAMINATION

Blaine Tech Services, Inc. field personnel are trained and equipped to decontaminate all the devices which have been used to inspect, measure, evacuate and sample each well before moving on to the next well. All apparatus is brought to the site in clean and serviceable condition. It is then thoroughly cleaned after each every use.

Our QA program includes spot audits of our field personnel while they are working at a client's site and the collection of various blanks which are in-addition-to and outside of the normal project QA measures and therefore analyzed at our expense.

All vehicles used for petroleum sites are equipped with steam cleaners which we have had the supplier detune to function as **hot pressure washers**. After modification these units produce a high pressure jet of very hot water which retains its heat better than jets of steam which start off hotter but cool very quickly. (Steam cools so rapidly that it falls to the same temperature as hot water only 8" out from the nozzel and is far cooler than hot water thereafter.) These hot pressure washer units are supplied with deionized water from an onboard tank. (Deionized water is very hard on the steel components of our steam cleaners, but using it increases our cleaning efficiency.) Hot deionized water from the steam cleaner is supplemented with scrub brushes, soak tanks, and the application of aqueous cleaners which we test and evaluate. We do not use solvents or petroleum products as cleaning agents.

All effluent liquids are captured and retained. The effluent from all on site decontamination procedures is classified the same as the evacuated water from the well in which that equipment was used.

In most cases this means that the effluent from the cleaning of pumps and bailers will be classified as a non-hazardous effluent material which we will be able to transport away from the site as a non-hazardous material. (See Water Hauling below.) In those few cases where the concentration of fuel hydrocarbons in the groundwater causes the well's effluent water to be classified as a hazardous material, we will treat the effluent from our on site cleaning the same way and contain that effluent material along with the well effluent for proper on site storage, transport and disposal. (See Free Product Bailing & Transportation below).

NON-HAZARDOUS PURGEWATER HAULING

Blaine Tech Services, Inc. has evolved a paperwork tracking system for hauling non-hazardous purge water that uses two Bill of Ladings.

The effluent from wells which can be classified as non-hazardous is collected in onboard storage tanks and recorded on a Source Record Bill of Lading by our personnel as they collect effluent in the course of doing their work in the field. The small additional volume of water that is used to clean the evacuation and sampling equipment is added to the onboard non-hazardous effluent tank and recorded on the Source Record Bill of Lading. Each vehicle creates a Source Record Bill of Lading to cover all the non-hazardous purgewater hauled away from any Texaco site. If three

vehicles work on the same site each will have a Source Record Bill of Lading to cover the water being hauled away from that site by that vehicle. If a vehicle collects water from more than one Texaco site, it will have a Source Record Bill of Lading to cover the water obtained at each Texaco site. The Source Record Bill of Ladings covers the legal transport of non-hazardous purgewater and related effluent from one Texaco site to the Blaine Tech Services, Inc. facility in San Jose, California. There the water is offloaded from the individual sampling vehicles into a storage tank dedicated exclusively to non-hazardous purgewater from Texaco sites.

When a sufficient volume of Texaco purgewater has been collected in the Texaco storage tank to make up an efficient load to the destination designated by Texaco Environmental Services, we will create such a load. Purgewater is pumped out of the Texaco storage tank into an appropriate water hauling vehicle (we have both truck mounted tanks and trailers). The person loading the vehicle makes up a Bulk Load Disposition Bill of Lading. This documentation covers the load of purgewater during its movement from our facility to the destination designated by Texaco Environmental Services (whether to the Gibson Pilot facility in Redwood City or to the TES offloading point in Richmond).

We maintain a file for both Source Record Bill of Ladings and for Bulk Load Disposition Bill of Ladings. Periodic audits can be easily performed by reviewing this file.

FREE PRODUCT BAILING AND TRANSPORT

Blaine Tech Services, Inc. is not in the hazardous waste hauling business. The insurance overhead is so great that it is not economical to haul hazardous waste on an occasional or casual basis. Since we are in the sampling and objective data collection business, it makes sense to leave hazardous waste hauling to firms that are in the hazardous waste hauling business.

There is a fair amount of attention being put on clarifying EPA regulations which may offer exemptions to hazardous waste classification rules that apply to fuel facility waste material and debris that is being moved from a retail fuel dispensing facility to a refinery. It is thought that this or some similar loophole will be found that will eliminate some or all of the restrictions which are now being applied to fuel facility materials. As these openings develop, we will perform all the actions which are appropriate for us to perform. However, we are cautious because we certainly do not want to bring discredit to ourselves or to our client by presuming too much, too quickly.

Pending the clarification of exemptions that might allow us to transport such materials, we continue to remove place all the highly contaminated effluent materials we pump or bail from wells in properly labeled drums which remain on the site. Drums or the waste materials in the drums is removed and transported off the site by a properly licensed hazardous waste hauler.

There are several different arrangements that can be made, but most involve some liaison between ourselves and the licensed hazardous waste hauler who will need to offhaul any hazardous materials we place in the barrels within 90 days. Our personnel are involved in tracking the actual performance of the hazardous waste hauler by noting when new barrels are delivered to the

site and when resident barrels are emptied and labeled as empty. Our personnel fill out labels when adding material to a barrel and are careful to follow all the barrel preparation and closure protocols specified by our client and the hazardous waste hauler. The management of barrels and hauling requires tracking systems we have already developed for other clients.

ABILITY TO PERFORM

In the first quarter of 1993 one of our clients awarded us an additional territory and new sites that added more than 600 new gas station wells to our workload. These were not the only increases we took on and completed at the start of 1993, but they illustrate the fact that we can flex our organization to handle sudden increases.

Blaine Tech Services, Inc. performed all its 1993 commitments with never more than 10 field technicians working out of four (4) General Purpose Sampling Vehicles and six (6) Big Rigs. We managed all our commitments without relying on our #11 truck which was out of service during 1993, receiving a new body and serving as the test bed for the development of the new electric pump hose handling and cleaning package which you saw a week or so before it was completed. That #11 truck is now back in service and we are preparing to add field personnel.

We have also placed in service a new water hauling vehicle (#18) and have taken delivery of another new Ford Super Duty (#19) which is now in the shop to receive the same equipment package that was prototyped on #11. We hope to have #19 out of the shop by the time #20 arrives later in the first quarter of 1994. These added vehicles represent our commitment to a reasonable rate of growth which we achieve by backing up our field personnel with efficient equipment.

However, we do not require any additional vehicles to handle Texaco work in the amounts you are likely to limit us to. The #11 truck which is now in service can handle all the wells in any two Texaco territories with a 30% safety margin. That translates into a little more than one (1) site per day or one territory per month with the third month of each quarter free to pursue other work. The safety margin is actually even wider because our field personnel work only four days a week. If we found ourselves running behind we could add either more personnel or require overtime.

In practice we always assign several trucks to perform work of this type so that we can quickly build a broad base of experienced personnel. However, the single truck yardstick is useful for calculating the overall level of stress which a new assignment adds to the organization.

We have every reason to believe that we can handle whatever work you would like to award us. If we are fortunate enough to be successful in our bidding, we will commence work at Texaco sites during the first week of 1994.

Richard Blaine President