

Texaco Refining and Marketing Inc.

10 Universal City Plaza Universal City CA 91608

October 12, 1993

STID 1109

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

Dear Ms. Hugo:

This letter will confirm my telephone call to your office in which I tried to expressed Texaco's concerns with items noted in your letter of October 4, 1993. The letter was in reference to your review of the case file for the former Texaco service station facility that was located at 500 Grand Avenue in Oakland, California. I was unable to reach you by phone, so this letter, as outlined below, is intended to express those concerns.

- Reference to elevated hydrocarbon levels in the two recently installed onsite monitoring wells. The results quoted in your letter represent the first water samples taken from these newly installed wells. The levels noted indicate a substantial reduction from onsite historical levels previously reported. Further, enclosed is a copy of the latest quarterly report dated September 24, 1993, which indicates that a reduction in contamination levels is continuing. Both onsite wells had no TPH and are now below drinking water standards for hydrocarbon contam-The offsite wells have also registered a significant reduction, TPH levels were below detection limits and BTEX levels were below detection or were greatly reduced. This reduction can only be attributed to the source removal work performed and gives indication that Texaco's cleanup plan is working.
- II. Submit a corrective action plan (CAP) by November 15, 1993. Texaco has removed all onsite contamination sources and feels that simply monitoring the degradation of any remaining hydrocarbons, both on and offsite, is the prudent course at this time.
- III. Reference to "it will not impede the progress of the ongoing investigation and remediation". In our meeting of April 30, 1993, we discussed the fact that Texaco's lease on the property was expiring and we wanted to advise the owner of any onsite encumbrances that would remain on the property. We presented documents showing the extent of the source removal performed to date and our expectations as to what further action would be required.

Because all onsite source removal had been completed, the county requested installation of the two additional wells to monitor the onsite conditions. Texaco does not feel that an onsite investigation nor remediation is warranted at this time.

I have instructed Pacific Environmental to immediately arrange for a new sampling round of all wells and to prepare a report to document those results. Please review the enclosed report and call me at (818) 505-2476. I would like to propose a meeting with all parties concerning this matter.

Very truly yours, Texaco Refining and Marketing Inc.

Bob Robles

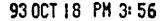
Environmental Coordinator

RR:rr

Enclosure

Mr. Joe D. Howard - Property Owner
Mr. Rich Hiett - CRWQCB San Francisco Bay Area Region
Ms. L. Damian - Pacific Environmental Group
DBHill - LKim - RRZielinski

pr:





STID 1109

September 24, 1993 Project 340-34.10

Mr. Bob Robles
Texaco Refining and Marketing, Inc.
10 Universal City Plaza, Suite 724
Universal City, California 91608

Re: Quarterly Report - Third Quarter 1993 Former Texaco Service Station 500 Grand Avenue at Euclid Avenue Oakland, California

Dear Mr. Robles:

This letter presents the results of the third quarter 1993 groundwater sampling and analytical event conducted by Pacific Environmental Group, Inc. (PACIFIC) on August 16, 1993, at the site referenced above (Figures 1 and 2). Groundwater elevation data are presented in Table 1 and shown on Figure 1. Groundwater analytical data are presented in Table 2 and shown on Figure 2. The certified analytical report and chain-of-custody documentation are presented as Attachment A. The field and laboratory procedures are presented as Attachment B.

If you have any questions regarding the contents of this letter, please do not hesitate to call.

Sincerely,

Pacific Environmental Group, Inc.

Steven E. Krcik Senior Geologist RG 4976 Attachments:

Table 1 - Groundwater Elevation Data

Table 2 - Groundwater Analytical Data - Total Petroleum

Hydrocarbons (TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Other)
Figure 1- Groundwater Elevation Contour Map
Figure 2- TPH-g/Benzene Concentration Map Attachment A - Certified Analytical Report and

Chain-of-Custody Documentation

Attachment B - Field and Laboratory Procedures

cc: Mr. Ron Zielinski, Texaco Refining and Marketing, Inc.

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
1 0 Magazarda 200 a 200 a 200 a 200	04/23/91		2.31	97.41
	06/10/91		2.82	96.90
Standinger de deserces	06/28/91		2.53	97.19
	07/23/91		2.35	97.37
	08/22/91 10/03/91		2.68 2.46	97.04 97.26
M 201 (20 D) (40 M 10 D)	10/24/91		2.53	97.19
	11/26/91		3.03	96.69
10 F1 00 C44 00 CC (00 C1 00 C1 00 C1 00 C1	12/30/91		2.28	97,44
	01/23/92		2.57	97.15
	02/28/92		2.48	97.24
	03/26/92	tti tarrigene kanalisti et Tirkanakan kanalisti et	2.13	97.59
	04/30/92		2.10	97.62
	08/03/92	W	ell Properly Aba	ndoned
00.00 <u>0.0000</u> 0000000000	********** <u>**********</u>		21: 20:20000000000000000000 <u>0000000000</u> 20	
MW-8B	03/29/91	101.11	0.26	100.85
****************	04/23/91	nomena na estima a na esta est	0.31 0.42	100.80
	06/10/91 06/28/91		0.42 0.41	100.69 100.70
300000000000000000000000000000000000000	00/20/91		0.41	100.70
20202.000.0000000000000000000000000000	08/22/91		0.62	100.49
contribution in the district in the contribution of the contributi	10/03/91		0.52	100.59
prior to entry but below it over 101 bi	10/24/91	Titl tile blitte average med en	0.62	100.49
3.621 (3.888 (88.88	11/26/91		0.73	100,38
	12/30/91		0.30	100.81
	01/23/92		0.54	100,57
	02/28/92		0.29	100.82
2000 CONTROL OF STREET	03/26/92		0.07	101.04
000 000 000 000 000 000 000 000 000 000	04/30/92	neentoneecooppacatineoucoopton	0.60	100.51
	09/28/92		Not Monitored -	
	11/19/92	a dia mangangan pangangan dalah d	Not Monitored -	
	02/12/93	acamatan madada kabupat kan kan kabupat bar	Not Monitored -	
	04/01/93	W	ell Properly Aba	naoned
MW-8C	00/00/04	98.41	C 47	91.94
いいかーない	03/29/91	98,41	6.47 6.67	91.94 91.74
891,580,600,000,000,000,000	04/23/91 06/10/91	ug g Gg 18 610100 (8000190 1131	8.08	90.33
	06/28/91		7,36	91.05
	07/23/91		7.37	91.04
	08/22/91		8.79	89.6
over one on weather and a contribute	10/03/91	anana na matatana mana na mana mbana 1999.	7,93	90.48
	10/24/91		7.68	90.73
	11/26/91		7.59	90.82
	12/30/91		7,15	91,2€
	01/23/92		6.88	91.53
	02/28/92		6,69	91.72
5045556065555666666666	03/26/92	: 10	6.69	91.72
	04/30/92		5,90	92.51
	09/28/92		Not Monitored -	

Table 1 (continued) Groundwater Elevation Data

Well	Date	Well Elevation	Depth to Water	Groundwater Elevation*
Number	Gauged	(feet)	(feet, TOC)	(feet)
MW-8C	11/19/92		Not Monitored	
(cont.)	02/12/93		Not Monitored -	
į	04/01/93	W	ell Properly Aba	indoned
MW-8E	03/29/91	99.38	3.28	Seat Seat Seat Seat Seat Seat Seat Seat
te merusar, arabkasaras	04/23/91		3.02	\$2.55.65.65.65.65.65.65.65.65.65.65.65.65.
	06/10/91		3.08	
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	07/23/91		3.24	
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	10/24/91	2000) - 1 200 - 100 - 100 800 00 00	3.45 3.34	. In the state of the control of the
	11/26/91	1808 1 61 884 14 8 187 188 ⁷ -	3.53	
	12/30/91 01/23/92		3.53 3.57	15 470070000000000000000000000000000
	01/23/92	nene i de desemblem de 1884.	3.35	27.7.2.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4
00000 06.11v0 0105.4100	02/26/92	785347568888883316388887	3.33 3.01	The second contract the se
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	08/03/92	w		indoned
MW-8F	03/29/91	97.94	8.59	89.3
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	D6/10/91	ns ne la valencia de la Compaña. Mario de la valencia	9.58	A Proposition of the Contract
00.000.00000000000000000000000000000000	06/28/91		9.48	88.4
	07/23/91		9.79	88.1
	08/22/91		11.44	86.50
au nice i disent méndide La rice pour sousce and	10/03/91		11,58	86,30
	10/24/91		11.75	86.19
	11/26/91	101 (100 (100 (100 (100 (100 (100 (100	11,63	86.3
	12/30/91		10.51	87.43
NAMES REPORTED TO	01/23/92		10.24	87.7
	02/28/92		9.93	
	03/26/92		8,78	
500000000000000000000000000000000000000	04/30/92	AVGG1, 2011. G10G10.11. 15115.	9.36	 Long sug pag pand publishen törlig.
60000 160000000000000000000000000000000	09/28/92		11.83	The contract of the property o
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	02/12/93		9.66	
uch declaracie Kaliferier	05/06/93	productive state of Proceedings Page	8.83	The second secon
	08/16/93	14.04	10.16	3.8
MW-8G	03/29/91	V	Vell Inaccessible	
energy and the control of the contro	04/23/91	97.24	9.44	 Local Control of the Asset Asset
	06/10/91		10.29	
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	07/23/91		10.74	
	08/22/91	opposit, propagają jakopadokio 2011 m. r	12.56	and the second of the second o
1 000 Her 10 Miles 1 No. 34 1 HOUR 180	10/03/91		13,09	
000000000000000000000000000000000000000	10/24/91	organis de desembros de compressor de	13.42	Taran kalendar kalendar kanan kalendar kanan dari badan 1995.
andruine (19.10) 20 Potential disconnection	11/26/91		18,02	
	12/30/91		11.94	85.3

Table 1 (continued) Groundwater Elevation Data

Well	Date	Well Elevation	Depth to Water	Groundwater Elevation*
Number MW-8G	Gauged 01/23/92	(feet)	(feet, TOC) 11,30	(feet) 85,94
(cont.)	02/28/92		10.83	86.41
	03/26/92		9:20	88.04
	04/30/92		9.00	88.24
	09/28/92		13,32	83.92
68.862-1230-063869888	11/19/92	000000000000000000000000000000000000000	Vell Inaccessible	
	02/12/93 05/06/93	::Y	Vell Inaccessible 11.18	86.06
	08/16/93	13.32	0.000.000.000.0000000000000000000000000	3.81

H8-WM	03/29/91	98.90	3.70	95.20
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BART OF BOUNDARING	06/10/91 06/28/91	(Spanit and Spielland metadologische de	3.83	95.07
	07/23/91		3.85	95.05
	08/22/91		3.80	95.10
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a area a a da a a a a	10/24/91		4.02	94.88
	11/26/91		3.88	95,02
	12/30/91		3.84 3.74	95.06 95.16
	01/23/92 02/28/92		4.44	94,46
	03/26/92		4.21	94,69
	04/30/92		3.46	95.44
	09/28/92		Vell Inaccessible	
ususala as massus	11/19/92		3.75	95.15
	02/12/93		4,12	94.78
2000-100000-04000	05/06/93 08/16/93	15.04	3.85 3.88	95.05 11. 1 6
Meliker (Minericus) kinese	00/10/33	19.99	5.00	
MW-81	03/29/91	98.27	6.15	92,12
	04/23/91	+ K. Josephon Augusto	6.29	91.98
	06/1 0 /91		6.11	92.16
on vicini ili della d	06/28/91		6.30	91.97
	07/23/91 08/22/91	·	6.41 6.44	91.86 91.83
g man ann ja a ar frig storra arres 880	10/03/91	andra en laces de la la laces de laces de laces de la laces de la laces de	6,47	91.80
onga senjara, tri 21, ji banang	10/24/91	de para di la prima polo presione e i i i i i i i i i i i i i i i i i i	6.57	91.70
	11/26/91		6.58	91.69
en ne roer tonne i transces	12/30/91	Japan Japan Japan	6.41	91.86
	01/23/92		6.33	91,94
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	03/26/92 04/30/92	rryn i erenekiikiikiikii	6.48	91.79
	09/28/92		Vell Inaccessible	Control of the Contro
	11/19/92		6.37	91.90
Pida garter graß	02/12/93		6.44	91,83
addigaeth a agus an Sadaise	05/06/93	: :::::::::::::::::::::::::::::::::::	6.36	91.91
2,200 - 1,100 / 100 19 0 210 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	08/16/93	14.40	6.35	8.05

Table 1 (continued) Groundwater Elevation Data

Well Number	Date	Well Elevation (feet)	Depth to Water (feet, TOC)	Groundwater Elevation* (feet)
MW-8J	Gauged 03/29/91	97.69	5.71	91,98
)))	04/23/91		3.81	93.88
	06/10/91		6.17	000000000000000000000000000000000000000
4000 1000 11000 1000 0100 0100	06/28/91		6.31	91.38
	07/23/91		6.67	91.02
	08/22/91		6.75	90.94
	10/03/91		6.77	90.92
an in the contract of the cont	10/24/91	e e e e e e e e e e e e e e e e e e e	6.88	90.81
	11/26/91		6.59	91,10
	12/30/91		6.41	91.28
	01/23/92		6.31	91.38
	02/28/92		6.28	91.41
	03/26/92		6.20	91.49
	04/30/92		6.48	era in eromo mora e por participa de la compansión de la compansión de la compansión de la compansión de la co
	09/28/92		Well Inaccessible	•
	11/19/92		6.55	ANNANANANANANANANANANANANANANANANANANA
	02/12/93		7.46	AND
	05/06/93		6.21	91.48
	08/16/93	13.82	* 6,29	7.53
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MW-8K	08/16/93	15.18	* 2,08	13,10
	arma marco dalcula car considera	o o - no ao consenso, escapacio		popodposcoor supposeductura, a dipálife
MW-8L	08/16/93	14.44		11.97

New well elevation survey performed on August 16, 1993 based on mean sea level (MSL). Prior data based on arbitrary site data.

TOC = Top of casing

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	Sampled	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)
MW-8A	06/14/88	(ppu) NA	(ppu) <0.5	(ppc) 1.5	(ppc) <2	(ppb) 6.6	(PPD) NA	NA NA
	10/25/88	NA NA	<0.5	<1	<2	<1	NA	NA
	09/28/89	<50	<0.5	<0.5	₹0. 5	≪3	NA.	NA.
	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
	04/26/90	<2,500	<0.5	<0.5	<0.5	<0.5	<50	890
	07/26/90	<50	6.0	<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	<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.
	04/30/92	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	08/03/92			Well	Property Abo	andoned		
.00000000000000000000000000000000000000	500 00000 0000 0000000000000000000000000	199909300300300000000000000000000000000	1000100100100 00000111111		5 50650 600,5000000000000000	222222100000000000000000	***********	(9)(00) (10) (10) (10) (10) (10) (10) (10)
MW-8B	06/14/88	NA.	<0.5	<1	<2	<1	NA NA	NA
.00000000000000000000000000000000000000	10/21/88	NA	<0.5	<1	<2	3.1	NA	NA
.00,000,000,000,000,000	09/28/89	<50	<0.5	<0.5	<0.5	<3	NA	NA
100 X 000 X	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	NA -	350
	04/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	110
00000000000000000000000000000000000000	07/26/90	<50	<0.5	<0.5	< 0.5	<0.5	<50 €0	<50
x0x020:0000x0x0x0	10/18/90	<50	<0.5	< 0.5	<0.5	<0.5	<50 <50	<50 180
\$91,7600,750,000,000 	01/08/91	<30 <50	<0.3	< 0.3	<0.3 <0.5	≪0.3 5.1	<50	<500
000000000000000000000000000000000000000	04/23/91 07/23/91	<50 <50	8.4 ≮0 .5	2.5 1,1	<0.5 ≪ 0.5	2.0	<50 <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	<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				Not Sample	H4844144141444444		***************************************
*************	11/19/92			. 	Not Sample	• • • • • • • • • • • • • • • • • • • •		
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		energia konditariori	Pariston on the			1000 000 000 000 000 000 000 000 000 00	50.0 KKO KO KO KO 100 61.0 KKO KO KO KO 100	
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
e e e e e e e e e e e e e e e e e e e	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
	04/23/91	800	12	25	3.7		<50	<500
	07/23/91	<50	<0.5	0.6	<0.5	<0.5	<50	<500
	10/24/91	<50	≪0.5	<0.5	<0.5		<50	<500
	01/23/92	<50	1.2	<0.5	<0.5	<0.5	840	NA.

Table 2 (continued)

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-8C	04/30/92	<.50	<0.5	<0.5	<0.5	<0.5	150	<500
(cont.)	09/28/92				Not Sample	and the contract of the contra		
	11/19/92				Not Sample	d		
60060000 (CD0060000000	02/12/93				Not Sample	5000000000000000000000000	000000000000000000000000000000000000000	
	04/01/93			Well	Properly Aba	andoned		
MW-8E	10/25/88	NA NA	1,400	510	2.9	420	NA	NA
eo increarconnocasco.	09/28/89	22,000	5,600	3,100	<500	<3,000	NA	NA
	11/29/89	15,000	4,900	2,600	<250	1,490	6,800	<50
	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
ina protisioni proprii pilija	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
19	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
JE 162868948483	07/23/91	47,000	16,000	5,400	1,100	4,000	3,500	<500 ≮500
300000000000000000000000000000000000000	10/24/91	40,000	19,000	6,100	1,100	4,900	9,400	
	01/23/92	38,000	3,800	2,800	610 500	4,800	9,800	< 500
3973849333333	04/23/92	41,000	20,000	3,700	500	3,900	9,600	5300
	08/03/92			vveii	Properly Aba	inaonea – ·		
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.
246040-0040 <u>8</u> 040	11/29/89	<50 <50	<0.5	<0.5	<0.5	<0.5	<50	<50
c: - sonochumochococ eculeochococococ	01/24/90	<100	<0.5 <0.5	<0.5	≺0.5 ≪0.5	<0.5	NA.	<300
	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
rayear ocasionio	10/18/90	<50	<0.5	<0.5	<0.5	<0.5	360	<50
151059715109-1570509 C28808-0808-2808	01/08/91	<30	<0.3	<0.3	<0.3	<0.3	380	620
274 28 21 20 22 24 24 25 25	04/23/91	<50	5,9	3.1	<0.5	2.7	1,400	3,200
	07/23/91	<50	<0.5	0.8	<0.5	<0.5	60	<500
00.4000000000000000	10/24/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
nd vilosomoco seri vidicio La coloria	01/23/92	<50	4.0	1.3	<0.5	1.9	1,300	NA.
	04/30/92	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
00, 00, 000, 000, 00, 00, 00, 00, 00, 0	09/28/92	<50	<0.5	<0.5	<0.5	≪0.5	NA.	NA.
pari ramangangan sah	11/19/92	<50	<0.5	<0.5	<0.5	< 0.5	NA	NA
	02/12/93	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
sar sarananan ananana	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
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	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	650
367 168 188 166 183	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
00000000000000000	01/08/91	<30	<0.3	<0.3	<0.3	<0.3	220	260

Table 2 (continued)

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-8G	04/23/91	<50	0.9	0.9	<0.5	<0.5	1,100	<500
(cont.)	07/23/91	<50	0.5	1.5	<0.5	3.0	<50	<500
	10/24/91	<50	0.6	<0.5	<0.5	<0.5	NA:	NA
	01/24/92	<50	<0.5	<0.5	<0.5	<0.5	980	NA
0000 KOMOXO NED KO 1100 KOMOXO KOMO	04/30/92	<50	1.7	<0.5	<0.5	<0.5	<50	<500
	09/28/92				Well Dry	,		
	11/19/92				Well Inacce		فتنصيف	
,,,	02/12/93				Well Inacce	ssible		
	04/29/93	<50	<0.5	<0.5	<0.5	<0.5	64	<25
4000 K 00000400090000000000	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
				2Y 00: 00:00 NC - X-00:00	00000000000000000000000000000000000000			
H8-WM	01/24/90	460	14.8	14.8	10.8	38.8	NA	<300
	04/26/90	830	67	19	43	64	<50	820
	07/26/90	190	45	1.3	12	8.2	<50	<50
	10/18/90	300	17	2.5	14	8.5	<50	< 50
	01/08/91	320	12	2.2	6.4	4.0	180	89
	04/23/91	<50	1.5	<0.5	<0.5	<0.5	730	<500
	07/23/91	270	21	1.8	9.7	2.6	<50	<500
	10/24/91	120	7.6	1.0	3.5	2.4	70	<500
*****************	01/23/92	110	7.2	1.2	4.7	3.2	<60	NA.
000000000000000000000000000000000000000	04/30/92	190	91	1.5	5.6	3.6	90	<500
	09/28/92				Well Inacce			
XXX (30) 8 (4) (4) (4)	11/19/92	130	6.8	<0.5	1,1	1.5	NA	NA
1900101211901611211121	02/12/93	73	5.9	<0.5	0.8	<0.5	NA	NA
0000 000 000 000 000 000 000 000 000 0	05/06/93	57	1.7	<0.5	<0.5	<0.5	<100	<50
	08/16/93	<50	0.5	<0.5	0.5	1.4	<50	<50
	8888							
MW-8I	01/24/90	580	116	2.9	13	30.5	NA	440
	04/26/90	4,400	2,400	100	230	350	<50	1,400
	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
eren er	10/18/90	530	92	4,1	37	21	< 50	~ <50
.600.000.0000.0000	01/08/91	1,300	500	4,3	36	26	710	210
: 50000 k 0000 0000 000 000 000) (N. 6600 600 600 600 600 600 NG N. 7	au anector auca ne bacconoca	1,600	17	100	26 86	1,100	900
X82463(3X8X83X8X	04/23/91	1,500	1,600	30	140	63	260	<500
	07/23/91 10/25/91	1,700 760	470		76	13	230	<500
		environment and environment	AND THE STREET	7.2	27	20	210	NA
	01/23/92	820	420	40500000000 1 1950A	27 180	20 25	430	<500
	04/30/92	2,200	1,800	19	and the second of the second o	and the second contract of the second	130	
0.000.000.0000.000	09/28/92				eli inaccessit		NA NA	NA
1848990303	11/19/92	720	120	1,1	29	13	anger and acceptance of the second	NA NA
989899888888	02/12/93	4,000	970	9.2	52 40	36 8.4	NA <1:00	NA <50
	05/06/93	1,400	370 2.1	2.4	40 5.6	and a second control of the second of the se	<50	<50
\$35555555555555	08/16/93	<50	3.1	<0.5	5.6	<0.5	₹ 50	VG.2
AANAA AA	04/04/00	valus es es es estados en la colocida en la colocid La colocida en la co		ergeggger (d. 1936) AF	9869664666666 1470 	2 F	505 55 55 55 55 55 NA	<300
MW-8J	01/24/90	<100	2.7	<0.5	1 46	2.6	NA ∽60	auganosoranaticasiós
	04/26/90	160	-28	7.7	19 -0.5	24 -0.5	<50 <50	320 ~50
gggggggggggggaaaa	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(10/18/90	< 50	8.3	<0.5	2.6		<50	<50
	01/08/91	71	0.41	<0.3	< 0.3	0.52	<50	69

Table 2 (continued)

Groundwater Analytical Data

Total Petroleum Hydrocarbons

(TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Other*)

Former Texaco Service Station 500 Grand Avenue at Euclid Avenue Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	TPH as Other* (ppm)
MW-8J	04/23/91	300	(PPD) 16	(PPD) 2.2	(P) 9:3	((100)	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
	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
and to delice a general trade of the second of	09/28/92			1	Veli Inaccess	ible		
	11/19/92	≮50	<0.5	<0.5	<0.5	<0.5	NA	NA NA
	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

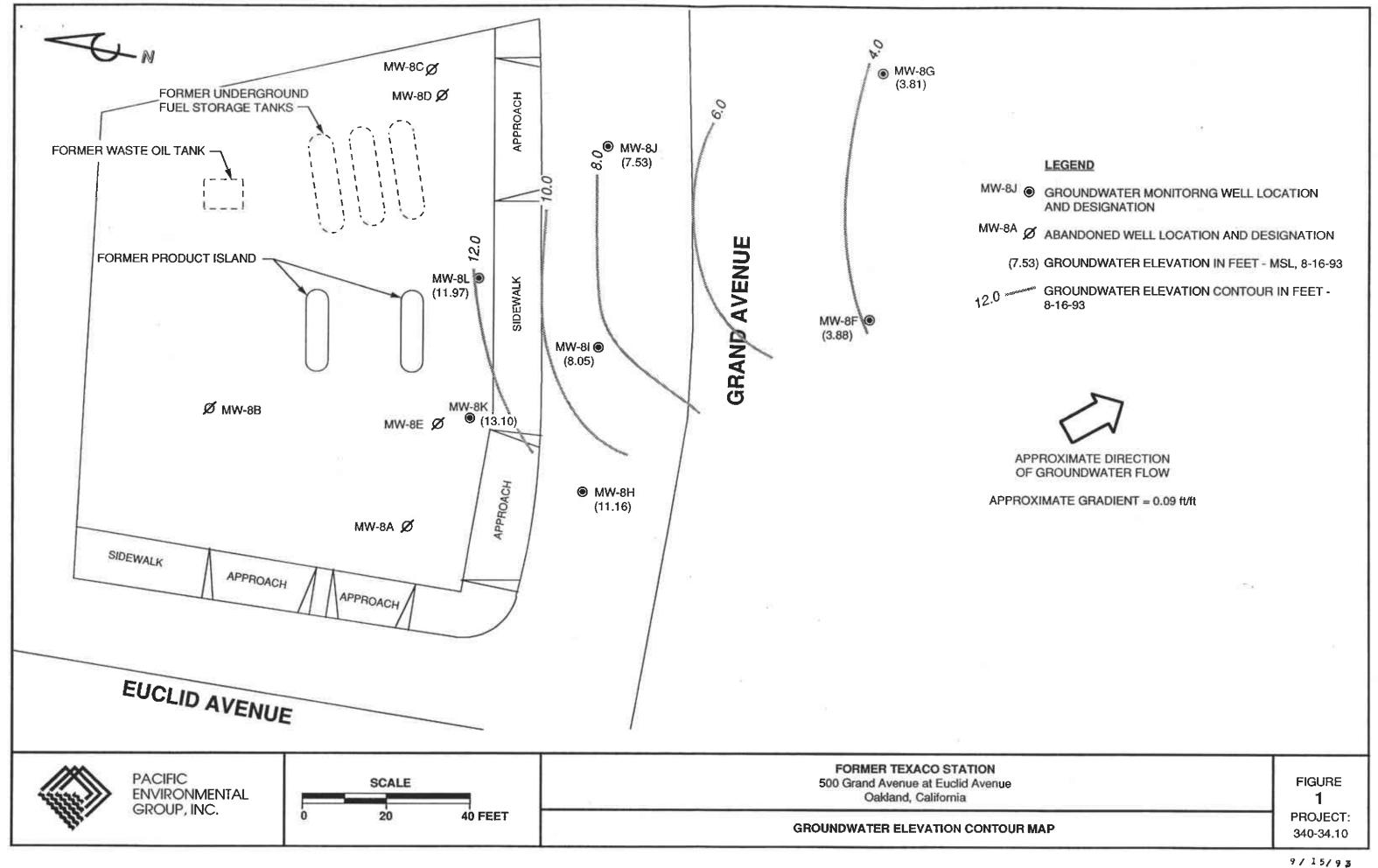
MW-8K	05/21/93	54	12	< 0.5	<0.5	<0.5	<50	<50
	08/16/93	<50	<0.5	<0.5	1	<0.5	<50	<50
MW-8L	05/21/93	76	1.1	<0.5	<0.5	6	<50	<50
	08/16/93	<50	< 0.5	<0.5	0.7	1.1	<50	<50
						800 000000 000 000 000 000000 000 000	550 x 50 x 50 x 50 x 50 x 50	
OB-3	11/06/89	4,000	420	8	6	64	NA	NA
	04/26/90	1,000	160	19	5	8.6	3,200	<50
	07/26/90	68	< 0.5	< 0.5	<0.5	0.9	1,200	<50
	10/18/90	3,200	260	69	85	490	2,100	<50
				\	Well Abandoi	ned		
						kija kondodinici obij Somoonionia kon		
OB-4	11/06/89	4,000	500	11	10	24	NA.	NA
	04/26/90	460	360	10		18	3,900	<50
	07/26/90	200	23	3.7	1.6	5.9	1,600	<50
	10/18/90	4,300	600	540	83.	840	330	<50
					Nell Abandoi	ned		

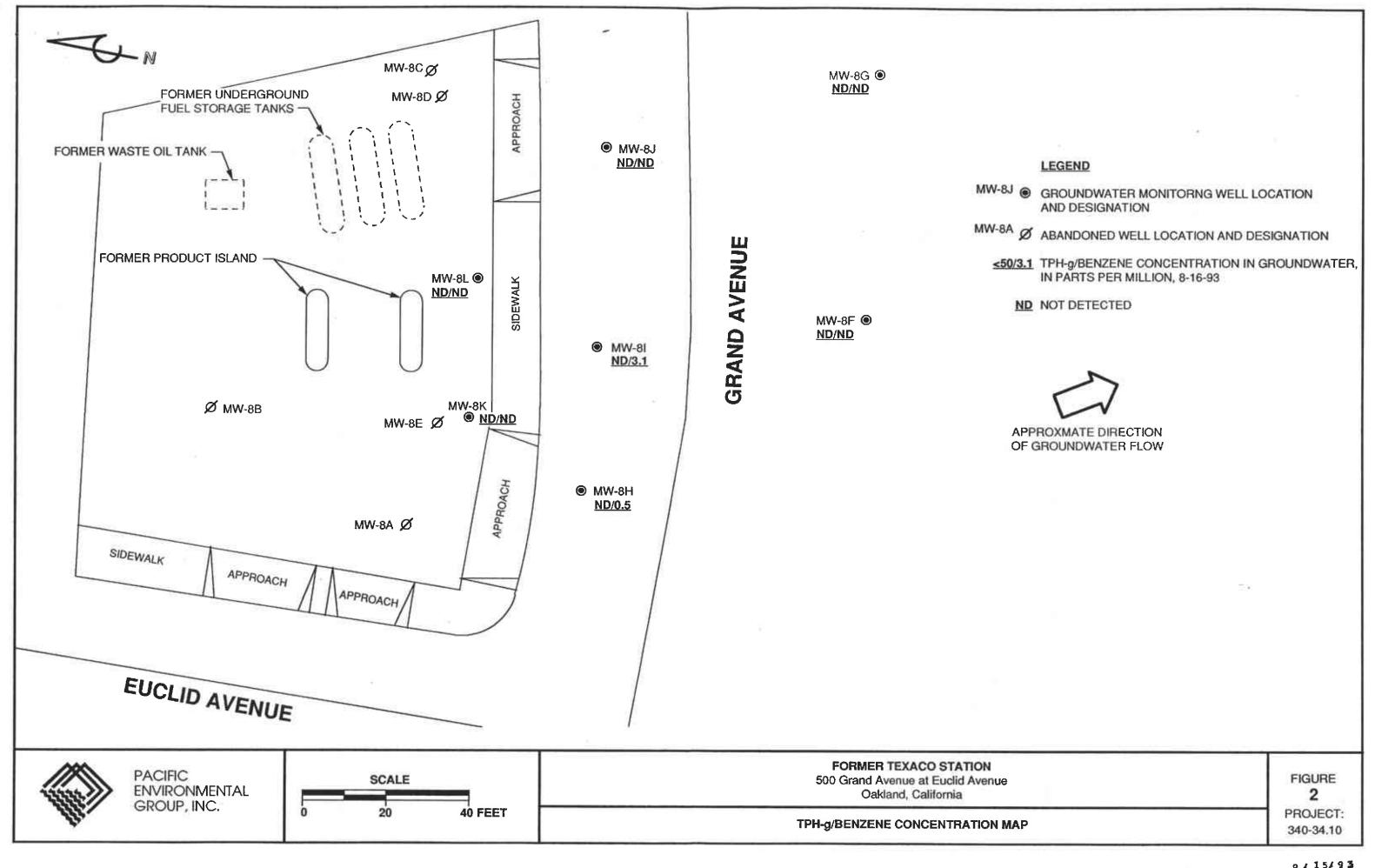
ppb = Parts per billion

ppm = Parts per million

NA = Not analyzed

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



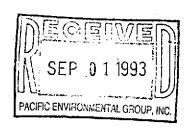


ATTACHMENT A

CERTIFIED ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION



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



340-34.01\1718\012912

Pacific Environmental Group, Inc. 2025 Gateway Place, Suite 440

San Jose, CA 95110 Attn: Maree Doden

Pacific Contact

Date Sampled: 08-16-93 Date Received: 08-17-93

Date Analyzed: 08-27-93

Sample Number

083497

Sample Description

Project # 340-34.01 Texaco - Oakland 500 Grand Ave.

MW8F

WATER

	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



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340-34.01\1718\012912

Pacific Environmental Group, Inc. 2025 Gateway Place, Suite 440

San Jose, CA 95110 Attn: Maree Doden

Pacific Contact

Date Sampled: 08-16-93 Date Received: 08-17-93

Date Analyzed: 08-27-93

Sample Number

083498

Sample Description

Project # 340-34.01

Texaco - Oakland 500 Grand Ave.

MW8G

WATER

	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.

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

MOBILE CHEM LABS



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340-34.01\1718\012912

Pacific Environmental Group, Inc. 2025 Gateway Place, Suite 440

San Jose, CA 95110 Attn: Maree Doden

Pacific Contact

Date Sampled: 08-16-93 Date Received: 08-17-93

Date Analyzed: 08-27-93

Sample Number

083499

Sample Description

Project # 340-34.01 Texaco - Oakland

500 Grand Ave.

H8WM 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	1.4
Ethylbenzene	0.5	0.5

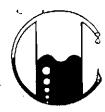
Note:

Analysis was performed using EPA methods 5030 and TPH

LUFT with method 602 used for BTX distinction.

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

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340-34.01\1718\012912

Pacific Environmental Group, Inc.

2025 Gateway Place, Suite 440

San Jose, CA 95110 Attn: Maree Doden

Pacific Contact

Date Sampled: 08-16-93 Date Received: 08-17-93 Date Analyzed: 08-27-93

Sample Number

083500

Sample Description

Project # 340-34.01 Texaco - Oakland

500 Grand Ave.

I8WM

WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	3.1
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	5.6

QA/QC: Duplicate Deviation is 6.6%

Note:

Analysis was performed using EPA methods 5030 and TPH

LUFT with method 602 used for BTX distinction.

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

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340-34.01\1718\012912

Pacific Environmental Group, Inc. 2025 Gateway Place, Suite 440 San Jose, CA 95110

Attn: Maree Doden

Pacific Contact

Date Sampled: 08-16-93 Date Received: 08-17-93

Date Analyzed: 08-27-93

Sample Number

083501

Sample Description

Project # 340-34.01 Texaco - Oakland

500 Grand Ave.

L8WM 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 111%

Note:

Analysis was performed using EPA methods 5030 and TPH

LUFT with method 602 used for BTX distinction.

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

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Pacific Environmental Group, Inc. 2025 Gateway Place, Suite 440

San Jose, CA 95110 Attn: Maree Doden

Pacific Contact

Date Sampled: 08-16-93 Date Received: 08-17-93

Date Analyzed: 08-27-93

Sample Number

083502

Sample Description

Project # 340-34.01 Texaco - Oakland

500 Grand Ave.

MW8K 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	1.0

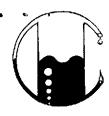
Note:

Analysis was performed using EPA methods 5030 and TPH

LUFT with method 602 used for BTX distinction.

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

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340-34.01\1718\012912

Pacific Environmental Group, Inc. 2025 Gateway Place, Suite 440 San Jose, CA 95110

Attn: Maree Doden

Pacific Contact

Date Sampled: 08-16-93 Date Received: 08-17-93

Date Analyzed: 08-27-93

Sample Number

083503

Sample Description

Project # 340-34.01 Texaco - Oakland

500 Grand Ave.

MW8L 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	1.1
Ethylbenzene	0.5	0.7

Note:

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

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

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340-34.01\1718\012912

Pacific Environmental Group, Inc. 2025 Gateway Place, Suite 440

San Jose, CA 95110 Attn: Maree Doden

Pacific Contact

Date Sampled: 08-16-93 Date Received: 08-17-93 Date Analyzed: 08-27-93

Sample Number

083504

Sample Description

Project # 340-34.01 Texaco - Oakland

500 Grand Ave.

TB-1 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

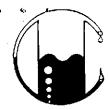
Note:

Analysis was performed using EPA methods 5030 and TPH

LUFT with method 602 used for BTX distinction.

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

MOBILE CHEM LABS



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340-34.01\1428\012912

Pacific Environmental Group, Inc. 2025 Gateway Place, Suite 440

2025 Gateway Place, Suite 440 San Jose, CA 95110

Attn: Maree Doden

Pacific Contact

Date Sampled: 08-16-93

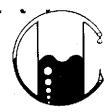
Date Received: 08-17-93

Date Analyzed: 08-26-93

Sample Number	Sample Descriptio	Detection Detection	WATER n Total Petroleum Hydrocarbons as Diesel
		ppb	ppb
•		Texaco - Oaklo 500 Grand Ave Project No.:	nue
083497	MW8F	50	<50
083498	MW8G	50	<50
083499	нвим н	50	<50
083500	MM8I	50	<50
083501	L8WM	50	<50
083502	MW8K	50	<50
083503	MW8L	50	<50

Note: Analysis was performed using EPA method 3510 and TPH LUFT. (ppb) = $(\mu g/L)$

MOBILE CHEM LABS



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340-34.01\1223\012912

Pacific Environmental Group 2025 Gateway Place, #440

San Jose, CA 95110 Attn: Maree Doden

Pacific Contact

Date Sampled: 08-16-93

Date Received: 08-17-93

Date Analyzed: 08-25-93

WATER

Sample Number

Sample Description Detection Limit ppm

Gravimetric Waste Oil as Petroleum Oil

ppm

Project # 340-34.01 Texaco - Oakland 500 Grand Ave.

083497	MW8F	50	<50
083498	MW8G	50	<50
083499	H8WM	50	<50
083500	I8WM	50	<50
083501	L8WM	50	<50
083502	MW8K	50	<50
083503	MW8L	50	<50

Spike Recovery on 083497 is 96% QA/QC:

Duplicate Deviation on 083497 is 2.1%

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

			. * ·						•			•	
	PROJECT No. 340-34.	0		Chain of C	Custody		0	=3	2025 Gate		ental Group, Inc. « #440, San Jose CA-951 Fax 408 441 7539		
	Facility No. TEXALO	f	Facility Address:	500 GR	MA Cha	Billing Refence Number:							
	CLIENT engineer: BoB RoB	LES F	PACIFIC Point of	Contact: M.	MECTOC	Sampler: 🗴	Ray	Laboratory Name: MOBILE CHE					
		W=water	G=grab D=disc.		CASTEOIL)	Total					Comments:		
	Container Sample Cont. Size I.D. No. (MI)	Sample	C=comp. Sampling Type Date	BTEX VPHga Sampling (8015 Time 8020)	TPH Oil and Diesel Grease	VOC Disiyd. (EPA 624/	(EPÅ 627/	HVOC (EPA 601/ 8010)		·			
• •	MW8F 240	HC1 W	G 8/6	1637 >									
•	1 1 1000	MP		1639	X						•		
٠,	1 1000/	t504		1641	×								
•	mw89 240	FC1		1646 X									
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						Chain of Occasions							~	. ~	,	Pacific Environmental Group, Inc.				
PROJECT No. 345-34.01					Chain of Custody $26=3$							>	2025 Gateway Place #440, San Jose CA 95110							
Facility No. TEXACO					Facility Address: 500 GRAND AVE, OAKLAND							M	Phone 408 441 7790 Fax 408 441 7539 Billing Referce Number:							
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			<u> </u>		11.0,,	T OHK	or contact.	1 (32			Samp		<u> </u>	<u>~~></u>	Chie	Labor	ratory :	Name:	Comments:	(EM
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PROJECT No.	Chain of Custody									= 5)	2025 Gateway Place #440, San Jose CA 95110												
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ATTACHMENT B FIELD AND LABORATORY PROCEDURES

ATTACHMENT B FIELD AND LABORATORY PROCEDURES

The sampling procedure consisted of first measuring the water level in each well with an electronic water-level indicator, and checking each well for the presence of separate-phase hydrocarbons using a clear Teflon bailer or an oil-water interface probe. The wells were then purged of approximately four casing volumes of water (or until dry) using a bailer or centrifugal pump, during which time temperature, pH, and electrical conductivity were monitored to indicate that a representative sample was obtained. After purging, the water levels in the wells were allowed to restabilize. Groundwater samples were then collected using a Teflon bailer, placed into appropriate EPA-approved containers, labeled, logged onto chain-of-custody documents, and transported on ice to the laboratory.

Water removed from the wells during the sampling event was placed in a 500-gallon water transportation trailer. Upon completion of the work on site, the purge water contained within the trailer was transported to Gibson Oil and Refining Company, Inc., Redwood City facility and injected into the treatment system.

Groundwater samples collected from site monitoring wells were analyzed for the presence of total petroleum hydrocarbons calculated as gasoline (TPH-g) by EPA Methods 8015 (modified) and 5030, and for benzene, toluene, ethylbenzene, and xylenes (BTEX compounds) by EPA Method 8020. The TPH-g and BTEX samples were examined using the purge and trap technique, with final detection by gas chromatography. Samples were also analyzed for total petroleum hydrocarbons calculated as diesel using EPA Methods 8015 and 3510, with final detection by gas chromatography; or by EPA Method 3550 with gravimetric determination by standard Method 5520. All analyses were performed by a state-certified laboratory.