



Texaco Refining
and Marketing Inc

18 University City Plaza
University City CA 91601

ALCO
HAZMAT
93 DEC -6 PM 1:37

November 30, 1993

ENV - SERVICE STATIONS
Quarterly Status Report
500 Grand Avenue
Oakland, California

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

Dear Ms. Hugo:

Enclosed for your record and files is a copy of a letter from Pacific Environmental which presents revisions to the analytical results reported in the second quarter sampling report for the above subject location.

If you have any questions or wish to discuss this report, please call me at (818) 505-2476.

Very truly yours,
Texaco Refining and Marketing Inc.

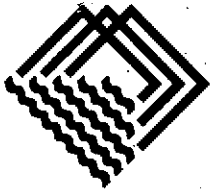
Bob Robles
Bob Robles
Environmental Coordinator

RR:rr

Enclosure

Mr. Joe D. Howard - Property Owner
Mr. Rich Hiett - CRWQCB San Francisco Bay Area Region
RRZielinski

pr:



PACIFIC
ENVIRONMENTAL
GROUP, INC.

November 3, 1993
Project 340-34.21

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

Re: Former Texaco Service Station
500 Grand Avenue
Oakland, California

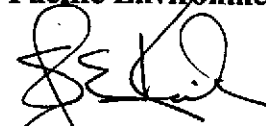
Dear Mr. Robles:

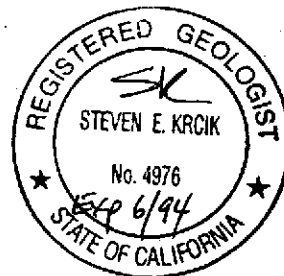
This letter presents revised results for the second quarter 1993 groundwater sampling and analytical event conducted by Pacific Environmental Group, Inc. (PACIFIC) on April 29, 1993, at the site referenced above. Due to an analytical laboratory reporting error, the quarterly monitoring and sampling report issued by PACIFIC on May 12, 1993 reported groundwater analytical results for Monitoring Well MW-8G and total petroleum hydrocarbons calculated as diesel (TPH-d) incorrectly. At the request of PACIFIC, the analytical laboratory reexamined the chromatogram for MW-8G and determined the constituents found in the sample were not TPH-d. The laboratory has determined the constituents found in the sample were an unidentifiable non-diesel mix of hydrocarbons. A revised certified analytical report dated October 21, 1993 and laboratory chromatograms for the diesel standard and sample MW-8G are presented as Attachment A.

Please do not hesitate to call with any questions regarding the above data.

Sincerely,

Pacific Environmental Group, Inc.


Steven E. Krcik
Senior Geologist
RG 4976



Attachment: Attachment A - Revised Certified Analytical Report for
Groundwater Sample MW-8G

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

ATTACHMENT A

**REVISED CERTIFIED ANALYTICAL REPORT FOR
GROUNDWATER SAMPLE MW-8G**



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group	Client Project ID: 340-34.01/Texaco, Oakland	Sampled: Apr 29, 1993
2025 Gateway Place, Suite 440	Sample Matrix: Water	Received: Apr 29, 1993
San Jose, CA 95110	Analysis Method: EPA 3510/3520/8015	Reported: May 12, 1993
Attention: Lainie Demian	First Sample #: 3DD3901	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 3DD3901 MW8G
Extractable Hydrocarbons	50	64

Chromatogram Pattern: Non-diesel mix
> C16

Quality Control Data

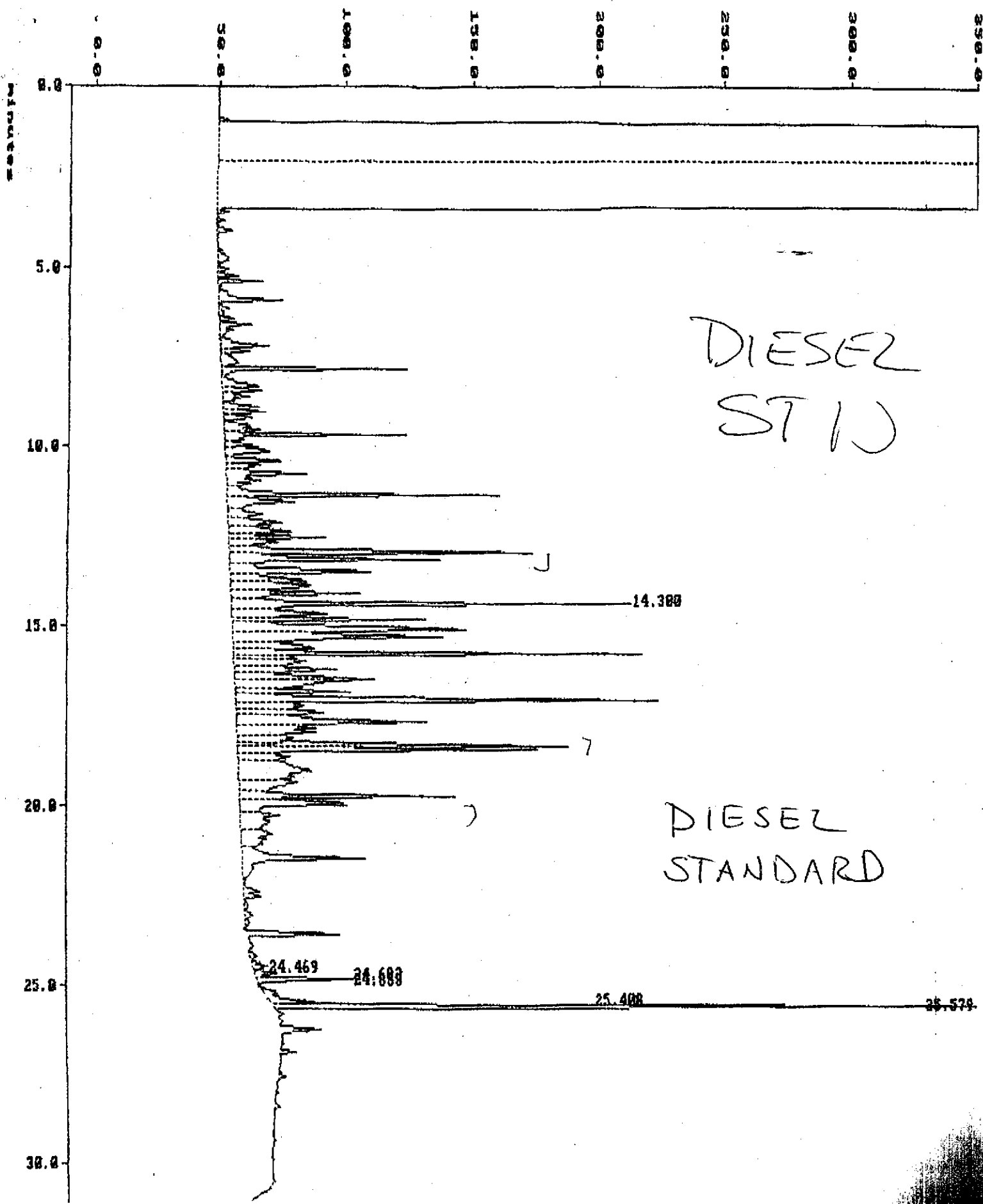
Report Limit	
Multiplication Factor:	1.0
Date Extracted:	5/6/93
Date Analyzed:	5/7/93
Instrument Identification:	HP3B

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL


Eileen A. Manning
Project Manager

Please Note:
Revised report: 10/21/93



minutes

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15.0
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7

DIESEL
STANDARD

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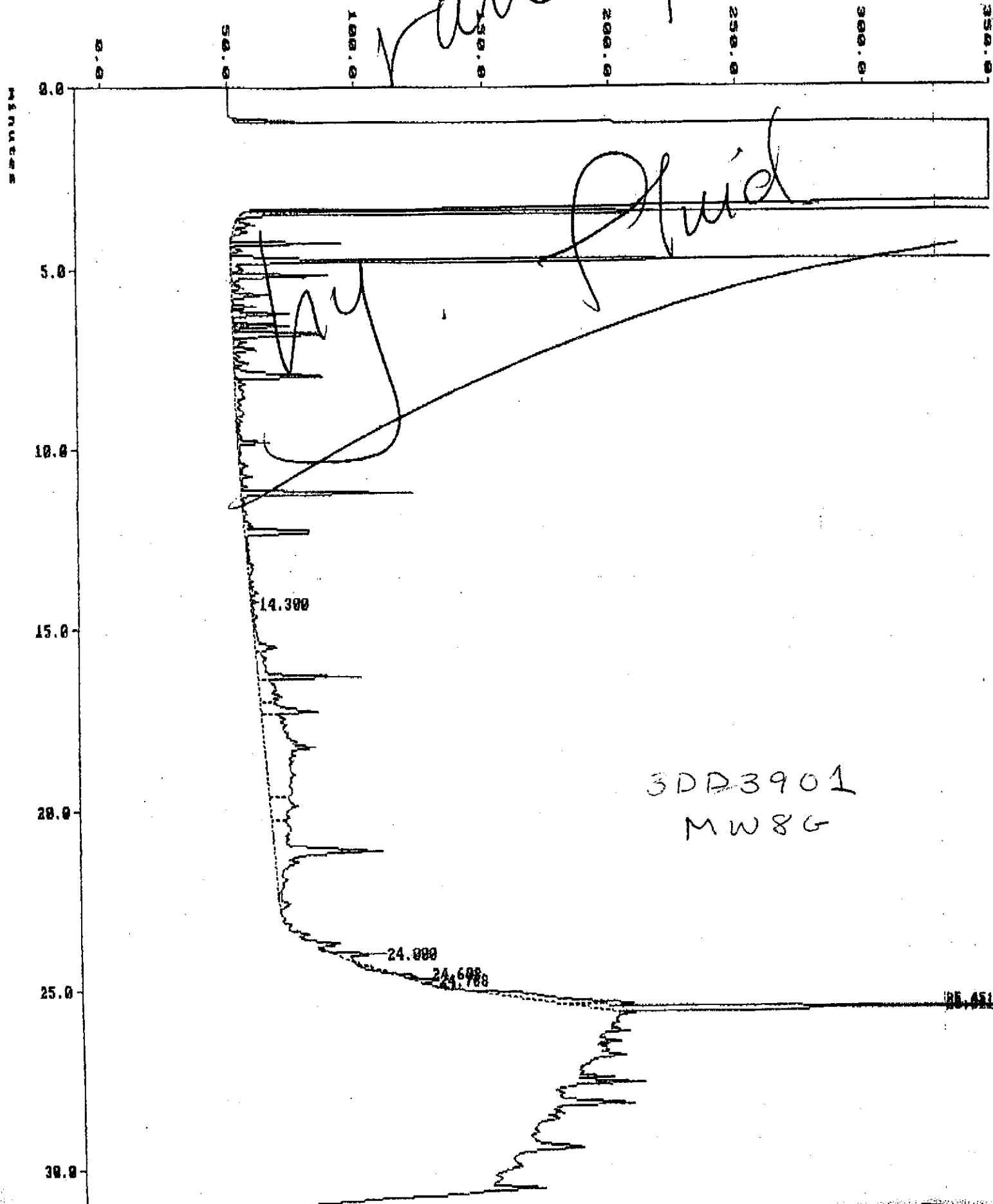
24.689

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run T



3DD3901
MW86

25.451

PROJECT No.

340.34.01

Chain of Custody

Pacific Environmental Group, Inc.

2025 Gateway Place #440, San Jose CA 95110

Phone 408 441 7790 Fax 408 441 7539

Facility No.

Facility Address: 500 GRAND AVE, OAKLAND

Billing Reference Number: TEXACO CONTRACT

CLIENT engineer: BOB ROBLES

PACIFIC Point of Contact: L. DEMIAN

Sampler: L. DEMIAN

Laboratory Name: SEDUOIA

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Type	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	TPH (8015)	Oil and Grease (5520)	Total Dissolv. Metals	VOC (EPA 824/ 8240)	SVOC (EPA 827/ 8270)	HVOC (EPA 601/ 6010)	Comments:
MWBG		40ml	HCL	W	G	4-29-93	0715	X							2 HR RUSH FOR G-BTEX - 8015/8020 MUST HAVE VERBALS BY 2 PM 4/29 LAINLE X 216
MWBG		12IR	NP	W	G	4-29-93	0715		X						
															* SEMI + NON VOLATILE HYDROCARBONS

Condition of Sample:

Temperature Received:

Mail original Analytical Report to:

Turnaround Time:

Relinquished by

Date 4-29-93 Time 0850

Received by

Date Time

2025 Gateway Place #440 San Jose, CA 95110

Priority Rush (1 day)

Relinquished by

Date Time

Received by

Date Time

820 Contra Costa Blvd. #209 Pleasant Hill, CA 94523

Rush (2 days)

Relinquished by

Date Time

Received by

Date Time

26725 Jeronimo Rd. #576C Mission Viejo, CA 92622

Expedited (5 days)

Relinquished by

Date Time

Received by laboratory

Date Time

4020 148th Ave NE #B Redmond, WA 98052

Standard (10 days)

WASTE OIL DIESEL As Contracted

Tim H

4-29-93 0950

(MD)



ALCO
HAZMAT

Texaco Refining
and Marketing Inc.

10 Universal City
Universal City

93 DEC -6 PM 1:38

November 30, 1993

ENV - SERVICE STATIONS

Quarterly Status Report
500 Grand Avenue
Oakland, California

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

Dear Ms. Hugo:

Enclosed is a copy of the Quarterly Groundwater Monitoring Letter Report dated November 4, 1993, for the above former Texaco service station facility. Although the report indicates a small increase in hydrocarbon levels, Texaco feels that the large overall reductions previously seen will continue.

On October 21, 1993, I met with the property owner, Mr. Joe Howard. We discussed his concerns regarding his future plans for site improvements and he said he would proceed with site development plans. I assured Mr. Howard that Texaco would relocate the onsite wells to a suitable area in the event that their presents would interfere with his development plans.

If you have any questions or wish to discuss this report, please call me at (818) 505-2476.

Very truly yours,
Texaco Refining and Marketing Inc.

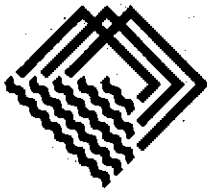

Bob Robles
Environmental Coordinator

RR:rr

Enclosure

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

PR: ()



PACIFIC
ENVIRONMENTAL
GROUP, INC.

ALCO
HAZMAT

93 DEC -6 PM 1:38

November 4, 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 - Fourth Quarter 1993
Former Texaco Service Station
500 Grand Avenue at Euclid Avenue
Oakland, California

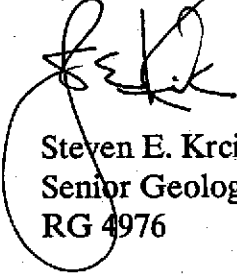
Dear Mr. Robles:

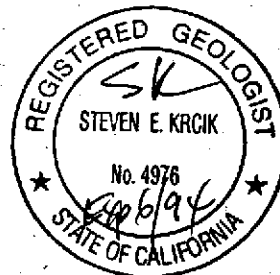
This letter presents the results of the fourth quarter 1993 groundwater sampling and analytical event conducted by Pacific Environmental Group, Inc. (PACIFIC) on October 12, 1993, at the site referenced above (Figures 1 and 2). Groundwater elevation data are presented in Table 1 and shown on Figure 1. 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 documented in a PACIFIC report dated September 24, 1993.

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



November 4, 1993
Page 2

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

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

**Table 1
Groundwater Elevation Data**

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

Well Number	Date Gauged	Well Elevation (feet)	Depth to Water (feet, TOC)	Groundwater Elevation* (feet)	
MW-8A	03/29/91	99.72	2.32	97.40	
	04/23/91		2.31	97.41	
	06/10/91		2.82	96.90	
	06/28/91		2.53	97.19	
	07/23/91		2.35	97.37	
	08/22/91		2.68	97.04	
	10/03/91		2.46	97.26	
	10/24/91		2.53	97.19	
	11/26/91		3.03	96.69	
	12/30/91		2.28	97.44	
	01/23/92		2.57	97.15	
	02/28/92		2.48	97.24	
	03/26/92		2.13	97.59	
	04/30/92		2.10	97.62	
	08/03/92		Well Properly Abandoned		
	MW-8B	03/29/91	101.11	0.26	100.85
04/23/91			0.31	100.80	
06/10/91			0.42	100.69	
06/28/91			0.41	100.70	
07/23/91			0.52	100.59	
08/22/91			0.62	100.49	
10/03/91			0.52	100.59	
10/24/91			0.62	100.49	
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	
03/26/92			0.07	101.04	
04/30/92			0.60	100.51	
09/28/92			Not Monitored		
11/19/92			Not Monitored		
02/12/93		Not Monitored			
04/01/93		Well Properly Abandoned			
MW-8C	03/29/91	98.41	6.47	91.94	
	04/23/91		6.67	91.74	
	06/10/91		8.08	90.33	
	06/28/91		7.36	91.05	
	07/23/91		7.37	91.04	
	08/22/91		8.79	89.62	
	10/03/91		7.93	90.48	
	10/24/91		7.68	90.73	
	11/26/91		7.59	90.82	
	12/30/91		7.15	91.26	
	01/23/92		6.88	91.53	
	02/28/92		6.69	91.72	
	03/26/92		6.69	91.72	
	04/30/92		5.90	92.51	
09/28/92		Not Monitored			

Table 1 (continued)
Groundwater Elevation Data

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

Well Number	Date Gauged	Well Elevation (feet)	Depth to Water (feet, TOC)	Groundwater Elevation* (feet)
MW-8C	11/19/92	-----	Not Monitored	-----
(cont.)	02/12/93	-----	Not Monitored	-----
	04/01/93	-----	Well Properly Abandoned	-----
MW-8E	03/29/91	99.98	3.28	96.10
	04/23/91		3.02	96.36
	06/10/91		3.08	96.30
	06/28/91		3.25	96.13
	07/23/91		3.24	96.14
	08/22/91		3.48	95.90
	10/03/91		3.32	96.06
	10/24/91		3.45	95.93
	11/26/91		3.34	96.04
	12/30/91		3.53	95.85
	01/23/92		3.57	95.81
	02/28/92		3.35	96.03
	03/26/92		3.01	96.37
	04/30/92		3.76	95.62
	08/03/92	-----	Well Properly Abandoned	-----
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
	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	89.18
	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
	10/12/93		10.60	3.44
MW-8G	03/29/91	-----	Well Inaccessible	-----
	04/23/91	97.24	9.44	87.80
	06/10/91		10.29	86.95
	06/28/91		10.30	86.94
	07/23/91		10.74	86.50
	08/22/91		12.56	84.68
	10/03/91		13.09	84.15
	10/24/91		13.42	83.82
	11/26/91		13.02	84.22

Table 1 (continued)
Groundwater Elevation Data

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

Well Number	Date Gauged	Well Elevation (feet)	Depth to Water (feet, TOC)	Groundwater Elevation* (feet)
MW-8G	12/30/91		11.94	85.30
(cont.)	01/23/92		11.30	85.94
	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
	11/19/92	-----	Well Inaccessible	-----
	02/12/93	-----	Well Inaccessible	-----
	05/06/93		11.18	86.06
	08/16/93	13.32 *	9.51	3.81
	10/12/93		10.93	2.39
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
	06/28/91		3.83	95.07
	07/23/91		3.85	95.05
	08/22/91		3.80	95.10
	10/03/91		3.79	95.11
	10/24/91		4.02	94.88
	11/26/91		3.88	95.02
	12/30/91		3.84	95.06
	01/23/92		3.74	95.16
	02/28/92		4.44	94.46
	03/26/92		4.21	94.69
	04/30/92		3.46	95.44
	09/28/92	-----	Well Inaccessible	-----
	11/19/92		3.75	95.15
	02/12/93		4.12	94.78
	05/06/93		3.85	95.05
	08/16/93	15.04 *	3.88	11.16
	10/12/93		3.80	11.24
MW-8I	03/29/91	98.27	6.15	92.12
	04/23/91		6.29	91.98
	06/10/91		6.11	92.16
	06/28/91		6.30	91.97
	07/23/91		6.41	91.86
	08/22/91		6.44	91.83
	10/03/91		6.47	91.80
	10/24/91		6.57	91.70
	11/26/91		6.58	91.69
	12/30/91		6.41	91.86
	01/23/92		6.33	91.94
	02/28/92		6.55	91.72
	03/26/92		6.45	91.82
	04/30/92		6.48	91.79
	09/28/92	-----	Well Inaccessible	-----
	11/19/92		6.37	91.90
	02/12/93		6.44	91.83

Table 1 (continued)
Groundwater Elevation Data

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

Well Number	Date Gauged	Well Elevation (feet)	Depth to Water (feet, TOC)	Groundwater Elevation* (feet)
MW-8I	05/06/93		6.36	91.91
(cont.)	08/16/93	14.40 *	6.35	8.05
	10/12/93		5.99	8.41
MW-8J	03/29/91	97.69	5.71	91.98
	04/23/91		3.81	93.88
	06/10/91		6.17	91.52
	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
	10/24/91		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	91.21
	09/28/92	----- Well Inaccessible -----		
	11/19/92		6.55	91.14
	02/12/93		7.46	90.23
	05/06/93		6.21	91.48
	08/16/93	13.82 *	6.29	7.53
	10/12/93		5.87	7.95
MW-8K	08/16/93	15.18 *	2.08	13.10
	10/12/93		1.95	13.23
MW-8L	08/16/93	14.44 *	2.47	11.97
	10/12/93		2.36	12.08
* = 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*)

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-8A	06/14/88	NA	<0.5	1.5	<2	6.6	NA	NA
	10/25/88	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	5.0	<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 Abandoned							
MW-8B	06/14/88	NA	<0.5	<1	<2	<1	NA	NA
	10/21/88	NA	<0.5	<1	<2	3.1	NA	NA
	09/28/89	<50	<0.5	<0.5	<0.5	<3	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	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
	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	Not Sampled							
11/19/92	Not Sampled							
02/12/93	Not Sampled							
04/01/93	Well Property Abandoned							
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
	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	19	<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	<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*)

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-8C	04/30/92	<50	<0.5	<0.5	<0.5	<0.5	150	<500
(cont.)	09/28/92	----- Not Sampled -----						
	11/18/92	----- Not Sampled -----						
	02/12/93	----- Not Sampled -----						
	04/01/93	----- Well Properly Abandoned -----						
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
	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
	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
	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
	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 Abandoned -----						
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	<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
	10/18/90	<50	<0.5	<0.5	<0.5	<0.5	360	<50
	01/08/91	<30	<0.3	<0.3	<0.3	<0.3	380	620
	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
	10/24/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	01/23/92	<50	4.0	1.3	<0.5	1.9	1,900	NA
	04/30/92	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	09/28/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	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
	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
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
	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 (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

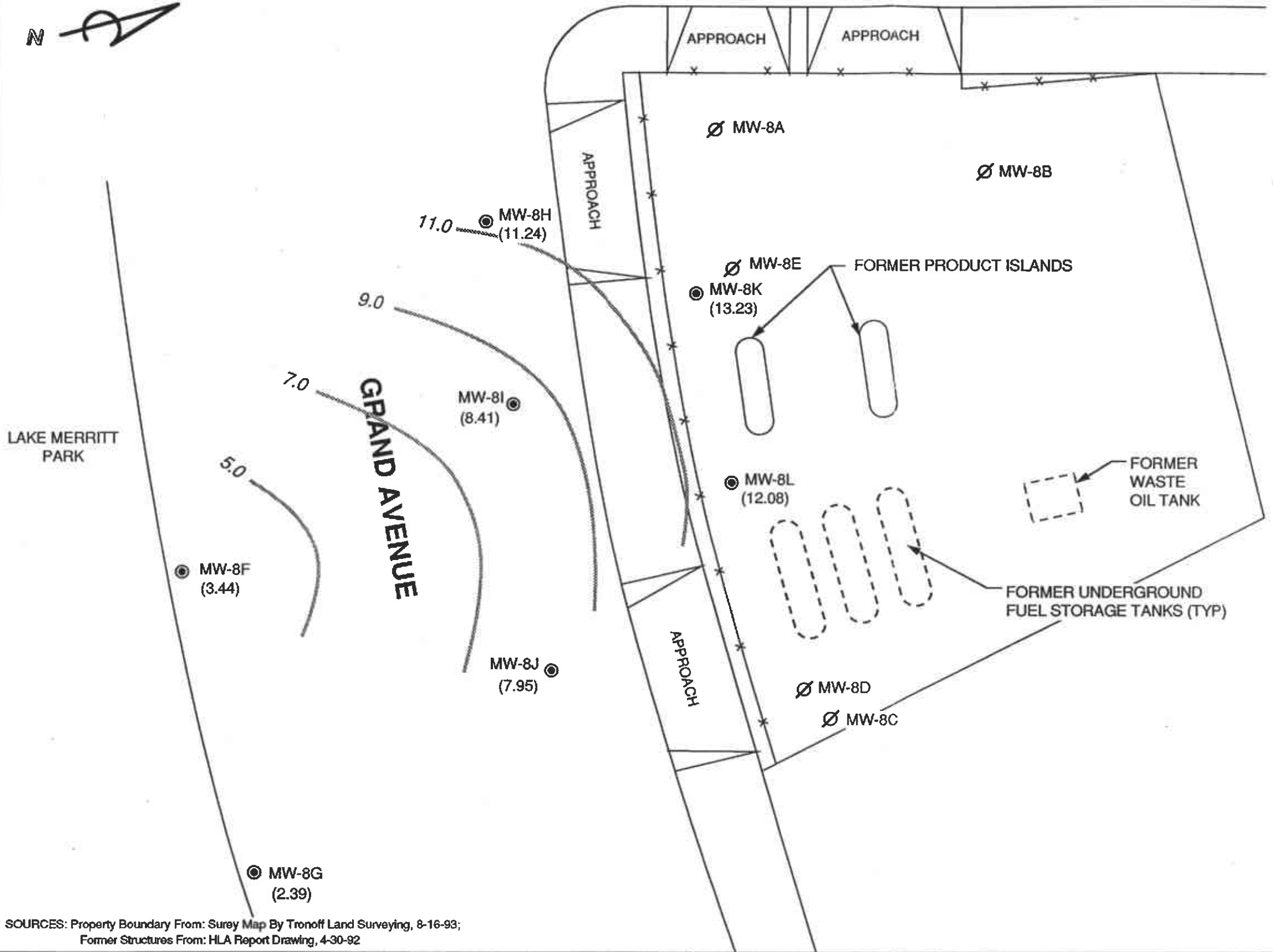
Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	TPH as Other* (ppm)	
MW-8G (cont.)	04/23/91	<50	0.9	0.9	<0.5	<0.5	1,100	<500	
	07/23/91	<50	0.5	1.5	<0.5	3.0	<50	<500	
	10/24/91	<50	0.6	<0.5	<0.5	<0.5	NA	NA	
	01/24/92	<50	<0.5	<0.5	<0.5	<0.5	960	NA	
	04/30/92	<50	1.7	<0.5	<0.5	<0.5	<50	<500	
	09/28/92	Well Dry							
	11/19/92	Well Inaccessible							
	02/12/93	Well Inaccessible							
	04/29/93	<50	<0.5	<0.5	<0.5	<0.5	64 **	<250	
	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	
MW-8H	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	
	04/30/92	190	11	1.5	5.6	3.6	90	<500	
	09/28/92	Well Inaccessible							
	11/19/92	130	6.8	<0.5	1.1	1.5	NA	NA	
	02/12/93	73	5.9	<0.5	0.8	<0.5	NA	NA	
	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		
10/12/93	<50	<0.5	<0.5	<0.5	<0.5	<50	<50		
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	
	10/18/90	530	92	4.1	37	21	<50	<50	
	01/08/91	1,300	500	4.3	36	26	710	210	
	04/23/91	1,500	1,600	17	100	86	1,100	900	
	07/23/91	1,700	1,600	30	140	63	260	<500	
	10/25/91	760	470	6.0	76	13	230	<500	
	01/23/92	820	420	7.2	27	20	210	NA	
	04/30/92	2,200	1,800	19	180	25	430	<500	
	09/28/92	Well Inaccessible							
	11/19/92	720	120	1.1	29	13	NA	NA	
	02/12/93	4,000	970	9.2	52	36	NA	NA	
	05/06/93	1,400	370	2.4	40	8.4	<100	<50	
08/16/93	<50	3.1	<0.5	5.6	<0.5	<50	<50		
10/12/93	<50	1.4	<0.5	<0.5	<0.5	<50	<50		
MW-8J	01/24/90	<100	2.7	<0.5	1	2.6	NA	<300	
	04/26/90	160	28	7.7	19	24	<50	320	
	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50	
	10/18/90	<50	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 (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	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
	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
	09/28/92	----- Well Inaccessible -----						
	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	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
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
	10/24/93	<50	4.2	<0.5	<0.5	<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
	10/12/93	110	13	<0.5	6.2	<0.5	<50	<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	35	490	2,100	<50
		----- Well Abandoned -----						
OB-4	11/06/89	4,000	500	11	10	24	NA	NA
	04/26/90	460	360	10	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
		----- Well Abandoned -----						
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.								

EUCLID AVENUE

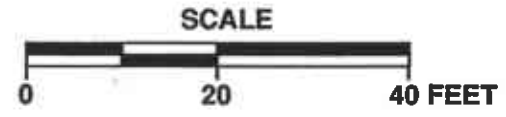


- LEGEND**
- MW-8F ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - MW-8B ∅ ABANDONED WELL LOCATION AND DESIGNATION
 - (12.08) GROUNDWATER ELEVATION IN FEET - MSL, 9-12-93
 - 11.0 — GROUNDWATER ELEVATION CONTOUR IN FEET - MSL, 9-12-93



APPROXIMATE DIRECTION OF GROUNDWATER FLOW
 APPROXIMATE GRADIENT = 0.05 ft/ft

SOURCES: Property Boundary From: Surey Map By Tronoff Land Surveying, 8-16-93;
 Former Structures From: HLA Report Drawing, 4-30-92



TEXACO SERVICE STATION
 500 Grand Avenue at Euclid Avenue
 Oakland, California

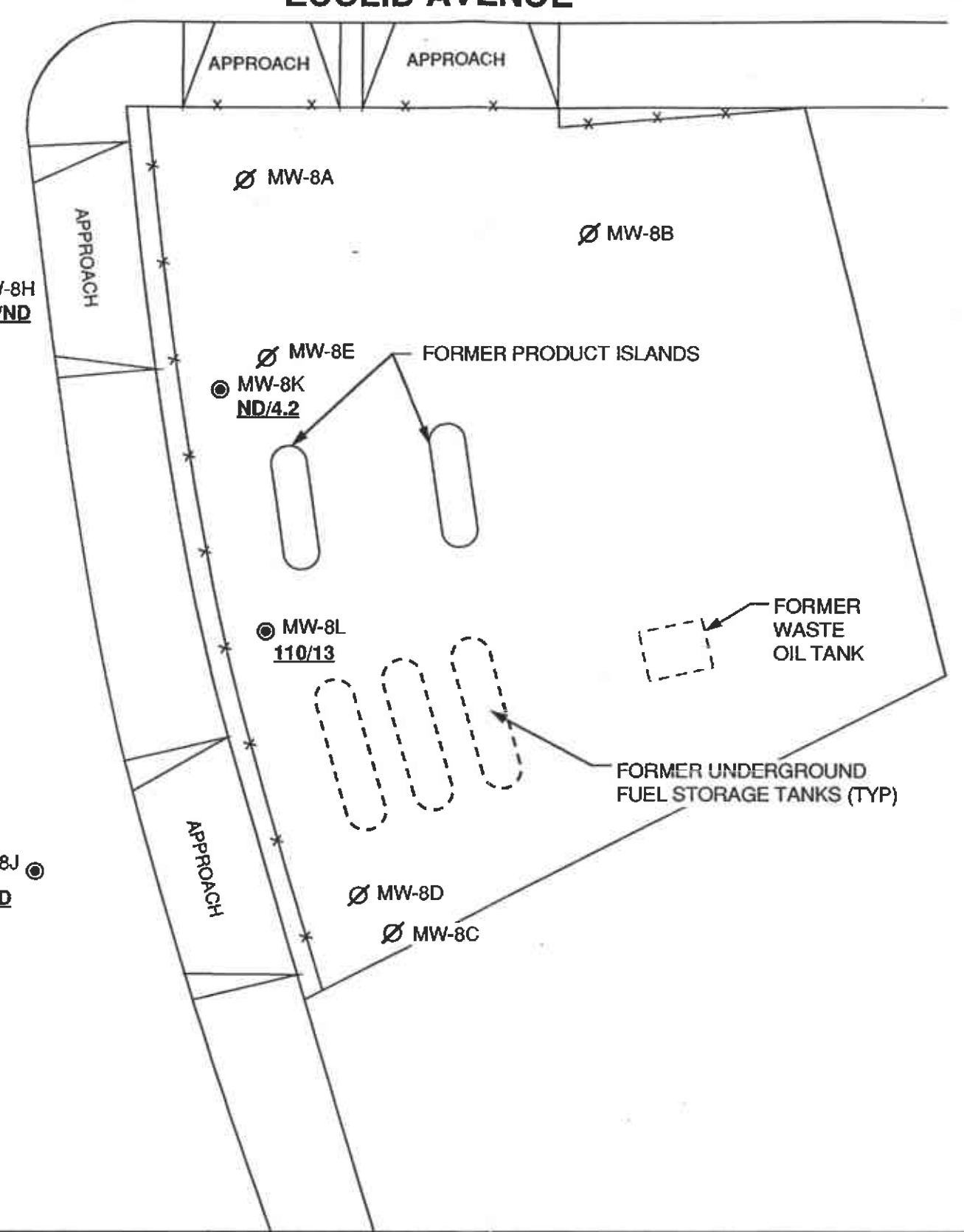
GROUNDWATER ELEVATION CONTOUR MAP

FIGURE:
1
 PROJECT:
 340-34.10



EUCLID AVENUE

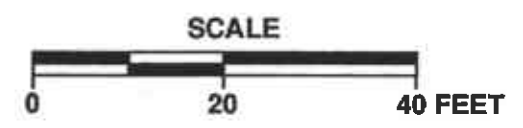
LAKE MERRITT PARK
GRAND AVENUE



- LEGEND**
- MW-8F ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - MW-8B ∅ ABANDONED WELL LOCATION AND DESIGNATION
 - ND/1.4 TPH-g/BENZENE CONCENTRATION IN GROUNDWATER, IN PARTS PER MILLION, 9-12-93
 - ND NOT DETECTED



SOURCES: Property Boundary From: Surey Map By Tronoff Land Surveying, 8-16-93;
Former Structures From: HLA Report Drawing, 4-30-92



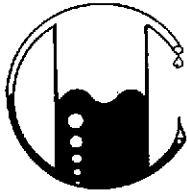
TEXACO SERVICE STATION
500 Grand Avenue at Euclid Avenue
Oakland, California

TPH-g/BENZENE CONCENTRATION MAP

FIGURE:
2
PROJECT:
340-34.10

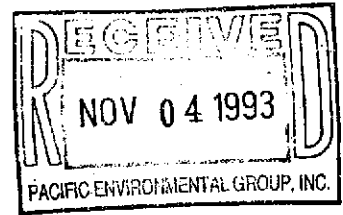
ATTACHMENT A

**CERTIFIED ANALYTICAL REPORT AND
CHAIN-OF-CUSTODY DOCUMENTATION**



MOBILE CHEM LABS INC.

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Phone (510) 372-3700 • Fax (510) 372-6955



340-34.10\1428\013045

Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attn: Maree Doden
Pacific Contact

Date Sampled: 10-12-93
Date Received: 10-13-93
Date Analyzed: 10-15-93

Sample Number

103303

Sample Description

Project # 340-34.10
Texaco - Oakland
500 Grand Ave.
MW8F(14') WATER

ANALYSIS

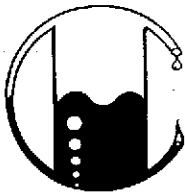
	<u>Detection Limit</u>	<u>Sample Results</u>
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

QA/QC: Spike Recovery is 82%

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



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340-34.10\1428\013045

Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attn: Maree Doden
Pacific Contact

Date Sampled: 10-12-93
Date Received: 10-13-93
Date Analyzed: 10-18-93

Sample Number

103304

Sample Description

Project # 340-34.10
Texaco - Oakland
500 Grand Ave.
MW8G(14') WATER

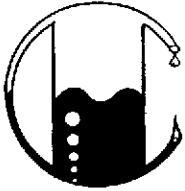
ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	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) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



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340-34.10\1428\013045

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2025 Gateway Place, Suite 440
San Jose, CA 95110
Attn: Maree Doden
Pacific Contact

Date Sampled: 10-12-93
Date Received: 10-13-93
Date Analyzed: 10-18-93

Sample Number

103305

Sample Description

Project # 340-34.10
Texaco - Oakland
500 Grand Ave.
MW8H(12') WATER

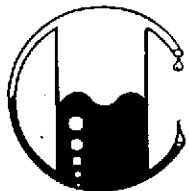
ANALYSIS

	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) = ($\mu\text{g/L}$)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



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340-34.10\1428\013045

Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attn: Maree Doden
Pacific Contact

Date Sampled: 10-12-93
Date Received: 10-13-93
Date Analyzed: 10-15-93

Sample Number

103306

Sample Description

Project # 340-34.10
Texaco - Oakland
500 Grand Ave.
MW8I (13') WATER

ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	1.4
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) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



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340-34.10\1428\013045

Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attn: Maree Doden
Pacific Contact

Date Sampled: 10-12-93
Date Received: 10-13-93
Date Analyzed: 10-15-93

Sample Number

103307

Sample Description

Project # 340-34.10
Texaco - Oakland
500 Grand Ave.
MW8J(12') WATER

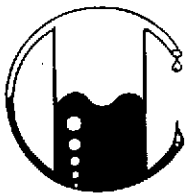
ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	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) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



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340-34.10\1428\013045

Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attn: Maree Doden
Pacific Contact

Date Sampled: 10-12-93
Date Received: 10-13-93
Date Analyzed: 10-15-93

Sample Number

103308

Sample Description

Project # 340-34.10
Texaco - Oakland
500 Grand Ave.
MW8K(15') WATER

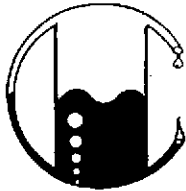
ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	4.2
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) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



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340-34.10\1428\013045

Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attn: Maree Doden
Pacific Contact

Date Sampled: 10-17-93
Date Received: 10-13-93
Date Analyzed: 10-15-93

Sample Number

103309

Sample Description

Project # 340-34.10
Texaco - Oakland
500 Grand Ave.
MW8L(16') WATER

ANALYSIS

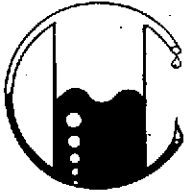
	<u>Detection Limit</u>	<u>Sample Results</u>
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	110
Benzene	0.5	13
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	6.2

QA/QC: Duplicate Deviation is 4.8%

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

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

340-34.10\1428\013045

Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attn: Maree Doden
Pacific Contact

Date Sampled: 10-12-93
Date Received: 10-13-93
Date Analyzed: 10-15-93

Sample Number

103310

Sample Description

Project # 340-34.10
Texaco - Oakland
500 Grand Ave.
TB-1 WATER

ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	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) = ($\mu\text{g/L}$)

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340-34.10\1342\013045

Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attn: Maree Doden
Pacific Contact

Date Sampled: 10-12-93
Date Received: 10-13-93
Date Analyzed: 10-15-93

Sample Number	Sample Description	Detection Limit	WATER
			Total Petroleum Hydrocarbons as Diesel
			ppb
Texaco - Oakland 500 Grand Avenue Project No.: 340-34.10			
103303	MW-8F(14')	50	<50
103304	MW-8G(14')	50	<50
103305	MW-8H(12')	50	<50
103306	MW-8I(13')	50	<50
103307	MW-8J(12')	50	<50
103308	MW-8K(15')	50	<50
103309	MW-8L(16')	50	<50

QA/QC: Spike Recovery on 103309 is 114%
Duplicate Deviation on 103309 is 7.5%

Note: Analysis was performed using EPA method 3510 and TPH LUFT.
(ppb) = (µg/L)

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340-34.10\1223\013045

Pacific Environmental Group
2025 Gateway Place, #440
San Jose, CA 95110
Attn: Maree Doden
Pacific Contact

Date Sampled: 10-12-93
Date Received: 10-13-93
Date Analyzed: 10-14-93

Sample Number	Sample Description	Detection Limit ppm	WATER Gravimetric Waste Oil as Petroleum Oil ppm
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Project # 340-34.10
Texaco - Oakland
500 Grand Ave.

103303	MW-8F(14')	50	<50
103304	MW-8G(14')	50	<50
103305	MW-8H(12')	50	<50
103306	MW-8I(13')	50	<50
103307	MW-8J(12')	50	<50
103308	MW-8K(15')	50	<50
103309	MW-8L(15')	50	<50

QA/QC: Spike Recovery on 103307 is 95%
Duplicate Deviation on 103307 is 1.6%

Note: Analysis was performed using EPA extraction method 3550
with Trichlorotrifluoroethane as solvent, and gravimetric
determination by standard methods 5520
(ppm) = (mg/kg)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

Pacific Environmental Group, Inc.
 2025 Gateway Place #440, San Jose CA 95110
 Phone 408 441 7790 Fax 408 441 7539

Chain of Custody 1 of 3

PROJECT No. 340-34.10

Facility No. TEXACO Facility Address: 500 GRAND AVE OAKLAND Billing Reference Number:

CLIENT engineer: BOB RUBLE PACIFIC Point of Contact: M. DODEN Sampler: J. RANSOME Laboratory Name: MOBILE CHEM

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	W-water S-soil A-air	G-grab D-disc. C-comp.	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	TPH Diesel (8015)	Oil and Grease (5520)	Total Dissolv. Metals	VOC (EPA 824/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)
MW8F(14')	2	40	Hcl	W		G	10/12	1530	X						
↓	1	1000	NP							X					
↓	1	1000	Hcl								X				
MW8G(14')	2	40	Hcl					1550	X						
↓	1	1000	NP							X					
↓	1	1000	Hcl								X				
MW8H(12')	2	40	Hcl					1455	X						
↓	1	1000	NP							X					
↓	1	1000	Hcl								X				
MW8I(13')	2	40	Hcl					1510	X						

Comments:
 Please Fax Results ON 5 DAY TAT!!
 MAY CHANGE TAT TO 72HRS

Condition of Sample: OR ICF NO head space, Temperature Received: OR ICF NO head space, Mail original Analytical Report to: Pacific Environmental Group Turnaround Time:

Relinquished by <u>John Ranson</u> Date <u>10/12/93</u> Time <u>1730</u>	Received by <u>M. Doden</u> Date <u>10/13/93</u> Time <u>0730</u>	2025 Gateway Place #440 San Jose, CA 95110 <input checked="" type="checkbox"/> 620 Contra Costa Blvd. #209 Pleasant Hill, CA 94523 <input type="checkbox"/> 25725 Jeronimo Rd. #576C Mission Viejo, CA 92622 <input type="checkbox"/> 4020 148th Ave NE #B Redmond, WA 98052 <input type="checkbox"/>	Priority Rush (1 day) <input type="checkbox"/>
Relinquished by <u>M. Doden</u> Date <u>10/13/93</u> Time <u>10:50</u>	Received by		Rush (2 days) <input type="checkbox"/>
Relinquished by	Received by		Expedited (5 days) <input checked="" type="checkbox"/>
Relinquished by	Received by laboratory <u>Dave Levine</u> Date <u>10-13-93</u> Time <u>10:50</u>		Standard (10 days) <input type="checkbox"/>
			As Contracted <input type="checkbox"/>

