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Case Closure Summary

ARCO Service Station 4494
566 Hegenberger Road
Oakland, California

Alameda County Health Care Services Agency

Prepared for

ARCO Products Company

August 16, 1996

Prepared by

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

Project 330-041.6A



PACIFIC
ENVIRONMENTAL
GROUP, INC.

PROFESSIONAL CERTIFICATION

Case Closure Summary

ARCO Service Station 4494

566 Hegenberger Road

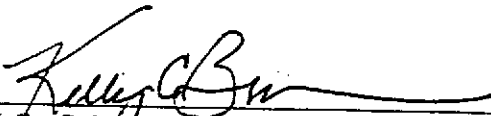
Oakland, California

Alameda County Health Care Services Agency

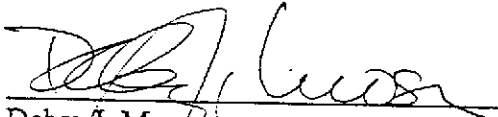
August 16, 1996

Pacific Environmental Group, Inc. (PACIFIC) has performed investigative and remedial activities for ARCO Products Company (ARCO) at the ARCO Service Station 4494 located at 566 Hegenberger Road in Oakland, California.

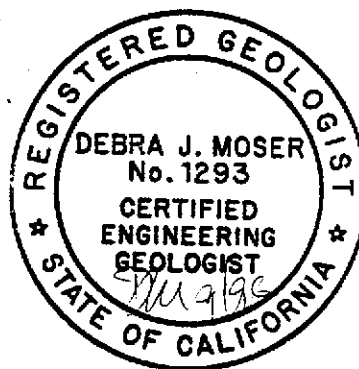
This Case Closure Summary has been prepared by PACIFIC staff under the professional supervision of the Senior Geologist whose seal and signature appear hereon.



Kelly C. Brown
Project Manager



Debra J. Moser
Senior Geologist
CEG 1293



cc: Mr. Paul Supple, ARCO Products Company
Mr. Kevin Graves, Regional Water Quality Control Board, S.F. Bay Region

Case Closure Summary

Leaking Underground Fuel Storage Tank Program

I. Agency Information

Date: August 16, 1996

Agency Name: Alameda County Health Care Services Agency	Address: 1131 Harbor Bay Pkwy.
City/State/Zip: Alameda, CA 94502	Phone: (510) 567-6700
Responsible Staff Person: Mr. Barney Chan	Title:

II. Case Information

Site Facility Name: ARCO Service Station 4494		
Site Facility Address: 566 Hegenberger Road, Oakland, California		
RB LUSTIS Case No: N/A	Local Case No: N/A	LOP Case No: N/A
URF Filing Date: Initial Report: Unknown	SWEEPS No: N/A	
Responsible Parties	Addresses	Phone Numbers
ARCO Products Company	P.O. Box 6549	(510) 299-8891
Attn.: Mr. Paul Supple	Moraga, CA 94570	

III. Tank Information

Tank I.D. No.	Size in Gallons	Contents	Closed in place/ Removed?	Date
1	10,000	Gasoline	Replaced	12/92
2	10,000	Gasoline	Replaced	12/92
3	10,000	Gasoline	Replaced	12/92
4	280	Used Oil	Removed	12/88

Former USTs were replaced with three double-walled 10,000 gallon USTs in a new complex in 12/92. Product lines were also replaced in 12/92.

IV. Release and Site Characterization Information

Cause and type of release: Release from former underground USTs and lines.		
Site characterization complete? Yes	Date approved by oversight agency: N/A	
Monitoring wells installed? Yes	Number: 8	Proper screened interval? Yes
Highest GW depth below ground surface: 10.2 ft	Lowest: 5.1 ft	Flow direction: Northwest
Most sensitive current use: Unknown		

Are drinking water wells affected? No	Aquifer name: Unknown
Is surface water affected? No	Nearest affected SW name: Unknown
Off-site beneficial use impacts: Unknown.	

V. Treatment/disposal Methods (attach any additional info.)

Treatment and Disposal of Affected Material									
Material	Amount (Include Units)				Action (Treatment or Disposal Method)	Date			
Tanks	3-10,000 gl GAS, 1-280 gl OIL				Excavation and Replacement	12/88 & 12/92			
Piping/Islands	160 feet/2 islands				Excavation and Replacement	12/92			
Free Product	0.92 foot				Skimmed during UST Replacement	12/92			
Soil	1,200 cubic yards				Over Excavation	12/88 & 12/92			
Groundwater	NA				NA	NA			

Maximum Documented Contaminant Concentrations -- Before and After Cleanup									
Optional: See Tables 2, 3, Figure 1 for additional information on contaminant locations and concentrations.									
Contaminant	Soil (ppm)		Water (ppm)		Contaminant	Soil (ppm)		Water (ppm)	
	Before	After	Before	After		Before	After	Before	After
TPPH-g	52,000	NA	78,000	1,100	1,2-DCA	NA	NA	NA	NA
TEPH-d	5,700	NA	ND	ND	Oil & Grease	4,500	ND	ND	ND
Benzene	220	NA	2,900	7.6	Lead	NA	NA	NA	NA
Toluene	1,400	NA	6,700	21	MTBE	NA	NA	NA	NA
Ethylbenzene	440	NA	2,900	46	Motor Oil	NA	NA	NA	NA
Xylenes	2,700	NA	16,000	180					

Comments: NA = Not analyzed. ND = Not detected. See attached tables

VI. Closure

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Yes		
Site management requirements: None		
Should corrective action be reviewed if land use changes? No		
Monitoring wells decommissioned: No	Decommissioned: 0	Retained: 8
List enforcement actions taken: None		
Groundwater Recovery Well RW-1 was used to monitor and remove any black oil from storm drain backfill material.		
All impacted soils were excavated and removed during UST replacement activities in 12/92.		
List enforcement actions rescinded: None		

VII. Additional Comments, Data, etc.

No visible holes or cracks were noted in the former USTs during replacement activities. The black oil substance noted in the northeast corner of the former UST excavation came from the existing storm drain backfill material from an off-site source. This was agreed upon by ACHCS. Soils have been remediated with the overexcavation of the product lines, dispensers, and USTs during UST removal and replacement activities. The soil source was removed. Well MW-2 was destroyed during UST excavation and over-excavation activities.

Clean soils from the new UST excavation were used to backfill the former UST excavation. Hydrocarbons remaining in groundwater are noted only in Well RW-1 and are due to the black oil substance, originating from an off-site source. All other wells are noted to have non-detect levels for hydrocarbons.

Site closure was tentatively approved by Mr. Barney Chan with the ACHCSA during a meeting with PACIFIC and ARCO.

Conclusion:

Concentrations for TPH-g and benzene are non-detect for groundwater in all wells except Well RW-1. These hydrocarbons are due to the black oil substance, which is not related to any ARCO operations.

Soil source was removed by excavation during UST replacement.

VIII. Local Agency Representative Data

Agency:	Address:
City/State/Zip:	Phone:
Responsible Staff Person:	Title:

IX. Consultant Report Summary

Report	Consulting Firm	Title	Date
Final Closure			
Final RAP			
Initial RAP			
Site Assessment			
Other Reports (list in reverse chronological order)			
	see attached document list		

Attachments:

Table 1 - Site Document List

Plate 2 - Generalized Site Plan (copy)

Plate 2-A - Generalized Site Plan, showing Well RW-1 and Slurry Wall (edited copy)

Plate 3 - Slurry Wall Schematic (edited copy)

Plate 7 - Geologic Cross Section A-A' (copy)

Plate 8 - Geologic Cross Section B-B' (copy)

Plate 9 - Geologic Cross Section C-C' (copy)

Attachment A - Historical Soil Analytical Data Tables (copy)

Attachment B - Historical Liquid Surface Elevation and Groundwater Analytical Data Tables (copy)

ATTACHMENT A
HISTORICAL SOIL ANALYTICAL DATA TABLES

COPY

RESNA

Working To Restore Nature

Additional Subsurface Investigation
ARCO Station 4494, Oakland, California

October 27, 1992
69038.10

TABLE 1
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES
ARCO Station 4494
Oakland, California
(Page 1 of 3)

Sample ID	TPHg	TPHd	B	T	E	X	TOG
<u>December 1988</u>							
WO-1	11*	570.+**	NA	NA	NA	NA	4,500(4800)
WO-2	<5*	<10**	NA	NA	NA	NA	<20(<10)
<u>January 1989</u>							
WOSW-E	NA	<10**	NA	NA	NA	NA	190(50)
WOSW-S	NA	<10**	NA	NA	NA	NA	<10(<10)
WOSW-W	NA	<10**	NA	NA	NA	NA	<10(<10)
WOSW-N	NA	53**	NA	NA	NA	NA	200(400)
WOSW-N2	NA	<10**	NA	NA	NA	NA	10(<10)
<u>October 1989</u>							
S-5-B1	<1.0	200	<0.005	<0.005	<0.005	<0.005	1,600
S-10-B1	<1.0	<10	<0.005	<0.005	<0.005	<0.005	<30
S-20-B1	<1.0	<10	<0.005	<0.005	<0.005	<0.005	<30
S-24-B1	<1.0	<10	<0.005	<0.005	<0.005	<0.005	<30
S-5-B2	52	<10	1.8	0.25	0.48	2.6	280
S-11-B2	30	<10	0.75	0.51	0.43	2.7	<30
S-16-B2	52,000	5,700	<100	1,400	440	2,700	2,300
S-16-B2#			(120)	(930)	(490)	(3,200)	
S-19-B2	11	14	0.25	1.2	0.22	1.5	<30
S-21-B2	<1.0	<10	<0.005	0.012	<0.005	0.021	<30
S-5-B3	<2.0	<10	<0.050	<0.050	<0.050	<0.050	<50
S-20-B3	<2.0	<10	<0.050	<0.050	<0.050	<0.050	<50
<u>August 1990</u>							
S-7-B4	<2.0	36	<0.050	<0.050	<0.050	<0.050	110
S-10-B4	<2.0	<10	<0.050	<0.050	<0.050	<0.050	<50
S-19.5-B4	<2.0	15	<0.050	<0.050	<0.050	<0.050	<50
S-22-B4	NA	<10	NA	NA	NA	NA	NA
S-6-B5	<2.0	<10	<0.050	<0.050	<0.050	<0.050	<50
<u>March 1991</u>							
S-5-B6	<1.0	NA	<0.005	<0.005	<0.005	<0.005	NA
S-5-B7	63	NA	1.0	0.23	0.86	1.8	NA
S-10-B7	<1.0	NA	<0.005	<0.005	<0.005	0.006	NA
S-5-B8	29	NA	0.86	0.088	0.36	0.21	NA
S-5-B9	5.4	NA	0.66	0.035	0.31	<0.005	NA
S-10-B9	<1.0	NA	0.037	<0.005	0.011	0.036	NA
S-5-B10	3.0	NA	0.28	0.013	<0.005	0.023	NA
S-10-B10	5.2	NA	0.53	0.036	0.096	0.23	NA
S-6-B11	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	330
S-11-B11	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<30
S-6-B12	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<30
S-11-B12	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<30
S-6-B13	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<30
S-11-B13	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<30
S-5-B14	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	570

See notes on Page 3 of 3.

Additional Subsurface Investigation
ARCO Station 4494, Oakland, California

October 27, 1992
69038.10

TABLE 1
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES
ARCO Station 4494
Oakland, California
(Page 2 of 3)

Sample ID	TPHg	TPHd	B	T	E	X	TOG
<u>March 1991</u>							
S-11-B14	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<30
S-6-B15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	280
S-10.5-B15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<30
S-5.5-B16	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<30
S-6-B17	69	<100	1.3	1.7	1.0	2.2	1,100
<u>July 1992</u>							
S-5.5-B18	<1.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-10.5-B18	<1.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-5.5-B19	<1.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-10.5-B19	<1.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-7-B-20	<1.0	NA	0.022	<0.0050	<0.0050	<0.0050	NA
<u>COMPOSITE STOCKPILE SAMPLES</u>							
<u>June 1990</u>							
SP-O619-1A							
SP-0619-1B	19	110	<0.050	<0.050	0.067	0.67	<0.5
SP-0619-1C							
SP-0619-1D							
<u>August 1990</u>							
S-B3-1							
S-B3-2							
S-B4-1	<2.0	<10	<0.050	<0.050	<0.050	<0.050	<0.5
S-B4-2							
S-B4-3							
<u>April 1991</u>							
S-0411-1A							
S-0411-1B							
S-0411-1C	<1.0	NA	<0.0050	0.0080	0.0098	0.017	NA
S-0411-1D							
<u>July 1992</u>							
SP-0710-A							
SP-0710-B							
SP-0710-C	<1.0	NA	0.014	<0.0050	0.0060	<0.0050	NA

See notes on Page 3 of 3.

Additional Subsurface Investigation
ARCO Station 4494, Oakland, California

October 27, 1992
69038.10

TABLE 1
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES
ARCO Station 4494
Oakland, California
(Page 3 of 3)

Results in parts per million (ppm).

TPHg = Total petroleum hydrocarbons as gasoline.

TPHd = Total petroleum hydrocarbons as diesel.

B = benzene, T = toluene, E = ethylbenzene, X = total xylenes

TOG = Total oil and grease.

< = Below indicated laboratory reporting limits.

ND = Not detected above laboratory reporting limits for respective compounds.

NA = Not analyzed.

* = Analyzed as low boiling hydrocarbons as gasoline (LBHC-g).

** = Analyzed as high boiling hydrocarbons as diesel (HBHC-d).

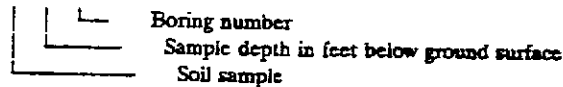
(4,800) = Analyzed as high boiling hydrocarbons as oil (HBHC-o).

+ = Chromatographic pattern of compounds detected and calculated as diesel does not match that of the diesel standard used for calibration.

= Results of analysis by EPA Method 8240.

Sample Identification:

S-10.5-B12



S-0411-1(A-D)

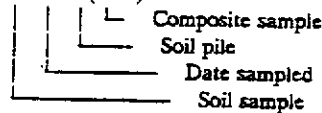


TABLE 3
 RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES
 FOR METALS
 ARCO Station 4494
 Hegenberger Road and Edes Avenue
 Oakland, California

Sample Identifier	VOCs	Total Cadmium	Total Chromium	Total Lead	Total Zinc
S-5-B1	NA	<0.5	46.8	29.8	67.3
S-10-B1	NA	<0.5	31.2	<1.0	48.5
S-20-B1	NA	<0.5	39.2	<1.0	62.5
S-24-B1	NA	0.757	48.2	<1.0	81.5
S-5-B2	NA	<0.5	32.4	19.9	64.1
S-11-B2	NA	<0.5	22.4	2.16	33.4
S-16-B2	NA	<0.5	27.6	10.2	43.3
S-19-B2	NA	<0.5	40.6	<1.0	60.1
S-21-B2	NA	<0.5	51.2	<1.0	126
S-5-B3	NA	1.1	49	66	48
S-20-B3	NA	2.1	55	79	45
S-7-B4	NA	4.8	85	170	31
S-10-B4	NA	2.7	63	88	44
S-19.5-B4	NA	2.3	66	94	52
S-6-B5	ND	3.4	58	84	41
TTLIC		100	2,500	1,000	5,000

Results in milligrams per kilogram (mg/kg), or parts per million (ppm).

NA: Not analyzed.

ND: Below the detection limit; see laboratory data sheets for detection limits.

TTLIC: Total Threshold Limit Concentration values (Title 22 of California Administrative Code, January 1988).

Sample Identification:

S-6-B5



Boring number
 Approximate sample depth in feet
 Soil sample

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Report on Tank Removal Investigation
ARCO Station 4494, Oakland, California.

May 17, 1993
69038.13

TABLE 1
RESULTS OF LABORATORY ANALYSES OF NEW TANK PIT SOIL SAMPLES
ARCO Station 4494
Oakland, California

Sample ID	B	T	E	X	TPHg	STLC Lead
<u>Borings December 8, 1992</u>						
S-4.5-B21	0.010(<0.50)	<0.0050(<0.50)	<0.0050(<0.50)	0.0070(<0.50)	2.3	0.31
S-10-B21	<0.0050(<0.50)	<0.0050(<0.50)	<0.0050(<0.50)	<0.0050(<0.50)	<1.0	<0.10
S-5.5-B22	<0.0050(<0.50)	<0.0050(<0.50)	<0.0050(<0.50)	<0.0050(<0.50)	<1.0	<0.10
S-10-B22	<0.0050(<0.50)	<0.0050(<0.50)	<0.0050(<0.50)	<0.0050(<0.50)	<1.0	<0.10
S-5-B23	<0.0050(<0.50)	<0.0050(<0.50)	<0.0050(<0.50)	<0.0050(<0.50)	<1.0	<0.10
S-10-B23	<0.0050(<0.50)	<0.0050(<0.50)	<0.0050(<0.50)	<0.0050(<0.50)	<1.0	<0.10
S-4.5-B24	<0.0050(<0.50)	0.034(<0.50)	0.039(<0.50)	0.22(<0.50)	1.8	<0.10
S-9.5-B24	<0.0050(<0.50)	<0.0050(<0.50)	<0.0050(<0.50)	<0.0050(<0.50)	<1.0	<0.10
<u>Tank Pit Sidewall January 7, 1993</u>						
S-4.5-NP	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	NA
S-4.5-SP	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	NA

Results in parts per million (ppm), the exception of TCLP BTEX which was reported in parts per billion (ppb).
 < : Less than the indicated laboratory detection limit.
 B: benzene, T: toluene, E: ethylbenzene, X: total xylenes
 TPHg : Total petroleum hydrocarbons as gasoline.
 TPHg with BTEX distinction measured by EPA Methods 5030/8015/8020.
 () : Analytical results of toxicity characteristic leaching procedure (TCLP) for BTEX in ppb.
 NA : Not analyzed.

Sample Identification:

Soil Borings:

S-4.5-B21



Boring number
Depth of sample in feet
Soil sample

Excavation Samples:

S-4.5-NP



North corner of pit
Depth of sample in feet
Soil sample

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RESNA

Working to Restore Nature

Report on Tank Removal Investigation
ARCO Station 4494, Oakland, California.

May 17, 1993
69038.13

TABLE 2
RESULTS OF LABORATORY ANALYSES OF FORMER GASOLINE TANK PIT SOIL SAMPLES
ARCO Station 4494
Oakland, California

Sample ID	B	T	E	X	TPHg
<u>December 17, 1992</u>					
S-10-TP1	3.5	0.99	7.2	6.0	190
S-9-TP2	0.50	0.26	0.46	2.0	23
S-9.5-TP3	2.2	1.6	7.0	5.7	220
S-10-TP4	0.14	0.028	0.013	0.066	4.7
S-9-TP5	0.031	0.020	0.014	0.059	5.2
S-9-TP6	0.058	0.010	0.0050	0.010	2.0
<u>December 18, 1992</u>					
S-11-TP7	1.7	0.083	1.0	0.63	33

Results in parts per million (ppm).

NA : Not analyzed.

< : Less than the indicated laboratory detection limit.

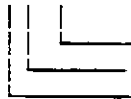
B: benzene, T: toluene, E: ethylbenzene, X: total xylenes.

TPHg : Total petroleum hydrocarbons as gasoline.

(TPHg with BTEX distinction measured by EPA Methods 5030/8015/8020).

Sample Identification:

S-10-TP1



Tank number
Depth of sample in feet
Soil sample

Report on Tank Removal Investigation
ARCO Station 4494, Oakland, California.

May 17, 1993
69038.13

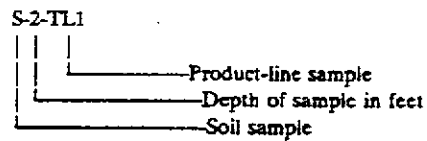
TABLE 3
RESULTS OF LABORATORY ANALYSES OF PRODUCT-LINE
AND PRODUCT-DISPENSER SOIL SAMPLES
ARCO Station 4494
Oakland, California

Sample ID	B	T	E	X	TPHg	TOG
<u>December 17, 1992</u>						
S-2-TL1	220	1,000	310	1,700	12,000	NA
S-2-TL2	5.6	15	6.6	26	190	NA
S-2-TL3	0.83	0.095	0.34	0.33	25	NA
S-2-TL4	0.83	3.9	0.92	5.6	30	NA
S-2-TL5	10	7.7	34	120	1,100	NA
S-2-TL6	0.16	0.044	0.018	1.1	8.4	NA
S-2-TL7	0.71	0.055	0.80	0.44	22	NA
<u>December 18, 1992</u>						
S-14-TL1	<0.005	<0.005	<0.005	<0.015	<5	NA
S-5-TL3	0.047	0.006	0.010	0.019	<5	<10
S-12-TL5	1.5	0.21	1.6	0.95	58	NA

Results in parts per million (ppm).

- < : Less than the laboratory detection limit.
- B: benzene, T: toluene, E: ethylbenzene, X: total xylenes
- BTEX : Measured by EPA Method 8020.
- TPHg : Total petroleum hydrocarbons as gasoline by EPA Methods 5030/8015.
- TOG : Total oil and grease by EPA Method 418.1.
- NA : Not analyzed.

Sample Identification:



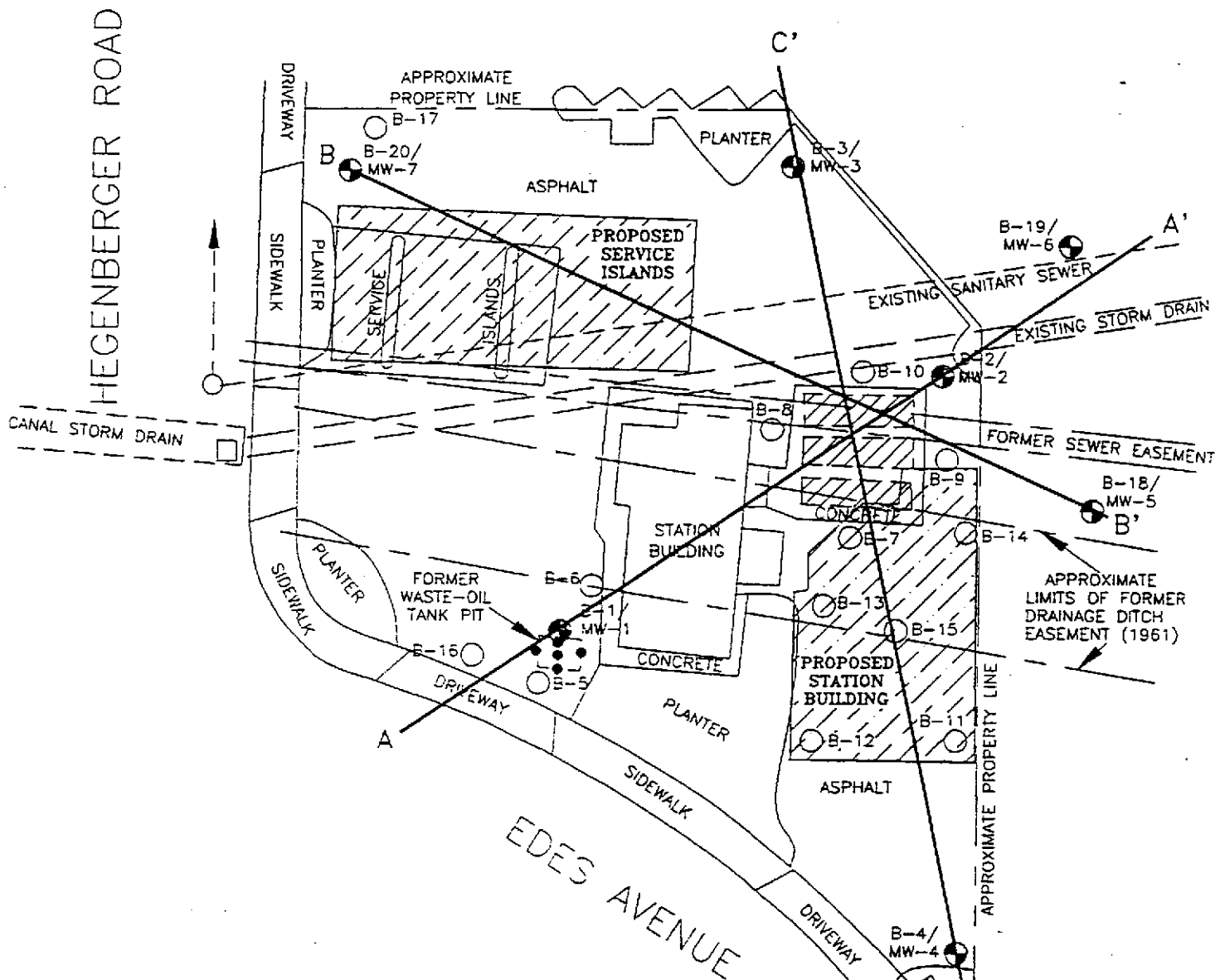
ATTACHMENT B

**HISTORICAL LIQUID SURFACE ELEVATION AND
GROUNDWATER ANALYTICAL DATA TABLES**

Table 1
Site Document List

ARCO Service Station 4494
566 Hegenberger Road
Oakland, California

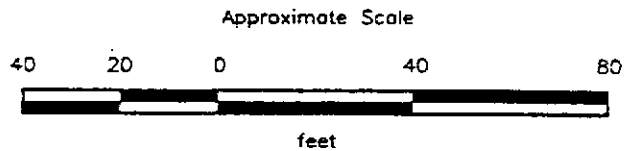
Report	Date	Consultant
Final Waste Oil Tank Report	05/03/89	PACIFIC
Work Plan - Initial Subsurface Investigation	09/29/89	Applied GeoSystems, Inc.
Report - Site History Assessment and Limited Environmental Records Review	10/01/90	Applied GeoSystems, Inc.
Report - Limited Subsurface Environmental Investigation	02/13/91	Applied GeoSystems, Inc.
Report - Preliminary Tank Replacement	05/02/91	Applied GeoSystems, Inc.
Addendum One to Work Plan	05/15/91	RESNA
Additional Subsurface Investigation	10/27/92	RESNA
Report of Findings - Underground Gasoline Storage Tank Removal and Replacement	05/17/93	RESNA
Groundwater sampling and reporting have been performed at the site on a quarterly basis from the fourth quarter 1990 to the fourth quarter 1995.		



COPY

EXPLANATION

- = Waste-oil tank excavation soil samples (Pacific Environmental Group, January 1989)
- B-20/MW-7 ● = Monitoring well (RESNA, October 1989, August 1990, July 1990)
- B-17 ○ = Soil boring (RESNA, August 1990 and March 1991)
- ▨ = Existing product storage tanks
- C—C' = Geologic cross section



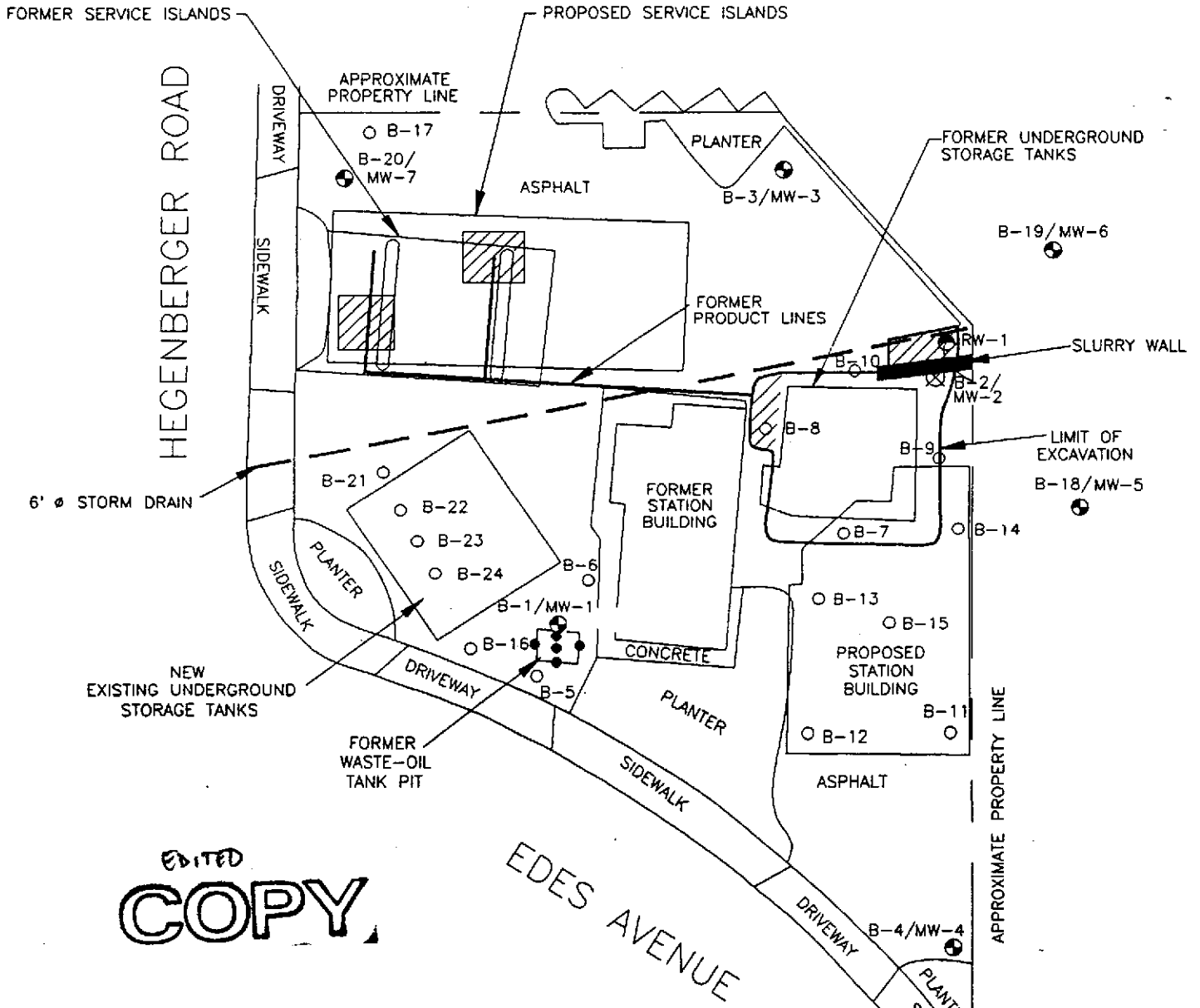
Source: Modified from plans supplied by ARCO Products Co. (dated August 12, 1982) and City of Oakland Dept. of Public Works (dated December 19, 1961).

RESNA
Working to Restore Nature

GENERALIZED SITE PLAN
ARCO Service Station 4494
566 Hegenberger Road
Oakland, California

PLATE
2

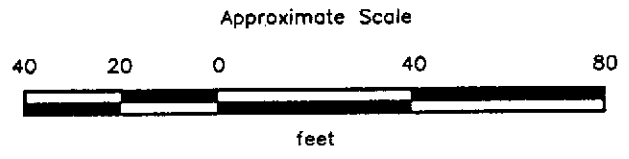
PROJECT 69038.10



EDITED
COPY

EXPLANATION

- = Waste-oil tank excavation soil samples (Pacific Environmental Group, January 1989)
- RW-1 ● = Recovery well installed during slurry wall construction (RESNA April 1993)
- B-20/MW-7 ● = Monitoring wells (Applied GeoSystems, October 1989, August 1990; and RESNA, July 1992)
- B-2/MW-2 ⊗ = Destroyed monitoring well (December 1992)
- B-24 ○ = Soil boring (Applied GeoSystems, August 1990, March 1991; and RESNA, December 1992)
- ▨ = Approximate location of over-excavated areas



Source: Surveyed by John Koch, Licensed Land surveyor, July 1992.



GENERALIZED SITE PLAN
ARCO Service Station 494
566 Hegenberger Road
Oakland, California

PLATE
2-A

Table 2
Liquid Surface Elevation Data

ARCO Service Station 4494
566 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-1	06/06/90	105.31	6.65	6.05	0.00	98.66
	08/16/90		7.00	7.00	0.00	98.31
	08/21/90		7.05	7.05	0.00	98.26
	09/07/90		7.24	7.24	0.00	98.07
	11/20/90		7.46	7.46	0.00	97.85
	11/29/90		7.40	7.40	0.00	97.91
	12/19/90		6.99	6.99	0.00	98.32
	01/29/91		7.23	7.23	0.00	98.08
	02/27/91		7.45	7.45	0.00	97.86
	03/07/91		6.96	6.96	0.00	98.35
	03/26/91		6.02	6.02	0.00	99.29
	05/02/91		7.04	7.04	0.00	98.27
	06/27/91		6.71	6.71	0.00	98.60
	07/24/91		6.91	6.91	0.00	98.40
	08/22/91		6.85	6.85	0.00	98.46
	09/30/91		7.04	7.04	0.00	98.27
	10/17/91		7.22	7.22	0.00	98.09
	11/21/91		7.17	7.17	0.00	98.14
	12/18/91		7.46	7.46	0.00	97.85
	01/19/92		7.44	7.44	0.00	97.87
	02/20/92	6.25	6.25	0.00	99.06	
	03/20/92	6.40	6.40	0.00	98.91	
	04/20/92	6.88	6.88	0.00	98.43	
	05/19/92	7.10	7.10	0.00	98.21	
	06/08/92	7.22	7.22	0.00	98.09	
	07/15/92	7.92	7.92	0.00	97.39	
	08/06/92	106.10	7.29	7.29	0.00	98.81
	10/29/92		7.34	7.34	0.00	98.76
	11/23/92		8.15	8.15	0.00	97.95
	08/16/93		7.23	7.23	0.00	98.87
	11/17/93		7.51	7.51	0.00	98.59
02/21/94	6.56		6.56	0.00	99.54	
05/11/94	6.57		6.57	0.00	99.53	
08/12/94	7.12		7.12	0.00	98.98	
11/17/94	6.85		6.85	0.00	99.25	
02/22/95	7.35		7.35	0.00	98.75	
05/24/95	7.07	7.07	0.00	99.03		
08/23/95	7.10	7.10	0.00	99.00		
11/17/95	7.72	7.72	0.00	98.38		
MW-2	06/06/90	105.78	9.92 *	9.00	0.92	95.86
	08/16/90		NM	NM	0.17	NM
	08/21/90		NM	NM	0.17	NM
	09/07/90		9.34 *	9.17	0.17	96.44
	11/20/90		9.20 *	9.20	Sheen	96.58
	11/29/90		9.92 *	9.92	Sheen	95.86
	12/19/90		8.95	8.95	0.00	96.83
	01/29/91		9.01	9.01	Sheen	96.77
	02/27/91		9.14	9.14	Sheen	96.64
	03/07/91		8.94	8.94	Sheen	96.84
	03/26/91		8.11	8.11	Sheen	97.67
05/02/91	8.72	8.72	0.00	97.06		

Table 2 (continued)
Liquid Surface Elevation Data

ARCO Service Station 4494
566 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TDC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)	
MW-2 (cont.)	06/27/91		9.20	9.20	Sheen	96.58	
	07/24/91		9.25	9.25	0.00	96.53	
	08/22/91		9.20	9.20	0.00	96.58	
	09/30/91		9.31	9.31	Sheen	96.47	
	10/17/91		9.39	9.39	Sheen	96.39	
	11/21/91		9.20	9.20	0.00	96.58	
	12/18/91		9.23	9.23	Sheen	96.55	
	01/19/92		9.96 **	9.96	Skimmer	95.82	
	02/20/92		9.13 **	9.13	Skimmer	96.65	
	03/20/92		9.31 **	9.31	Skimmer	96.47	
	04/20/92		9.69	9.69	Skimmer	96.09	
	05/19/92		9.92	9.92	Skimmer	95.86	
	06/08/92		9.84	9.84	Skimmer	95.94	
	07/15/92			10.19	10.19	Skimmer	95.59
	08/06/92	106.57	10.05	10.05	Skimmer	96.52	
	10/29/92		10.00	10.00	Skimmer	96.57	
11/23/92		9.88	9.87	0.01	96.69		
		----- Well Destroyed -----					
MW-3	08/16/90	105.51	8.87	8.87	0.00	96.64	
	08/21/90		8.85	8.85	0.00	96.66	
	09/07/90		8.98	8.98	0.00	96.53	
	11/20/90		9.10	9.10	0.00	96.41	
	11/29/90		9.05	9.05	0.00	96.46	
	12/19/90		8.67	8.67	0.00	96.84	
	01/29/91		8.96	8.96	0.00	96.55	
	02/27/91		8.71	8.71	0.00	96.80	
	03/07/91		8.49	8.49	0.00	97.02	
	03/26/91		7.65	7.65	0.00	97.86	
	05/02/91		8.62	8.62	0.00	96.89	
	06/27/91		8.94	8.94	0.00	96.57	
	07/24/91		8.96	8.96	0.00	96.55	
	08/22/91		8.92	8.92	0.00	96.59	
	09/30/91		9.04	9.04	0.00	96.47	
	10/17/91		9.12	9.12	0.00	96.39	
	11/21/91		8.92	8.92	0.00	96.59	
	12/18/91		8.97	8.97	0.00	96.54	
	01/19/92		8.69	8.69	0.00	96.82	
	02/20/92		7.78	7.78	0.00	97.73	
	03/20/92		8.15	8.15	0.00	97.36	
	04/20/92		8.57	8.57	0.00	96.94	
	05/19/92		8.76	8.76	0.00	96.75	
	06/08/92		8.74	8.74	0.00	96.77	
	07/15/92		9.12	9.12	0.00	96.39	
08/06/92	106.29	8.95	8.95	0.00	97.34		
10/29/92		8.78	8.78	0.00	97.51		
11/23/92		9.91	9.91	0.00	96.38		
08/16/93		8.62	8.62	0.00	97.67		
11/17/93		8.72	8.72	0.00	97.57		
02/21/94		7.91	7.91	0.00	98.38		
05/11/94		8.09	8.09	0.00	98.20		

Table 2 (continued)
Liquid Surface Elevation Data

ARCO Service Station 4494
566 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)	
MW-3 (cont.)	08/12/94		8.78	8.78	0.00	97.51	
	11/17/94		8.45	8.45	0.00	97.84	
	02/22/95		8.95	8.95	0.00	97.34	
	05/24/95		8.67	8.67	0.00	97.62	
	08/23/95		9.17	9.17	0.00	97.12	
	11/17/95		9.39	9.39	0.00	96.90	
MW-4	08/16/90	106.61	8.16	8.16	0.00	98.45	
	08/21/90		8.22	8.22	0.00	98.39	
	09/07/90		8.39	8.39	0.00	98.22	
	11/20/90		8.57	8.57	0.00	98.04	
	11/29/90		8.53	8.53	0.00	98.08	
	12/19/90		8.13	8.13	0.00	98.48	
	01/29/91		8.66	8.66	0.00	97.95	
	02/27/91		8.44	8.44	0.00	98.17	
	03/07/91		8.18	8.18	0.00	98.43	
	03/26/91		7.56	7.56	0.00	99.05	
	05/02/91		8.25	8.25	0.00	98.36	
	06/27/91		7.75	7.75	0.00	98.86	
	07/24/91		8.12	8.12	0.00	98.49	
	08/22/91		7.98	7.98	0.00	98.63	
	09/30/91		8.26	8.26	0.00	98.35	
	10/17/91		8.42	8.42	0.00	98.19	
	11/21/91		8.65	8.65	0.00	97.96	
	12/18/91		8.77	8.77	0.00	97.84	
	01/19/92		8.42	8.42	0.00	98.19	
	02/20/92		7.60	7.60	0.00	99.01	
	03/20/92		7.61	7.61	0.00	99.00	
	04/20/92		8.15	8.15	0.00	98.46	
	05/19/92		8.14	8.14	0.00	98.47	
	06/08/92		8.40	8.40	0.00	98.21	
	07/15/92		8.72	8.72	0.00	97.89	
	08/06/92		107.40	8.52	8.52	0.00	98.88
	10/29/92			8.63	8.63	0.00	98.77
	11/23/92			8.75	8.75	0.00	98.65
	08/16/93			8.69	8.69	0.00	98.71
	11/17/93			9.11	9.11	0.00	98.29
	02/21/94			8.16	8.16	0.00	99.24
	05/11/94			8.29	8.29	0.00	99.11
08/12/94			8.75	8.75	0.00	98.65	
11/17/94			8.40	8.40	0.00	99.00	
02/22/95			8.72	8.72	0.00	98.68	
05/24/95			8.63	8.63	0.00	98.77	
08/23/95			6.50	6.50	0.00	100.90	
11/17/95			9.15	9.15	0.00	98.25	
MW-5	08/06/92	105.19	7.19	7.19	0.00	98.00	
	10/29/92		6.99	6.99	0.00	98.20	
	11/23/92		6.90	6.90	0.00	98.29	
	08/16/93		7.06	7.06	0.00	98.13	
	11/17/93		6.91	6.91	0.00	98.28	
	02/21/94		5.52	5.52	0.00	99.67	
	05/11/94		6.18	6.18	0.00	99.01	
	08/12/94		6.81	6.81	0.00	98.38	
	11/17/94		5.38	5.38	0.00	99.81	
	02/22/95		6.25	6.25	0.00	98.94	

Table 2 (continued)
Liquid Surface Elevation Data

ARCO Service Station 4494
566 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-5 (cont.)	05/24/95		6.30	6.30	0.00	98.89
	08/23/95		6.90	6.90	0.00	98.29
	11/17/95		7.02	7.02	0.00	98.17
MW-6	08/06/92	105.07	7.01	7.01	0.00	98.06
	10/29/92		6.70	6.70	0.00	98.37
	11/23/92		6.75	6.75	0.00	98.32
	08/16/93		6.71	6.71	0.00	98.36
	11/17/93		6.67	6.67	0.00	98.40
	02/21/94		5.31	5.31	0.00	99.76
	05/11/94		5.98	5.98	0.00	99.09
	08/12/94		6.60	6.60	0.00	98.47
	11/17/94		5.09	5.09	0.00	99.98
	02/22/95		5.85	5.85	0.00	99.22
	05/24/95		5.92	5.92	0.00	99.15
	08/23/95		6.50	6.50	0.00	98.57
11/17/95		6.75	6.75	0.00	98.32	
MW-7	08/06/92	105.52	8.28	8.28	0.00	97.24
	10/29/92		8.62	8.62	0.00	96.90
	11/23/92		8.21	8.21	0.00	97.31
	08/16/93		8.11	8.11	0.00	97.41
	11/17/93		8.11	8.11	0.00	97.41
	02/21/94		7.34	7.34	0.00	98.18
	05/11/94		7.45	7.45	0.00	98.07
	08/12/94		8.13	8.13	0.00	97.39
	11/17/94		7.90	7.90	0.00	97.62
	02/22/95		8.40	8.40	0.00	97.12
	05/24/95		8.29	8.29	0.00	97.23
	08/23/95		8.60	8.60	0.00	96.92
11/17/95		8.73	8.73	0.00	96.79	
RW-1	08/16/93	NM	Well Dry			
	11/17/93		Well Dry			
	02/21/94		7.69	7.69	0.00	NM
	05/11/94		7.96	7.96	0.00	NM
	08/12/94		7.58	7.58	0.00	NM
	11/17/94		7.66	7.66	0.00	NM
	02/22/95		8.00	8.00	0.00	NM
	05/24/95		8.10	8.10	0.00	NM
	08/23/95		8.67	8.67	0.00	NM
11/17/95		9.15	9.15	0.00	NM	

MSL = Mean sea level
 TOC = Top of casing
 * = Separate-phase hydrocarbons present in well.
 ** = Skimmer installed (12/24/91).
 NM = Not measured

Table 3
Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Total Oil and Grease)

ARCO Service Station 4494
 566 Hegenberger Road at Edes Avenue
 Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TEPH as Diesel (ppb)	Total Oil and Grease (ppm)	
MW-1	06/19/90	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5,000	
	08/16/90	<20	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	09/07/90	N/A	N/A	N/A	N/A	N/A	N/A	<5,000	
	11/29/90	<50	<0.50	0.7	<0.50	<0.50	N/A	N/A	
	03/07/91	<50	<0.30	<0.30	<0.30	<0.50	N/A	N/A	
	06/27/91	<30	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	09/30/91	<30	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	12/18/91	<30	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	03/20/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	06/08/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/06/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/95	-----Well Sampled Annually-----							
	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
08/23/95	-----Well Sampled Annually-----								
11/17/95	-----Well Sampled Annually-----								
MW-2	06/19/90	----- 0.92 foot of Separate-Phase Hydrocarbons -----							
	08/16/90	----- 0.17 foot of Separate-Phase Hydrocarbons -----							
	09/07/90	----- 0.17 foot of Separate-Phase Hydrocarbons -----							
	11/29/90	----- Separate-Phase Hydrocarbon Sheen -----							
	03/07/91	----- Separate-Phase Hydrocarbon Sheen -----							
	06/27/91	----- Separate-Phase Hydrocarbon Sheen -----							
	09/30/91	----- Separate-Phase Hydrocarbon Sheen -----							
	12/18/91	----- Separate-Phase Hydrocarbon Sheen -----							
	03/20/92	48,000	2,000	580	2,300	7,000	N/A	N/A	
	06/08/92	43,000	2,900	940	2,400	5,100	N/A	N/A	
08/06/92	78,000	2,500	6,700	2,900	16,000	N/A	N/A		
10/29/92	NS	NS	NS	NS	NS	NS	NS		
12/08/92	-----Well Destroyed-----								
MW-3	06/19/90	<20	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/16/90	N/A	N/A	N/A	N/A	N/A	N/A	<5,000	
	09/07/90	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	11/29/90	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	03/07/91	<50	<0.30	<0.30	<0.30	<0.50	N/A	N/A	
	06/27/91	<30	<0.30	<0.30	<0.50	<0.30	N/A	N/A	
	09/30/91	<30	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	12/18/91	<30	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	03/20/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	06/08/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/06/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	

Table 3 (continued)
Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Total Oil and Grease)

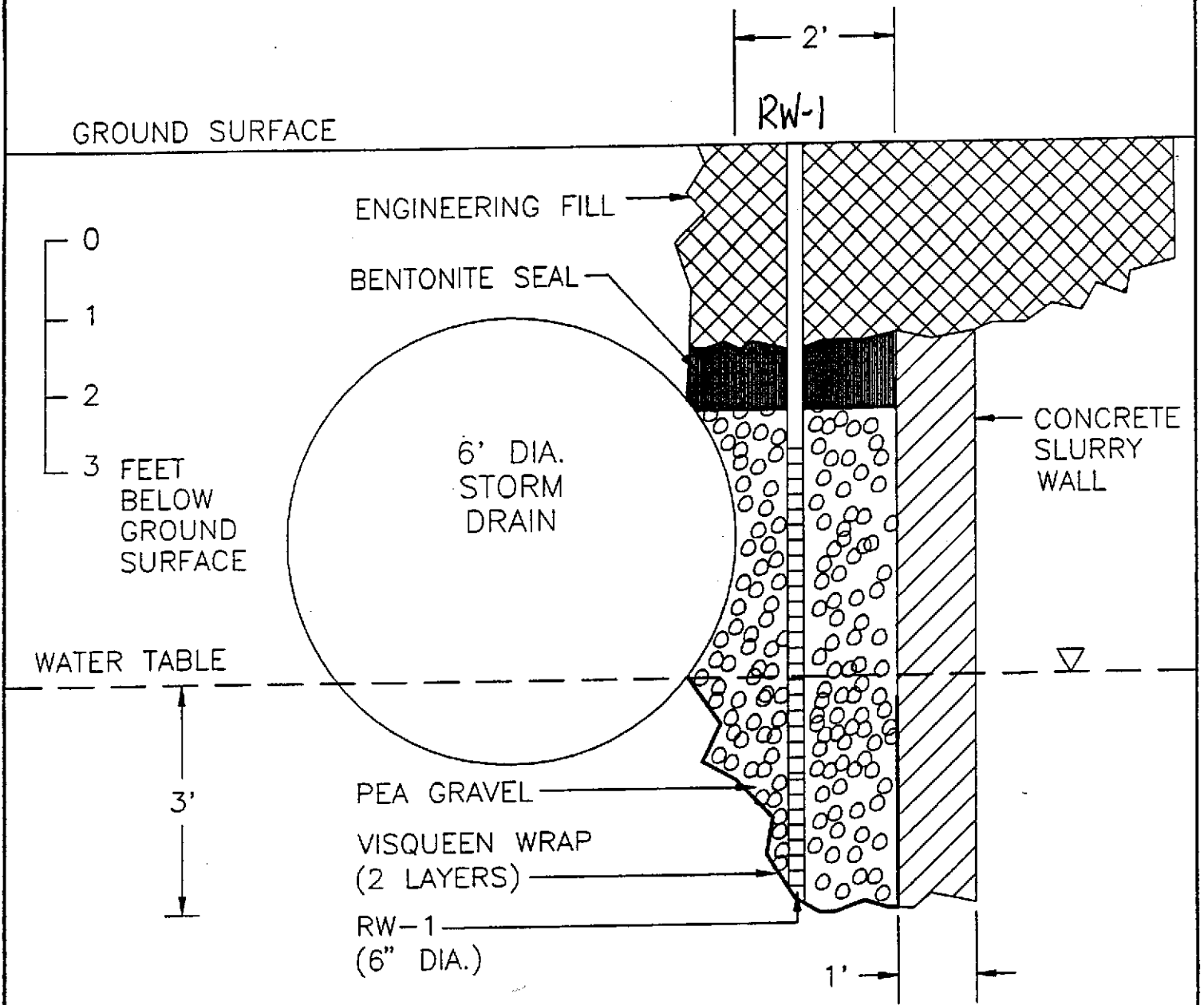
ARCO Service Station 4494
 566 Hegenberger Road at Edes Avenue
 Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TEPH as Diesel (ppb)	Total Oil and Grease (ppm)	
MW-3 (cont.)	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/95	Well Sampled Annually							
	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/23/95	Well Sampled Annually							
	11/17/95	Well Sampled Annually							
	MW-4	08/16/90	<20	<0.50	<0.50	<0.50	<0.50	N/A	N/A
09/07/90		N/A	N/A	N/A	N/A	N/A	N/A	<5,000	
11/29/90		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
03/07/91		<50	<0.30	<0.30	<0.30	<0.50	N/A	N/A	
06/27/91		<30	0.75	1.1	<0.30	1.6	N/A	N/A	
09/30/91		<30	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
12/18/91		<30	0.83	1.2	<0.30	0.58	N/A	N/A	
03/20/92		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
06/08/92		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
08/06/92		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
10/29/92		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
08/16/93		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
11/17/93		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
02/22/94		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
05/11/94		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
08/12/94		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
11/17/94		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
02/22/95		Well Sampled Annually							
05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A		
08/23/95	Well Sampled Annually								
11/17/95	Well Sampled Annually								
MW-5	08/06/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/94	<50	<0.5	<0.5	<0.5	0.6	N/A	N/A	
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/95	Well Sampled Annually							
	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
08/23/95	Well Sampled Annually								
11/17/95	Well Sampled Annually								
MW-6	08/06/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/95	Well Sampled Annually							

Table 3 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Total Oil and Grease)

ARCO Service Station 4494
 566 Hegenberger Road at Edes Avenue
 Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TEPH as Diesel (ppb)	Total Oil and Grease (ppm)
MW-6	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
(cont.)	08/23/95	-----Well Sampled Annually-----						
	11/17/95	-----Well Sampled Annually-----						
MW-7	08/06/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	02/22/95	-----Well Sampled Annually-----						
	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	08/23/95	-----Well Sampled Annually-----						
	11/17/95	-----Well Sampled Annually-----						
RW-1	08/16/93	NS	NS	NS	NS	NS	NS	NS
	11/17/93	NS	NS	NS	NS	NS	NS	NS
	02/22/94	280	2,100	19	40	66	N/A	N/A
	05/11/94	3,300	32	28	87	310	N/A	N/A
	08/12/94	4,600	42	59	190	400	N/A	N/A
	11/17/94	1,400	56	21	28	210	N/A	N/A
	02/22/95	8,100	140	<10	550	560	N/A	N/A
	05/24/95	940	53	0.75	11	1.4	N/A	N/A
	08/23/95	620	2.1	2.3	0.67	0.67	N/A	N/A
	11/17/95	1,100	7.6	21	46	180	N/A	N/A
TPPH = Total purgeable petroleum hydrocarbons TEPH = Total extractable petroleum hydrocarbons ppb = Parts per billion ppm = Parts per million N/A = Not applicable NS = Not sampled								



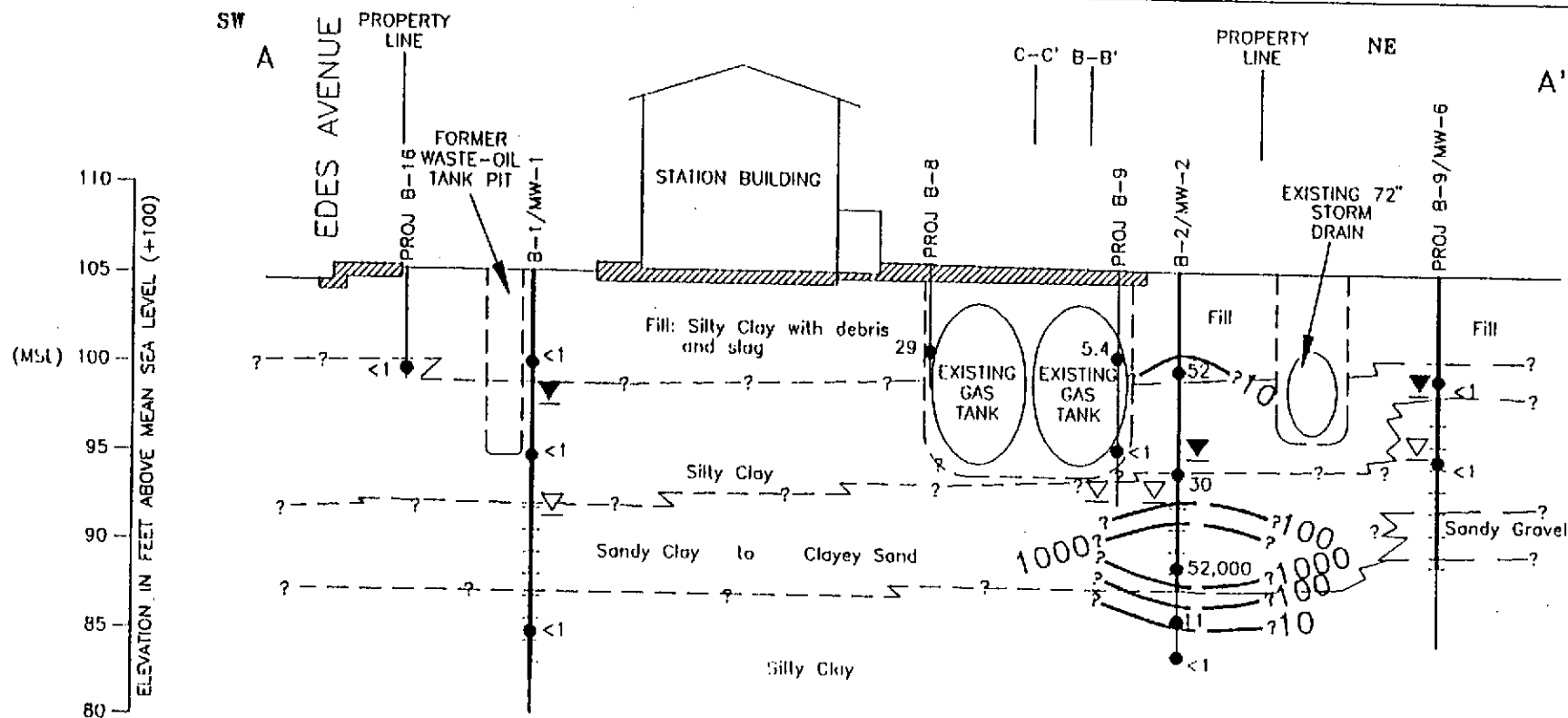
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SLURRY WALL SCHEMATIC
ARCO Service Station 4494
566 Hegenberger Road
Oakland, California

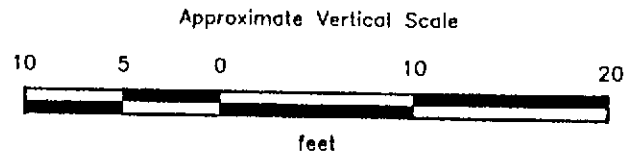
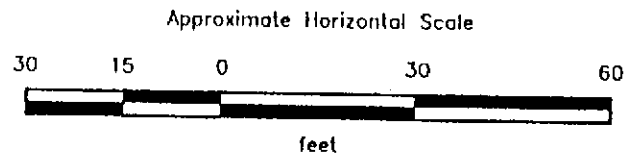
PLATE
3



EXPLANATION

- 1000 — = Line of equal concentration of TPHg in soil in parts per million (ppm)
- 52,000 ● = Laboratory analyzed soil sample showing concentration of TPHg in ppm
- = Well casing
- = Well screen
- = Boring
- ▽ = Initial water level in boring
- ▽ = Static water level in well (8/6/92)

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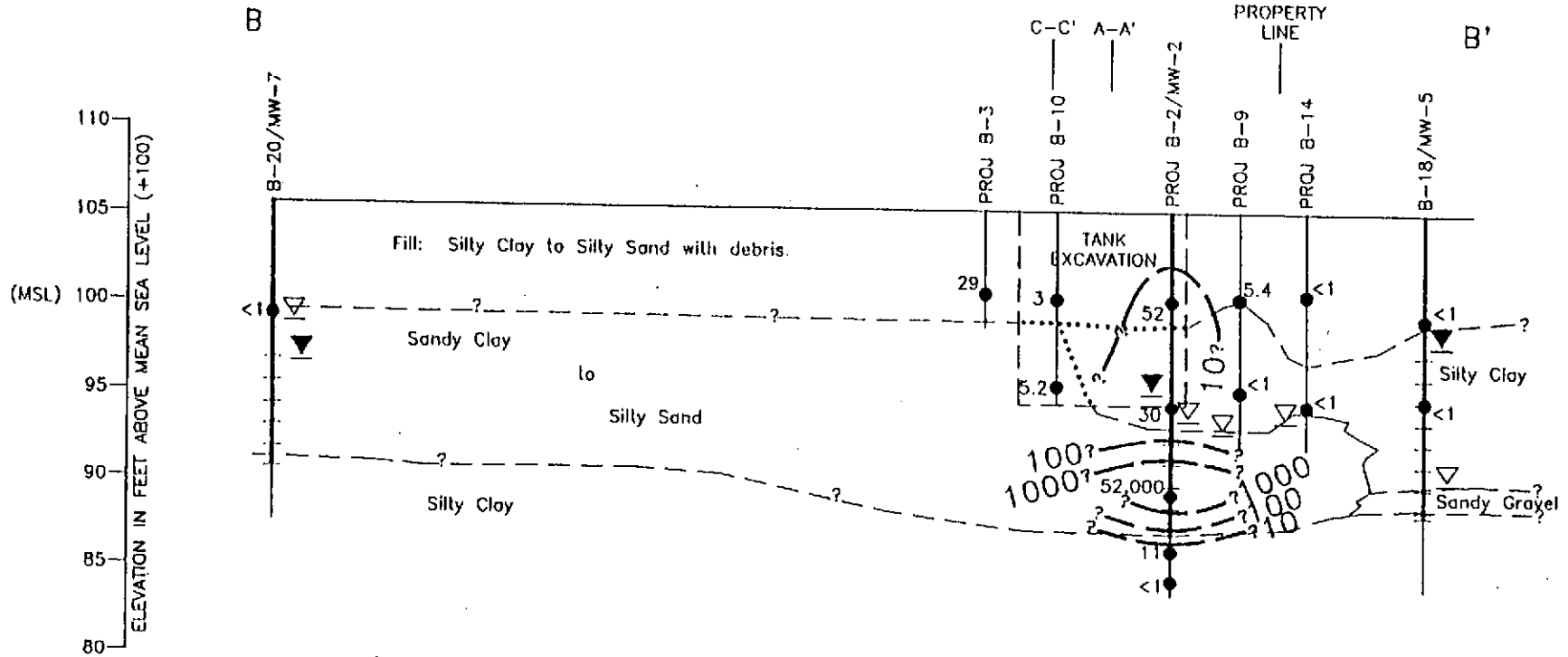
PLATE

7

GEOLOGIC CROSS SECTION A-A'
ARCO Service Station 4494
566 Hegenberger Road
Oakland, California

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EXPLANATION

- 1000 — = Line of equal concentration of TPH_g in soil in parts per million (ppm)
- 52,000 ● = Laboratory analyzed soil sample showing concentration of TPH_g in ppm
- = Well casing
- = Well screen
- = Boring
- ▽ = Initial water level in boring
- ▼ = Static water level in well (8/6/92)

Dotted line indicates inferred contact through tank excavation.

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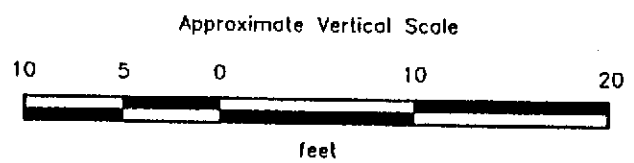
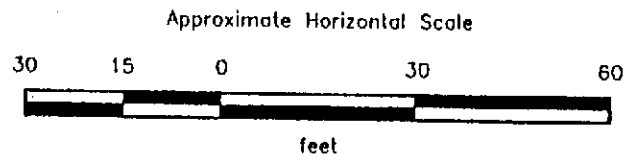
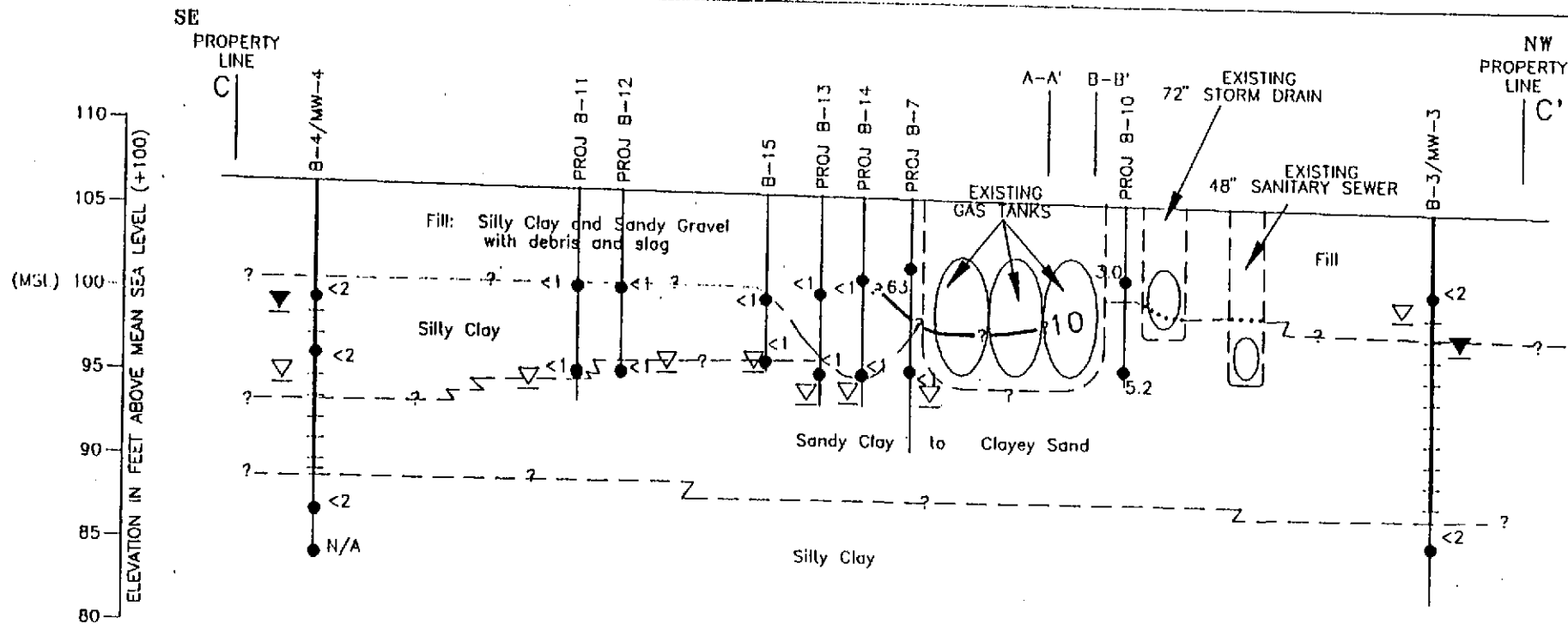


PLATE
8

GEOLOGIC CROSS SECTION B-B'
ARCO Service Station 4494
566 Hegenberger Road
Oakland, California

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EXPLANATION

- 10 — = Line of equal concentration of TPHg in soil in parts per million (ppm)
- 63 — = Laboratory analyzed soil sample showing concentration of TPHg in ppm
- = Well casing
- = Well screen
- = Boring
- ▽ = Initial water level in boring
- ▼ = Static water level in well (8/6/92)

Dotted line indicates inferred contact through tank excavation.

COPY

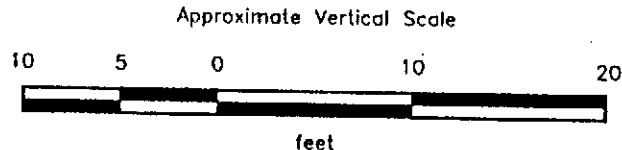
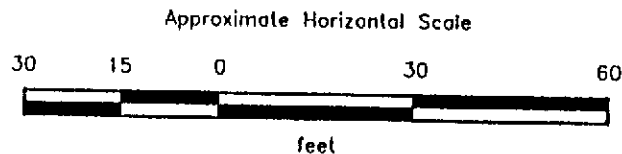


PLATE
9

GEOLOGIC CROSS SECTION C-C'
ARCO Service Station 4494
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Oakland, California

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