PACIFIC
ENVIRONMENTAL
GROUP INC.

April 20, 1995
Project 305-094.2D

Mr. Lynn Walker
Shell Oil Company
P.O. Box 4023
Concord, California 94524

Re: Quarterly Report - First Quarter 1995
Former Shell Service Station
2724 Castro Valley Boulevard at Lake Chabot Road
Castro Valley, California
WIC No 204-1381-0407

Dear Mr. Walker:

The following presents the results of the first quarter 1995 monitoring program for the site referenced above. This letter has been prepared for Shell Oil Company by Pacific Environmental Group, Inc. (PACIFIC).

FINDINGS

Groundwater monitoring wells were gauged and sampled by Blaine Tech Services, Inc. (Blaine) at the direction of PACIFIC on February 28, 1995. Groundwater elevation contours for the sampling date are shown on Figure 1. Table 1 presents groundwater elevation data.

Groundwater analytical data are presented in Table 2. Total petroleum hydrocarbons calculated as gasoline (TPH-g), benzene, and TPH calculated as diesel (TPH-d) concentrations for this sampling event are shown on Figure 2. None of the wells contained TPH-g, benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). Wells MW-1 and MW-7 contained positive results of TPH-d at concentrations of 540 and 70 parts per billion (ppb), respectively. The laboratory noted the result for Well MW-1 to be an atypical pattern for diesel analysis. Blaine's groundwater sampling report, which includes field data and the certified analytical report, is presented as Attachment A.

If you have any questions regarding the contents of this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.

Ross W.N. Tinline
Project Geologist
RG 5860

Attachments:
- Table 1 - Groundwater Elevation Data
- Table 2 - Groundwater Analytical Data - Total Petroleum Hydrocarbons (TPH as Gasoline, BTEX Compounds, TPH as Diesel, and Motor Oil)
- Figure 1 - Groundwater Elevation Map
- Figure 2 - TPH-g/Benzene/TPH-d Concentration Map
- Attachment A - Groundwater Sampling Report

cc: Mr. Scott Seery, Alameda County Department of Environmental Health
Mr. Richard Hiett, Regional Water Quality Control Board
Dr. Mohsen Mehran, Owner Consultant
Mr. Michael Johnson, Larson and Burnham
Mr. Matthew Righetti, Righetti Law Firm
Mr. Richard A. Schoenberger, Esq., Walkup, Shelby, Bastian, Melodia, Kelly, Echeverria and Link
Ms. Anne Singley, Shell Oil Company
Mr. Jim Matthews, Shell Oil Company

Table 1
Groundwater Elevation Data

Former Shell Service Station
2724 Castro Valley Boulevard at Lake Chabot Road
Castro Valley, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-1	02/08/90	99.78	8.39	91.39
	04/20/90		9.21	90.57
	07/30/90		9.21	90.57
	10/25/90		9.44	90.34
	01/15/91		9.11	90.67
	04/19/91		5.58	94.20
	07/16/91		7.58	92.20
	10/08/91		8.25	91.53
	02/04/92		8.52	91.26
	04/06/92		6.75	93.03
	08/26/92		9.89	89.89
	11/06/92		9.01	90.77
	02/18/93	160.54	4.33	156.21
	06/04/93		8.26	152.28
	09/10/93		9.04	151.50
	11/17/93		9.15	151.39
	02/28/94		4.28	156.26
	05/26/94		7.56	152.98
	08/04/94		8.74	151.80
	11/11/94		4.56	155.98
	02/28/95		5.06	155.48
MW-2	02/08/90	100.83	7.33	93.50
	04/20/90		8.63	92.20
	07/30/90		8.78	92.05
	10/25/90		9.50	91.33
	01/15/91		8.52	92.31
	04/19/91		6.90	93.93
	07/16/91		9.01	91.82
	10/08/91		8.82	92.01
	02/04/92		7.46	93.37
	04/06/92		6.91	93.92
	08/26/92		9.28	91.55
	11/06/92		8.59	92.24
	02/18/93	---------- Well Inaccessible ----------		
	06/04/93	---------- Well Inaccessible ----------		
	09/10/93	---------- Well Inaccessible ----------		
	11/17/93	---------- Well Inaccessible ----------		
	02/28/94	---------- Well Inaccessible ----------		
	05/26/94		8.40	N/A
	08/04/94		9.38	N/A
	11/11/94		5.60	N/A
	02/28/95		6.46	N/A

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
2724 Castro Valley Boulevard at Lake Chabot Road
Castro Valley, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-3	02/08/90	101.48	8.91	92.57
	04/20/90		10.20	91.28
	07/30/90		10.61	90.87
	10/25/90		10.00	91.48
	01/15/91		9.74	91.74
	04/19/91		7.92	93.56
	07/16/91		9.40	92.08
	10/08/91		9.62	91.86
	02/04/92		8.74	92.74
	04/06/92		7.12	94.36
	08/26/92		9.58	91.90
	11/06/92		8.95	92.53
	02/18/93	162.24	6.79	155.45
	06/04/93		8.48	153.76
	09/10/93		9.84	152.40
	11/17/93		9.78	152.46
	02/28/94		8.44	153.80
	05/26/94		8.74	153.50
	08/04/94		9.62	152.62
	11/11/94		8.82	153.42
	02/28/95		7.67	154.57
MW-5	02/08/90	99.90	8.80	91.10
	04/20/90		9.35	90.55
	07/30/90		9.49	90.41
	10/25/90		10.12	89.78
	01/15/91		9.26	90.64
	04/19/91		6.52	93.38
	07/16/91		9.12	90.78
	10/08/91		9.22	90.68
	02/04/92		8.13	91.77
	04/06/92		5.53	94.37
	08/26/92		9.25	90.65
	11/06/92		9.02	90.88
	02/18/93	160.68	3.60	157.08
	06/04/93		7.08	153.60
	09/10/93		9.92	150.76
	11/17/93		9.86	150.82
	02/28/94		7.56	153.12
	05/26/94		8.38	152.30
	08/04/94		9.22	151.46
	11/11/94		7.86	152.82
	02/28/95		5.88	154.80

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
2724 Castro Valley Boulevard at Lake Chabot Road
Castro Valley, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
OMW-6	07/16/91	101.48	8.60	92.88
	10/08/91		8.82	92.66
	02/04/92		7.47	94.01
	04/06/92		5.80	95.68
	08/26/92		9.18	92.30
	11/06/92		8.29	93.19
	02/18/93	162.22	5.83	156.39
	06/04/93		7.14	155.08
	09/10/93		8.78	153.44
	11/17/93		8.74	153.48
	02/28/94		5.16	157.06
	05/26/94		6.89	155.33
	08/04/94		8.56	153.66
	11/11/94		5.78	156.44
	12/18/94	---------- Well Properly Abandoned ----------		
MW-7	07/16/91	99.54	8.70	90.84
	10/08/91		8.74	90.80
	02/04/92		7.78	91.76
	04/06/92		5.87	93.67
	08/26/92		8.93	90.61
	11/06/92		8.51	91.03
	02/18/93	---------- Well Inaccessible ----------		
	06/04/93	---------- Well Inaccessible ----------		
	09/10/93	---------- Well Inaccessible ----------		
	11/17/93	---------- Well Inaccessible ----------		
	02/28/94		2.99	N/A
	05/26/94		6.05	N/A
	08/04/94		8.68	N/A
	11/11/94		3.70	N/A
	02/28/95		4.31	N/A
OMW-8	07/16/91	100.18	8.40	91.78
	10/08/91		8.74	91.44
	02/04/92		8.22	91.96
	04/06/92		6.82	93.36
	08/26/92		9.15	91.03
	11/06/92		8.69	91.49
	02/18/93	160.92	7.59	153.33
	06/04/93		7.88	153.04
	09/10/93		8.58	152.34
	11/17/93		8.72	152.20
	02/28/94		7.64	153.28
	05/26/94		7.77	153.15
	08/04/94		8.72	152.20
	11/11/94		7.10	153.82
	12/18/94	---------- Well Properly Abandoned ----------		

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
2724 Castro Valley Boulevard at Lake Chabot Road
Castro Valley, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
OMW-9	03/03/93	158.81	9.16	149.65
	06/04/93		9.52	149.29
	09/10/93		9.23	149.58
	11/17/93	---------- Well Paved Over ----------		
	02/28/94		9.24	149.57
	05/26/94		9.68	149.13
	08/04/94		9.92	148.89
	11/11/94		8.68	150.13
	02/28/95		9.49	149.32

MSL = Mean sea level
TOC = Top of casing
N/A = Not available, survey required.
Elevations prior to February 18, 1993 are to a temporary bench mark. Elevations after February 18, 1993 are to MSL.

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

Former Shell Service Station
2724 Castro Valley Boulevard at Lake Chabot Road
Castro Valley, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	Motor Oil (ppb)
MW-1	02/09/90	<1,000	0.58	0.63	<0.5	<0.5	NA	NA
	04/20/90	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	07/31/90	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	10/25/90	100	<0.5	<0.5	<0.5	<0.6	<50	NA
	01/15/91	60	<0.5	<0.5	<0.5	<0.5	<50	NA
	01/15/91	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	04/19/91	<50	7.7	<0.5	<0.5	<0.5	<50	NA
	04/19/91	<50	7.4	<0.5	<0.5	<0.5	<50	NA
	07/16/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	10/08/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	02/04/92	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	04/06/92	50	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/26/92	<50	<0.5	<0.5	<0.5	<0.5	51	NA
	11/12/92	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/18/93	<50	<0.5	<0.5	<0.5	<0.5	57[a]	NA
	06/04/93	<50	<0.5	<0.5	<0.5	<0.5	85	NA
	09/10/93	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/28/94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/26/94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/04/94	<50	<0.5	<0.5	<0.5	<0.5	80[b]	NA
	11/11/94	---------- Sampled Semiannually ----------						
	02/28/95	<50	<0.5	<0.5	<0.5	<0.5	540[c]	NA
MW-2	02/09/90	8,600	360	410	6.5	670	4,100	NA
	04/20/90	9,100	500	330	110	900	1,800	NA
	07/31/90	5,300	550	38	<0.5	280	60	NA
	10/25/90	4,800	490	22	21	156	300	NA
	01/15/91	5,700	320	29	120	530	680	NA
	04/19/91	3,900	100	77	100	93	306	NA
	07/16/91	1,800	100	5.8	41	31	430	<50
	07/16/91	2,700	130	7.6	62	45	540	<50
	10/08/91	1,000	17	<0.5	25	25	110	<50
	02/04/92	1,700	190	5.8	18	110	870	NA
	04/06/92	3,800	930	50	110	190	1,000	NA
	05/03/92	2,400	610	8.8	90	<0.5	570	NA
	08/26/92	520	36	2.0	12	7.9	63	NA
	08/26/92(D)	450	33	1.7	11	3.4	63	NA
	11/12/92	310	30	6.2	5.1	4.3	160	NA
	11/12/92(D)	360	31	6.5	5.1	4.4	180	NA
	02/18/93	---------- Well Inaccessible ----------						
	06/04/93	---------- Well Inaccessible ----------						
	09/10/93	---------- Well Inaccessible ----------						
	11/17/93	---------- Well Inaccessible ----------						
	02/28/94	---------- Well Inaccessible ----------						

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline, BTEX Compounds, TPH as Diesel, Motor Oil)

Former Shell Service Station
2724 Castro Valley Boulevard at Lake Chabot Road
Castro Valley, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	Motor Oil (ppb)
MW-2	05/26/94	480	14	<0.5	2.1	3.4	<50	NA
(cont.)	05/26/94(D)	460	14	<0.5	2.1	3.3	60	NA
	08/04/94	<50	<0.5	<0.5	<0.5	<0.5	110[b]	NA
	08/04/94(D)	70	<0.5	<0.5	<0.5	<0.5	110[b]	NA
	11/11/94	<50	<0.5	<0.5	<0.5	<0.5	210[a]	NA
	11/11/94(D)	<50	<0.5	<0.5	<0.5	<0.5	170[a]	NA
	02/28/95	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/28/95(D)	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
MW-3	02/09/90	<1,000	<0.5	<0.5	<0.5	<0.5	NA	NA
	04/20/90	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	07/31/90	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	10/25/90	<50	<0.5	<0.5	<0.6	<0.6	<50	NA
	01/15/91	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	04/19/91	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	07/16/91	<50	<0.5	<0.5	<0.5	<0.5	<50	1,400
	10/08/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	02/04/92	<50	4	2	7	3.2	<50	NA
	04/06/92	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/26/82	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/12/92	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/18/93	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	06/04/93	<50	<0.5	<0.5	<0.5	<0.5	200	NA
	06/04/93(D)	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	09/10/93	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	09/10/93(D)	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/17/93(D)	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/28/94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/26/94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/04/94	<50	<0.5	<0.5	<0.5	<0.5	80[b]	NA
	11/11/94	Sampled Semiannually						
	02/28/95	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
MW-5	02/09/90	<1,000	<0.5	<0.5	<0.5	<0.5	NA	NA
	04/20/90	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	07/31/90	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	10/25/90	<50	<0.5	<0.7	<0.6	<0.6	<50	NA
	01/15/91	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	04/19/91	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	07/16/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	10/08/91	<50	<0.5	<0.5	<0.5	<0.5	50	<50
	02/04/92	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	04/06/92	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/26/92	<50	<0.5	<0.5	<0.5	<0.5	<50	NA

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline, BTEX Compounds, TPH as Diesel, and Motor Oil)

Former Shell Service Station
2724 Castro Valley Boulevard at Lake Chabot Road
Castro Valley, California

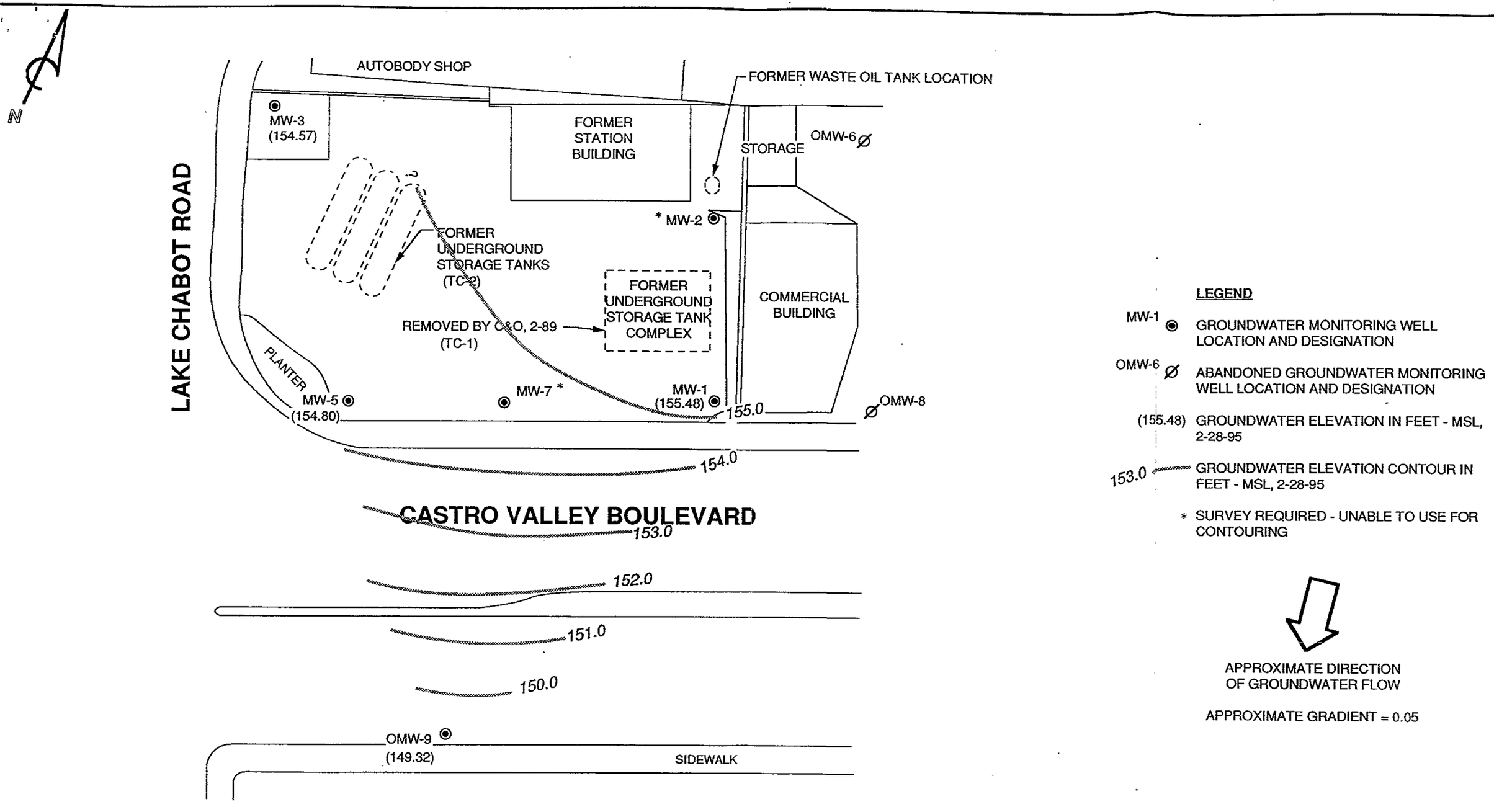
Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	Motor Oil (ppb)
MW-5 (cont.)	11/12/92	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/18/93	<50	<0.5	<0.5	<0.5	<0.5	80[a]	NA
	06/04/93	<50	<0.5	<0.5	<0.5	<0.5	170	NA
	09/10/93	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/28/94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/28/94(D)	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/26/94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/04/94	<50	<0.5	<0.5	<0.5	<0.5	80[b]	NA
	11/11/94	---------- Sampled Semiannually ----------						
	02/28/95	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
OMW-6	07/16/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	10/08/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	02/04/92	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	04/06/92	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/26/92	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/12/92	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/18/93	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/18/93(D)	<50	<0.5	<0.5	<0.5	<0.5	84[a]	NA
	06/04/93	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	09/10/93	50[e]	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/28/94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/26/94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/04/94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/11/94	---------- Sampled Semiannually ----------						
	12/18/94	---------- Well Properly Abandoned ----------						
MW-7	07/16/91	1,300	440	140	6.9	160	270	1,100
	10/08/91	520	230	36	26	54	<50	<50
	02/04/92	640	130	51	26	79	140[f]	NA
	04/06/92	80	32	1.7	2.3	4.4	<50	NA
	05/13/92	<50	3.1	1.7	0.9	3.8	<50	NA
	08/26/92	63	1.0	<0.5	2.6	<0.5	<50	NA
	11/12/92	73	11	<0.5	3.7	<0.5	<50	NA
	02/18/93	---------- Well Inaccessible ----------						
	06/04/93	---------- Well Inaccessible ----------						
	09/10/93	---------- Well Inaccessible ----------						
	11/17/93	---------- Well Inaccessible ----------						
	02/28/94	<50	<0.5	<0.5	<0.5	<0.5	64	NA
	05/26/94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/04/94	<50	<0.5	<0.5	<0.5	<0.5	90[b]	NA
	11/11/94	<50	<0.5	<0.5	<0.5	<0.5	180[a]	NA
	02/28/95	<50	<0.5	<0.5	<0.5	<0.5	70	NA

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline, BTEX Compounds, TPH as Diesel, and Motor Oil)

Former Shell Service Station
2724 Castro Valley Boulevard at Lake Chabot Road
Castro Valley, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	Motor Oil (ppb)
OMW-8	07/16/91	<50	<0.5	0.8	<0.5	<0.5	<50	<50
	10/08/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	02/04/92	<50	0.9	1.9	0.6	3.6	<50	NA
	04/06/92	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/26/92	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/12/92	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/18/93	180[d]	<0.5	<0.5	<0.5	<0.5	<50	NA
	06/04/93	<50	<0.5	<0.5	<0.5	<0.5	53	NA
	09/10/93	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/28/94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/26/94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/04/94	<50	<0.5	<0.5	<0.5	<0.5	50[b]	NA
	11/11/94	---------- Sampled Semiannually ----------						
	12/18/94	---------- Well Properly Abandoned ----------						
OMW-9	03/03/93	<50	<0.5	<0.5	<0.5	<0.5	71[a]	NA
	06/04/93	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	09/10/93	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/17/93	---------- Well Paved Over ----------						
	02/28/94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/26/94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/04/94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/11/94	---------- Sampled Semiannually ----------						
	02/28/95	<50	<0.5	<0.5	<0.5	<0.5	<50	NA

ppb = Parts per billion
< = Denotes minimum laboratory detection limits.
NA = Not analyzed
(D) = Duplicate sample
a. Concentration primarily due to the presence of a heavier petroleum hydrocarbon product.
b. An unknown hydrocarbon consisting of several peaks.
c. Laboratory notes result to have an atypical pattern for diesel analysis.
d. Concentration due to the presence of a heavier petroleum hydrocarbon range.
e. Concentration due to the presence of a discrete peak not indicative of gasoline.
f. The positive result for TPH-d analysis on this sample appears to be a lighter hydrocarbon than diesel.



LEGEND

MW-1 ◉ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

OMW-6 Ø ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

(155.48) GROUNDWATER ELEVATION IN FEET - MSL, 2-28-95

153.0 GROUNDWATER ELEVATION CONTOUR IN FEET - MSL, 2-28-95

* SURVEY REQUIRED - UNABLE TO USE FOR CONTOURING

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

APPROXIMATE GRADIENT = 0.05

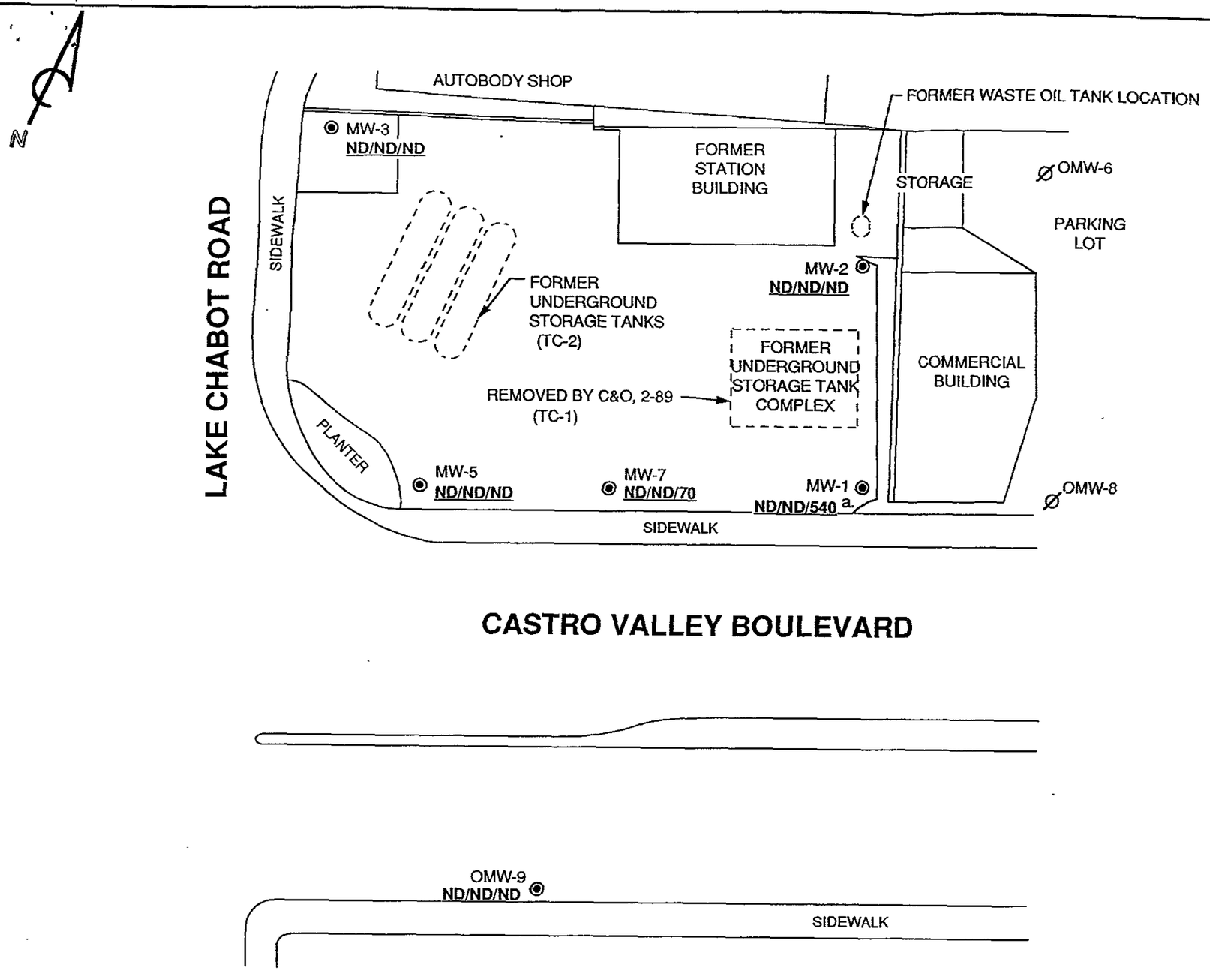
PACIFIC ENVIRONMENTAL GROUP, INC.

SCALE
0 30 60 FEET

FORMER SHELL SERVICE STATION
2724 Castro Valley Boulevard at Lake Chabot Road
Castro Valley, California

GROUNDWATER ELEVATION CONTOUR MAP

FIGURE:
1
PROJECT:
305-094.2D



LEGEND

MW-1 ◉ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

OMW-6 Ø ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

ND/ND/70 TPH-g/BENZENE/TPH-d CONCENTRATION IN *GROUNDWATER, IN PARTS PER BILLION, 2-28-95*

ND NOT DETECTED

a. LABORATORY NOTES RESULT TO HAVE AN ATYPICAL PATTERN FOR DIESEL ANALYSIS.

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

PACIFIC ENVIRONMENTAL GROUP, INC.

SCALE
0 30 60 FEET

FORMER SHELL SERVICE STATION
2724 Castro Valley Boulevard at Lake Chabot Road
Castro Valley, California

TPH-g/BENZENE/TPH-d CONCENTRATION MAP

FIGURE:
2
PROJECT:
305-094.2D

ATTACHMENT A

GROUNDWATER SAMPLING REPORT

BLAINE
TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

March 20, 1995

Shell Oil Company
P.O. Box 4023
Concord, CA 94524

Attn: Lynn Walker

SITE:
Shell WIC #204-1381-0407
2724 Castro Valley Blvd.
Castro Valley, California

QUARTER:
1st quarter of 1995

QUARTERLY GROUNDWATER SAMPLING REPORT 950228-L-2

This report contains data collected during routine inspection, gauging and sampling of groundwater monitoring wells performed by Blaine Tech Services, Inc. in response to the request of the consultant who is overseeing work at this site on behalf of our mutual client, Shell Oil Company. Data collected in the course of our field work is presented in a TABLE OF WELL GAUGING DATA. The field information was collected during our preliminary gauging and inspection of the wells, the subsequent evacuation of each well prior to sampling, and at the time of sampling.

Measurements taken include the total depth of the well and the depth to water. The surface of water was further inspected for the presence of immiscibles which may be present as a thin film (a sheen on the surface of the water) or as a measurable free product zone (FPZ). At intervals during the evacuation phase, the purge water was monitored with instruments that measure electrical conductivity (EC), potential hydrogen (pH), temperature (degrees Fahrenheit), and turbidity (NTU). In the interest of simplicity, fundamental information is tabulated here, while the bulk of the information is turned over directly to the consultant who is making professional interpretations and evaluations of the conditions at the site.

STANDARD PROCEDURES

Evacuation

Groundwater wells are thoroughly purged before sampling to insure that the sample is collected from water that has been newly drawn into the well from the surrounding geologic formation. The selection of equipment to evacuate each well is based on the physical characteristics of the well and what is known about the performance of the formation in which the well has been installed. There are several suitable devices which can be used for evacuation. The most commonly employed devices are air or gas actuated pumps, electric submersible pumps, and hand or mechanically actuated bailers. Our personnel frequently employ USGS/Middleburg positive displacement pumps or similar air actuated pumps which do not agitate the water standing in the well.

Normal evacuation removes three case volumes of water from the well. More than three case volumes of water are removed in cases where more evacuation is needed to achieve stabilization of water parameters and when requested by the local implementing agency. Less water may be obtained in cases where the well dewaters and does not recharge to 80% of its original volume within two hours and any additional time our personnel have reason to remain at the site. In such cases, our personnel return to the site within twenty four hours and collect sample material from the water which has recharged into the well case.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site. Effluent water from purging and on-site equipment cleaning is collected and transported to Shell's Martinez Manufacturing Complex in Martinez, California.

Free Product Skimmer

The column headed, VOLUME OF IMMISCIBLES REMOVED (ml) is included in the TABLE OF WELL GAUGING DATA to cover situations where a free product skimming device must be removed from the well prior to gauging. Skimmers are installed in wells with a free product zone on the surface of the water. The skimmer is a free product recovery device which often prevents normal well gauging and free product zone measurements. The 2.0" and 3.0" PetroTraps fall into the category of devices that obstruct normal gauging. In cases where the consultant elects to have our personnel pull the skimmers out of the well and gauge the well, our personnel perform the additional task of draining the accumulated free product out of the PetroTrap before putting it back in the well. This

recovered free product is measured and logged in the VOLUME OF IMMISCIBLES REMOVED column. Gauging at such site is performed in accordance with specific directions from the professional consulting firm overseeing work at the site on Shell's behalf.

Sample Containers

Sample material is collected in specially prepared containers which are provided by the laboratory that performs the analyses.

Sampling

Sample material is collected in stainless steel bailer type devices normally fitted with both a top and a bottom check valve. Water is promptly decanted into new sample containers in a manner which reduces the loss of volatile constituents and follows the applicable EPA standard for handling volatile organic and semi-volatile compounds.

Following collection, samples are promptly placed in an ice chest containing prefrozen blocks of an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with a site designation and a discrete sample identification number specific to that particular groundwater well. Additional standard notations (e.g. time, date, sampler) are also made on the label.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under a standard Shell Oil Company chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date, and signature of the person releasing the samples followed by the time, date and signature of the person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to National Environmental Testing, Inc. in Santa Rosa, California. NET is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #178.

Objective Information Collection

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. performs no consulting and does not become involved in the marketing or installation of remedial systems of any kind. Blaine Tech Services, Inc. is concerned only with the generation of objective information, not with the use of that information to support evaluations and recommendations concerning the environmental condition of the site. Even the straightforward interpretation of objective analytical data is better performed by interested regulatory agencies, and those engineers and geologists who are engaged in the work of providing professional opinions about the site and proposals to perform additional investigation or design remedial systems.

Reportage

Submission of this report and the attached laboratory report to interested regulatory agencies is handled by the consultant in charge of the project. Any professional evaluations or recommendations will be made by the consultant under separate cover.

Please call if we can be of any further assistance.

Richard C. Blaine

RCB/lp

attachments: table of well gauging data
chain of custody
certified analytical report

cc: Pacific Environmental Group, Inc.
2025 Gateway Place, Suite #440
San Jose, CA 95110
ATTN: Rhonda Barrick

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
MW-1	2/28/95	TOC	--	NONE	--	--	5.06	14.72
MW-2 *	2/28/95	TOC	--	NONE	--	--	6.46	11.95
MW-3	2/28/95	TOC	--	NONE	--	--	7.67	25.51
MW-5	2/28/95	TOC	--	NONE	--	--	5.88	22.19
MW-7	2/28/95	TOC	--	NONE	--	--	4.31	16.31
OMW-9	2/28/95	TOC	--	NONE	--	--	9.49	13.98

* Sample DUP was a duplicate sample taken from well MW-2.

155818

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 950228-L2

Date: 2-28-95
Page 1 of 2

Site Address: 2724 Castro Valley Blvd., Castro Valley

WIC#: 204-1381-0407

Shell Engineer: Lynn Walker
Phone No.: (510) 675-6169
Fax #: 675-6172

Consultant Name & Address:
Blaine Tech Services, Inc.
985 Timothy Drive, San Jose, CA 95133

Consultant Contact: Jim Keller
Phone No.: (408) 995-5535
Fax #: 293-8773

Comments:

Sampled by: [signature]

Printed Name: LAD B OLVER

LAB: NET

CHECK ONE (1) BOX ONLY	CT/DT
Quarterly Monitoring [X]	5461
Site Investigation [ ]	5441
Soil Classify/Disposal [ ]	5442
Water Classify/Disposal [ ]	5443
Soil/Air Rem. or Sys. O & M [ ]	5452
Water Rem. or Sys. O & M [ ]	5453
Other [ ]	

TURN AROUND TIME

- 24 hours [ ]
- 48 hours [ ]
- 16 days [X] (Normal)
- Other [ ]

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-1	2/28			X		5		X				X								
MW-2	↓			X		5		X				X								
MW-3				X		5		X				X								
MW-5				X		5		X				X								
MW-7				X		5		X				X								
~~MM~~				~~X~~																
MW-9				X		5		X				X								
DUP.	↓			X		5		X				X								

Relinquished By (signature):	Printed Name:	Date/Time	Received (signature):	Printed Name:	Date/Time
[signature]	LAD B OLVER	Date: 3/2 Time: 11:15	[signature]	G P LUMBAR	Date: 3/2 Time: 11:15
[signature]	G P LUMBAR	Date: 3/2 Time: 1520	[signature]	PHIL PROSSER	Date: 3/2/95 Time: 1520
[signature]	PHIL PROSSER	Date: 3/2/95 Time: 1600	[signature]	PAM GREENS	Date: 3/2/95 Time: 1600

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

#5818

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 950228-L2

Date: 2-28-95
Page 1 of 2

Address: 2724 Castro Valley Blvd., Castro Valley

LAB: NET

Analysis Required

CH#: 204-1381-0407

Engineer: Lynn Walker — Phone No.: (510) 675-6169 Fax #: 675-6172

Consultant Name & Address: Blaine Tech Services, Inc. 985 Timothy Drive, San Jose, CA 95133

Consultant Contact: Jim Keller — Phone No.: (408) 995-5535 Fax #: 293-8773

Comments:

Sampled by: JAB

Sampled Name: LAD B OLVER

CHECK ONE (1) BOX ONLY	C1/D1	TURN AROUND TIME
Quarterly Monitoring XXX	6461	24 hours ☐
Site Investigation ☐	6441	48 hours ☐
Soil Closure/Disposal ☐	6442	15 days ☒ (Normal)
Water Closure/Disposal ☐	6443	Other ☐ ____
Soil/Air Rem. or Sys. O & M ☐	6462	NOTE: Notify lab as soon as Possible of 24/48 hr. TAT.
Water Rem. or Sys. O & M ☐	6463	
Other ☐		

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
EB	2/28			X		2		X										
TB	↓			X		2						X						

Relinquished By (signature)	Printed Name	Date	Time	Received (signature)	Printed Name	Date	Time
	LAD B OLVER	3/2	1115		G Lumbra	3/2	1105
	G Lumbra	3/2	1320		PHIL TROSSER	3/2/95	1320
	PHIL TROSSER	3/2/95	1600		PAM GREENE	3/2/95	1600

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev 01 Chain of Custody

NATIONAL ENVIRONMENTAL TESTING, INC.

Santa Rosa Division
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Jim Keller
Blaine Tech Services
985 Timothy Dr.
San Jose, CA 95133

Date: 03/16/1995
NET Client Acct. No: 1821
NET Pacific Job No: 95.00997
Received: 03/02/1995

Client Reference Information

Shell 2724 Castro Valley Blvd., Castro Valley/950228-L2

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Thomas F. Cullen, Jr.
Division Manager

FOR
Jennifer L. Roseberry
Project Manager

Enclosure(s)

Ref: Shell 2724 Castro Valley Blvd., Castro Valley/950228-L2

SAMPLE DESCRIPTION: MW-1
Date Taken: 02/28/1995
Time Taken:
NET Sample No: 237343

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						03/14/1995	2666
DILUTION FACTOR*	1						03/14/1995	2666
as Gasoline	ND		50	ug/L	5030		03/14/1995	2666
Carbon Range:	--						03/14/1995	2666
METHOD 8020 (GC,Liquid)	--						03/14/1995	2666
Benzene	ND		0.5	ug/L	8020		03/14/1995	2666
Toluene	ND		0.5	ug/L	8020		03/14/1995	2666
Ethylbenzene	ND		0.5	ug/L	8020		03/14/1995	2666
Xylenes (Total)	ND		0.5	ug/L	8020		03/14/1995	2666
SURROGATE RESULTS	--						03/14/1995	2666
Bromofluorobenzene (SURR)	108			% Rec.	5030		03/14/1995	2666
METHOD M8015 (EXT., Liquid)						03/04/1995		
DILUTION FACTOR*	1						03/06/1995	943
as Diesel	540	D-	50	ug/L	3510		03/06/1995	943
Carbon Range:	C10-C28						03/06/1995	943

D- : The positive result has an atypical pattern for Diesel analysis.

Ref: Shell 2724 Castro Valley Blvd., Castro Valley/950228-L2

SAMPLE DESCRIPTION: MW-2
Date Taken: 02/28/1995
Time Taken:
NET Sample No: 237344

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						03/14/1995	2666
DILUTION FACTOR*	1						03/14/1995	2666
as Gasoline	ND		50	ug/L	5030		03/14/1995	2666
Carbon Range:	--						03/14/1995	2666
METHOD 8020 (GC,Liquid)	--						03/14/1995	2666
Benzene	ND		0.5	ug/L	8020		03/14/1995	2666
Toluene	ND		0.5	ug/L	8020		03/14/1995	2666
Ethylbenzene	ND		0.5	ug/L	8020		03/14/1995	2666
Xylenes (Total)	ND		0.5	ug/L	8020		03/14/1995	2666
SURROGATE RESULTS	--						03/14/1995	2666
Bromofluorobenzene (SURR)	100			% Rec.	5030		03/14/1995	2666
METHOD M8015 (EXT., Liquid)						03/04/1995		
DILUTION FACTOR*	1						03/06/1995	943
as Diesel	ND		50	ug/L	3510		03/06/1995	943
Carbon Range:	--						03/06/1995	943

Ref: Shell 2724 Castro Valley Blvd., Castro Valley/950228-L2

SAMPLE DESCRIPTION: MW-3
Date Taken: 02/28/1995
Time Taken:
NET Sample No: 237345

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						03/14/1995	2666
DILUTION FACTOR*	1						03/14/1995	2666
as Gasoline	ND		50	ug/L	5030		03/14/1995	2666
Carbon Range:	--						03/14/1995	2666
METHOD 8020 (GC,Liquid)	--						03/14/1995	2666
Benzene	ND		0.5	ug/L	8020		03/14/1995	2666
Toluene	ND		0.5	ug/L	8020		03/14/1995	2666
Ethylbenzene	ND		0.5	ug/L	8020		03/14/1995	2666
Xylenes (Total)	ND		0.5	ug/L	8020		03/14/1995	2666
SURROGATE RESULTS	--						03/14/1995	2666
Bromofluorobenzene (SURR)	97			% Rec.	5030		03/14/1995	2666
METHOD M8015 (EXT., Liquid)						03/04/1995		
DILUTION FACTOR*	1						03/06/1995	943
as Diesel	ND		50	ug/L	3510		03/06/1995	943
Carbon Range:	--						03/06/1995	943

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.00997

Date: 03/16/1995
ELAP Cert: 1386
Page: 5

Ref: Shell 2724 Castro Valley Blvd., Castro Valley/950228-L2

SAMPLE DESCRIPTION: MW-5
Date Taken: 02/28/1995
Time Taken:
NET Sample No: 237346

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)							03/14/1995	2666
METHOD 5030/M8015	--						03/14/1995	2666
DILUTION FACTOR*	1						03/14/1995	2666
as Gasoline	ND		50	ug/L	5030		03/14/1995	2666
Carbon Range:	--						03/14/1995	2666
METHOD 8020 (GC,Liquid)	--						03/14/1995	2666
Benzene	ND		0.5	ug/L	8020		03/14/1995	2666
Toluene	ND		0.5	ug/L	8020		03/14/1995	2666
Ethylbenzene	ND		0.5	ug/L	8020		03/14/1995	2666
Xylenes (Total)	ND		0.5	ug/L	8020		03/14/1995	2666
SURROGATE RESULTS	--						03/14/1995	2666
Bromofluorobenzene (SURR)	105			% Rec.	5030		03/14/1995	2666
METHOD M8015 (EXT., Liquid)						03/04/1995	03/06/1995	943
DILUTION FACTOR*	1						03/06/1995	943
as Diesel	ND		50	ug/L	3510		03/06/1995	943
Carbon Range:	--							

Ref: Shell 2724 Castro Valley Blvd., Castro Valley/950228-L2

SAMPLE DESCRIPTION: MW-7
Date Taken: 02/28/1995
Time Taken:
NET Sample No: 237347

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						03/14/1995	2666
DILUTION FACTOR*	1						03/14/1995	2666
as Gasoline	ND		50	ug/L	5030		03/14/1995	2666
Carbon Range:	--						03/14/1995	2666
METHOD 8020 (GC,Liquid)	--						03/14/1995	2666
Benzene	ND		0.5	ug/L	8020		03/14/1995	2666
Toluene	ND		0.5	ug/L	8020		03/14/1995	2666
Ethylbenzene	ND		0.5	ug/L	8020		03/14/1995	2666
Xylenes (Total)	ND		0.5	ug/L	8020		03/14/1995	2666
SURROGATE RESULTS	--						03/14/1995	2666
Bromofluorobenzene (SURR)	101			% Rec.	5030		03/14/1995	2666
METHOD M8015 (EXT., Liquid)						03/04/1995		
DILUTION FACTOR*	1						03/06/1995	943
as Diesel	70		50	ug/L	3510		03/06/1995	943
Carbon Range:	C12-C18						03/06/1995	943

Ref: Shell 2724 Castro Valley Blvd., Castro Valley/950228-L2

SAMPLE DESCRIPTION: OMW-9
Date Taken: 02/28/1995
Time Taken:
NET Sample No: 237348

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						03/14/1995	2666
DILUTION FACTOR*	1						03/14/1995	2666
as Gasoline	ND		50	ug/L	5030		03/14/1995	2666
Carbon Range:	--						03/14/1995	2666
METHOD 8020 (GC,Liquid)	--						03/14/1995	2666
Benzene	ND		0.5	ug/L	8020		03/14/1995	2666
Toluene	ND		0.5	ug/L	8020		03/14/1995	2666
Ethylbenzene	ND		0.5	ug/L	8020		03/14/1995	2666
Xylenes (Total)	ND		0.5	ug/L	8020		03/14/1995	2666
SURROGATE RESULTS	--						03/14/1995	2666
Bromofluorobenzene (SURR)	103			% Rec.	5030		03/14/1995	2666
METHOD M8015 (EXT., Liquid)						03/04/1995		
DILUTION FACTOR*	1						03/06/1995	943
as Diesel	ND		50	ug/L	3510		03/06/1995	943
Carbon Range:	--						03/06/1995	943

Ref: Shell 2724 Castro Valley Blvd., Castro Valley/950228-L2

SAMPLE DESCRIPTION: DUP
Date Taken: 02/28/1995
Time Taken:
NET Sample No: 237349

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						03/14/1995	2666
DILUTION FACTOR*	1						03/14/1995	2666
as Gasoline	ND		50	ug/L	5030		03/14/1995	2666
Carbon Range:	--						03/14/1995	2666
METHOD 8020 (GC,Liquid)	--						03/14/1995	2666
Benzene	ND		0.5	ug/L	8020		03/14/1995	2666
Toluene	ND		0.5	ug/L	8020		03/14/1995	2666
Ethylbenzene	ND		0.5	ug/L	8020		03/14/1995	2666
Xylenes (Total)	ND		0.5	ug/L	8020		03/14/1995	2666
SURROGATE RESULTS	--						03/14/1995	2666
Bromofluorobenzene (SURR)	103			% Rec.	5030		03/14/1995	2666
METHOD M8015 (EXT., Liquid)						03/04/1995		
DILUTION FACTOR*	1						03/06/1995	943
as Diesel	ND		50	ug/L	3510		03/06/1995	943
Carbon Range:	--						03/06/1995	943

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.00997

Date: 03/16/1995
ELAP Cert: 1386
Page: 9

Ref: Shell 2724 Castro Valley Blvd., Castro Valley/950228-L2

SAMPLE DESCRIPTION: EB
Date Taken: 02/28/1995
Time Taken:
NET Sample No: 237350

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD M8015 (EXT., Liquid)						03/04/1995		
DILUTION FACTOR*	1						03/06/1995	943
as Diesel	ND		50	ug/L	3510		03/06/1995	943
Carbon Range:	--						03/06/1995	943

Ref: Shell 2724 Castro Valley Blvd., Castro Valley/950228-L2

SAMPLE DESCRIPTION: TB
Date Taken: 02/28/1995
Time Taken:
NET Sample No: 237351

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						03/14/1995	2666
DILUTION FACTOR*	1						03/14/1995	2666
as Gasoline	ND		50	ug/L	5030		03/14/1995	2666
Carbon Range:	--						03/14/1995	2666
METHOD 8020 (GC,Liquid)	--						03/14/1995	2666
Benzene	ND		0.5	ug/L	8020		03/14/1995	2666
Toluene	ND		0.5	ug/L	8020		03/14/1995	2666
Ethylbenzene	ND		0.5	ug/L	8020		03/14/1995	2666
Xylenes (Total)	ND		0.5	ug/L	8020		03/14/1995	2666
SURROGATE RESULTS	--						03/14/1995	2666
Bromofluorobenzene (SURR)	100			% Rec.	5030		03/14/1995	2666

Ref: Shell 2724 Castro Valley Blvd., Castro Valley/950228-L2

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
TPH (Gas/BTXE,Liquid)							
as Gasoline	99.0	0.99	1.00	mg/L	03/14/1995	aal	2666
Benzene	100.8	5.04	5.00	ug/L	03/14/1995	aal	2666
Toluene	99.8	4.99	5.00	ug/L	03/14/1995	aal	2666
Ethylbenzene	101.0	5.05	5.00	ug/L	03/14/1995	aal	2666
Xylenes (Total)	104.0	15.6	15.0	ug/L	03/14/1995	aal	2666
Bromofluorobenzene (SURR)	109.0	109	100	% Rec.	03/14/1995	aal	2666
METHOD M8015 (EXT., Liquid)							
as Diesel	94.6	946	1000	mg/L	03/06/1995	tts	943

Ref: Shell 2724 Castro Valley Blvd., Castro Valley/950228-L2

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
TPH (Gas/BTXE,Liquid)						
as Gasoline	ND	0.05	mg/L	03/14/1995	aal	2666
Benzene	ND	0.5	ug/L	03/14/1995	aal	2666
Toluene	ND	0.5	ug/L	03/14/1995	aal	2666
Ethylbenzene	ND	0.5	ug/L	03/14/1995	aal	2666
Xylenes (Total)	ND	0.5	ug/L	03/14/1995	aal	2666
Bromofluorobenzene (SURR)	92		% Rec.	03/14/1995	aal	2666
METHOD M8015 (EXT., Liquid)						
as Diesel	ND	0.05	mg/L	03/06/1995	tts	943

Ref: Shell 2724 Castro Valley Blvd., Castro Valley/950228-L2

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Units	Date Analyzed	Run Batch	Sample Spiked
TPH (Gas/BTXE,Liquid)											237343
as Gasoline	100.0	103.0	3.0	1.00	ND	1.00	1.03	mg/L	03/14/1995	2666	237343
Benzene	113.0	114.4	1.2	21.6	ND	24.4	24.7	ug/L	03/14/1995	2666	237343
Toluene	110.9	112.9	1.8	81.6	ND	90.5	92.1	ug/L	03/14/1995	2666	237343
METHOD M8015 (EXT., Liquid)											237350
as Diesel	64.0	61.6	3.8	2.11	ND	1.35	1.30	mg/L	03/06/1995	943	237350

Ref: Shell 2724 Castro Valley Blvd., Castro Valley/950228-L2

LABORATORY CONTROL SAMPLE REPORT

Parameter	LCS % Recovery	Duplicate LCS % Recovery	RPD	LCS Amount Found	Duplicate LCS Amount Found	LCS Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch
METHOD M8015 (EXT., Liquid) as Diesel	58.5			0.585		1.00	mg/L	03/06/1995	tts	943
METHOD M8015 (EXT., Liquid) as Diesel	83.2			0.832		1.00	mg/L	03/06/1995	tts	943

NET®

KEY TO ABBREVIATIONS and METHOD REFERENCES

<	:	Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
*	:	Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
ICVS	:	Initial Calibration Verification Standard (External Standard).
mean	:	Average; sum of measurements divided by number of measurements.
mg/Kg (ppm)	:	Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
mg/L	:	Concentration in units of milligrams of analyte per liter of sample.
mL/L/hr	:	Milliliters per liter per hour.
MPN/100 mL	:	Most probable number of bacteria per one hundred milliliters of sample.
N/A	:	Not applicable.
NA	:	Not analyzed.
ND	:	Not detected; the analyte concentration is less than applicable listed reporting limit.
NTU	:	Nephelometric turbidity units.
RPD	:	Relative percent difference, 100 [Value 1 - Value 2]/mean value.
SNA	:	Standard not available.
ug/Kg (ppb)	:	Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
ug/L	:	Concentration in units of micrograms of analyte per liter of sample.
umhos/cm	:	Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

COOLER RECEIPT FORM

Project: 950228-L2 Log No: 5818
Cooler received on: 3/2/95 and checked on 3/2/95 by
(signature)

Were custody papers present?..... (YES) NO
Were custody papers properly filled out?..... (YES) NO
Were the custody papers signed?..... (YES) NO
Was sufficient ice used?..... (YES) NO TEMP.: 0.10C.
Did all bottles arrive in good condition (unbroken)?..... (YES) NO
Did bottle labels match COC?..... (YES) NO
Were proper bottles used for analysis indicated?..... (YES) NO
Correct preservatives used?..... (YES) NO
VOA vials checked for headspace bubbles?..... (YES) NO
Note which voas (if any) had bubbles:*

Sample descriptor:	Number of vials:

*All VOAs with headspace bubbles have been set aside so they will not be used for analysis.....YES NO

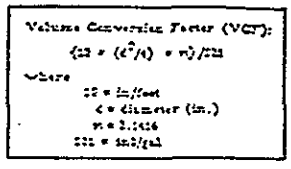
List here all other jobs received in the same cooler:

Client Job #	NET log #

(coolerrec)

SHELL WELL MONITORING DATA SHEET

Project #: 950228-L2	Wic # 204 1381 0407
Sampler: LAD	Date Sampled: 2-28-95
Well I.D.: MW-1	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 14.72 After	Depth to Water: Before 5.06 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other --



Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 5.87

1 Case Volume		Specified Volumes		gallons
6.3	x	3	=	18.9

Purging: Bailer ☐ Middleburg ☐ Electric Submersible ☑ Suction Pump ☐ Type of Installed Pump ___

Sampling: Bailer ~~☑~~ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1530	61.4	7.5	1000.	21.	7.	
1532	61.0	7.4	1010.	17.	13.	
1537	61.6	7.3	1000.	37.	19.	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 19

Sampling Time: 1540

Sample I.D.: MW-1 Laboratory: NET

Analyzed for: TPHG, BTEX, TPHD

Duplicate I.D.: Cleaning Blank I.D.:

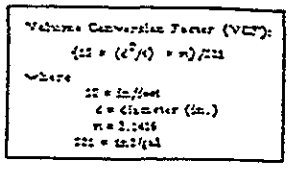
Analyzed for:

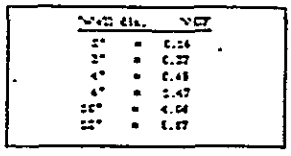
Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 950228-LZ	Wic # 204 1381 0407
Sampler: LAD	Date Sampled: 2-28-95
Well I.D.: MW-2	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 11.95 After	Depth to Water: Before 6.46 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other --





3.6	x	3	=	10.8
1 Case Volume		Specified Volumes		gallons

Purging: Bailer ☐ Middleburg ☐ Electric Submersible ☒ Suction Pump ☐ Type of Installed Pump ___

Sampling: Bailer ☒ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1545	61.2	7.6	850.	148.	4.	
1547	61.8	7.5	840.	>200.	8.	
1550	62.0	7.4	840.	>200.	11.	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 11.

Sampling Time: 1555

Sample I.D.: MW-2 Laboratory: NET

Analyzed for: TPHG, BTEX, TPHD

Duplicate I.D.: DUP Cleaning Blank I.D.:

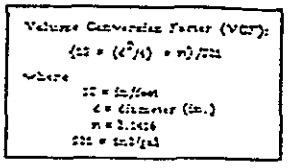
Analyzed for: TPHG, BTEX, TPHD

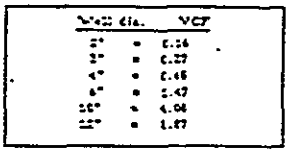
Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 950228-LZ	Wic # 204 1381 0407
Sampler: LAD	Date Sampled: 2-28-95
Well I.D.: MW-3	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 25.51 After	Depth to Water: Before 7.67 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC)	Grade Other --





1 Case Volume	x	Specified Volumes	=	gallons
11.6	x	3	=	34.8

Purging: Bailer ☐
Middleburg ☐
Electric Submersible ☒
Suction Pump ☐
Type of Installed Pump ___

Sampling: Bailer ☒
Middleburg ☐
Electric Submersible ☐
Suction Pump ☐
Installed Pump ☐

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1504	67.4	7.3	1050.	24.	12.	
1506	67.0	7.3	1040.	32.	24.	
1508	66.4	7.2	1040.	27.	35	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 35.

Sampling Time: 1515

Sample I.D.: MW-3 Laboratory: NET

Analyzed for: TPH6, BTEX, TPHD

Duplicate I.D.: Cleaning Blank I.D.: EB @ 1500

Analyzed for: TPHD AFTER MW-5

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 950228-LZ	Wic # 204-1381-0407
Sampler: LAD	Date Sampled: 2-28-95
Well I.D.: MW-5	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 22.19 After	Depth to Water: Before 5.88 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other --

Volume Conversion Factor (VCF):
$(12 \times (d^2/4) \times \pi)/231$
where
12 = in./foot
d = diameter (in.)
π = 3.1416
231 = in^3/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 5.87

10.6	x	3		31.8
1 Case Volume		Specified Volumes	=	gallons

Purging: Bailer ☐ Middleburg ☐ Electric Submersible ☒ Suction Pump ☐ Type of Installed Pump _____

Sampling: Bailer ☒ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1445	66.2	7.4	1000.	41.	11.	
1447	65.1	7.2	1000.	68.	22.	
1449	64.9	7.0	1020.	75.	32.	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 32.

Sampling Time: 1455

Sample I.D.: MW-5 Laboratory: NET

Analyzed for: TPH6, BTEX, TPHD

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 950228-LZ	Wic # 204 1381 0407
Sampler: LAD	Date Sampled: 2-28-95
Well I.D.: MW-7	Well Diameter: (circle one) 2 3 4 6 ___
Total Well Depth: Before 16.31 After	Depth to Water: Before 4.31 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: PVC	Grade Other --

Volume Conversion Factor (VCF):
$(22 \times (c^2/4) \times \pi)/231$
Where
22 = Gal/Foot
c = Diameter (in.)
π = 3.1416
231 = Cubic Inches/Gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 5.87

1.9	x	3	=	5.7
1 Case Volume		Specified Volumes		gallons

Purging: Bailer ☒
Middleburg ☐
Electric Submersible ☐
Suction Pump ☐
Type of Installed Pump _____

Sampling: Bailer ☒
Middleburg ☐
Electric Submersible ☐
Suction Pump ☐
Installed Pump ☐

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1609	60.7	7.9	480.	>200.	2.	
1613	59.7	7.8	490.	>200.	4.	
1617	59.9	7.8	520.	>200.	6.	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 6.

Sampling Time: 1622

Sample I.D.: MW-7 Laboratory: NET

Analyzed for: TPHG, BTEX, TPHD

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 950228-LZ	Wic # 204 1381 0407
Sampler: LAD	Date Sampled: 2-28-95
Well I.D.: OMW-9	Well Diameter: (circle one) 2 (3) 4 6 ___
Total Well Depth: Before 13.98 After	Depth to Water: Before 9.49 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other --

Volume Conversion Factor (VCF):
$(12 \times (d^2/4) \times \pi)/231$
where
12 = in./foot
d = diameter (in.)
π = 3.1416
231 = cu.in./gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 5.87

1.7	x	3	=	5.1
1 Case Volume		Specified Volumes		gallons

Purging: Bailer ☒
Middleburg ☐
Electric Submersible ☐
Suction Pump ☐
Type of Installed Pump ____

Sampling: Bailer ☒
Middleburg ☐
Electric Submersible ☐
Suction Pump ☐
Installed Pump ☐

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1414	66.3	7.8	660.	111.	2.	
1418	65.6	7.5	770.	67.	4.	
1422	65.2	7.3	750.	67.	6.	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 6.

Sampling Time: 1430

Sample I.D.: OMW-9 Laboratory: NET

Analyzed for: TPHG, BTEX, TPHD

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations: