PACIFIC
ENVIRONMENTAL
GROUP, INC.

ALCO
HAZMAT
94 OCT 13 AM 9:25

should GW investigation be performed in vicinity trends (sewer main) down Village Pkwy. Has plume migrated offsite into trends?
Rob, Stid ?

October 6, 1994
Project 305-087.2B

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

Re: Quarterly Report - Third Quarter 1994
Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California
WIC No 204-2217-0105

Rua,
I looked this site up in the Log book
oil changer Stid 2516 is the same address
I'm wondering why this site isn't an Loper Pond

Dear Mr. Walker:

The following presents the results of the third quarter 1994 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 August 25, 1994. Groundwater elevation contours for the sampling date are shown on Figure 1, which includes groundwater elevation data supplied by Kaprealian Engineering for the Unocal Corporation service station; data supplied by Alisto Engineering for the BP Oil Company service station and the ARCO station were not available this quarter. Table 1 presents groundwater elevation data.

Groundwater analytical data are presented in Table 2. Total petroleum hydrocarbons calculated as gasoline and benzene concentrations for the August 1994 sampling event are shown on Figure 2. Blaine's groundwater sampling report, which includes field data, is presented as Attachment A.

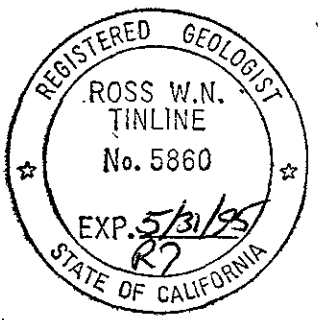
Due to consistently non-detectable or low concentrations of petroleum hydrocarbons in groundwater, PACIFIC recommends the following sampling reductions.

Sampling Frequency		
Well	Current	Proposed
MW-4	Semiannually	Annually
MW-5	Quarterly	Semiannually
MW-7	Semiannually	Annually
MW-8	Semiannually	Annually
MW-9	Semiannually	Removed from sampling program

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 and BTEX Compounds)
Figure 1- Groundwater Elevation Contour Map
Figure 2- TPH-g/Benzene Concentration Map
Attachment A - Groundwater Sampling Report

cc: Mr. Craig Mayfield, Alameda County Flood Control and Water Conservation District
Mr. Gil Wistar, Alameda County Health Care Services
Mr. Brad Boschetto, Shell Oil Company

Table 1
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-1	05/09/88	334.83	8.72	326.11
	08/26/88		9.15	325.68
	10/05/88		8.54	326.29
	11/22/88		9.31	325.52
	12/09/88		9.33	325.50
	01/13/89		NM	NM
	02/10/89		8.51	326.32
	03/02/89		8.71	326.12
	04/04/89		7.93	326.90
	05/01/89		8.43	326.40
	06/01/89		8.56	326.27
	06/29/89		8.60	326.23
	08/09/89		8.43	326.40
	09/11/89		8.65	326.18
	10/10/89		8.52	326.31
	10/25/89		8.56	326.27
	12/20/89		8.80	326.03
	01/17/90		8.47	326.36
	02/23/90		8.25	326.58
	06/04/90		8.62	326.21
	11/20/90		9.50	325.33
	02/12/91		9.51	325.32
	05/06/91		8.34	326.49
	08/28/91		9.28	325.55
	11/13/91		9.59	325.24
	02/25/92		7.49	327.34
	05/12/92		8.64	326.19
	08/12/92		9.15	325.68
	11/10/92		10.04	324.79
	02/10/93		7.24	327.59
	05/10/93		7.78	327.05
	08/12/93		8.54	326.29
	11/11/93		8.56	326.27
	02/11/94		8.62	326.21
	05/17/94		7.96	326.87
	08/25/94		9 24	325 59
MW-2	05/09/88	336 96	10.85	326.11
	08/26/88		11 29	325 67
	10/05/88		10 83	326.13
	11/22/88		11 42	325 54
	12/09/88		11 45	325.51
	01/13/89		NM	NM
	02/10/89		10.74	326.22
	03/02/89		10.91	326 05
	04/04/89		10 06	326.90

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-2 (cont.)	05/01/89		10.58	326.38
	05/31/89		10.73	326.23
	06/28/89		10.90	326.06
	08/08/89		10.78	326.18
	09/08/89		10.97	325.99
	10/09/89		10.88	326.08
	10/24/89		11.00	325.96
	12/21/89		11.06	325.90
	01/17/90		10.78	326.18
	02/23/90		10.35	326.61
	06/04/90		10.72	326.24
	11/20/90		11.35	325.61
	02/12/91		11.64	325.32
	05/06/91		10.05	326.91
	08/28/91		11.16	325.80
	11/13/91		11.57	325.39
	02/25/92		9.66	327.30
	05/12/92		10.97	325.99
	08/12/92		11.58	325.38
	11/10/92		12.05	324.91
	02/10/93		9.28	327.68
	05/10/93		9.65	327.31
	08/12/93		10.70	326.26
	11/11/93		11.36	325.60
	02/11/94		11.04	325.92
	05/17/94		10.29	326.67
	08/25/94		11.29	325.67
MW-3	05/09/88	336.96	10.59	326.37
	08/26/88		11.10	325.86
	10/05/88		10.43	326.53
	11/22/88		11.16	325.80
	12/09/88		11.24	325.72
	01/13/89		NM	NM
	02/10/89		10.43	326.53
	03/02/89		10 59	326 37
	04/04/89		9 45	327 51
	05/01/89		10 20	326 76
	06/01/89		10 40	326.56
	06/28/89		10 60	326 36
	08/09/89		10 64	326 32
	09/11/89		10 83	326.13
	10/10/89		10.95	326 01
	10/26/89		10 86	326 10
	12/21/89		11 09	325.87
	01/17/90		10.90	326 06

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-3 (cont.)	02/23/90		10.52	326.44
	06/04/90		10.52	326.44
	11/20/90		12.65	324.31
	02/12/91		11.16	325.80
	05/06/91	336.93	9.85	327.08
	08/28/91		10.90	326.03
	11/13/91		11.28	325.65
	02/25/92		9.04	327.89
	05/12/92		10.50	326.43
	08/12/92		10.94	325.99
	11/10/92		11.84	325.09
	02/10/93		8.82	328.11
	05/10/93		8.88	328.05
	08/12/93		10.36	326.57
	11/11/93		10.64	326.29
	02/11/94		10.68	326.25
	05/17/94		9.92	327.01
	08/25/94		11.30	325.63
MW-4	05/09/88	337.14	10.88	326.26
	08/26/88		11.34	325.80
	10/05/88		10.87	326.27
	11/22/88		11.41	325.73
	12/09/88		11.46	325.68
	01/13/89		NM	NM
	02/10/89		10.78	326.36
	03/02/89		10.92	326.22
	04/04/89		10.04	327.10
	05/01/89		10.52	326.62
	05/31/89		10.62	326.52
	06/28/89		11.00	326.14
	08/09/89		10.92	326.22
	09/08/89		11.05	326.09
	10/10/89		10.97	326.17
	10/26/89		11.35	325.79
	12/21/89		11 07	326 07
	01/17/90		11.08	326.06
	02/23/90		10.90	325 24
	06/04/90		10 74	326 40
	11/20/90		11.45	325.69
	02/12/91		11 50	325 64
	05/06/91		10.04	327.10
	08/28/91		11 18	325 96
	11/13/91		11.60	325 54
	02/25/92		9 45	327.69
	05/12/92		10 84	326 30

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-4 (cont.)	08/12/92		11.36	325.78
	11/10/92		12.12	325.02
	02/10/93		9.40	327.74
	05/10/93		9.54	327.60
	08/12/93		10.68	326.46
	11/11/93		11.97	325.17
	02/11/94		10.71	326.43
	05/17/94		10.30	326.84
	08/25/94		10.84	326.30
MW-5	08/26/88	334.96	9.10	325.86
	10/05/88		9.95	325.01
	11/22/88		8.93	326.03
	12/09/88		10.48	324.48
	01/13/89		NM	NM
	02/10/89		10.35	324.61
	03/02/89		8.50	326.46
	04/05/89		7.72	327.24
	05/01/89		8.21	326.75
	06/01/89		8.40	326.56
	06/29/89		8.65	326.31
	08/09/89		8.76	326.20
	09/11/89		8.80	326.16
	10/10/89		11.92	323.04
	10/25/89		9.03	325.93
	12/20/89		11.26	323.70
	01/18/90		9.95	325.01
	02/23/90		8.30	326.66
	06/04/90		8.57	326.39
	11/20/90		9.45	325.51
	02/11/91		9.27	325.69
	05/06/91		7.90	327.06
	08/28/91		9.28	325.68
	11/13/91		9 36	325 60
	02/25/92		9.02	325.94
	05/12/92		8 65	326 31
	08/12/92		9 40	325 56
	11/10/92		9.68	325.28
	02/10/93		7 97	326 99
	05/10/93		7 76	327 20
	08/12/93		8 75	326 21
	11/11/93		9 32	325 64
	02/11/94		8 97	325 99
	05/17/94		8 12	326 84
	08/25/94		9 19	325.77

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-6	08/26/88	335.42	9.69	325.73
	10/05/88		9.27	326.15
	11/22/88		9.77	325.65
	12/09/88		9.85	325.27
	01/13/89		NM	NM
	02/10/89		9.10	326.32
	03/02/89		9.29	326.13
	04/04/89		8.48	326.94
	05/01/89		8.90	326.52
	06/01/89		9.16	326.26
	06/29/89		9.30	326.12
	08/09/89		9.30	326.12
	09/11/89		9.31	326.11
	10/10/89		9.32	326.10
	10/24/89		9.30	326.12
	12/20/89		9.58	325.84
	01/18/90		9.46	325.96
	02/23/90		8.94	326.48
	06/04/90		9.22	326.20
	11/20/90		9.65	325.77
	02/12/91		9.85	325.57
	05/06/91		9.12	326.30
	08/28/91		9.68	325.74
	11/13/91		10.00	325.42
	02/25/92		8.44	326.98
	05/12/92		9.11	326.31
	08/12/92		9.72	325.70
	11/10/92		10.56	324.86
	02/10/93		7.65	327.77
	05/10/93		8.10	327.32
	08/12/93		9.18	326.24
	11/11/93		9.38	326.04
	02/11/94		9.02	326.40
	05/17/94		8.58	326.84
	08/25/94		9.79	325.63
MW-7	08/26/88	333 23	7 94	325 29
	10/05/88		7.54	325.69
	11/22/88		NM	NM
	12/09/88		7.53	325 70
	01/13/89		NM	NM
	02/10/89		6.62	326.61
	03/02/89		7.03	326.20
	04/05/89		6.80	326 43
	05/01/89		6 53	326.70
	05/31/89		6 93	326 30

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-7 (cont.)	06/28/89		6.85	326.38
	08/09/89		6.67	326.56
	09/07/89		6.90	326.33
	10/10/89		6.90	326.33
	10/24/89		7.29	325.94
	12/20/89		7.47	325.76
	01/18/90		7.49	325.74
	02/23/90		6.92	326.31
	06/04/90		6.95	326.28
	11/20/90		8.10	325.13
	02/11/91		8.04	325.19
	05/06/91		6.37	325.86
	08/28/91		7.94	325.29
	11/13/91		8.41	324.82
	02/25/92		6.99	326.24
	05/12/92		7.42	325.81
	08/12/92		8.65	324.58
	11/10/92		8.82	324.41
	02/10/93		6.06	327.17
	05/10/93		6.68	326.55
	08/12/93		6.83	326.40
	11/11/93		6.90	326.33
	02/11/94		6.12	327.11
	05/17/94		6.06	327.17
	08/25/94		6.76	326.47
MW-8	03/01/89	335.80	8.28	327.52
	04/04/89		7.31	328.49
	05/01/89		8.97	326.83
	05/31/89		9.17	326.63
	06/28/89		9.40	326.40
	08/08/89		9.42	326.28
	09/07/89		8.50	327.30
	10/10/89		9.46	326.34
	10/26/89		9.56	326 24
	12/21/89		9.57	326 23
	01/18/90		9.29	326 51
	02/26/90		8 50	327 30
	06/04/90		9.04	326 76
	02/11/91		9.40	326.40
	05/06/91		8.70	327.10
	08/28/91		9 68	326.12
	11/13/91		9.87	326.93
	02/25/92		7 45	328.35
	05/12/92		9 19	326 61
	08/12/92		9 82	325.98

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-8 (cont.)	11/10/92		10.41	325.39
	02/10/93		7.35	328.45
	05/10/93		8.00	327.80
	08/12/93		9.00	326.80
	11/11/93		9.47	326.33
	02/11/94		8.80	327.00
	05/17/94		8.21	327.59
	08/25/94		9.52	326.28
MW-9	03/01/89	334.57	8.48	326.09
	04/04/89		7.69	326.88
	05/01/89		8.20	326.37
	05/31/89		8.72	325.85
	06/28/89		9.00	325.57
	08/08/89		8.53	326.04
	09/07/89		8.99	325.58
	10/09/89		8.89	325.68
	10/23/89		9.02	325.55
	12/21/89		9.48	325.09
	01/18/90		8.73	325.84
	02/26/90		9.06	325.51
	06/04/90		8.64	325.93
	11/20/90		9.95	324.62
	02/11/91		9.85	324.72
	05/06/91		10.05	324.52
	08/28/91		10.34	324.23
	11/13/91		9.39	325.18
	02/25/92		7.18	327.39
	05/12/92		8.54	326.03
	08/12/92		8.97	325.60
	11/10/92		9.61	324.96
	02/10/93		7.20	327.37
	05/10/93		7.56	327.01
	08/12/93		8 25	326.32
	11/11/93		10 30	324.27
	02/11/94		8 88	325.69
	05/17/94		8 06	326.51
	08/25/94		8.79	325.78
MW-10	03/02/89	335 37	8.95	326.42
	04/04/89		7 89	327.48
	05/01/89		9 07	326 30
	06/01/89		8 86	326 51
	06/29/89		9 05	326 32

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-10 (cont.)	08/09/89		9.70	326.67
	09/07/89		8.14	327.23
	10/10/89		9.21	326.16
	10/26/89		9.60	325.77
	12/20/89		9.42	325.95
	06/90		----------Well Destroyed----------	
MW-11	03/02/89	334.20	8.30	325.90
	04/04/89		7.52	325.68
	05/01/89		7.97	326.23
	11/20/90		NM	NM
	05/31/90		8.13	326.07
	06/28/89		8.30	325.90
	08/08/89		8.22	325.98
	09/07/89		8.32	325.88
	10/09/89		8.28	325.92
	10/24/89		8.38	325.82
	12/20/89		8.48	325.72
	01/18/90		8.20	326.00
	02/26/90		7.86	326.34
	06/04/90		8.13	326.07
	11/20/90		8.83	325.37
	02/11/90		8.95	325.25
	05/06/91		7.71	326.49
	08/28/91		8.62	325.58
	11/15/91		8.99	325.21
	02/25/92		7.21	326.99
	05/12/92		8.26	325.94
	08/12/92		8.75	325.45
	11/10/92		9.47	324.73
	02/10/93		6.79	327.41
	05/10/93		7.18	327.02
	08/12/93		8.10	326.10
	11/11/93		8 56	325 64
	02/11/94		8 21	325 99
	05/17/94		7 61	326.59
	08/25/95		8 68	325 52
MW-12	03/02/89	332.53	6.94	325 59
	04/04/89		6.33	326 20
	05/01/89		6 62	325 91
	06/01/89		6.82	325 71
	06/29/89		7 00	325 53
	08/09/89		6.76	325 77
	09/07/89		6.81	325 72
	10/09/89		7 11	325 42

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-12 (cont.)	10/24/89		7.60	324.93
	12/20/89		8.25	324.28
	01/18/90		8.23	324.30
	02/26/90		7.54	324.99
	06/04/90		7.96	324.57
	11/20/90		8.80	323.73
	02/12/90		7.85	324.68
	05/06/91		7.35	325.18
	08/28/91		7.79	324.74
	11/13/91		7.89	324.64
	02/25/92		6.14	326.39
	05/12/92		7.54	324.99
	08/12/92		9.83	322.70
	11/10/92		8.32	324.21
	02/10/93		6.75	325.78
	05/10/93		----- Well Inaccessible ----	
	08/12/93		6.23	326.30
	11/11/93		7.43	325.10
	02/11/94		7.18	325.35
	05/17/94		6.80	325.73
	08/25/94		7.24	325.29
MW-13	05/06/91	335.64	8.37	327.27
	08/28/91		9.82	325.82
	11/13/91		10.19	325.45
	02/25/92		7.66	327.98
	05/12/92		9.16	326.48
	08/12/92		10.91	324.73
	11/10/92		10.69	324.95
	02/10/93		7.49	328.15
	05/10/93		8.06	327.58
	08/12/93		8.73	326.91
	11/11/93		9.15	326.49
	02/11/94		9.12	326.52
	05/17/94		8.62	327.02
	08/25/94		9 32	326.32
RW-1	12/09/89	336.19	10.73	325.46
	01/13/89		NM	NM
	02/10/89		10 91	325 28
	03/02/89		10 15	325.04
	04/05/89		9 34	326.85
	05/01/89		9.85	326 34
	06/01/89		9 96	326 23
	06/30/89		9.90	326 29
	08/09/89		9.80	326 39

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
RW-1 (cont.)	09/11/89		10.02	326.17
	10/10/89		9.88	326.31
	10/25/89		9.80	326.39
	12/21/89		10.25	325.94
	01/17/89		9.80	326.39
	02/23/90		9.60	326.59
	06/04/90		9.97	326.22
	11/20/90		10.50	325.69
	02/11/91		10.87	325.32
	02/25/92		----- Well Not Gauged -----	
	05/12/92		NM	NM
	08/12/92		NM	NM
	11/10/92		NM	NM
	05/10/93		9.26	326.93
	08/12/93		NM	NM
	11/11/93		NM	NM
	02/11/94		9.98	326.21
	05/17/94		9.29	326.90
	08/25/94		10.56	325.63

MSL = Mean sea level
TOC = Top of casing
NM = Not measured

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

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-1	05/09/88	440	120	50	NR	120
	08/26/88	200,000	4,400	260	300	450
	10/05/88	17,000	6,700	360	210	730
	11/22/88	8,000	3,900	830	250	340
	12/09/88	11,000	790	36	7.3	68
	01/13/89	8,800	3,800	110	330	90
	02/10/89	18,000	4,700	400	660	190
	03/02/89	14,000	6,100	770	320	440
	04/04/89	11,000	4,800	770	270	780
	05/01/89	11,000	2,800	880	410	780
	06/01/89	ND	ND	ND	ND	ND
	06/29/89	4,700	310	160	75	260
	08/09/89	12,000	1,300	620	830	680
	09/11/89	ND	ND	ND	ND	2.2
	10/10/89	8,700	1,100	310	180	590
	10/25/89	7,500	660	250	460	480
	12/20/89	6,200	270	110	260	220
	01/17/90	7,400	200	170	160	260
	02/23/90	1,500	130	13	30	24
	06/04/90	830	88	10	2.6	28
	11/20/90	NA	NA	NA	NA	NA
	02/12/91	1,500	180	39	82	110
	05/06/91	510	41	11	25	35
	08/28/91	450	41	16	24	34
	11/13/91	320	41	14	23	33
	02/25/92	240	24	9.2	14	20
	05/12/92	320	60	25	29	41
	08/12/92	230	26	16	20	25
	08/12/92(D)	220	25	16	19	24
	11/10/92	120	13	8.8	9	13
	02/10/93	80	3.3	2.9	2.4	5.1
	05/10/93	100	8.5	5 5	5 2	10
	08/12/93	130	10	11	8 3	32
	11/11/93	ND	ND	ND	ND	ND
	02/11/94	110[b]	12	4 6	6.4	13
	05/17/94	ND	0 53	ND	ND	0.71
	08/25/94	ND	ND	ND	ND	ND
MW-2	05/09/88	ND	ND	ND	NR	ND
	08/26/88	1,700	230	16	87	120
	10/05/88	200	20	2 3	8 3	12
	11/22/88	800	93	1.6	4 3	60
	12/09/88	270	45	3 6	7 2	14
	01/13/89	180	26	2 3	17	7

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

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-2 (cont.)	02/10/89	320	43	1.7	34	15
	03/02/89	230	24	0.9	9.2	18
	04/04/89	230	53	2.3	7.1	20
	05/01/89	ND	2.7	ND	ND	ND
	05/31/89	120	14	ND	3.9	7.6
	06/28/89	ND	4.1	ND	ND	ND
	08/08/89	88	3.9	ND	ND	ND
	09/08/89	ND	3.2	ND	ND	ND
	10/09/89	110	6.7	ND	ND	ND
	10/24/89	ND	2.5	ND	ND	1.9
	12/21/89	ND	7.1	ND	5	9.8
	01/17/90	ND	4.4	ND	1.6	1.4
	02/23/90	70	6.3	ND	2.7	2.5
	06/04/90	60	2.4	ND	0.8	ND
	11/20/90	60	5.6	ND	ND	ND
	02/12/91	130	14	ND	0.9	0.5
	05/06/91	60	1.5	ND	5	ND
	08/28/91	100	6.3	ND	1	1.1
	11/13/91	ND	11	ND	1.3	ND
	02/25/92	ND	3.8	ND	ND	ND
	05/12/92	ND	6.0	ND	ND	ND
	08/12/92	110	6.8	ND	1.0	ND
	11/10/92	56	4.5	ND	ND	ND
	02/10/93	81	4.8	0.6	1.4	1.9
	05/10/93	90	0.8	0.8	0.6	3.2
	08/12/93	420	61	18	21	53
	11/11/93	ND	ND	ND	ND	ND
	02/11/94	ND	0.64	ND	ND	ND
	05/17/94	ND	3.0	ND	ND	0.51
	08/25/94	ND	17	ND	ND	ND
MW-3	05/09/88	76	10	4.4	NR	15
	08/26/88	5,200	170	6	32	54
	10/05/88	260	100	2.7	5.8	7
	11/22/88	180	75	1.4	8.1	4
	12/09/88	160	5	5 9	ND	ND
	01/13/89	160	36	1 2	3	2
	02/10/89	300	83	ND	8 6	8
	03/02/89	570	160	1	17	9
	04/04/89	150	64	0 8	2 7	6
	05/01/89	130	48	1 2	3.4	2
	06/01/89	ND	ND	ND	ND	ND
	06/28/89	90	68	0 7	ND	5 1
	08/09/89	150	23	5 3	2 6	ND

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compound)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-3 (cont.)	09/11/89	ND	ND	ND	ND	ND
	10/10/89	80	6.4	0.72	ND	ND
	10/26/89	150	11	ND	1.6	ND
	12/21/89	ND	6.8	ND	ND	ND
	01/17/90	ND	4	ND	6.8	ND
	02/23/90	50	10	ND	1.2	0.9
	06/04/90	80	10	ND	1.4	ND
	11/20/90	100	26	0.7	1.2	1.9
	02/12/91	130	27	ND	ND	ND
	05/06/91	120	31	0.8	2.1	0.8
	08/28/91	340	87	1.1	6.5	3.8
	11/13/91	240	140	ND	3.1	0.9
	02/25/92	80	17	ND	ND	ND
	05/12/92	74	31	ND	2.6	ND
	08/12/92	160	24	0.5	2.9	ND
	11/10/92	130	27	ND	1.1	0.9
	11/10/92(D)	110	2.6	ND	1.1	0.7
	02/10/93	92	5.7	ND	ND	ND
	02/10/93(D)	80	5.2	ND	ND	ND
	05/10/93	250	100	ND	ND	ND
	05/10/93(D)	200	80	ND	2.4	ND
	08/12/93	380	110	16	13	43
	11/11/93	170	35	8.0	29	9.2
	02/11/94	76[c]	23	ND	ND	ND
	05/17/94	84[d]	26	ND	2.2	ND
	08/25/94	ND	7.7	ND	0.6	ND
	08/25/94(D)	ND	14	ND	1.5	ND
MW-4	05/09/88	290	76	33	NA	150
	08/26/88	210	640	41	110	160
	10/05/88	450	110	6.3	16	20
	11/22/88	500	110	4	20	27
	12/09/88	260	920	7.5	5.9	11
	01/13/89	990	200	6 5	46	14
	02/10/89	290	90	3 6	8 8	9
	03/02/89	630	210	6 2	34	7
	04/04/89	640	340	13	25	40
	05/01/89	100	65	2	3	4
	05/31/89	60	ND	ND	ND	ND
	06/28/89	110	62	1 3	ND	4.8
	08/09/89	160	110	2	6 4	ND
	09/08/89	94	45	0 5	3 8	ND

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

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-4	10/10/89	90	30	1	1.9	ND
(cont.)	10/26/89	ND	3.4	ND	ND	ND
	12/21/89	ND	35	1.1	3.6	1.6
	01/17/90	ND	4	ND	6.8	ND
	02/23/90	ND	8	ND	1.1	0.7
	06/04/90	160	85	1.1	1.9	ND
	11/20/90	140	52	1	0.8	0.9
	02/12/91	130	48	ND	1.5	ND
	05/06/91	140	49	1.3	4.1	1.7
	08/28/91	90	13	ND	1	1.1
	11/13/91	ND	10	ND	ND	ND
	02/25/92	120	47	ND	0.5	0.5
	05/12/92	---------- Well Sampled Semiannually ----------				
	08/12/92	ND	3.5	ND	ND	ND
	11/10/92	---------- Well Sampled Semiannually ----------				
	02/11/93	190	59	3.2	3.6	3.1
	05/10/93	---------- Well Sampled Semiannually ----------				
	08/12/93	50	4.1	1.1	1.3	3.2
	11/11/93	---------- Well Sampled Semiannually ----------				
	02/11/93	ND	0.62	ND	ND	ND
	05/17/94	---------- Well Sampled Semiannually ----------				
	08/25/94	ND	ND	ND	ND	ND
MW-5	08/26/88	210	6	44	9	19
	10/05/88	7,500	2,700	ND	110	590
	11/22/88	150	21	26	3	2
	12/09/88	240	37	2.2	6.7	7.7
	01/13/89	80	1.6	ND	7.7	2
	02/10/89	60	ND	ND	ND	ND
	03/02/89	ND	ND	ND	ND	ND
	04/05/89	ND	ND	ND	ND	ND
	05/01/89	ND	1.3	ND	ND	ND
	06/01/89	ND	ND	ND	ND	ND
	06/29/89	ND	ND	ND	ND	ND
	08/09/89	89	8 5	1 8	1 5	2 2
	09/11/89	1 100	7 8	1 4	ND	6 3
	10/10/89	ND	ND	ND	ND	ND
	10/25/89	ND	1 4	ND	ND	1 6
	12/20/89	ND	ND	ND	ND	ND
	01/18/90	ND	ND	ND	ND	ND
	02/23/90	ND	ND	ND	0 6	ND
	06/04/90	ND	ND	ND	ND	ND
	11/20/90	ND	ND	ND	ND	1
	02/11/91	ND	ND	ND	ND	ND

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

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-5 (cont.)	05/06/91	ND	ND	ND	ND	ND
	08/28/91	ND	ND	ND	ND	1
	11/13/91	ND	ND	ND	ND	ND
	02/25/92	ND	ND	ND	ND	ND
	05/12/92	ND	ND	ND	ND	ND
	08/12/92	56	0.5	ND	ND	ND
	11/10/92	ND	ND	ND	ND	ND
	02/11/93	ND	ND	ND	ND	ND
	05/10/93	ND	1.5	ND	1.2	5.2
	09/16/93	ND	ND	ND	ND	ND
	11/11/93	ND	12	ND	1.2	ND
	02/11/94	ND	ND	ND	ND	ND
	05/17/94	ND	ND	ND	ND	ND
	08/25/94	ND	ND	ND	ND	ND
MW-6	08/26/88	15,000	390	390	670	1,700
	10/05/88	2,700	130	38	960	220
	11/22/88	NA	NA	NA	NA	NA
	12/09/88	540	62	3	26	5
	01/13/89	980	160	22	120	29
	02/10/89	1,900	290	24	93	48
	03/02/89	1,400	160	20	130	33
	04/04/89	1,200	220	27	74	69
	05/01/89	790	120	11	25	17
	06/01/89	1,200	49	49	69	30
	06/29/89	940	130	15	69	35
	08/09/89	1,400	280	39	170	64
	09/11/89	ND	ND	ND	ND	ND
	10/10/89	1,000	85	11	12	16
	10/24/89	1,500	67	20	50	39
	12/20/89	ND	4.9	5.1	ND	ND
	01/18/90	ND	67	12	48	18
	02/23/90	1	150	16	47	30
	06/04/90	190	ND	ND	ND	0 6
	11/20/90	730	120	12	39	21
	02/12/91	550	65	10	33	16
	05/06/91	550	72	11	38	23
	08/28/91	580	82	7.6	28	20
	11/13/91	430	60	7 6	20	12
	02/25/92	400	52	6 6	18	11
	05/12/92	950	260	36	12	49
	08/12/92	660	90	15	55	18
	11/10/92	350	23	3 7	15	6 8
	02/11/93	660	42	11	29	17

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

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-6 (cont.)	05/10/93	190	ND	ND	ND	ND
	08/12/93	360	39	15	23	38
	08/12/93(D)	330	43	16	23	40
	11/11/93	ND	ND	ND	ND	ND
	02/11/94	370[b]	32	7	19	9.3
	05/17/94	ND	42	13	33	22
	08/25/94	190	0.6	ND	ND	ND
MW-7	08/26/88	ND	0.8	ND	ND	ND
	10/05/88	ND	ND	ND	ND	ND
	11/22/88	700	41	9	1	20
	12/09/88	ND	ND	ND	ND	0.6
	01/13/89	ND	ND	ND	ND	ND
	02/10/89	ND	ND	ND	ND	ND
	03/02/89	ND	ND	ND	ND	ND
	04/05/89	ND	ND	ND	ND	ND
	05/01/89	ND	ND	ND	ND	ND
	05/31/89	ND	ND	ND	ND	ND
	06/28/89	ND	ND	ND	ND	ND
	08/09/89	ND	ND	ND	ND	ND
	09/07/89	ND	ND	ND	ND	ND
	10/10/89	ND	ND	ND	ND	ND
	10/24/89	ND	ND	ND	ND	ND
	12/20/89	ND	ND	ND	ND	ND
	01/18/90	ND	ND	ND	ND	ND
	02/23/90	ND	ND	ND	ND	ND
	06/04/90	ND	ND	ND	ND	ND
	11/20/90	ND	ND	ND	ND	ND
	02/11/91	ND	ND	ND	ND	ND
	05/06/91	ND	ND	ND	ND	ND
	08/28/91	ND	ND	ND	ND	ND
	11/13/91	ND	ND	ND	ND	ND
	02/25/92	ND	ND	ND	ND	ND
	05/12/92	---------- Well Sampled Semiannually ----------				
	08/12/92	52	0 8	0 9	ND	ND
	11/10/92	---------- Well Sampled Semiannually ----------				
	02/11/93	ND	ND	ND	ND	ND
	05/10/93	---------- Well Sampled Semiannually ----------				
	09/16/93	ND	ND	ND	ND	ND
	11/11/93	---------- Well Sampled Semiannually ----------				
	02/11/94	ND	ND	ND	ND	ND
	05/17/94	---------- Well Sampled Semiannually ----------				
	08/25/94	ND	ND	ND	ND	ND

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

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-8	03/01/89	ND	ND	ND	ND	ND
	04/04/89	ND	ND	ND	ND	ND
	05/01/89	ND	ND	ND	ND	ND
	05/31/89	ND	ND	ND	ND	ND
	06/28/89	ND	ND	ND	ND	ND
	08/08/89	ND	ND	ND	ND	ND
	09/07/89	ND	ND	ND	ND	ND
	10/10/89	ND	ND	ND	ND	ND
	10/26/89	ND	ND	ND	ND	ND
	12/21/89	ND	ND	ND	ND	ND
	01/18/90	ND	ND	ND	ND	ND
	02/26/90	ND	ND	ND	ND	ND
	06/04/90	ND	ND	ND	ND	ND
	11/20/90	ND	ND	ND	ND	ND
	02/11/91	ND	ND	ND	ND	ND
	05/06/91	ND	ND	ND	ND	ND
	08/28/91	ND	ND	ND	ND	ND
	11/13/91	ND	ND	ND	ND	ND
	02/25/92	ND	ND	ND	ND	ND
	05/12/92	---------- Well Sampled Semiannually ----------				
	08/12/92	ND	ND	ND	ND	ND
	11/10/92	---------- Well Sampled Semiannually ----------				
	02/10/93	ND	ND	ND	ND	ND
	05/10/93	---------- Well Sampled Semiannually ----------				
	09/16/93	ND	0.7	ND	ND	1.4
	11/11/93	---------- Well Sampled Semiannually ----------				
	02/11/94	ND	1.3	ND	0.71	2.5
	05/17/94	---------- Well Sampled Semiannually ----------				
	08/25/94	ND	ND	ND	ND	ND
MW-9	03/1/89	ND	ND	ND	ND	ND
	04/04/89	ND	ND	ND	ND	ND
	05/01/89	ND	ND	ND	ND	ND
	05/31/89	ND	ND	ND	ND	ND
	06/28/89	ND	ND	ND	ND	ND
	08/08/89	ND	ND	ND	ND	ND
	09/07/89	ND	ND	ND	ND	ND
	10/09/89	ND	ND	ND	ND	ND
	10/23/89	ND	ND	ND	ND	ND
	12/21/89	ND	ND	ND	ND	ND
	01/18/90	ND	ND	ND	ND	ND
	02/26/90	ND	ND	ND	ND	ND
	06/04/90	ND	ND	ND	ND	ND
	11/20/90	ND	ND	ND	ND	ND

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

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-9 (cont.)	02/11/91	ND	ND	ND	ND	ND
	05/06/91	ND	ND	ND	ND	ND
	08/28/91	ND	ND	ND	ND	ND
	11/13/91	ND	ND	ND	ND	ND
	02/25/92	ND	ND	ND	ND	ND
	05/12/92	---------- Well Sampled Semiannually ----------				
	08/12/92	ND	ND	ND	ND	ND
	11/10/92	---------- Well Sampled Semiannually ----------				
	02/10/93	ND	ND	ND	ND	ND
	05/10/93	---------- Well Sampled Semiannually ----------				
	09/16/93	ND	ND	ND	ND	ND
	11/11/93	---------- Well Sampled Semiannually ----------				
	02/11/94	ND	ND	ND	ND	ND
	05/17/94	---------- Well Sampled Semiannually ----------				
	08/25/94	ND	ND	ND	ND	ND
MW-10	03/02/89	1,000	140	36	ND	77
	04/04/89	3,300	760	240	46	630
	05/01/89	680	99	24	8.1	32
	06/01/89	1,400	120	39	ND	45
	06/29/89	1,300	51	1.4	6.1	91
	08/09/89	860	310	26	45	82
	09/07/89	390	55	2.9	4.0	18
	10/10/89	460	85	7.6	10	45
	10/26/89	270	20	1.4	3.5	9.3
	12/20/89	ND	5.7	ND	ND	ND
	01/18/90	NA	NA	NA	NA	NA
	06/90	---------- Well Destroyed ----------				
MW-11	03/02/89	ND	ND	ND	ND	ND
	04/04/89	ND	ND	ND	ND	ND
	05/01/89	ND	ND	ND	ND	ND
	11/20/90	ND	ND	ND	ND	ND
	05/31/89	ND	ND	ND	ND	ND
	06/28/89	ND	ND	ND	ND	ND
	08/08/89	ND	ND	ND	ND	ND
	09/07/89	ND	ND	ND	ND	ND
	10/09/89	ND	ND	ND	ND	ND
	10/24/89	ND	ND	ND	ND	ND
	12/20/89	ND	ND	ND	ND	ND
	01/18/90	ND	ND	ND	ND	ND
	02/26/90	ND	ND	ND	ND	ND
	06/04/90	ND	ND	ND	ND	ND
	11/20/90	ND	ND	ND	ND	ND

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

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

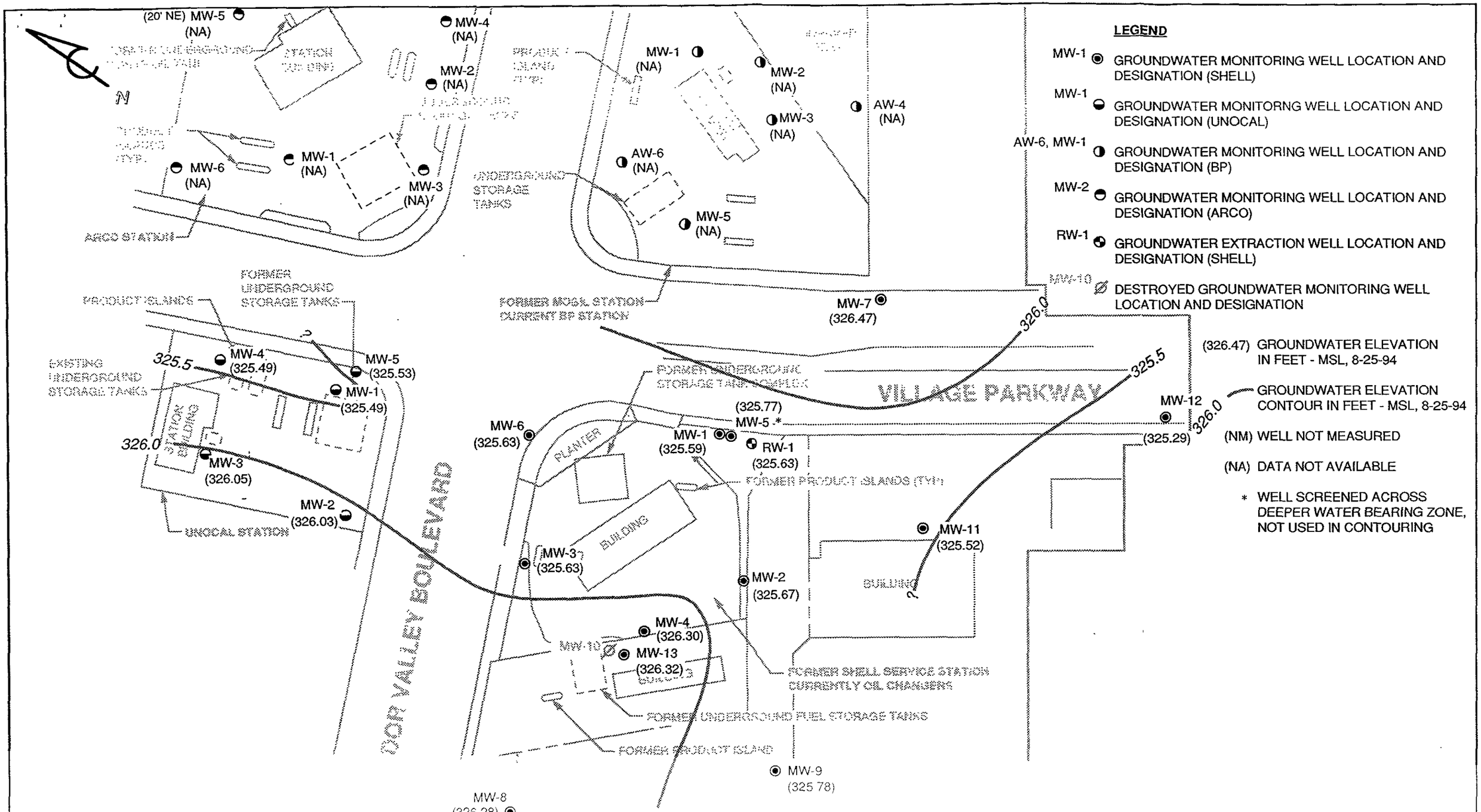
Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-11 (cont.)	02/11/91	ND	ND	ND	ND	ND
	05/06/91	ND	ND	ND	ND	ND
	08/28/91	ND	ND	ND	ND	1
	11/15/91	ND	ND	ND	ND	ND
	02/25/92	ND	ND	ND	ND	ND
	05/12/92	---------- Well Sampled Semiannually ----------				
	08/12/92	ND	ND	ND	ND	ND
	11/10/92	---------- Well Sampled Semiannually ----------				
	02/11/93	61[a]	ND	ND	ND	ND
	05/10/93	---------- Well Sampled Semiannually ----------				
	08/12/93	140	18	13	7.5	32
	11/11/93	---------- Well Sampled Semiannually ----------				
	02/11/94	ND	ND	ND	ND	ND
	05/17/94	---------- Well Sampled Semiannually ----------				
	08/25/94	ND	ND	ND	ND	ND
MW-12	03/02/89	ND	ND	ND	ND	ND
	04/04/89	ND	ND	ND	ND	ND
	05/01/89	ND	ND	ND	ND	ND
	06/01/89	ND	ND	ND	ND	ND
	06/29/89	ND	ND	ND	ND	ND
	08/09/89	ND	ND	ND	ND	ND
	09/07/89	ND	ND	ND	ND	ND
	10/09/89	ND	ND	ND	ND	ND
	10/24/89	ND	ND	ND	ND	ND
	12/20/89	ND	ND	ND	ND	ND
	01/18/90	ND	ND	ND	ND	ND
	02/26/90	ND	ND	ND	ND	ND
	06/04/90	ND	ND	ND	ND	ND
	11/20/90	ND	ND	ND	ND	ND
	02/12/91	ND	ND	ND	ND	ND
	05/06/91	ND	ND	ND	ND	ND
	08/28/91	ND	ND	ND	ND	1
	11/13/91	ND	ND	ND	ND	ND
	02/25/92	ND	ND	ND	ND	ND
	05/12/92	---------- Well Removed from Sampling Program ----------				
MW-13	05/06/91	1,100	430	30	41	130
	08/28/91	1,000	350	64	44	43
	11/13/91	680	320	56	38	17
	02/25/92	780	260	3.5	26	15
	05/12/92	660	210	35	26	58
	08/12/92	400	140	96	21	23
	11/10/92	60	220	29	23	11

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

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-13 (cont.)	02/11/93	970	340	11	29	32
	05/10/93	2,300	440	ND	ND	ND
	08/12/93	8,900	670	23	76	61
	11/11/93	470	230	<2.5	27	11
	11/11/93(D)	610	190	<2.5	21	8.0
	02/11/94	200[b]	39	ND	4.7	3.9
	02/11/94(D)	290[b]	55	1.3	8.8	4.8
	05/17/94	ND	88	ND	12	10
	05/17/94(D)	ND	96	ND	13	11
	08/25/94	410	110	4.2	10	15
RW-1	12/09/89	6,800	740	5	11	37
	01/13/89	10,000	3,200	27	60	ND
	02/10/89	6,000	2,800	ND	ND	ND
	03/02/89	3,900	2,400	ND	ND	ND
	04/05/89	1,700	1,000	ND	9	ND
	05/01/89	900	390	5	10	ND
	06/01/89	1,100	1.4	3.3	ND	13
	06/30/89	1,400	ND	ND	ND	ND
	08/09/89	7,500	1,700	210	280	300
	09/11/89	97	1.7	2.1	2.3	14
	10/10/89	1,400	48	4.5	ND	3
	10/25/89	820	51	1.2	25	3
	12/21/89	490	16	1	8.5	19
	01/17/90	ND	27	1.7	14	1.6
	02/23/90	420	42	1.8	13	2.7
	06/04/90	180	23	0.7	5.3	1.2
	11/20/90	1,900	170	52	29	38
	02/11/91	---------- Well Not Sampled ----------				

ppb = Parts per billion
NR = Not requested
ND = Not detected
NA = Not analyzed
(D) = Duplicate sample
a. *Laboratory noted concentration is not indicative of gasoline*
b. Laboratory noted result to be in the C_4-C_{12} range.
c Laboratory noted results to be in the C_6 range.
d *See certified analytical results for hydrocarbon range*
See certified analytical results for detection limits.



PACIFIC ENVIRONMENTAL GROUP, INC.

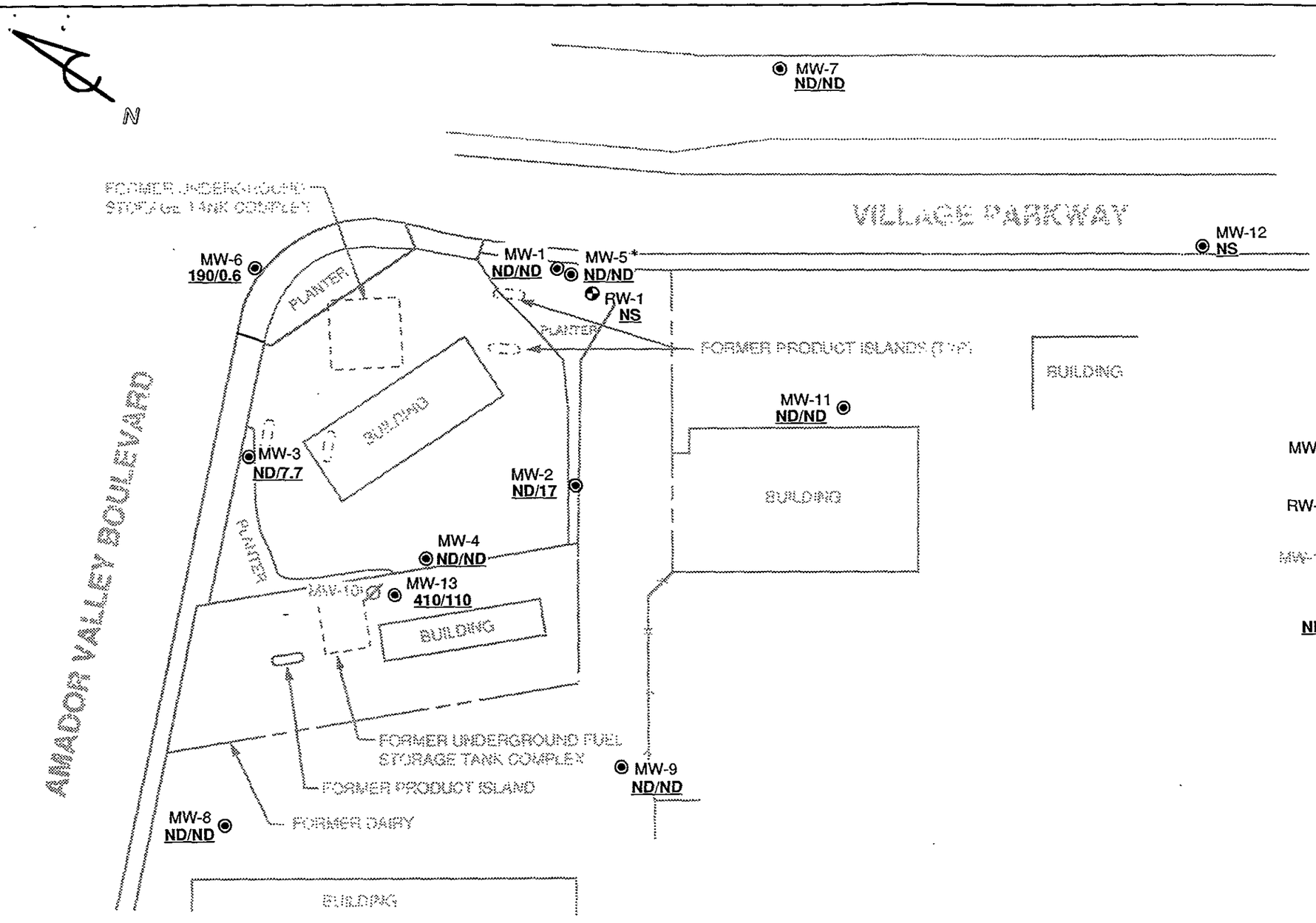
SCALE
0 60 120 FEET

FORMER SHELL SERVICE STATION
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

GROUNDWATER ELEVATION CONTOUR MAP

FIGURE: 1
PROJECT: 305-087 2B

10/05/94



LEGEND

MW-1 ◉ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

RW-1 ◓ GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION

MW-10 ⌀ DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

ND/17 TPH-g/BENZENE CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 8-25-94

ND NOT DETECTED

NS NOT SAMPLED

* WELL SCREENED ACROSS DEEPER WATER BEARING ZONE NOT USED IN CONTOURING

PACIFIC ENVIRONMENTAL GROUP, INC.

SCALE
0 50 100 FEET

FORMER SHELL SERVICE STATION
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

TPH-g/BENZENE CONCENTRATION MAP

FIGURE 2

PROJECT 305-087 2B

10/17/94

ATTACHMENT A

GROUNDWATER SAMPLING REPORT

BLAINE
TECH SERVICES INC.

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

September 2,, 1994

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

Attn: Daniel T. Kirk

SITE:
Shell WIC #204-2217-0105
7194 Amador Valley Blvd.
Dublin, California

QUARTER:
3rd quarter of 1994

QUARTERLY GROUNDWATER SAMPLING REPORT 940825-F-1

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 sites 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	8/25/94	TOC	--	NONE	--	--	9.24	25.08
MW-2	8/25/94	TOC	--	NONE	--	--	11.29	24.47
MW-3 *	8/25/94	TOC	--	NONE	--	--	11.30	24.15
MW-4	8/25/94	TOC	--	NONE	--	--	10.84	24.66
MW-5	8/25/94	TOC	--	NONE	--	--	9.19	44.60
MW-6	8/25/94	TOC	ODOR	NONE	--	--	9.79	22.81
MW-7	8/25/94	TOC	--	NONE	--	--	6.76	16.40
MW-8	8/25/94	TOC	--	NONE	--	--	9.52	16.05
MW-9	8/25/94	TOC	--	NONE	--	--	8.79	17.79
MW-11	8/25/94	TOC	--	NONE	--	--	8.68	16.31
MW-12	8/25/94	TOC	--	NONE	--	--	7.24	17.06
MW-13	8/25/94	TOC	ODOR	NONE	--	--	9.32	16.99
RW-1	8/25/94	TOC	--	NONE	--	--	10.56	30.90

* Sample DUP was a duplicate sample taken from well MW-3.

2173

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 940825F1

Date:
Page 1 of 2

Site Address: 7194 Amador Valley Blvd. Dublin

WIC#: 204-2217-0105

Shell Engineer: Dan Kirk — Phone No.: (510) 675-6168 Fax #: 675-6160

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:

Printed Name: Tom Flory

LAB: NET

Sample ID	Time	Date	Sludge	Soil	Water	Air	No. of conts.
MW-1	1120	8/25/94			X		3
MW-2	952						
MW-3	1331						
MW-4	1040						
MW-5	1023						
MW-6	1230						
MW-7	1205						
MW-8	1102						

Analysis Required

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	Preservation Used	Composite Y/N
					X				40 ml VOA	HCl	
					X						
					X						
					X						
					X						
					X						
					X						
					X						

CHECK ONE (1) BOX ONLY		C1/D1	TURN AROUND TIME
Quarterly Monitoring	X	6441	24 hours ☐
Site Investigation	☐	6441	48 hours ☐
Soil Closure/Disposal	☐	6442	72 hours X (Normal)
Water Closure/Disposal	☐	6443	Other ☐
Soil/Air Rem. or Sys. O & M	☐	6442	NOTE: Notify lab as soon as possible of 24/48 hr. TAT.
Water Rem. or Sys. O & M	☐	6443	
Other	☐		

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS

CUSTODY SEAL 8/25/94 — intact

Relinquished By (signature)	Printed Name	Date	Time	Received (signature)	Printed Name	Date	Time
	Tom Flory	8/25	17:10		GP Lumbre	8/25	17:10
	GP Lumbre	8/25	18:30				
(VIA NCS)					K Temple	8/26/94	0800

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

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 940825F1

Date:
Page 2 of 2

Site Address: 7194 Amador Valley Blvd. Dublin

WIC#: 204-2217-0105

Shell Engineer: Dan Kirk — Phone No.: (510) 675-6168, Fax #: 675-6160

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: Tom Flory

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 / Time	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 40 ml VOA	Preparation Used HCl	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-9 1250	8/25/94			X		3						X					↓	↓			
MW-11 1144	↓			↓		↓						X					↓	↓			
MW-13 924	↓			↓		↓						X					↓	↓			CUSTODY SEALED 8/25/94 [signature] seal intact
Dup —	↓			↓		↓						X					↓	↓			
EB - 958	↓			↓		↓						X					↓	↓			
TB - LAB	↓			↓		2						X					↓	↓			

Relinquished By (signature)	Printed Name	Date / Time	Received (signature)	Printed Name	Date / Time
[signature]	Tom Flory	Date: 8/25 Time: 17:10	[signature]	G. Lumbre	Date: 8/25 Time: 17:10
[signature]	G. Lumbre	Date: 8/25 Time: 18:30			Date: Time:
(via NCS)		Date: Time:	[signature]	K. Temple	Date: 8/26/94 Time: 0800

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

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: 09/06/1994
NET Client Acct. No: 1821
NET Pacific Job No: 94.03827
Received: 08/26/1994

Client Reference Information

SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

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:

Judy Ridley
Project Coordinator

Jim Hoch
Operations Manager

Enclosure(s)

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

SAMPLE DESCRIPTION: MW-1
Date Taken: 08/25/1994
Time Taken: 11:20
NET Sample No: 212994

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/01/1994
DILUTION FACTOR*	1						09/01/1994
as Gasoline	ND		50	ug/L	5030		09/01/1994
Carbon Range:	--						09/01/1994
METHOD 8020 (GC,Liquid)	--						09/01/1994
Benzene	ND		0.5	ug/L	8020		09/01/1994
Toluene	ND		0.5	ug/L	8020		09/01/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/01/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/01/1994
SURROGATE RESULTS	--						09/01/1994
Bromofluorobenzene (SURR)	93			% Rec.	5030		09/01/1994

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

SAMPLE DESCRIPTION: MW-2
Date Taken: 08/25/1994
Time Taken: 09:52
NET Sample No: 212995

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/01/1994
DILUTION FACTOR*	1						09/01/1994
as Gasoline	ND		50	ug/L	5030		09/01/1994
Carbon Range:	--						09/01/1994
METHOD 8020 (GC,Liquid)	--						09/01/1994
Benzene	17	C	0.5	ug/L	8020		09/01/1994
Toluene	ND		0.5	ug/L	8020		09/01/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/01/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/01/1994
SURROGATE RESULTS	--						09/01/1994
Bromofluorobenzene (SURR)	97			% Rec.	5030		09/01/1994

C Positive result confirmed by secondary column or GC/MS analysis

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

SAMPLE DESCRIPTION: MW-3
Date Taken: 08/25/1994
Time Taken: 13:31
NET Sample No: 212996

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/01/1994
DILUTION FACTOR*	1						09/01/1994
as Gasoline	ND		50	ug/L	5030		09/01/1994
Carbon Range:	--						09/01/1994
METHOD 8020 (GC,Liquid)	--						09/01/1994
Benzene	7.7	C	0.5	ug/L	8020		09/01/1994
Toluene	ND		0.5	ug/L	8020		09/01/1994
Ethylbenzene	0.6	C	0.5	ug/L	8020		09/01/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/01/1994
SURROGATE RESULTS	--						09/01/1994
Bromofluorobenzene (SURR)	96			% Rec.	5030		09/01/1994

C Positive result confirmed by secondary column or GC/MS analysis

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

SAMPLE DESCRIPTION: MW-4
Date Taken: 08/25/1994
Time Taken: 10:40
NET Sample No: 212997

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/01/1994
DILUTION FACTOR*	1						09/01/1994
as Gasoline	ND		50	ug/L	5030		09/01/1994
Carbon Range:	--						09/01/1994
METHOD 8020 (GC,Liquid)	--						09/01/1994
Benzene	ND		0.5	ug/L	8020		09/01/1994
Toluene	ND		0.5	ug/L	8020		09/01/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/01/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/01/1994
SURROGATE RESULTS	--						09/01/1994
Bromofluorobenzene (SURR)	96			% Rec.	5030		09/01/1994

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

SAMPLE DESCRIPTION: MW-5
Date Taken: 08/25/1994
Time Taken: 10:23
NET Sample No: 212998

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/01/1994
DILUTION FACTOR*	1						09/01/1994
as Gasoline	ND		50	ug/L	5030		09/01/1994
Carbon Range:	--						09/01/1994
METHOD 8020 (GC,Liquid)	--						09/01/1994
Benzene	ND		0.5	ug/L	8020		09/01/1994
Toluene	ND		0.5	ug/L	8020		09/01/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/01/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/01/1994
SURROGATE RESULTS	--						09/01/1994
Bromofluorobenzene (SURR)	97			% Rec.	5030		09/01/1994

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

SAMPLE DESCRIPTION: MW-6
Date Taken: 08/25/1994
Time Taken: 12:30
NET Sample No: 212999

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/02/1994
DILUTION FACTOR*	1						09/02/1994
as Gasoline	190		50	ug/L	5030		09/02/1994
Carbon Range:	C5-C14						09/02/1994
METHOD 8020 (GC,Liquid)	--						09/02/1994
Benzene	0.6		0.5	ug/L	8020		09/02/1994
Toluene	ND		0.5	ug/L	8020		09/02/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/02/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/02/1994
SURROGATE RESULTS	--						09/02/1994
Bromofluorobenzene (SURR)	94			% Rec.	5030		09/02/1994

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

SAMPLE DESCRIPTION: MW-7
Date Taken: 08/25/1994
Time Taken: 12:05
NET Sample No: 213000

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/01/1994
DILUTION FACTOR*	1						09/01/1994
as Gasoline	ND		50	ug/L	5030		09/01/1994
Carbon Range:	--						09/01/1994
METHOD 8020 (GC,Liquid)	--						09/01/1994
Benzene	ND		0.5	ug/L	8020		09/01/1994
Toluene	ND		0.5	ug/L	8020		09/01/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/01/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/01/1994
SURROGATE RESULTS	--						09/01/1994
Bromofluorobenzene (SURR)	98			% Rec.	5030		09/01/1994

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

SAMPLE DESCRIPTION: MW-8
Date Taken: 08/25/1994
Time Taken: 11:02
NET Sample No: 213001

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/01/1994
DILUTION FACTOR*	1						09/01/1994
as Gasoline	ND		50	ug/L	5030		09/01/1994
Carbon Range:	--						09/01/1994
METHOD 8020 (GC,Liquid)	--						09/01/1994
Benzene	ND		0.5	ug/L	8020		09/01/1994
Toluene	ND		0.5	ug/L	8020		09/01/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/01/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/01/1994
SURROGATE RESULTS	--						09/01/1994
Bromofluorobenzene (SURR)	90			% Rec.	5030		09/01/1994

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

SAMPLE DESCRIPTION: MW-9
Date Taken: 08/25/1994
Time Taken: 12:50
NET Sample No: 213002

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/01/1994
DILUTION FACTOR*	1						09/01/1994
as Gasoline	ND		50	ug/L	5030		09/01/1994
Carbon Range:	--						09/01/1994
METHOD 8020 (GC,Liquid)	--						09/01/1994
Benzene	ND		0.5	ug/L	8020		09/01/1994
Toluene	ND		0.5	ug/L	8020		09/01/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/01/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/01/1994
SURROGATE RESULTS	--						09/01/1994
Bromofluorobenzene (SURR)	92			% Rec.	5030		09/01/1994

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

SAMPLE DESCRIPTION: MW-11
Date Taken: 08/25/1994
Time Taken: 11:44
NET Sample No: 213003

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/01/1994
DILUTION FACTOR*	1						09/01/1994
as Gasoline	ND		50	ug/L	5030		09/01/1994
Carbon Range:	--						09/01/1994
METHOD 8020 (GC,Liquid)	--						09/01/1994
Benzene	ND		0.5	ug/L	8020		09/01/1994
Toluene	ND		0.5	ug/L	8020		09/01/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/01/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/01/1994
SURROGATE RESULTS	--						09/01/1994
Bromofluorobenzene (SURR)	90			% Rec.	5030		09/01/1994

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

SAMPLE DESCRIPTION: MW-13
Date Taken: 08/25/1994
Time Taken: 09:24
NET Sample No: 213004

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/04/1994
DILUTION FACTOR*	1						09/02/1994
as Gasoline	410		50	ug/L	5030		09/02/1994
Carbon Range:	C5-C14						09/02/1994
METHOD 8020 (GC,Liquid)	--						09/02/1994
Benzene	110	FC	0.5	ug/L	8020		09/04/1994
Toluene	4.2		0.5	ug/L	8020		09/02/1994
Ethylbenzene	10		0.5	ug/L	8020		09/02/1994
Xylenes (Total)	15		0.5	ug/L	8020		09/02/1994
SURROGATE RESULTS	--						09/02/1994
Bromofluorobenzene (SURR)	95			% Rec.	5030		09/02/1994

FC Compound quantitated at a 10X dilution factor

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

SAMPLE DESCRIPTION: DUP
Date Taken: 08/25/1994
Time Taken:
NET Sample No: 213005

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/01/1994
DILUTION FACTOR*	1						09/01/1994
as Gasoline	ND		50	ug/L	5030		09/01/1994
Carbon Range:	--						09/01/1994
METHOD 8020 (GC,Liquid)	--						09/01/1994
Benzene	14	C	0.5	ug/L	8020		09/01/1994
Toluene	ND		0.5	ug/L	8020		09/01/1994
Ethylbenzene	1.5	C	0.5	ug/L	8020		09/01/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/01/1994
SURROGATE RESULTS	--						09/01/1994
Bromofluorobenzene (SURR)	90			% Rec.	5030		09/01/1994

C Positive result confirmed by secondary column or GC/MS analysis

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

SAMPLE DESCRIPTION: EB
Date Taken: 08/25/1994
Time Taken: 09:58
NET Sample No: 213006

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/01/1994
DILUTION FACTOR*	1						09/01/1994
as Gasoline	ND		50	ug/L	5030		09/01/1994
Carbon Range:	--						09/01/1994
METHOD 8020 (GC,Liquid)	--						09/01/1994
Benzene	ND		0.5	ug/L	8020		09/01/1994
Toluene	ND		0.5	ug/L	8020		09/01/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/01/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/01/1994
SURROGATE RESULTS	--						09/01/1994
Bromofluorobenzene (SURR)	77			% Rec.	5030		09/01/1994

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 94.03827

Date: 09/06/1994
ELAP Cert: 1386
Page: 15

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

SAMPLE DESCRIPTION: TB
Date Taken: 08/25/1994
Time Taken:
NET Sample No: 213007

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/01/1994
DILUTION FACTOR*	1						09/01/1994
as Gasoline	ND		50	ug/L	5030		09/01/1994
Carbon Range:	--						09/01/1994
METHOD 8020 (GC,Liquid)	--						09/01/1994
Benzene	ND		0.5	ug/L	8020		09/01/1994
Toluene	ND		0.5	ug/L	8020		09/01/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/01/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/01/1994
SURROGATE RESULTS	--						09/01/1994
Bromofluorobenzene (SURR)	83			% Rec.	5030		09/01/1994

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials
TPH (Gas/BTXE,Liquid)						
as Gasoline	103.0	1.03	1.00	mg/L	09/01/1994	lss
Benzene	89.2	4.46	5.00	ug/L	09/01/1994	lss
Toluene	91.6	4.58	5.00	ug/L	09/01/1994	lss
Ethylbenzene	87.8	4.39	5.00	ug/L	09/01/1994	lss
Xylenes (Total)	87.3	13.1	15.0	ug/L	09/01/1994	lss
Bromofluorobenzene (SURR)	94.0	94	100	% Rec.	09/01/1994	lss
TPH (Gas/BTXE,Liquid)						
as Gasoline	106.0	1.06	1.00	mg/L	09/02/1994	aal
Benzene	92.8	4.64	5.00	ug/L	09/02/1994	aal
Toluene	90.6	4.53	5.00	ug/L	09/02/1994	aal
Ethylbenzene	92.8	4.64	5.00	ug/L	09/02/1994	aal
Xylenes (Total)	91.3	13.7	15.0	ug/L	09/02/1994	aal
Bromofluorobenzene (SURR)	94.0	94	100	% Rec.	09/02/1994	aal
TPH (Gas/BTXE,Liquid)						
as Gasoline	106.0	1.06	1.00	mg/L	09/04/1994	lss
Benzene	86.8	4.34	5.00	ug/L	09/04/1994	lss
Toluene	87.2	4.36	5.00	ug/L	09/04/1994	lss
Ethylbenzene	87.2	4.36	5.00	ug/L	09/04/1994	lss
Xylenes (Total)	86.0	12.9	15.0	ug/L	09/04/1994	lss
Bromofluorobenzene (SURR)	91.0	91	100	% Rec.	09/04/1994	lss

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials
TPH (Gas/BTXE,Liquid)					
as Gasoline	ND	0.05	mg/L	09/01/1994	lss
Benzene	ND	0.5	ug/L	09/01/1994	lss
Toluene	ND	0.5	ug/L	09/01/1994	lss
Ethylbenzene	ND	0.5	ug/L	09/01/1994	lss
Xylenes (Total)	ND	0.5	ug/L	09/01/1994	lss
Bromofluorobenzene (SURR)	96		% Rec.	09/01/1994	lss
TPH (Gas/BTXE,Liquid)					
as Gasoline	ND	0.05	mg/L	09/02/1994	aal
Benzene	ND	0.5	ug/L	09/02/1994	aal
Toluene	ND	0.5	ug/L	09/02/1994	aal
Ethylbenzene	ND	0.5	ug/L	09/02/1994	aal
Xylenes (Total)	ND	0.5	ug/L	09/02/1994	aal
Bromofluorobenzene (SURR)	94		% Rec.	09/02/1994	aal
TPH (Gas/BTXE,Liquid)					
as Gasoline	ND	0.05	mg/L	09/04/1994	lss
Benzene	ND	0.5	ug/L	09/04/1994	lss
Toluene	ND	0.5	ug/L	09/04/1994	lss
Ethylbenzene	ND	0.5	ug/L	09/04/1994	lss
Xylenes (Total)	ND	0.5	ug/L	09/04/1994	lss
Bromofluorobenzene (SURR)	99		% Rec.	09/04/1994	lss

Ref: SHELL, 7194 Amador Valley Blvd., Dublin, Job No. 940825-F1

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	Analyst Initials
TPH (Gas/BTXE,Liquid)										
as Gasoline	104.0	103.0	1.0	1.00	ND	1.04	1.03	mg/L	09/01/1994	lss
Benzene	99.7	97.6	2.1	33.5	ND	33.4	32.7	ug/L	09/01/1994	lss
Toluene	100.1	99.4	0.6	96.2	ND	96.3	95.6	ug/L	09/01/1994	lss
TPH (Gas/BTXE,Liquid)										
as Gasoline	99.0	101.0	1.9	1.00	ND	0.99	1.01	mg/L	09/02/1994	aal
Benzene	96.8	99.7	3.0	34.0	ND	32.9	33.9	ug/L	09/02/1994	aal
Toluene	94.6	95.6	1.1	100.0	ND	94.6	95.6	ug/L	09/02/1994	aal
TPH (Gas/BTXE,Liquid)										
as Gasoline	104.0	97.0	6.9	1.00	ND	1.04	0.97	mg/L	09/04/1994	lss
Benzene	95.2	89.5	6.2	35.1	ND	33.4	31.4	ug/L	09/04/1994	lss
Toluene	96.6	92.0	4.9	101	ND	97.6	92.9	ug/L	09/04/1994	lss

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. Actual reporting limits and results have been multiplied by the listed dilution factor. **Do not** multiply the reporting limits or reported values by the dilution factor.
dw	:	Result expressed as dry weight.
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 the 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., Rev. 1, December 1987.

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

Revised September, 1993
abb.93

COOLER RECEIPT FORM

Project: Shell 7194 Amador Valley Blvd Dublin 940825-F1 Log No: 2173
Cooler received on: 8/26/94 and checked on 8/26/94 by K. Temple
(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 0.6°C

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:
TB	2 of 2

*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 #: 940825F1	Wic # 204 2217 0105
Sampler: Tom	Date Sampled: 8-25-94
Well I.D.: MW-1	Well Diameter: (circle one) 2 3 4 6 ___
Total Well Depth: Before 25.08 After	Depth to Water: Before 9.24 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 = in3/gal

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

1 Case Volume	x	Specified Volumes	=	gallons
10.2	x	3	=	30.6

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:
1109	71.1	7.4	2200	28.3	10.0	
1113	70.4	7.0	3000	>200	20.0	
1117	69.2	6.9	2900	>200	30.5	

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: 31.0

Sampling Time: 1120

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

Analyzed for: TPH G-BTEX

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

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 940825F1	Wic # 204 2217 0105
Sampler: Tom	Date Sampled: 8-25-94
Well I.D.: MW-2	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 24.47 After	Depth to Water: Before 11.29 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC)	Grade Other --

Volume Conversion Factor (VCF):

(12 = (d²/4) × π)/231

Where
12 = in./feet
d = diameter (in.)
π = 3.1416
231 = in³/gal

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
8.5	x	3		25.5

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:
939	70.4	7.0	5,000	20.9	8.5	
944	70.5	6.9	5,400	36.1	17.0	
949	69.9	6.8	5,500	18.1	25.5	

Did Well Dewater? no If yes, gals. Gallons Actually Evacuated: 26.0

Sampling Time: 9:52

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

Analyzed for: TPHG - BTEX

Duplicate I.D.: Cleaning Blank I.D.: EB 9:58

Analyzed for: TPHG - BTEX

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 940825F1	Wic # 204 2212 0105
Sampler: Tom	Date Sampled: 8-25-94
Well I.D.: mw-3	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 24.15 After	Depth to Water: Before 11 30 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./feet

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

8.3	x	3	=	24.9
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:
1315	70.1	7.2	5,000	16.1	8.0	
1320	70.3	7.2	4,500	7.4	16.5	
1326	67.4	7.1	4600	29.0	25.0	

Did Well Dewater? no If yes, gals. Gallons Actually Evacuated: 25.0

Sampling Time: 1331

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

Analyzed for: TPHG - BTEX

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

Analyzed for: TPHG - BTEX

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 940825 F1	Wic # 204 2217 0105
Sampler: Tom	Date Sampled: 8-25-94
Well I.D.: mw-4	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 24.66 After	Depth to Water: Before 10.84 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 = in3/gal

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
9.0	x	3	=	27.0

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:
1031	71.4	7.1	4,000	6.5	9.0	
1035	69.5	7.1	4,100	8.0	18.0	
1038	70.3	7.1	4,400	12.9	27.0	

Did Well Dewater? no If yes, gals. Gallons Actually Evacuated: 27.0

Sampling Time: 1040

Sample I.D.: ~~TPHG-BTEX~~ mw-4 Laboratory: NET

Analyzed for: TPHG-BTEX

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

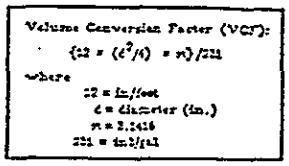
Analyzed for:

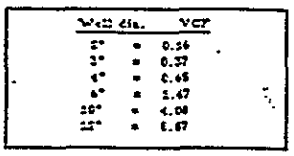
Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 940825F1	Wic # 204 2217 0105
Sampler: Tom	Date Sampled: 8-25-94
Well I.D.: MW-5	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 44.60 After	Depth to Water: Before 9.19 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other --





1 Case Volume	x	Specified Volumes	=	gallons
23.0	x	3	=	69.0

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:
1008	69.4	7.0	9200	7.6	23.0	
1014	70.2	7.0	3700	13.1	46.0	
1021	70.1	7.0	3600	19.4	69.0	

Did Well Dewater? no If yes, gals. Gallons Actually Evacuated: 69.0

Sampling Time: 1023

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

Analyzed for: TPHG-BTEX

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

Analyzed for:

Shipping Notations:

Additional Notations: (Slow Recharge)

SHELL WELL MONITORING DATA SHEET

Project #: 940825F1	Wic # 204 2212 0105
Sampler: Tom	Date Sampled: 8-25-94
Well I.D.: MW-6	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 22.81 After.	Depth to Water: Before 9.79 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/feet
d = diameter (in.)
π = 3.1416
231 = in3/gal

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

8.5	x	3	=	25.5
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:
1213	72.7	7.3	5300	>200	8.5	ODOR
1219	72.0	7.2	5300	8.1	17.0	″
1224	71.3	7.2	5300	10.4	25.5	″

Did Well Dewater? no If yes, gals. Gallons Actually Evacuated: 26.0

Sampling Time: 1230

Sample I.D.: MW-6 Laboratory: NET

Analyzed for: TPHG-BTEX

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

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 940825F1	Wic # 204 2219 0705
Sampler: Tom	Date Sampled: 8-25-94
Well I.D.: MW-7	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 16.40 After	Depth to Water: Before 6.76 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 = in³/gal

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

6.2	x	3	=	18.6
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:
1152	73.6	7.3	4800	>200	6.0	
1156	74.7	7.2	4200	29.3	12.0	
1201	73.5	7.4	4200	61.7	18.5	

Did Well Dewater? no If yes, gals. Gallons Actually Evacuated: 19.0

Sampling Time: 1205

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

Analyzed for: TPHG - BTEX

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

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 940825F1	Wic # 204 2217 0105
Sampler: Tom	Date Sampled: 8-25-94
Well I.D.: MW-8	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 16.05 After	Depth to Water: Before 9.52 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC)	Grade Other --

Volume Conversion Factor (VCF):
(12 × (d^2/4) × π)/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

4.2	x	3	=	12.6
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:
1051	73.8	7.0	5600	10.2	4.0	
1055	74.1	6.9	5800	21.0	8.0	
1059	74.3	6.7	6,000	24.8	12.5	

Did Well Dewater? no If yes, gals. Gallons Actually Evacuated: 13.0

Sampling Time: 1102

Sample I.D.: MW-8 Laboratory: NET

Analyzed for: TPHG-BTEX

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

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 940825F1	Wic # 204 2217 0105
Sampler: Tom	Date Sampled: 8-25-94
Well I.D.: MW-9	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 17.79 After	Depth to Water: Before 8.79 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other --

Volume Conversion Factor (VCF):
{12 x (d^2/4) x π}/231
Where
12 = in/feet
d = Diameter (in.)
π = 3.1416
231 = in3/gal

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

5.8	x	3	=	17.4
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:
1239	73.4	7.0	6200	17.0	5.5	
1243	73.1	7.0	6400	30.9	11.0	
1247	73.0	7.0	6500	18.4	17.5	

Did Well Dewater? no If yes, gals. Gallons Actually Evacuated: 18.0

Sampling Time: 1250

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

Analyzed for: TPHG-BTEX

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

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 940825F1	Wic # 204 2217 0105
Sampler: Tom	Date Sampled: 8-25-94
Well I.D.: MW-11	Well Diameter: (circle one) 2 3 4 6 ___
Total Well Depth: Before 16.31 After	Depth to Water: Before 8.68 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 = in³/gal

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

5.0 (1 Case Volume) x 3 (Specified Volumes) = 15 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:
1128	74.1	7.1	6,600	25.0	5.0	
1134	74.1	7.0	6,700	14.6	10.0	
1139	73.0	7.0	6,900	38.2	15.0	

Did Well Dewater? no If yes, gals. Gallons Actually Evacuated: 15.0

Sampling Time: 1144

Sample I.D.: MW-11 Laboratory: NET

Analyzed for: TPHG-BTEX

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

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 940825 F1	Wic # 204 2217 0105
Sampler: Tom	Date Sampled: 8-25-94
Well I.D.: MW-13	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 16.99 After	Depth to Water: Before 9.32 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other --

Volume Conversion Factor (VCF):

$(22 \times (d^2/4) \times \pi)/231$

where

22 = 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

5.0	x	3	=	15.0
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:
910	71.9	7.2	1800	11.4	5.0	ODOR
915	71.8	7.0	1800	23.1	10.0	
921	70.7	7.0	1800	46.6	15.0	↓

Did Well Dewater? no If yes, gals. Gallons Actually Evacuated: 15.0

Sampling Time: 924

Sample I.D.: MW-13 Laboratory: net

Analyzed for: TPHG-BTEX

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

Analyzed for:

Shipping Notations:

Additional Notations: