



PACIFIC
ENVIRONMENTAL
GROUP, INC.

See
10/9/92

01-17-01 10:05

October 6, 1992
Project 305-87.01

shd 2516

Mr. Paul Hayes
Shell Oil Company
P.O. Box 5278
Concord, California 94520

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

Dear Mr. Hayes:

This letter presents the results of the third quarter 1992 monitoring program for Shell Oil Company (Shell) prepared by Pacific Environmental Group, Inc. (PACIFIC) for the above referenced site (Figures 1 and 2).

FINDINGS

Groundwater monitoring wells were sampled and gauged by Emcon Associates (Emcon) at the direction of PACIFIC on August 12, 1992. Groundwater elevation contours for the sampling date are shown on Figure 2. Table 1 presents groundwater elevation data.

Groundwater analytical data are presented in Table 2. Total petroleum hydrocarbons calculated as gasoline (TPH-g) and benzene concentrations for the August 1992 sampling event are shown on Figure 3. Emcon's groundwater sampling report is presented in Attachment A. Field purging and sampling data is presented in Table 3.

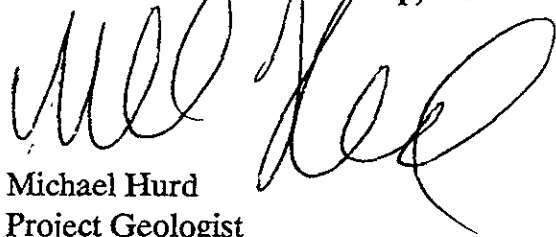
October 6, 1992

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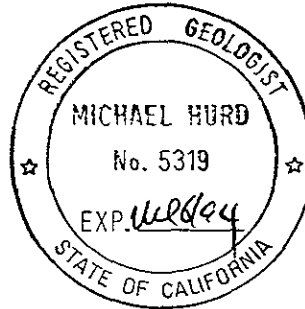
If you have any questions regarding the contents of this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.



Michael Hurd
Project Geologist
RG 5319



Attachments: Table 1 - Groundwater Elevation Data
Table 2 - Groundwater Analytical Data -
Total Petroleum Hydrocarbons
Table 3 - Field Purging and Sampling Data
Figure 1- Site Location Map
Figure 2- Groundwater Elevation Contour Map
Figure 3- TPH-g/Benzene Concentration Map
Attachment A - Groundwater Sampling Report

cc: Mr. Craig Mayfield, Alameda County Flood Control and
Water Conservation District
Mr. Eddy So, Regional Water Quality Control Board
~~Mr. Gil Wistar, Alameda County Health Care Services~~

Table 1
Groundwater Elevation Data

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

Well Number	Sample Date	Well Elevation (feet, MSL)	Depth to Water (feet)	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		
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
	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

Table 1 (continued)
Groundwater Elevation Data

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

Well Number	Sample Date	Well Elevation (feet, MSL)	Depth to Water (feet)	Groundwater Elevation (feet, MSL)
MW-2 (cont.)	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
	MW-3	05/09/88	336.96	10.59
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
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	

Table 1 (continued)
Groundwater Elevation Data

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

Well Number	Sample Date	Well Elevation (feet, MSL)	Depth to Water (feet)	Groundwater Elevation (feet, MSL)
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		
08/12/92	11.36	325.78		
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		

Table 1 (continued)
Groundwater Elevation Data

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

Well Number	Sample Date	Well Elevation (feet, MSL)	Depth to Water (feet)	Groundwater Elevation (feet, MSL)
MW-5 (cont.)	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
	MW-6	08/26/88	335.42	9.69
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	
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

Table 1 (continued)
Groundwater Elevation Data

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

Well Number	Sample Date	Well Elevation (feet, MSL)	Depth to Water (feet)	Groundwater Elevation (feet, MSL)
MW-7 (cont.)	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
	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	
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	Sample Date	Well Elevation (feet, MSL)	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	
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			
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	
	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
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		

Table 1 (continued)
Groundwater Elevation Data

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

Well Number	Sample Date	Well Elevation (feet, MSL)	Depth to Water (feet)	Groundwater Elevation (feet, MSL)
MW-11 (cont.)	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
	MW-12	03/02/89	332.53	6.94
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
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	
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

Table 1 (continued)
Groundwater Elevation Data

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

Well Number	Sample Date	Well Elevation (feet, MSL)	Depth to Water (feet)	Groundwater Elevation (feet, MSL)
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
	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		NM	NM
	05/12/92		NM	NM
08/12/92	NM	NM		
MSL = Mean sea level				
NM = Not measured				

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons

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

Well Number	Date Sampled	TPH-g (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	
08/12/92D	220	25	16	19	24	
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
	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

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons

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

Well Number	Date Sampled	TPH-g (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-2 (cont.)	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	
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
	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	

Table 2 (continued)
Groundwater Analytical Data
 Total Petroleum Hydrocarbons

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

Well Number	Date Sampled	TPH-g (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-3 (cont.)	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
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
	10/10/89	90	30	1	1.9	ND
	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	NS	NS	NS	NS	NS	
08/12/92	ND	3.5	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

Table 2 (continued)
Groundwater Analytical Data
 Total Petroleum Hydrocarbons

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

Well Number	Date Sampled	TPH-g (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
(MW-5) (cont.)	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
	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	
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	

Table 2 (continued)
Groundwater Analytical Data
 Total Petroleum Hydrocarbons

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

Well Number	Date Sampled	TPH-g (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-6	01/18/90	ND	67	12	48	18
(cont.)	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
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	NS	NS	NS	NS	NS
	08/12/92	52	0.8	0.9	ND	ND

Table 2 (continued)
Groundwater Analytical Data
 Total Petroleum Hydrocarbons

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

Well Number	Date Sampled	TPH-g (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	NS	NS	NS	NS	NS
08/12/92	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
	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	NS	NS	NS	NS	NS
08/12/92	ND	ND	ND	ND	ND	

Table 2 (continued)
Groundwater Analytical Data
 Total Petroleum Hydrocarbons

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

Well Number	Date Sampled	TPH-g (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	
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	
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	NS	NS	NS	NS	NS		
08/12/92	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	

Table 2 (continued)
Groundwater Analytical Data
 Total Petroleum Hydrocarbons

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

Well Number	Date Sampled	TPH-g (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-12 (cont.)	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	NS	NS	NS	NS	NS
08/12/92	NS	NS	NS	NS	NS	
MW-13	05/06/91	1,100	430	30	41	130
	08/28/91	1,000	350	6.4	44	43
	11/13/91	680	320	5.6	38	17
	02/25/92	780	260	3.5	26	15
	05/12/92	660	210	3.5	26	5.8
	08/12/92	400	140	9.6	21	23
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
	6/30/89	1,400	ND	ND	ND	ND
	08/09/89	7,500	1,700	210	280	300
	09/11/89	97	17	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

Table 3
Field Purging and Sampling Data

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

Sample Date: August 12, 1992

Depth of Well	Depth to Water (feet)	Depth to Liquid (feet)	pH	Temperature (°F)	Conductivity	Turbidity (NTU)	Purge Volumes (gallons)	Time of Purging	Time of Sampling
Well MW-1									
25.1	9.15	-	7.77	68.9	1384	Cloudy	10.5	13:54	14:10
			7.24	68.1	1408	Cloudy	21.0	14:01	
			7.33	68.3	1505	Cloudy	31.5	14:09	
Purge Method: Bailer					Sample Method: Bailer				
Well MW-2									
20.1	11.58	-	6.68	76.8	7730	Moderate	6.0	15:10	15:29
			6.77	70.4	8630	Moderate	12.0	15:15	
			6.70	69.8	8650	Moderate	17.0	15:20	
Purge Method: Bailer					Sample Method: Bailer				
Well MW-3									
24.2	10.95	-	7.09	72.6	3130	Cloudy	9	14:51	15:08
			6.98	71.2	3130	Cloudy	18	14:58	
			7.05	70.2	3090	Cloudy	27	15:06	
Purge Method: Bailer					Sample Method: Bailer				
Well MW-4									
24.8	11.36	-	6.79	71.5	6390	Light	9	14:17	14:30
			6.74	68.0	6250	Light	18	14:21	
			6.79	67.4	6260	Heavy	26.5	14:26	
Purge Method: Bailer					Sample Method: Bailer				
Well MW-5									
44.7	9.40	-	6.59	68.9	5500	Heavy	23.0	12:37	12:52
			7.25	68.6	5400	Heavy	Rechg	12:52	
Purge Method: Bailer					Sample Method: Bailer				
Note: Well MW-6 dry at 27.0 gallons									

Table 3 (continued)
Field Purging and Sampling Data

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

Sample Date: August 12, 1992

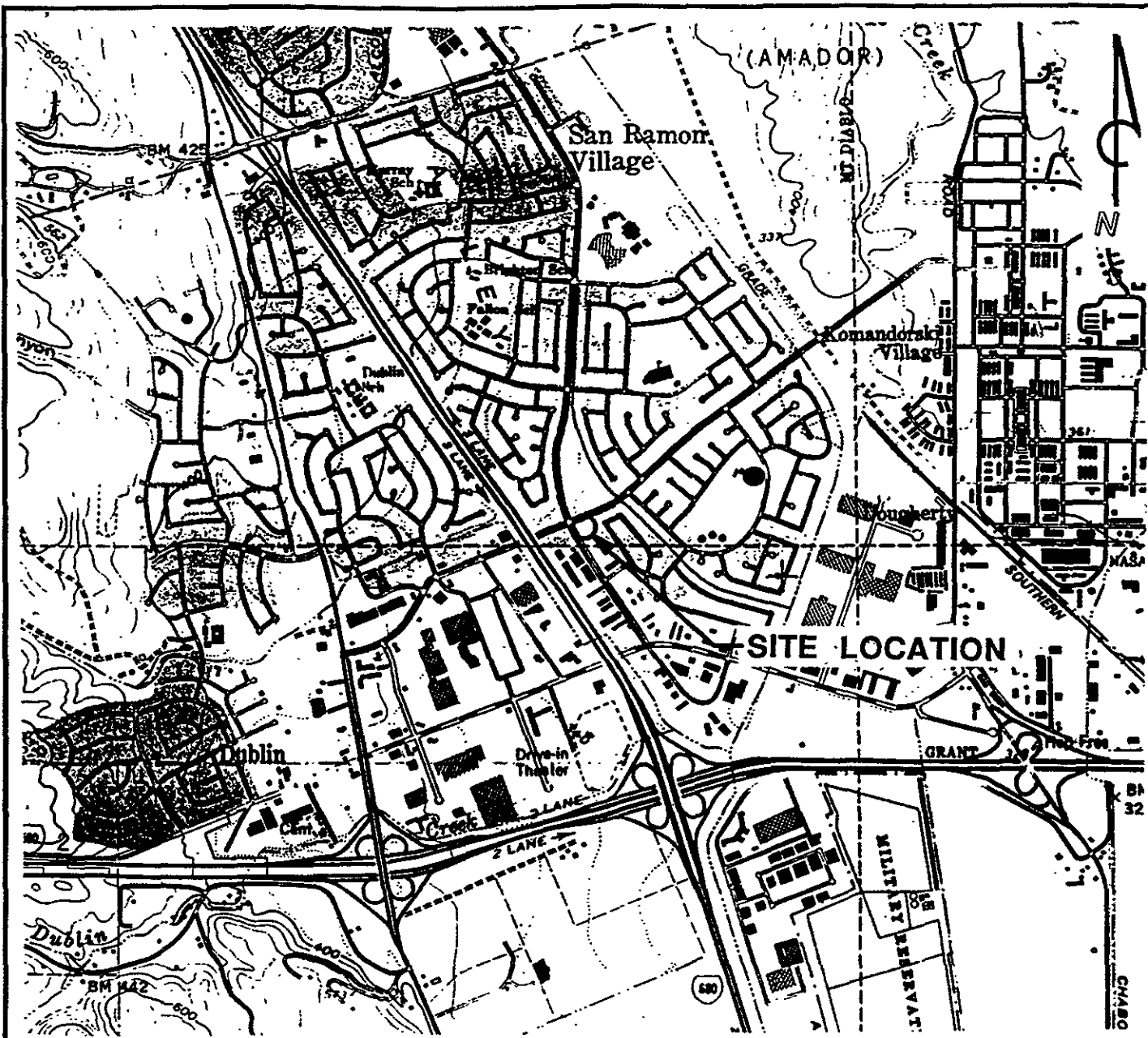
Depth of Well	Depth to Water (feet)	Depth to Liquid (feet)	pH	Temperature (°F)	Conductivity	Turbidity (NTU)	Purge Volumes (gallons)	Time of Purging	Time of Sampling
Well MW-6									
22.9	9.72	-	6.9	75.5	4160	Moderate	8.5	14:23	14:58
			7.0	72.9	4230	Moderate	17.5	14:40	
			7.01	72.0	4160	Moderate	26	14:46	
Purge Method: Bailer					Sample Method: Bailer				
Well MW-7									
16.5	8.65	-	6.55	71.9	5740	Heavy	5.0	12:28	13:00
			7.12	69.8	6460	Heavy	10.5	12:42	
			6.80	69.9	5800	Heavy	NA	12:56	
Purge Method: Bailer					Sample Method: Bailer				
Note: Well dewatered at 11.0 gallons									
Well MW-8									
16.2	9.82	-	6.70	76.0	6260	Heavy	4.5	13:20	13:40
			6.79	73.4	6720	Heavy	8.5	13:25	
			6.81	72.8	6570	Heavy	NA	13:30	
Purge Method: Bailer					Sample Method: Bailer				
Note: Well dewatered at 9.5 gallons									
Well MW-9									
17.8	8.97	-	6.50	74.8	6870	Clear	6	12:31	12:40
			6.82	72.7	6730	Clear	12	12:35	
			6.91	72.2	6700	Cloudy	18	12:39	
Purge Method: Bailer					Sample Method: Bailer				

Table 3 (continued)
Field Purging and Sampling Data

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

Sample Date: August 12, 1992

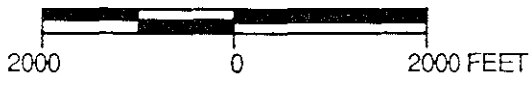
Depth of Well	Depth to Water (feet)	Depth to Liquid (feet)	pH	Temperature (°F)	Conductivity	Turbidity (NTU)	Purge Volumes (gallons)	Time of Purging	Time of Sampling
Well MW-11									
16.4	8.76	-	7.02	74.7	7120	Cloudy	5	13:08	13:15
			6.88	72.3	7560	Cloudy	10	13:11	
			6.87	71.3	7120	Cloudy	15	13:14	
Purge Method: Bailer					Sample Method: Bailer				
Well MW-13									
17.0	10.91	-	6.91	72.5	3720	Heavy	4	13:23	13:38
			6.85	69.5	3560	Heavy	8	13:26	
			6.82	68.6	3460	Heavy	12	13:29	
Purge Method: Bailer					Sample Method: Bailer				
NTU = Nephelometric turbidity unit									



QUADRANGLE LOCATION

REFERENCES:
 USGS 7.5 MIN. TOPOGRAPHIC MAP
 TITLED: DUBLIN, CALIFORNIA
 DATED: 1961 REVISED: 1980

SCALE

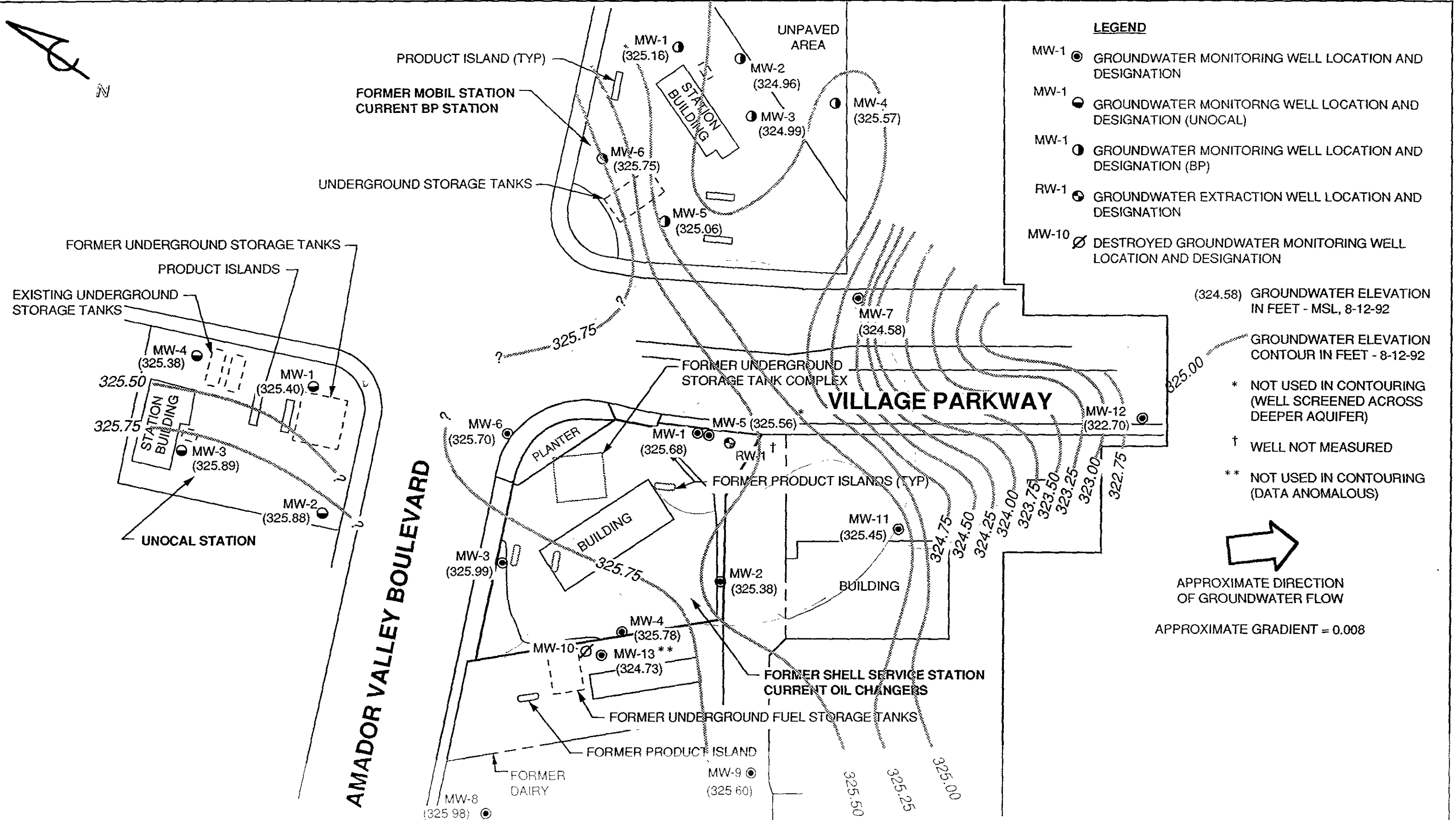


PACIFIC ENVIRONMENTAL GROUP, INC

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

SITE LOCATION MAP

FIGURE:
1
PROJECT:
 305-87.01



LEGEND

- MW-1 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- MW-1 ○ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (UNOCAL)
- MW-1 ⊙ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (BP)
- RW-1 ⊕ GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION
- MW-10 ∅ DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

(324.58) GROUNDWATER ELEVATION IN FEET - MSL, 8-12-92

GROUNDWATER ELEVATION CONTOUR IN FEET - 8-12-92

* NOT USED IN CONTOURING (WELL SCREENED ACROSS DEEPER AQUIFER)

† WELL NOT MEASURED

** NOT USED IN CONTOURING (DATA ANOMALOUS)

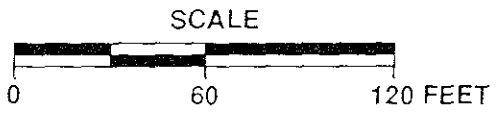


APPROXIMATE DIRECTION OF GROUNDWATER FLOW

APPROXIMATE GRADIENT = 0.008



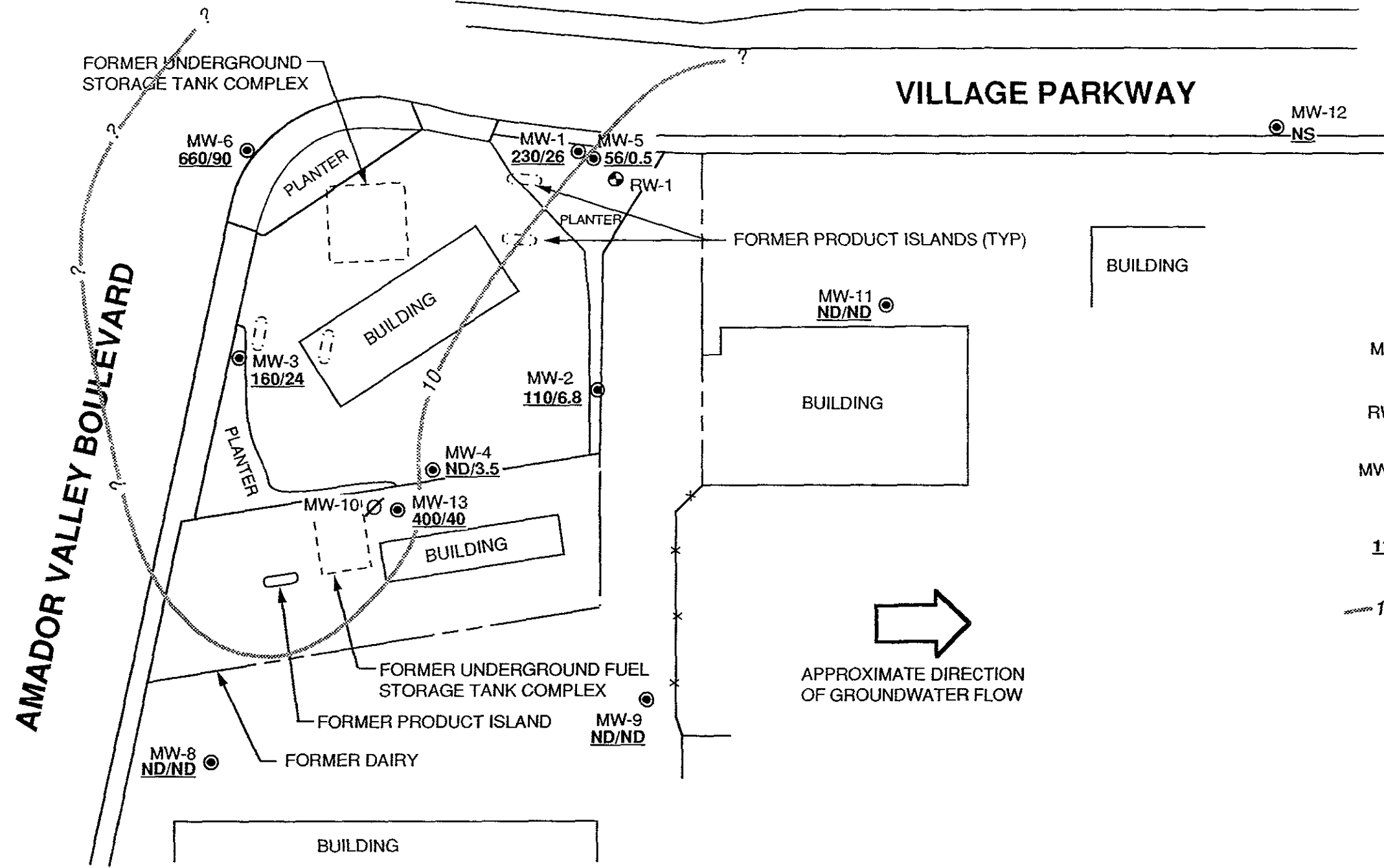
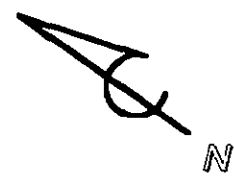
PACIFIC ENVIRONMENTAL GROUP, INC.



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

GROUNDWATER ELEVATION CONTOUR MAP

FIGURE 2
PROJECT 305-87 01



AMADOR VALLEY BOULEVARD

VILLAGE PARKWAY

LEGEND

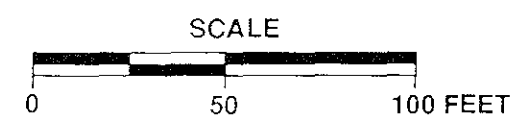
- MW-1 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- RW-1 ● GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION
- MW-10 ∅ DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- 110/6.8** TPH-g/BENZENE CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION (ppb), 8-12-92
- 10 ----- BENZENE ISOCONCENTRATION CONTOUR IN ppb, 8-12-92
- ND** NOT DETECTED
- NS** NOT SAMPLED

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

APPROXIMATE DIRECTION OF GROUNDWATER FLOW



PACIFIC ENVIRONMENTAL GROUP, INC.



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

TPH-g/BENZENE CONCENTRATION MAP

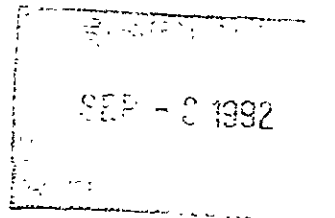
FIGURE 3
PROJECT: 305-87.01

ATTACHMENT A
GROUNDWATER SAMPLING REPORT



EMCON
ASSOCIATES

Consultants in Wastes
Management and
Environmental Control



September 1, 1992
Project: G67-66.01
WIC#: 204-2217-0105

Ms. Rhonda Barrick
Pacific Environmental Group, Inc.
1601 Civic Center Drive, Suite 202
Santa Clara, California 95050

Re: Third quarter 1992 ground-water monitoring report, Shell Oil
Company, 7194 Amador Valley Boulevard, Dublin, California

Dear Ms. Barrick:

This letter presents the results of the third quarter 1992 ground-water monitoring event for the Shell Oil Company (Shell) site located at 7194 Amador Valley Boulevard, Dublin, California (figure 1). Third quarter monitoring was conducted on August 12, 1992. The site is monitored quarterly; selected wells are sampled semiannually in February and August. Well MW-12 is not sampled for chemical analysis.

GROUND-WATER LEVEL SURVEY

A water-level survey preceded the purging and sampling of the monitoring wells. The wells included in the survey are identified in figure 2 (supplied by Pacific Environmental Group). During the survey, wells MW-1 through MW-9, MW-11, MW-12, and MW-13 were measured for depth to water, floating product thickness, and total depth. Depth to water and floating product thickness were measured to the nearest 0.01 foot with an oil/water interface probe. No floating product was observed in any wells. Total depth was measured to the nearest 0.1 foot. Results of the third quarter water-level survey, and available data from four previous surveys, are summarized in table 1.

SAMPLING AND ANALYSIS

Ground-water samples were collected from wells MW-1 through MW-9, MW-11, and MW-13 on August 12, 1992. Prior to sample collection, the wells were purged with polyvinyl chloride bailers. During the purging operation, ground water was monitored for pH, electrical conductivity, and temperature as a function of volume of water removed. Purging continued until these parameters were stable and a minimum of three casing volumes of ground water were removed. Wells MW-5, MW-7, and MW-8 were evacuated to dryness before the removal of three casing volumes. The wells were allowed to recharge for up to 24 hours. Samples were collected after the wells had recharged to a level sufficient for sample

G676601C.DOC



collection. Field measurements from third quarter monitoring, and available measurements from four previous monitoring events, are summarized in table 1. Purge water from the monitoring wells was contained in 55-gallon drums. The drums were identified with Shell-approved labels and secured for on-site storage.

Ground-water samples were collected with a Teflon® bailer, labeled, placed on ice, and transported to Anametrix Inc. for analysis. Shell chain-of-custody documents accompanied all samples to the laboratory.

All equipment that was placed down a well or that came in contact with ground water was steam cleaned with deionized water prior to use at each well.

Quality control samples for third quarter monitoring included a trip blank (TB), a field blank (FB), and a duplicate well sample (MW-1D) collected from well MW-1. All water samples collected during third quarter monitoring were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), and benzene, toluene, ethylbenzene, and total xylenes (BTEX).

ANALYTICAL RESULTS

Analytical results for the third quarter 1992 monitoring event, and available results from four previous monitoring events, are summarized in table 2. The original certified analytical report and final chain-of-custody document are attached.

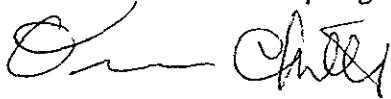
If you have any questions, please call.

Very truly yours,

EMCON Associates



David Larsen
Environmental Sampling Coordinator



Orrin Childs
Environmental Sampling Supervisor

DL/OC dl

Attachments: Table 1 - Monitoring well field measurement data
Table 2 - Summary of analytical results
Figure 1 - Site location
Figure 2 - Monitoring well locations
Certified analytical report
Chain-of-custody document

Table 1
Monitoring Well Field Measurement Data
Third Quarter 1992

Shell Station 7194 Amador Valley Boulevard
 Dublin, California
 WIC # 204-2217-0105

Date: 08/28/92
 Project Number: G67-68.01

Well Desig- nation	Water Level Field Date	TOC Elevation (ft-MSL)	Depth to Water (feet)	Ground- water Elevation (ft-MSL)	Total Well Depth (feet)	Floating Product Thickness (feet)	Water Sample Field Date	pH (std. units)	Electrical Conductivity (micromhos/cm)	Temperature (degrees F)	Turbidity (NTU)
MW-1	05/06/91	334.83	8.34	326.49	NR	NR	05/06/91	NR	NR	NR	NR
MW-1	08/28/91	334.83	9.28	325.55	25.26	NR	08/28/91	6.21	490	24*	NR
MW-1	02/25/92	334.83	7.49	327.34	25.1	ND	02/25/92	6.84	1873	69.3	>200
MW-1	05/12/92	334.83	8.64	326.19	25.1	ND	05/12/92	6.98	2100	64.4	>1000
MW-1	08/12/92	334.83	9.15	325.68	25.1	ND	08/12/92	7.33	1505	68.3	304
MW-2	05/06/91	336.96	10.05	326.91	NR	NR	05/06/91	NR	NR	NR	NR
MW-2	08/28/91	336.96	11.16	325.80	24.63	NR	08/28/91	6.83	2380	23*	NR
MW-2	02/25/92	336.96	9.66	327.30	24.5	ND	02/25/92	6.68	8810	67.1	>200
MW-2	05/12/92	336.96	10.97	325.99	24.5	ND	05/12/92	6.89	6320	66.7	153
MW-2	08/12/92	336.96	11.58	325.38	20.1	ND	08/12/92	6.70	8650	69.8	>200
MW-3	05/06/91	336.93	9.85	327.08	NR	NR	05/06/91	NR	NR	NR	NR
MW-3	08/28/91	336.93	10.90	326.03	24.35	NR	08/28/91	6.16	1220	23*	NR
MW-3	02/25/92	336.93	9.04	327.89	24.3	ND	02/25/92	6.87	3030	65.3	>200
MW-3	05/12/92	336.93	10.50	326.43	24.3	ND	05/12/92	6.87	2690	67.4	78.7
MW-3	08/12/92	336.93	10.94	325.99	24.2	ND	08/12/92	7.05	3090	70.2	285
MW-4	05/06/91	337.14	10.04	327.10	NR	NR	05/06/91	NR	NR	NR	NR
MW-4	08/28/91	337.14	11.18	325.96	24.87	NR	08/28/91	7.04	1880	24*	NR
MW-4	02/25/92	337.14	9.45	327.69	24.8	ND	02/25/92	6.79	6300	63.7	>200
MW-4	05/12/92	337.14	10.84	326.30	24.8	ND	05/12/92	NA	NA	NA	NA
MW-4	08/12/92	337.14	11.36	325.78	24.8	ND	08/12/92	6.79	6260	67.4	>200

TOC = top of casing
 ft-MSL = elevation in feet, relative to mean sea level
 std units = standard pH units
 micromhos/cm = micromhos per centimeter
 degrees F = degrees Fahrenheit
 NTU = nephelometric turbidity units
 NR = Not reported, data not available
 * = Temperature measured in degrees centigrade
 ND = None detected
 NA = Not analyzed, well was not sampled for chemical analysis

Table 1
Monitoring Well Field Measurement Data
Third Quarter 1992

Shell Station: 7194 Amador Valley Boulevard
Dublin, California
WIC # 204-2217-0105

Date: 08/28/92
Project Number: G67-66.01

Well Designation	Water Level Field Date	TOC Elevation (ft-MSL)	Depth to Water (feet)	Ground- water Elevation (ft-MSL)	Total Well Depth (feet)	Floating Product Thickness (feet)	Water Sample Field Date	pH (std. units)	Electrical Conductivity (micromhos/cm)	Temperature (degrees F)	Turbidity (NTU)
MW-5	05/06/91	334.96	7.90	327.06	NR	NR	05/06/91	NR	NR	NR	NR
MW-5	08/28/91	334.96	9.28	325.68	44.84	NR	08/28/91	6.65	1520	23*	NR
MW-5	02/25/92	334.96	9.02	325.94	44.8	ND	02/25/92	7.10	6220	64.9	>200
MW-5	05/12/92	334.96	8.65	326.31	44.8	ND	05/12/92	6.48	4690	67.9	>1000
MW-5	08/12/92	334.96	9.40	325.56	44.7	ND	08/12/92	7.25	5400	68.6	168
MW-6	05/06/91	335.42	9.12	326.30	NR	NR	05/06/91	NR	NR	NR	NR
MW-6	08/28/91	335.42	9.68	325.74	22.95	NR	08/28/91	6.52	1220	23*	NR
MW-6	02/25/92	335.42	8.44	326.98	23.4	ND	02/25/92	6.82	5090	66.9	>200
MW-6	05/12/92	335.42	9.11	326.31	22.9	ND	05/12/92	6.82	3590	67.4	323
MW-6	08/12/92	335.42	9.72	325.70	22.9	ND	08/12/92	7.01	4160	72.0	206
MW-7	05/06/91	333.23	6.37	326.86	NR	NR	05/06/91	NR	NR	NR	NR
MW-7	08/28/91	333.23	7.94	325.29	16.32	NR	02/28/91	7.95	1890	25*	NR
MW-7	02/25/92	333.23	6.99	326.24	16.2	ND	02/25/92	7.04	6010	79.4	>200
MW-7	05/12/92	333.23	7.42	325.81	16.5	ND	05/12/92	NA	NA	NA	NA
MW-7	08/12/92	333.23	8.65	324.58	16.5	ND	08/12/92	6.80	5800	69.9	262
MW-8	05/06/91	335.80	8.70	327.10	NR	NR	05/06/91	NR	NR	NR	NR
MW-8	08/28/91	335.80	9.68	326.12	16.25	NR	08/28/91	6.35	1940	25*	NR
MW-8	02/25/92	335.80	7.46	328.35	16.2	ND	02/25/92	6.75	6640	67.7	>200
MW-8	05/12/92	335.80	9.19	326.61	16.2	ND	05/12/92	NA	NA	NA	NA
MW-8	08/12/92	335.80	9.82	325.98	16.2	ND	08/12/92	6.81	6570	72.8	301

TOC = top of casing

ft-MSL = elevation in feet, relative to mean sea level

std units = standard pH units

micromhos/cm = micromhos per centimeter

degrees F = degrees Fahrenheit

NTU = nephelometric turbidity units

NR = Not reported; data not available

* = Temperature measured in degrees centigrade

ND = None detected

NA = Not analyzed; well was not sampled for chemical analysis

Table 1
Monitoring Well Field Measurement Data
Third Quarter 1992

Shell Station, 7194 Amador Valley Boulevard
Dublin, California
WIC # 204-2217-0105

Date: 08/28/92
Project Number: G67-66.01

Well Designation	Water Level Field Date	TOC Elevation (ft-MSL)	Depth to Water (feet)	Ground-water Elevation (ft-MSL)	Total Well Depth (feet)	Floating Product Thickness (feet)	Water Sample Field Date	pH (std. units)	Electrical Conductivity (micromhos/cm)	Temperature (degrees F)	Turbidity (NTU)
MW-9	05/06/91	334.57	10.05	324.52	NR	NR	05/06/91	NR	NR	NR	NR
MW-9	08/28/91	334.57	10.34	324.23	17.93	NR	08/28/91	7.00	2210	24*	NR
MW-9	02/25/92	334.57	7.18	327.39	17.9	ND	02/25/92	6.79	7600	68.6	>200
MW-9	05/12/92	334.57	8.54	326.03	17.9	ND	05/12/92	NA	NA	NA	NA
MW-9	08/12/92	334.57	8.97	325.60	17.8	ND	08/12/92	6.91	6700	72.2	179
MW-11	05/06/91	334.20	7.71	326.49	NR	NR	05/06/91	NR	NR	NR	NR
MW-11	08/28/91	334.20	8.62	325.58	NR	NR	02/28/91	NR	NR	NR	NR
MW-11	02/25/92	334.20	7.21	326.99	16.4	ND	02/25/92	6.77	8870	69.2	>200
MW-11	05/12/92	334.20	8.26	325.94	16.5	ND	05/12/92	NA	NA	NA	NA
MW-11	08/12/92	334.20	8.75	325.45	16.4	ND	08/12/92	6.87	7720	71.3	413
MW-12	05/06/91	332.53	7.35	325.18	NR	NR	05/06/91	NR	NR	NR	NR
MW-12	08/28/91	332.53	7.79	324.74	17.15	NR	08/28/91	6.15	970	22*	NR
MW-12	02/25/92	332.53	6.14	326.39	17.2	ND	02/25/92	6.98	2890	67.3	<200
MW-12	05/12/92	332.53	7.54	324.99	17.2	ND	05/12/92	NA	NA	NA	NA
MW-12	08/12/92	332.53	9.83	322.70	17.1	ND	08/12/92	NA	NA	NA	NA
MW-13	05/06/91	335.64	8.37	327.27	NR	NR	05/06/91	NR	NR	NR	NR
MW-13	08/28/91	335.64	9.82	325.82	17.13	NR	08/28/91	6.47	1380	22*	NR
MW-13	02/25/92	335.64	7.66	327.98	17.0	ND	02/25/92	6.88	5352	64.3	>200
MW-13	05/12/92	335.64	9.16	326.48	17.1	ND	05/12/92	6.98	3170	65.1	881
MW-13	08/12/92	335.64	10.91	324.73	17.0	ND	08/12/92	6.82	3460	68.6	168

TOC = top of casing

ft-MSL = elevation in feet, relative to mean sea level

std units = standard pH units

micromhos/cm = micromhos per centimeter

degrees F = degrees Fahrenheit

NTU = nephelometric turbidity units

NR = Not reported, data not available

* = Temperature measured in degrees centigrade

ND = None detected

NA = Not analyzed, well was not sampled for chemical analysis

Table 2
 Summary of Analytical Results
 Third Quarter 1992
 milligrams per liter (mg/l) or parts per million (ppm)

Shell Station 7194 Amador Valley Boulevard
 Dublin, California
 WIC # 204-2217-0105

Date: 08/28/92
 Project Number: G67-66.01

Sample Designation	Water Sample Field Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
MW-1	05/06/91	0.51	0.041	0.011	0.025	0.035
MW-1	08/28/91	0.45	0.041	0.016	0.024	0.034
MW-1	02/25/92	0.24	0.024	0.0092	0.014	0.020
MW-1	05/12/92	0.32	0.060	0.025	0.029	0.041
MW-1	08/12/92	0.23	0.026	0.016	0.020	0.025
MW-10	08/12/92	0.22	0.025	0.016	0.019	0.024
MW-2	05/06/91	0.06	0.0015	<0.0005	0.005	<0.0005
MW-2	08/28/91	0.10	0.0063	<0.0005	0.001	0.0011
MW-2	02/25/92	<0.05	0.0038	<0.0005	<0.0005	<0.0005
MW-2	05/12/92	<0.05	0.0060	<0.0005	<0.0005	<0.0005
MW-2	08/12/92	0.11	0.0068	<0.0005	0.0010	<0.0005
MW-3	05/06/91	0.12	0.031	0.0008	0.0021	0.0008
MW-3	08/28/91	0.34	0.087	0.0011	0.0065	0.0038
MW-3	02/25/92	0.08	0.017	<0.0005	<0.0005	<0.0005
MW-3	05/12/92	0.074	0.031	<0.0005	0.0026	<0.0005
MW-3	08/12/92	0.16	0.024	0.0005	0.0029	<0.0005
MW-4	05/06/91	0.14	0.049	0.0013	0.0041	0.0017
MW-4	08/28/91	0.09	0.013	<0.0005	0.001	0.0011
MW-4	02/25/92	0.12	0.047	<0.0005	0.0005	0.0007
MW-4	05/12/92	NA	NA	NA	NA	NA
MW-4	08/12/92	<0.05	0.0035	<0.0005	<0.0005	<0.0005

TPH-g = total petroleum hydrocarbons as gasoline
 NA = Not analyzed; well was not sampled for chemical analysis

Table 2
 Summary of Analytical Results
 Third Quarter 1992
 milligrams per liter (mg/l) or parts per million (ppm)

Shell Station 7194 Amador Valley Boulevard
 Dublin, California
 WIC # 204-2217-0105

Date: 08/28/92
 Project Number: Q87-66.01

Sample Design- nation	Water Sample Field Date	TPH-g	Benzene	Toluene	Ethyl- benzene	Total Xylenes
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
MW-5	05/06/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-5	08/28/91	<0.05	<0.0005	<0.0005	<0.0005	0.001
MW-5	02/25/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-5	05/12/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-5	08/12/92	0.056	0.0005	<0.0005	<0.0005	<0.0005
MW-6	05/06/91	0.55	0.072	0.011	0.038	0.023
MW-6	08/28/91	0.58	0.082	0.0076	0.028	0.0200
MW-6	02/25/92	0.40	0.052	0.0066	0.018	0.011
MW-6	05/12/92	0.95	0.26	0.036	0.012	0.049
MW-6	08/12/92	0.68	0.090	0.015	0.055	0.018
MW-7	05/06/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-7	02/28/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-7	02/25/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-7	05/12/92	NA	NA	NA	NA	NA
MW-7	08/12/92	0.052	0.0008	0.0009	<0.0005	<0.0005
MW-8	05/06/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-8	08/28/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-8	02/25/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-8	05/12/92	NA	NA	NA	NA	NA
MW-8	08/12/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005

TPH-g = total petroleum hydrocarbons as gasoline
 NA = Not analyzed; well was not sampled for chemical analysis

Table 2
 Summary of Analytical Results
 Third Quarter 1992
 milligrams per liter (mg/l) or parts per million (ppm)

Shell Station 7194 Amador Valley Boulevard
 Dublin, California
 WIC # 204-2217-0105

Date: 08/28/92
 Project Number: G67-66.01

Sample Designation	Water Sample Field Date	TPH-g (mg/l)	Benzene (mg/l)	Toluene (mg/l)	Ethyl-benzene (mg/l)	Total Xylenes (mg/l)
MW-9	05/06/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-9	08/28/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-9	02/25/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-9	05/12/92	NA	NA	NA	NA	NA
MW-9	08/12/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-11	05/06/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-11	02/28/91	<0.05	<0.0005	<0.0005	<0.0005	<0.001
MW-11	02/25/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-11	05/12/92	NA	NA	NA	NA	NA
MW-11	08/12/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-12	05/06/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-12	08/28/91	<0.05	<0.0005	<0.0005	<0.0005	0.001
MW-12	02/25/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-12	05/12/92	NA	NA	NA	NA	NA
MW-12	08/12/92	NA	NA	NA	NA	NA
MW-13	05/06/91	1.1	0.43	0.03	0.041	0.13
MW-13	08/28/91	1.0	0.35	0.0064	0.044	0.043
MW-13	02/25/92	0.78	0.26	0.0035	0.026	0.015
MW-13	05/12/92	0.66	0.21	0.0035	0.026	0.0058
MW-13	08/12/92	0.40	0.14	0.0096	0.021	0.023
F-B	08/12/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005

TPH-g = total petroleum hydrocarbons as gasoline
 NA = Not analyzed, well was not sampled for chemical analysis

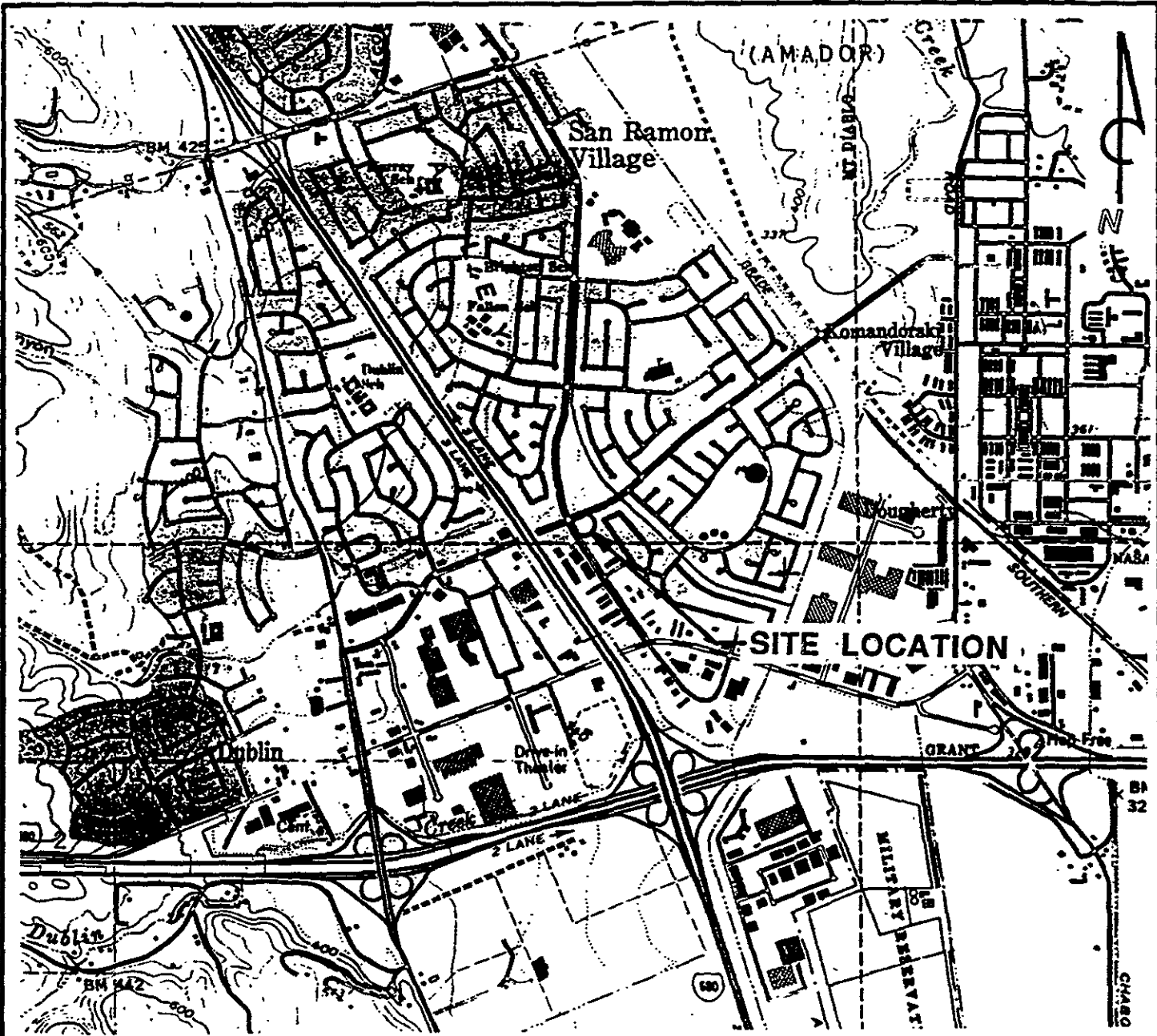
Table 2
 Summary of Analytical Results
 Third Quarter 1992
 milligrams per liter (mg/l) or parts per million (ppm)

Shell Station: 7194 Amador Valley Boulevard
 Dublin, California
 WIC # 204-2217-0105

Date: 08/28/92
 Project Number: G67-66.01

Sample Desig- nation	Water Sample Field Date	TPH-g	Benzene	Toluene	Ethyl- benzene	Total Xylenes
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
TB	02/25/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
TB	05/12/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
TB	08/12/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005

TPH-g = total petroleum hydrocarbons as gasoline

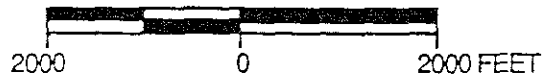


QUADRANGLE LOCATION

REFERENCES:

USGS 7.5 MIN. TOPOGRAPHIC MAP
 TITLED: DUBLIN, CALIFORNIA
 DATED: 1961 REVISED: 1980

SCALE



PACIFIC ENVIRONMENTAL GROUP INC

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

SITE LOCATION MAP

FIGURE 1
 PROJECT: 305-87.01



APPROXIMATE DIRECTION OF GROUNDWATER FLOW

LEGEND

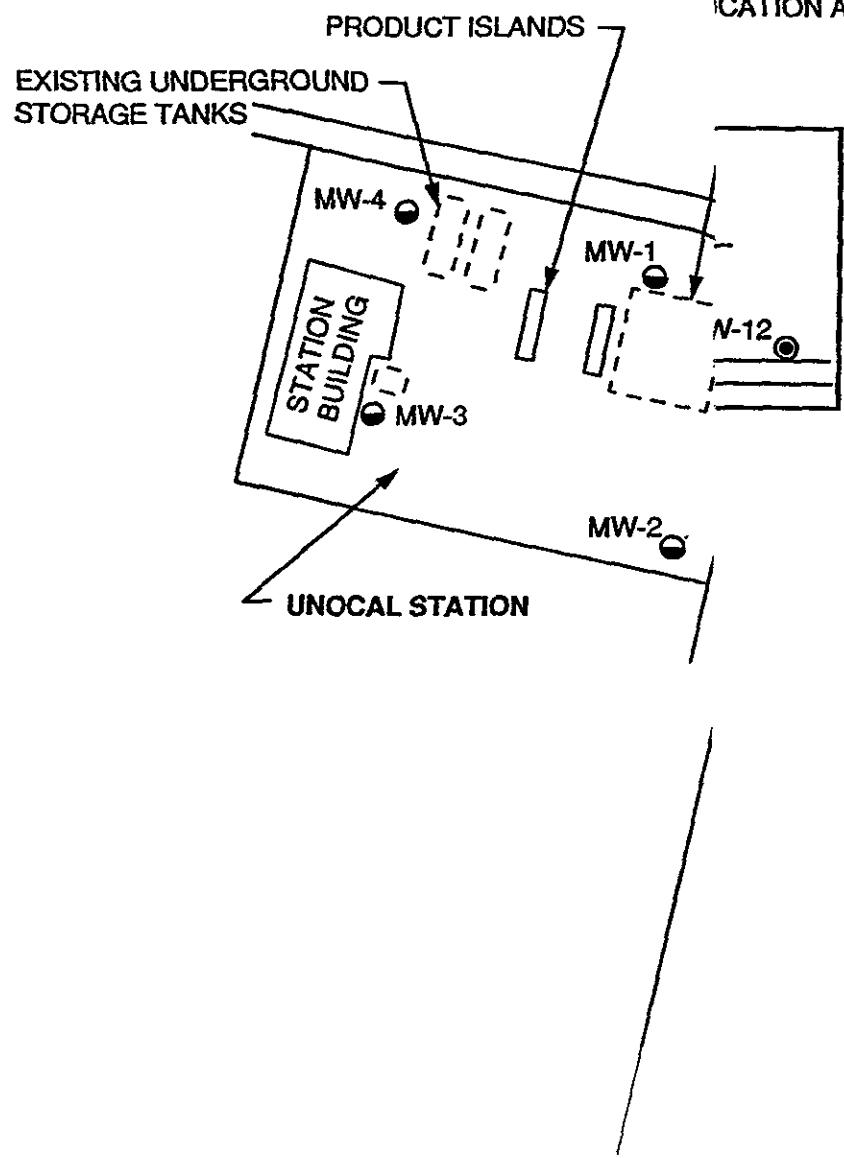
GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (UNOCAL)

GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (BP)

UNOCAL GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION

FORMER UNDERGROUND STORAGE TANKS DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION



GROUNDWATER ELEVATION IN FEET - MSL, X-X-92

GROUNDWATER ELEVATION CONTOUR IN FEET - X-X-92

* NOT USED IN CONTOURING (WELL SCREENED ACROSS DEEPER AQUIFER)

† WELL NOT MEASURED



PACIFIC ENVIRONMENTAL GROUP, INC.



FIGURE: 2
PROJECT: 305-87.01

ANAMETRIX INC

Environmental & Analytical Chemistry
 1961 Concourse Drive, Suite E, San Jose, CA 95131
 (408) 432-8192 • Fax (408) 432-8198

**REPORT**

MR. DAVID LARSEN
 EMCON ASSOCIATES
 1938 JUNCTION AVE.
 SAN JOSE, CA 95131

Workorder # : 9208135
 Date Received : 08/12/92
 Project ID : 204-2217-0105
 Purchase Order: MOH-B813

The following samples were received at Anamatrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9208135- 1	MW-5
9208135- 2	MW-7
9208135- 3	MW-8
9208135- 4	MW-9
9208135- 5	MW-11
9208135- 6	MW-13
9208135- 7	MW-6
9208135- 8	MW-1
9208135- 9	MW-4
9208135-10	MW-3
9208135-11	MW-2
9208135-12	MW-1D
9208135-13	TB
9208135-14	FB

This report consists of 9 pages not including the cover letter, and is organized in sections according to the specific Anamatrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anamatrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anamatrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anamatrix.

Sarah Schoen, Ph.D.
 Laboratory Director

8-26-92

Date

EMCON ASSOCIATES

AUG 27 1992

RECEIVED

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. DAVID LARSEN
EMCON ASSOCIATES
1938 JUNCTION AVE.
SAN JOSE, CA 95131

Workorder # : 9208135
Date Received : 08/12/92
Project ID : 204-2217-0105
Purchase Order: MOH-B813
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9208135- 1	MW-5	WATER	08/12/92	TPHg/BTEX
9208135- 2	MW-7	WATER	08/12/92	TPHg/BTEX
9208135- 3	MW-8	WATER	08/12/92	TPHg/BTEX
9208135- 4	MW-9	WATER	08/12/92	TPHg/BTEX
9208135- 5	MW-11	WATER	08/12/92	TPHg/BTEX
9208135- 6	MW-13	WATER	08/12/92	TPHg/BTEX
9208135- 7	MW-6	WATER	08/12/92	TPHg/BTEX
9208135- 8	MW-1	WATER	08/12/92	TPHg/BTEX
9208135- 9	MW-4	WATER	08/12/92	TPHg/BTEX
9208135-10	MW-3	WATER	08/12/92	TPHg/BTEX
9208135-11	MW-2	WATER	08/12/92	TPHg/BTEX
9208135-12	MW-1D	WATER	08/12/92	TPHg/BTEX
9208135-13	TB	WATER	08/12/92	TPHg/BTEX
9208135-14	FB	WATER	08/12/92	TPHg/BTEX

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. DAVID LARSEN
EMCON ASSOCIATES
1938 JUNCTION AVE.
SAN JOSE, CA 95131

Workorder # : 9208135
Date Received : 08/12/92
Project ID : 204-2217-0105
Purchase Order: MOH-B813
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Cheryl Balmer 8/20/92
Department Supervisor Date

1. [Signature] 8/25/92
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9208135
Matrix : WATER
Date Sampled : 08/12/92

Project Number : 204-2217-0105
Date Released : 08/20/92

	Reporting Limit	Sample I.D.# MW-5	Sample I.D.# MW-7	Sample I.D.# MW-8	Sample I.D.# MW-9	Sample I.D.# MW-11
COMPOUNDS	(mg/L)	-01	-02	-03	-04	-05
Benzene	0.0005	0.0005	0.0008	ND	ND	ND
Toluene	0.0005	ND	0.0009	ND	ND	ND
Ethylbenzene	0.0005	ND	ND	ND	ND	ND
Total Xylenes	0.0005	ND	ND	ND	ND	ND
TPH as Gasoline	0.050	0.056	0.052	ND	ND	ND
% Surrogate Recovery		96%	94%	96%	100%	95%
Instrument I.D.		HP21	HP21	HP21	HP21	HP21
Date Analyzed		08/14/92	08/14/92	08/14/92	08/14/92	08/14/92
RLMF		1	1	1	1	1

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
- RLMF - Reporting Limit Multiplication Factor.

Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

W. H. [Signature]
Analyst Date

Charles Badman 8/20/92
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9208135
Matrix : WATER
Date Sampled : 08/12/92

Project Number : 204-2217-0105
Date Released : 08/20/92

Reporting Limit	Sample I.D.# MW-2	Sample I.D.# MW-1D	Sample I.D.# TB	Sample I.D.# FB	Sample I.D.# BG1401E3
COMPOUNDS (mg/L)	-11	-12	-13	-14	BLANK
Benzene	0.0005	0.0068	0.025	ND	ND
Toluene	0.0005	ND	0.016	ND	ND
Ethylbenzene	0.0005	0.0010	0.019	ND	ND
Total Xylenes	0.0005	ND	0.024	ND	ND
TPH as Gasoline	0.050	0.11	0.22	ND	ND
% Surrogate Recovery	112%	87%	96%	85%	106%
Instrument I.D.	HP12	HP12	HP12	HP12	HP21
Date Analyzed	08/14/92	08/15/92	08/14/92	08/14/92	08/14/92
RLMF	1	1	1	1	1

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Gene Star 8/20/92
Analyst Date

Cheryl Bauman 8/20/92
Supervisor Date

TOTAL VOLATILE HYDROCARBON MATRIX SPIKE REPORT
 EPA METHOD 5030 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 204-2217-0105 MW-4
 Matrix : WATER
 Date Sampled : 08/12/92
 Date Analyzed : 08/14/92

Anametrix I.D. : 08135-09
 Analyst : *As*
 Supervisor : *CS*
 Date Released : 08/25/92
 Instrument : HP21

COMPOUND	SPIKE AMT. (mg/L)	MS (mg/L)	%REC MS	MD (mg/L)	%REC MD	RPD	%REC LIMITS
BENZENE	0.010	0.0061	61%	0.0061	61%	0%	49-159
TOLUENE	0.010	0.0074	74%	0.0074	74%	0%	53-156
ETHYLBENZENE	0.010	0.0077	77%	0.0077	77%	0%	54-151
M+P-XYLENES	0.0067	0.0051	76%	0.0051	76%	0%	56-157
O-XYLENE	0.0033	0.0025	76%	0.0025	76%	0%	58-154
p-BFB			105%		102%		53-147

*Quality Control limits established by Anametrix, INC.

TOTAL VOLATILE HYDROCARBON LAB CONTROL SAMPLE REPORT
 EPA METHOD 5030 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
 Matrix : WATER
 Date Sampled : N/A
 Date Analyzed : 08/14/92

Anamatrix I.D. : MG1401E3
 Analyst : JS
 Supervisor : CB
 Date Released : 08/20/92
 Instrument I.D.: HP12

COMPOUND	SPIKE AMT (mg/L)	LCS (mg/L)	%REC LCS	%REC LIMITS
BENZENE	0.010	0.0078	78%	49-159
TOLUENE	0.010	0.0078	78%	53-156
ETHYLBENZENE	0.010	0.0078	78%	54-151
M+P-XYLENES	0.0067	0.0053	79%	56-157
O-XYLENE	0.0033	0.0026	79%	58-154
P-BFB			87%	53-147

 *Quality control limits established by Anamatrix, Inc.

TOTAL VOLATILE HYDROCARBON LAB CONTROL SAMPLE REPORT
 EPA METHOD 5030 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
 Matrix : WATER
 Date Sampled : N/A
 Date Analyzed : 08/14/92

Anamatrix I.D. : MG1402E3
 Analyst : IS
 Supervisor : CS
 Date Released : 08/21/92
 Instrument ID : HP21

COMPOUND	SPIKE AMT (mg/L)	LCS (mg/L)	%REC LCS	%REC LIMITS
BENZENE	0.010	0.0081	81%	49-159
TOLUENE	0.010	0.0082	82%	53-156
ETHYLBENZENE	0.010	0.0082	82%	54-151
M+P-XYLENE	0.0067	0.0056	84%	56-157
O-XYLENE	0.0033	0.0029	88%	58-154
P-BFB			90%	53-147

 *Quality control limits established by Anamatrix, Inc.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No.: 7676

Date: _____
Page 1 of 2

Site Address 7741 Amador Valley Blvd.
Dublin, CA

Analysis Required

LAB: Anametrix

WIC# 2047-2217-0105

Shell Engineer Paul Hayes Phone No. _____
Fax #: (510) 675-6158

Consultant Name & Address 1938 Junction Avenue
EMCON Associates San Jose, CA 95131

Consultant Contact David Larsen Phone No. _____
Fax #: (408) 453-2269

Comments VOC (MCI) Cor Gas, BTEX

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/> 5461		24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/> 5441		48 hours <input type="checkbox"/>
Soil for disposal <input type="checkbox"/> 5442		15 days <input checked="" type="checkbox"/> (Normal)
Water for disposal <input type="checkbox"/> 5443		Other <input type="checkbox"/> _____
Air Sample- Sys O&M <input type="checkbox"/> 5452		NOTE: Notify Lab as soon as possible of 24/48 hrs. TAT.
Water Sample - Sys O&M <input type="checkbox"/> 5453		
Other <input type="checkbox"/>		

Sampled By M Adler / Manuel Gallegos
Printed Name M ADLER / Manuel Gallegos

Sample ID	Date	Soil	Water	Air	No. of conds.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW 5	8-12-92		X		3	X	X				40 ml	MCI	No	VOC received w/ Bubbles	(mw-7)
MW 7															
MW 8															
MW 1															
MW 11															
MW 13															
MW 6															
MW 1															

Relinquished By (signature) <u>M Adler</u>	Printed name: <u>MADLER</u>	Date: <u>8-12-92</u>	Received (signature): <u>Michele D. Aguilar</u>	Printed name: <u>MICHELE D. AGUILAR</u>	Date: <u>8/12/92</u>
Relinquished By (signature)	Printed name:	Date:	Received (signature):	Printed name:	Date:
Relinquished By (signature)	Printed name:	Date:	Received (signature):	Printed name:	Date:

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.: 767C

Date: _____
Page 2 of 2

Site Address: 7194 Sunador Valley Blvd.
Dublin, CA

Analysis Required

LAB: Anamatrix

WIC# 204-2217-0105

Shell Engineer David Larsen Phone No. _____
Fax #: (510) 675-6168

Consultant Name & Address 1938 Junction Avenue
ETICOR Associates San Jose, CA 95131

Consultant Contact David Larsen Phone No. _____
Fax #: (408) 453-2269

Comments VCA (TK1) for gas, BTEX

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/>	5461	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	5441	48 hours <input type="checkbox"/>
Soil for disposal <input type="checkbox"/>	5442	15 days <input checked="" type="checkbox"/> (Normal)
Water for disposal <input type="checkbox"/>	5443	Other <input type="checkbox"/>
Air Sample- Sys O&M <input type="checkbox"/>	5452	NOTE: Notify Lab as soon as possible of 24/48 hrs. TAT.
Water Sample - Sys O&M <input type="checkbox"/>	5453	
Other <input type="checkbox"/>		

Sampled By MADEIR / Manuel Gallegos
Printed Name MADEIR / Manuel Gallegos

Sample ID	Date	Soil	Water	Air	No. of conds.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
<u>1 MW-1</u>	<u>8-12-92</u>		<u>X</u>		<u>3</u>	<u>X</u>		<u>X</u>			<u>1/2</u>	<u>1/2</u>	<u>No</u>		
<u>1 MW-2</u>															
<u>1 MW-3</u>															
<u>1 MW-4</u>															
<u>1 MW-5</u>															
<u>1 MW-6</u>															
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<u>1 MW-48</u>															
<u>1 MW-49</u>															
<u>1 MW-50</u>															

Relinquished By (signature) <u>MADEIR</u>	Printed name: <u>MADEIR</u>	Date: <u>8-12-92</u>	Time: <u>1640</u>	Received (signature): <u>MICHELE D AGUILAR</u>	Printed name: <u>MICHELE D AGUILAR</u>	Date: <u>8/12/92</u>	Time: <u>1640</u>
Relinquished By (signature)	Printed name:	Date:	Time:	Received (signature):	Printed name:	Date:	Time:
Relinquished By (signature)	Printed name:	Date:	Time:	Received (signature):	Printed name:	Date:	Time:

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