

July 22, 1994 Project 305-087.2B

Mr. Lynn Walker Shell Oil Company P.O. Box 5278 Concord, California 94520

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

Dear Mr. Walker:

The following presents the results of the second 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 sampled and gauged by Blaine Tech Services, Inc. (Blaine) at the direction of PACIFIC on May 17, 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 service station and data supplied by Alisto Engineering for the BP service station. Data was not available for the ARCO station. 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 May 1994 sampling event are shown on Figure 2. The only positive result of gasoline was found in Well MW-3. The laboratory noted this result to be in the C_6 - C_{12} hydrocarbon range. Blaine's groundwater sampling report is presented as Attachment A.

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

Sincerely,

Pacific Environmental Group, Inc.

Ross W.N. Tinline Project Geologist

RG 5860

Attachments: Table 1 - Groundwater Elevation Data

Table 2 - Groundwater Analytical Data -

Total Petroleum Hydrocarbons

(TPH as Gasoline and BTEX Compounds)

TINLINE No. 5860

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
1	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		08.8	326.03
1	01/17/90		8.47	326.36
1	02/23/90		8.25	326.58
İ	06/04/90		8.62	326.21
	11/20/90		9.50	325.33
	02/12/91		9.51	325.32
ļ	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
1	11/10/92		10.04	324.79
I	02/10/93		7.24	327.59
	05/10/93		7 <i>.</i> 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
	((40.05	00044
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 11 45	325 54
	12/09/88			325 51
	01/13/89		NM 10.74	NM
	02/10/89		10 74	326 22
	03/02/89		10.91	326 05
	04/04/89		10 06	326 90

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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 05/31/89 06/28/89		10.58 10.73 10.90	326.38 326.23 326.06
	08/08/89 09/08/89		10.78 10.97	326.18 325.99
	10/09/89 10/24/89		10.88 11.00	326.08 325.96
	12/21/89 01/17/90		11.06 10.78	325.90 326.18
	02/23/90 06/04/90		10.35 10.72	326.61 326.24
	11/20/90 02/12/91		11.35 11.64	325.61 325.32
	05/06/91 08/28/91	~	10.05 11.16	326.91 325.80
	11/13/91 02/25/92		11.57 9.66	325.39 327.30
	05/12/92 08/12/92		10.97 11.58	325.99 325.38
	11/10/92		12.05 9.28	324.91 327.68
	02/10/93 05/10/93		9.65	327.31 326.26
	08/12/93 11/11/93		10.70 11.36	325.60
	02/11/94 05/17/94		11.04 10.29	325.92 326.67
MW-3	05/09/88 08/26/88 10/05/88 11/22/88	336.96	10.59 11.10 10.43 11.16	326.37 325.86 326.53 325.80
	12/09/88 01/13/89	•	11.24 NM	325.72 NM
	02/10/89 03/02/89 04/04/89		10.43 10.59 9.45	326.53 326.37 327.51
	05/01/89 06/01/89		10.20 10.40	326.76 326.56
	06/28/89 08/09/89		10 60 10.64	326 36 326.32
A.L.L.L.	09/11/89 10/10/89		10 83 10 95	326 13 326 01
	10/26/89 12/21/89 01/17/90		10 86 11 09 10 90	326 10 325 87 326 06

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

Well Number Date Gauged Well (feet, MSL) Depth to Water (feet, TOC) Groundwater Elevation (feet, MSL) MW-3 (cont.) 06/04/90 10.52 326.44 11/20/90 12.65 324.31 02/12/91 11.16 325.80 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 10.50 326.43 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 11/1/93 10.64 326.29 02/11/94 10.68 326.25 05/17/94 9.92 327.01 MW-4 05/09/88 337.14 10.88 326.26 08/26/88 11.41 325.73 11/22/88 11.41 325.73 <t< th=""><th></th><th></th><th></th><th></th><th></th></t<>					
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(cont.) 06/04/90	Number	Gauged	(feet, MSL)	(feet, TOC)	(feet, MSL)
(cont.) 06/04/90	MW-3	02/23/90		10.52	326.44
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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					
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	1				
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	1				
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		, ,			
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					
05/01/89 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	1				
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					
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					
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		, ,			
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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					
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				10.97	326.17
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					
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					
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				11.08	
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				10 90	325 24
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					
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				11 45	325 69
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				11 50	325 64
08/28/91 11 18 325 96 11/13/91 11 60 325 54 02/25/92 9 45 327 69					
02/25/92 9 45 327 69		08/28/91		11 18	325 96
		11/13/91		11 60	325 54
05/12/92 10 84 326 30		02/25/92		9 45	327 69
		05/12/92		10 84	326 30

3050872B/2Q94 July 22 1994

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	08/12/92	, - 1. i	11.36	325.78
(cont.)	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
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

3050872B,2Q94 July 22. 1994

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

Well	Data	Well	Depth to	Groundwater
Number	Date Gauged	Elevation (feet, MSL)	Water (feet, TOC)	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 05/17/94		9.02 8.58	326.40 326.84
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	MM
	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

3050872B/2Q94 July 22. 1994

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	06/28/89		6.85 6.67	326.38 326.56
(cont.)	08/09/89		6.90	
	09/07/89 10/10/89		6.90	326.33 326.33
	10/10/89		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
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

3050872B/2Q94 July 22 1994

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 02/10/93 05/10/93 08/12/93 11/11/93 02/11/94 05/17/94		10.41 7.35 8.00 9.00 9.47 8.80 8.21	325.39 328.45 327.80 326.80 326.33 327.00 327.59
MW-9	03/01/89 04/04/89 05/01/89 05/31/89 06/28/89 08/08/89 09/07/89 10/09/89 10/23/89 12/21/89 01/18/90 02/26/90 06/04/90 11/20/90 02/11/91 05/06/91 08/28/91 11/13/91 02/25/92 08/12/92 08/12/92 10/92 02/10/93 05/10/93 08/12/93 11/11/93 02/11/94 05/17/94	334.57	8.48 7.69 8.20 8.72 9.00 8.53 8.99 8.89 9.02 9.48 8.73 9.06 8.64 9.95 9.85 10.05 10.34 9.39 7.18 8.54 8.97 9.61 7.20 7.56 8.25 10.30 8.88 8.06	326.09 326.88 326.37 325.85 325.57 326.04 325.58 325.55 325.09 325.84 325.51 325.93 324.62 324.72 324.52 324.23 325.18 327.39 326.03 325.60 327.37 327.01 326.32 324.27 325.69 326.51
MW-10 -	03/02/89 04/04/89 05/01/89 06/01/89 06/29/89 08/09/89 09/07/89 10/10/89	335 37	8 95 7 89 9 07 8 86 9 05 9 70 8 14 9 21	326 42 327 48 326.30 326 51 326 32 326 67 327 23 326 16

3050872B/2Q94 July 22 1994

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.)	10/26/89 12/20/89 06/90		9.60 9.42 Well Destro	325.77 325.95 Dyed
MW-11	03/02/89 04/04/89 05/01/89 11/20/90 05/31/90 06/28/89 08/08/89 09/07/89 10/09/89 10/24/89 12/20/89 01/18/90 02/26/90 06/04/90 11/20/90 02/11/90 05/06/91 08/28/91 11/15/91 02/25/92 05/12/92 08/12/92 11/10/92 02/10/93 05/10/93 08/12/93 11/11/93 02/11/94	334.20	8.30 7.52 7.97 NM 8.13 8.30 8.22 8.32 8.28 8.38 8.48 8.20 7.86 8.13 8.83 8.95 7.71 8.62 8.99 7.21 8.26 8.75 9.47 6.79 7.18 8.10 8.56 8.21	325.90 325.68 326.23 NM 326.07 325.90 325.98 325.88 325.92 325.82 325.72 326.00 326.34 326.07 325.37 325.25 326.49 325.58 325.21 326.99 325.45 324.73 327.41 327.02 326.10 325.64 325.64
MW-12	05/17/94 03/02/89 04/04/89 05/01/89 06/01/89 06/29/89 08/09/89 09/07/89 10/09/89 10/24/89 12/20/89 01/18/90	332.53	7.61 6.94 6.33 6 62 6 82 7 00 6 76 6 81 7 11 7 60 8 25 8 23	326.59 325.59 326.20 325.91 325.71 325.53 325.77 325.72 325.42 324.93 324.28 324.30

3050872B/2Q94 July 22, 1994

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

				
		Well	Depth to	Groundwater
Well	Date	Elevation	Water	Elevation
Number	Gauged	(feet, MSL)	(feet, TOC)	(feet, MSL)
10440	00 /00 /00		7.54	204.00
MW-12	02/26/90		7.54	324.99
(cont.)	06/04/90		7.96 8.80	324.57
	11/20/90			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
ļ	02/10/93		6.75	325.78
	05/10/93		Well I	naccessible
	08/12/93		6.23	326.30
	11/11/93		7.43	325.10
	02/11/94		7.18	325.35
1	05/17/94		6.80	325.73
MW-13	05/06/91	335.64	8.37	327.27
INIAA-12		355.04	9.82	325.82
	08/28/91			
1	11/13/91		10.19	325.45
	02/25/92		7.66 9.16	327.98
	05/12/92			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
ļ	02/11/94		9.12	326.52
	05/17/94		8.62	327.02 -
RW-1	12/09/89	336.19	10.73	325.46
'''''	01/13/89	2000	NM	NM
	02/10/89		10.91	325.28
	03/02/89		10.15	325.04
	04/05/89		9 34	326 85
	0 4 /03/0 3 05/01/89		9 85	326 34
	05/01/89	-	9 96	326 23
	, ,		9 90	326 29
	06/30/89			
	08/09/89	3	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

3050872B/2Q94 July 22, 1994

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	01/17/89		9.80	326.39
(cont.)	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

MSL = Mean sea level

TOC = Top of casing

NM = Not measured

3050872B/2Q94 July 22. 1994

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)	Xylene: (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
	• •	7, 4 00 1,500	130	13	30	260 24
	02/23/90	830	88	10	2.6	2 4 28
	06/04/90	NA	NA	NA	NA	NA
	11/20/90	1,500	180	39	82	110
	02/12/91		100 41			
	05/06/91	510		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	46	6 4	13
	05/17/94	ND	0 53	ND.	ND	0.71
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	83	12
	11/22/88	800	93	16	4 3	60
	12/09/88	270	45	3.6	7 2	14
	01/13/89	180	26	23	17	7

3050872B/2Q94 July 22 1994

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	02/10/89	320	43	1.7	34	15
(cont.)	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	8.0	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
MW-3	05/09/88	76 5 200	10 170	4.4 6	NR 32	15 54
	08/26/88	5,200 260	100	2.7	5.8	7
	10/05/88	180	75	1.4	8.1	4
	11/22/88 12/09/88	160	75 5	1. 4 5.9	ND	ND
	01/13/89	160	36	1 2	3	2
	01/13/89	300	83	ND	86	8
	03/02/89	570	160	1	17	9
	04/04/89	150	64	0.8	27	6
	05/01/89	130	48	1 2	3 4	2
		ND	ND	ND	ND	ND
	06/01/89		68	0.7	ND	5 1
	06/28/89	90			26	ND
	08/09/89	1 50	23	5 3	20	INU

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	09/11/89	ND	ND	ND	ND	ND
(cont.)	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
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	64	ND
	09/08/89	94	45	0.5	3 8	ND
	10/10/89	90	30	1	19	ND
	10/10/89	ND	3 4	ND	ND	ND
	12/21/89	ND	35	1 1	3 6	16

3050872B/2Q94 July 22, 1994

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	01/17/90	ND	4	ND	6.8	ND
(cont.)	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				niannually	
	08/12/92	ND	3.5	ND	ND	ND
	11/10/92				niannually	
	02/11/93	190	59	3.2	3.6	3.1
	05/10/93				niannually	
	08/12/93	50	4.1	1.1	1.3	3.2
					niannually	
	11/11/93	ND	0.62	ND	ND	ND
	02/11/93				niannually	
	05/17/94		VA EII	Sampled Sen	samuany	
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	06	ND
	06/04/90	ND	ND	ND	ND	ND
	11/20/90	ND	ND	DM	ND ND	1
		ND ND	ND	ND	ND ND	ND
	02/11/91		ND	ND	ND	ND
	05/06/91	ND				
	08/28/91	ND	ND	V.D	ND ND	1 ND
	11/13/91	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	02/25/92	· ND	ND	ND	ND	ND
(cont.)	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
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
		1,500	67	20	50	39
	10/24/89	1,500 ND	4.9	5.1	ND	ND
	12/20/89	ND	4.9 67	12	48	18
	01/18/90		150	16	46 47	30
	02/23/90	1 190~	. ND	ND	ND	0.6
	06/04/90		120	12	39	21
	11/20/90	730	65	10	33	16
	02/12/91	550 550				23
	05/06/91	550	72	11	38	
	08/28/91	580	82	7.6	28	20
	11/13/91	430	60	7.6	20	12
	02/25/92	400	52	66	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	68
	02/11/93	660	42	11	29	17
	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

3050872B/2Q94 July 22, 1994

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	11/11/93	ND	ND	ND	ND	ND
(cont.)	02/11/94	370 ^b	32	7	19	9.3
	05/17/94	ND	42	13	33	22
MW-7	08/26/88	ND	8.0	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	ИD
	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			l Sampled Ser	niannually	
	08/12/92	52	8.0	0.9	ND	ND
	11/10/92	NID.	Wel ND		niannually ND	ND
	02/11/93 05/10/93	ND		ND I Sampled Ser		ITU
	09/16/93	ND	ND	i Sampled Ser ND	ND	ND
_	11/11/93				miannually	
_	02/11/94	ND	ND	ND	ND	ND
	05/17/94			–	miannually	
- 8-WM	ng /n1 /on	ND	ND	ND	ND	ND
141AA-Q	03/01/89			ND	ND	ND
	04/04/89	ND	ND			ND
	05/01/89	ND	ND	ND	ND	
	05/31/89	ND	ND	ND	ND	ND

3050872B/2Q94 July 22, 1994

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	06/28/89	ND	ND	ND	ND	ND
(cont.)	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	N. I.E.	. 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				niannually	
	08/12/92	ND	ND	ND	ND	ND
					niannually	
	11/10/92	ND	ND	ND	ND	ND
	02/10/93				niannually	
	05/10/93	ND		ND		1.4
	09/16/93				niannually	
	11/11/93		1.3	ND	0.71	2.5
	02/11/94	ND				
	05/17/94	**********	vvei	Sampled Ser	niannually	
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
			ND	ND	ND ND	ND
	08/28/91	ND	TXII 3	(VIII)	1811 1	I IXEL I

July 22, 1994 3050872B/2Q94

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)
<u> </u>	<u> </u>		<u> </u>			
MW-9	02/25/92	ND	ND	ND	ND · · · · · · · · · · · · · · · · · · ·	ND
(cont.)	05/12/92				niannually	
	08/12/92	ND	ND	ND	ND	ND
	11/10/92				niannually	
	02/10/93	ND	ND	ND	ND	ND
	05/10/93			•	niannually	
	09/16/93	ND	ND	ND	ND	ND
	11/11/93			•	niannually	
	02/11/94	ND	ND	ND	ND	ND
	05/17/94		Well	Sampled Sen	niannually	
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				oyed	
184144	00 (00 (00	ND	MD	ND	ND	ND
MW-11	03/02/89		ND ND	ND	ND	ND
	04/04/89	ND			ND ·	ND
	05/01/89	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

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	11/15/91	ND	ND	ND	ND	ND
(cont.)	02/25/92	ND	ND	ND	ND	ND
	05/12/92		Well	Sampled Sem	niannually	
	08/12/92	ND	ND	ND	ND	ND
	11/10/92		Well	Sampled Sem	niannually	
	02/11/93	61 ^a	ND	ND	ND	ND
	05/10/93		Well	Sampled Sen	niannually	
	08/12/93	140	18	13	7.5	32
	11/11/93		Well	Sampled Sem	niannually	
	02/11/94	ND	ND	ND	ND	ND
	05/17/94		Well	Sampled Sen	niannually	
MW-12	03/02/89	ND	ND	ND	ND	ND
14144-17	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
	10/09/09	ND ND	ND ND	ND	ND	ND
		ND	ND	ND	ND	ND
	12/20/89	ND	ND	ND	ND	ND
	01/18/90		ND	ND	ND	ND
	02/26/90	ND 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	ND ND	ND
	05/06/91	ND ND		ND	ND -	1
	08/28/91	ND	ND	ND	ND ND	ND
	11/13/91	ND ND	ND ND	ND	ND ND	ND
	02/25/92 05/12/92	ND			ampling Program	
	<i>33,</i> 12, 12					
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	58
	08/12/92	400	140	9.6	21	23
	11/10/92	60	220	29	23	11
	02/11/93	970	340	11	29	32
	05/10/93	2,300	440	ND	ND	ND
	08/12/93	8,900	6 70	23	76	61

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	11/11/93	470	230	<2.5	27	11
(cont.)	11/11/93(D)	610	1 9 0	<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
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 Sam	pled	

ppb = Parts per billion

NR = Not requested

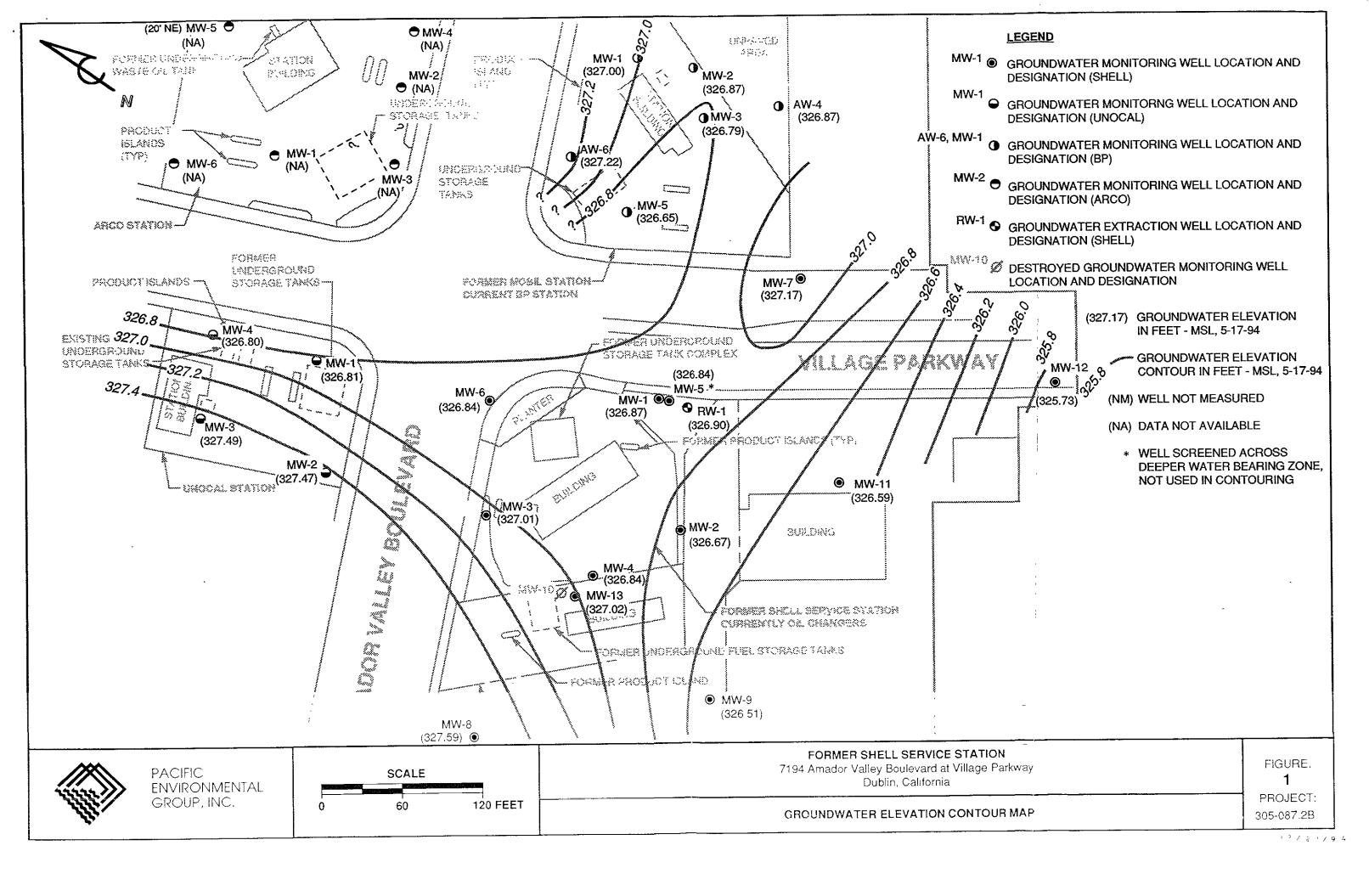
ND = Not detected

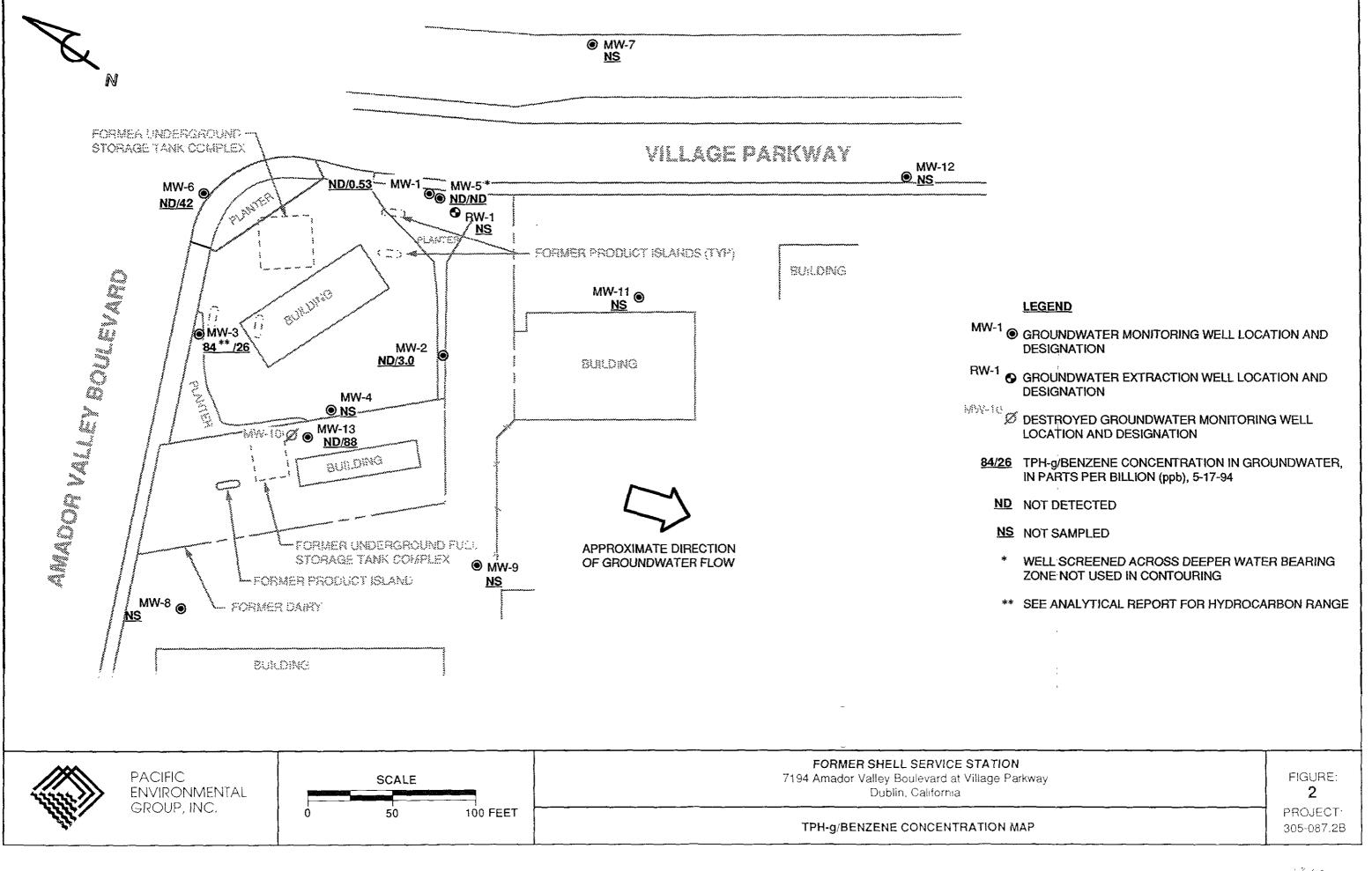
NA = Not analyzed

(D) = Duplicate sample

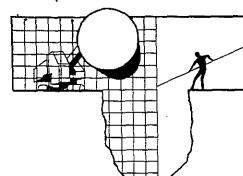
- a. Laboratory noted concentration is not indicative of gasoline.
- b. Laboratory noted result to be in the C_4 - C_{12} range.
- c. Laboratory noted results to be in the C_6 range.
- d See certified analytical results for hydrocarbon range

See certified analytical results for detection limits. -





ATTACHMENT A GROUNDWATER SAMPLING REPORT



BLAINE TECH SERVICES INC.

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

Shell Oil Company P.O. Box 5278 Concord, CA 94520-9998

Attn: Daniel T. Kirk



June 3, 1994

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

QUARTER: 2nd quarter of 1994

QUARTERLY GROUNDWATER SAMPLING REPORT 940517-L-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 Sequoia Analytical Laboratory in Redwood City, California. Sequoia Analytical Laboratory is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #1210.

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.

Cichard 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 ((ee))
MW-1	5/17/94	тос	***	NONE	***	~	7.96	25.10
MW-2	5/17/94	TOC		NONE	,		10.29	24.50
MW-3	5/17/94	TOC		NONE			9.92	24.22
MW-4	5/17/94	TOC		NONE			10,30	24.70
MW-5	5/17/94	TOC	-	NONE	•• .	-	8.12	44.68
MW-6	5/17/94	TOC	ODOR	NONE	` 	⊷	8.58	22.88
MW-7	5/17/94	TOC	***	NONE	-		6.06	16.40
MW-8	5/17/94	TOC	***	NONE		•-	8.21	16,13
MW-9	5/17/94	TOC	••	NONE			8.06	17.80
MW-11	5/17/94	TOC		NONE			7.61	16.38
MW-12	5/17/94	TOC		NONE	**		6.80	17.12
MW-13 *	5/17/94	TOC	ODOR	NONE		-	8.62	17.00
RW-1	5/17/94	TOC	**	NONE			9.29	30.94

^{*} Sample DUP was a duplicate sample taken from well MW-13.

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680 Chesapeake Drive 1900 Bates Avenue, Suite L. Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Blaine Tech Services, Inc. 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller

Project: 940517-L1, Shell, 7194 Amador Valley Blvd.

Enclosed are the results from 9 water samples received at Sequoia Analytical on May 17,1994. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
4EA1601	Water, MW-1	5/17/94	EPA 5030/8015 Mod./8020
4EA1602	Water, MW-2	5/17/94	EPA 5030/8015 Mod./8020
4EA1603	Water, MW-3	5/17/94	EPA 5030/8015 Mod./8020
4EA1604	Water, MW-5	5/17/94	EPA 5030/8015 Mod./8020
4EA1605	Water, MW-6	5/17/94	EPA 5030/8015 Mod./8020
4EA1606	Water, MW-13	5/17/94	EPA 5030/8015 Mod./8020
4EA1607	Water, Dup	5/17/94	EPA 5030/8015 Mod./8020
4EA1608	Water, E.B.	5/17/94	EPA 5030/8015 Mod./8020
4EA1609	Water, TB	5/17/94	EPA 5030/8015 Mod./8020

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Suzanne Chin Project Manager 680 Chesapeake Drive 1900 Bates Avenue, Suite L Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

985 Timothy Drive

Blaine Tech Services, Inc. Client Project ID: 940517-L1, Shell, 7194 Amador Valley Blvd. Sampled:

May 17, 1994 May 17, 1994

San Jose, CA 95133

Sample Matrix: Analysis Method:

EPA 5030/8015 Mod./8020

Received: Reported:

May 31, 1994

Attention: Jim Keller

First Sample #:

4EA1601

Water

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit μg/L	Sample I.D. 4EA1601 MW-1	Sample I.D. 4EA1602 MW-2	Sample I.D. 4EA1603 MW-3	Sample I.D. 4EA1604 MW-5	Sample I.D. 4EA1605 MW-6	Sample I.D. 4EA1606 MW-13
Purgeable Hydrocarbons	50	N.D.	N.D.	84	N.D.	N.D.	N.D.
Benzene	0.50	0.53	3.0	26	N.D.	42	88
Toluene	0.50	N.D.	N.D.	N.D.	N.D.	13	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	2.2	N.D.	33	12
Total Xylenes	0.50	0.71	0.51	N.D.	N.D.	22	10
Chromatogram Pattern:			•-	C6 - C12		÷ ÷	

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	20	20
Date Analyzed:	5/19/94	5/19/94	5/19/94	5/ 19 /94	5/19/94	5/19/94
Instrument Identification:	MLHP-2	MLHP-2	MLHP-2	MLHP-2	MLHP-2	MLHP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	98	97	96	98	89	88

Purgeable Hydrocarpons are quantitated against a tresh gaso' ne standaro Analytes reported as NID, were not detected above the stared reporting I mit.

SEQUOIA ANALYTICAL

Suzanne Chin Project Manager

4EA1601 BLA 11 2

680 Chesapeake Drive 1900 Bates Avenue, Suite L Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

<mark>prove</mark>bbel addresda beski bliki dovi Blaine Tech Services, Inc. 985 Timothy Drive San Jose, CA 95133

Attention: Jim Keller

Sample Matrix:

aung si Pr<mark>edikti si Madaba</mark> sata Pankara Client Project ID: 940517-L1, Shell, 7194 Amador Valley Blvd. Water

Received:

Sampled: May 17, 1994 May 17, 1994

Analysis Method:

EPA 5030/8015 Mod./8020

Reported:

May 31, 1994

First Sample #: ênantananan kara dariban keringan keladir karangan baharan keladir berada berada berada berada berada berada b

4EA1607 y Vibri Brazisty zabaziyabelal u upubah-lubelbahberikabet

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit μg/L	Sample I.D. 4EA1607 Dup	Sample 1.D. 4EA1608 E.B.	Sample I.D. 4EA1609 TB	
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.	
Benzene	0.50	96	N.D.	N.D.	
Toluene	0.50	N.D.	N.D.	N.D.	
Ethyl Benzene	0.50	13	N.D.	N.D.	
Total Xylenes	0.50	11	N.D.	N.D.	
Chromatogram Pa	ttern:				

Quality Control Data

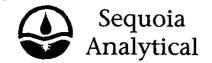
Report Limit Multiplication Factor:	20	1.0	1.0
Date Analyzed:	5/19/94	5/19/94	5/19/94
Instrument Identification:	MLHP-2	MLHP-2	MLHP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	97	87	95

Purgeable Hydrocarbons are quantitated against a tresh gasoline standard Analytes reported as NID, were not detected above the stated reporting limit

SEQUOIA ANALYTICAL

Suzanne Chin Project Manager

4EA1601 BLA < 2.



680 Chesapeake Drive 1900 Bates Avenue, Suite L Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Lawl Process (9.82)

Blaine Tech Services, Inc. 985 Timothy Drive

Client Project ID: 940517-L1, Shell, 7194 Amador Valley Blvd.

Matrix:

San Jose, CA 95133 Attention: Jim Keller

Attention: Jim Keller QC Sample Group: 4EA1601-09 Reported: May 31, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	N. Herrera	N. Herrera	N. Herrera	N. Herrera	
MS/MSD					
Batch#:	4EA1604	4EA1604	4EA1604	4EA1604	
Date Prepared:	5/20/94	5/20/94	5/20/94	5/20/94	
Date Analyzed:	5/20/94	5/20/94	5/20/94	5/20/94	
nstrument l.D.#:	MLHP-2	MLHP-2	MLHP-2	MLHP-2	
Conc. Spiked:	10 µg/L	10 µg/L	10 μg/L	30 µg/L	
Matrix Spike					
% Recovery:	88	88	87	87	
Matrix Spike Duplicate %					
Recovery:	79	80	79	79	
Relative %					
Difference:	11	10	10	10	
LCS Batch#:		Anger (Serve) - minde Baggarett, mengen beter -			
Date Prepared:	-				-
Date Analyzed:	-	-	-	-	
nstrument l.D.#:	-	•	-	-	
LCS %					
Recovery:	-	•	-	-	
% Recovery					

SEQUOIA ANALYTICAL

Control Limits:

Suzanne Chin Project Manager Please Note

72-128

71-133

The LCS is a control sample of known interferent free matrix that is analyzed using the same reagents preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of saniple fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch

71-120

72-130