CAMBRIA

August 21, 1997

Susan Hugo
Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Second Quarter 1997 Monitoring Report**
Shell Service Station
3420 San Pablo Avenue
Oakland, California
WIC #204-5508-5306
Cambria Project #240-314-297

Dear Ms. Hugo:

On behalf of Shell Oil Products Company (Shell), Cambria Environmental Technology, Inc. (Cambria) is submitting this monitoring report to satisfy the quarterly reporting requirements prescribed by California Administrative Code Title 23, Waters, Division 3, Chapter 16, Article 5, Section 2652.d.

SECOND QUARTER 1997 ACTIVITIES

Station Renovation: As discussed during your April 3, 1997 telephone conversation with Paul Waite (Cambria), the Shell service station at 3420 San Pablo Avenue, Oakland, California is undergoing building renovations. The facility is not currently operational, but it will be used as a service station when the renovations are completed. We will inform you when the renovations are completed or if the plans for this facility change.

Ground Water Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California measured ground water depths and collected water samples from the site wells (Figure 1). The Blaine report, describing these sampling activities and presenting the analytic results, is included as Attachment A. Cambria summarized separate-phase hydrocarbon removal (Table 1), calculated ground water elevations (Table 2), compiled the analytic data (Table 3), and prepared a ground water elevation contour map (Figure 1).

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
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OAKLAND,
CA 94608
PH: (510) 420-0700
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CAMBRIA

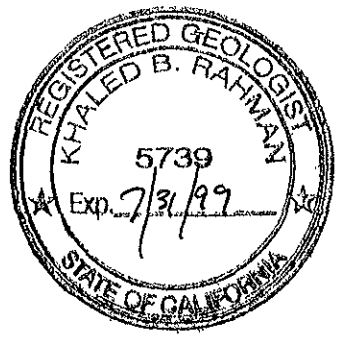
ANTICIPATED THIRD QUARTER 1997 ACTIVITIES

Blaine will gauge ground water elevations, check for separate-phase hydrocarbons, and sample selected monitoring wells. Building renovations will continue. Cambria will submit a report presenting a summary of activities for the upcoming quarter.

CLOSING

We appreciate the opportunity to work with you on this project. Please call if you have any questions.

Sincerely,
Cambria Environmental Technology, Inc.



Khaled B. Rahman, R.G., C.H.G.
Senior Geologist

Attachments: A - Blaine Quarterly Ground Water Monitoring Report

cc: A.E.(Alex) Perez, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524

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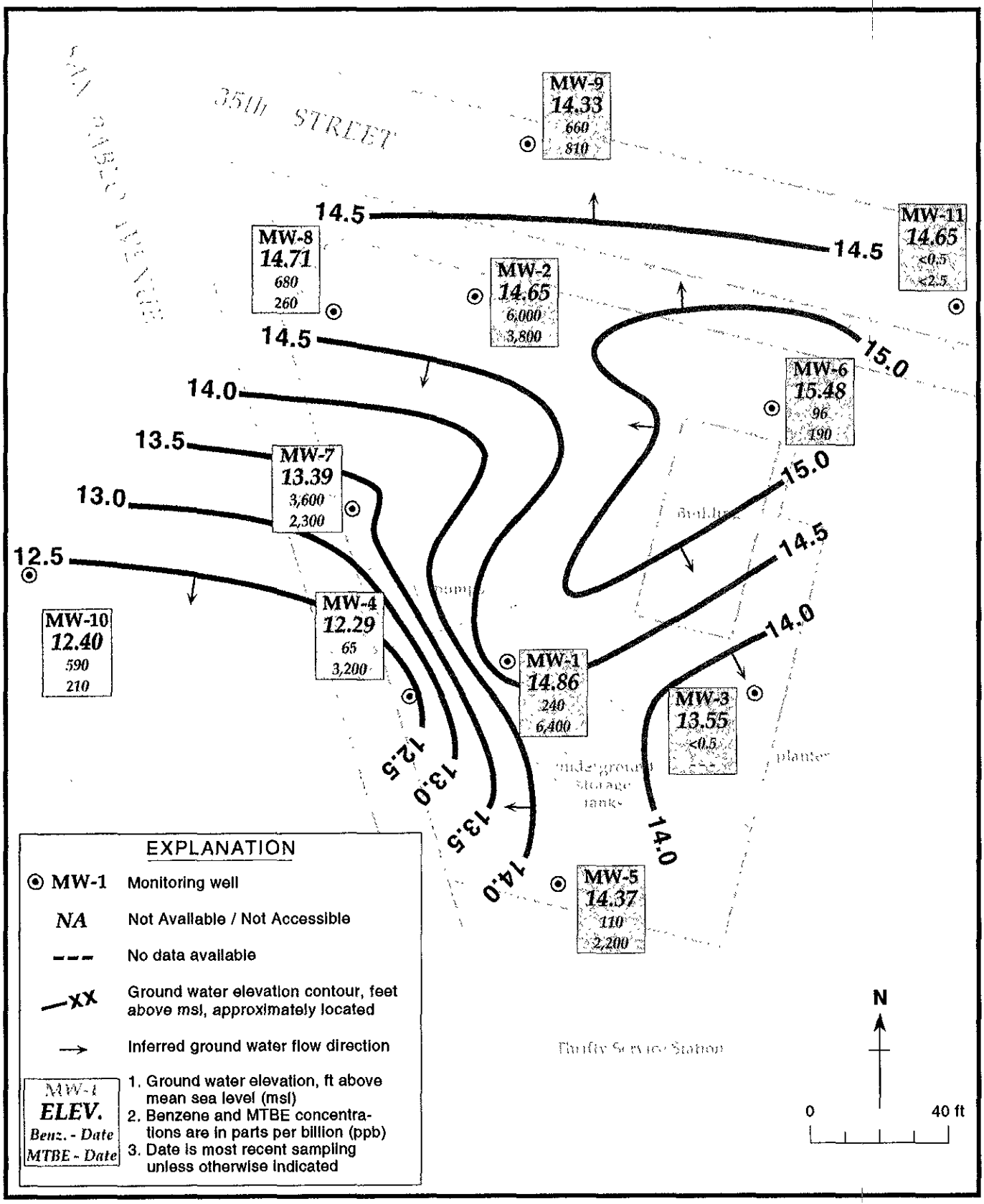

Figure 1. Ground Water Elevation Contours - April 1, 1997 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

Table 1. **Separate-Phase Hydrocarbon Removal** - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

Well ID	Date	Separate-Phase Hydrocarbon Thickness (ft)	Separate-Phase Hydrocarbons Removed (lbs)	Cumulative Separate-Phase Hydrocarbons Removed (lbs)
MW-1	10/23/91	0.01	---	---
	05/04/92	<0.01	---	---
	10/12/92	0.09	---	---
	01/12/93	0.02	3.12	3.12
	04/06/93	<0.01	0.78	3.90
	07/12/93	0.01	0.18	4.08
	10/13/93	0.01	0.06	4.14
	01/20/94	0.01	0.03	4.17
	04/03/94	0.02	0.12	4.29
MW-2	10/12/92	0.03	---	---
	01/12/93	0.01	1.56	1.56
	04/06/93	<0.01	0.78	2.34
	04/03/94	<0.01	0.03	2.37
MW-4	10/12/92	0.78	---	---
	01/12/93	1.0	---	---
	04/06/93	0.95	---	---
	07/12/93	0.03	6.36	6.36
	10/13/93	0.12	0.78	7.14
	01/20/94	0.02	0.03	7.17
	04/13/94	0.01	0.12	7.29
	10/27/94	0.03	0.79	8.08
	01/03/95	0.01	0.16	8.24
	04/13/95	0.03	0.16	8.40
MW-5	10/12/92	0.01	---	---
	01/12/93	<0.01	---	---
	10/13/93	0.03	---	---
	01/20/94	0.01	---	---
	04/13/94	0.01	0.03	0.06
MW-6	10/12/92	0.48	---	---
	01/12/93	<0.01	---	---
	10/13/93	0.2	---	---
	01/20/94	0.02	---	---
	04/13/94	0.01	0.03	0.03
	07/19/94	0.07	0.03	0.06
	10/27/94	0.11	1.43	1.49
	01/03/95	0.02	0.12	1.61
	04/13/95	0.02	0.13	1.74

Table 1. **Separate-Phase Hydrocarbon Removal** - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

Well ID	Date	Separate-Phase Hydrocarbon Thickness (ft)	Separate-Phase Hydrocarbons Removed (lbs)	Cumulative Separate-Phase Hydrocarbons Removed (lbs)
MW-7	01/20/94	0.05	---	---
	04/13/94	0.16	0.66	0.66
	07/19/94	0.20	0.04	0.70
	10/27/94	0.04	1.11	1.81
	01/03/95	0.02	0.16	1.97
	04/13/95	0.02	0.16	2.13
	10/31/95	0.04	0.80	2.93
	01/17/96	0.04	0.09	3.02
	04/10/96	0.05	0.00	3.02
	07/03/96	0.03	0.00	3.02
	10/17/96	0.02	0.16	3.18
	Total Separate-Phase Hydrocarbons Removed			**20.01**

Table 2. **Ground Water Elevations** - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl)[a]
MW-1	08/06/91	21.28	10.86	---	10.43
	10/23/91		11.05	0.01	10.24
	01/28/92		10.84	---	10.44
	05/04/92		9.42	<0.01	11.86
	07/13/92		11.36	---	9.92
	10/12/92		13.14	0.09	8.21
	01/12/93		7.52	0.02	13.78
	04/06/93		7.13	<0.01	14.16
	07/12/93		11.02	0.01	10.27
	10/13/93		12.18	0.01	9.11
	01/20/94		9.18	0.01	12.10
	04/13/94		8.72	0.02	12.58
	07/19/94		8.76	---	12.52
	10/27/94		10.49	---	10.79
	01/03/95		6.15	---	15.13
	04/13/95		5.24	---	16.04
	06/30/95		7.24	---	14.04
	10/11/91		9.48	---	11.80
	01/17/96		6.48	---	14.80
	04/10/96		5.38	---	15.90
	07/30/96		7.61	---	13.67
	10/17/96		8.66	---	12.62
	01/22/97		5.00	---	16.28
	04/01/97		**6.42**		**14.86**
MW-2	08/06/91	21.56	9.72	---	11.84
	10/23/91		10.03	---	11.53
	01/28/92		8.78	---	12.78
	05/04/92		7.58	---	13.98
	07/13/92		9.63	---	11.93
	10/12/92		11.66	0.03	9.92
	01/12/93		7.13	0.01	14.44
	04/06/93		6.40	<0.01	15.17
	07/12/93		8.75	---	12.81
	10/13/93		10.28	---	11.28
	01/20/94		---	---	---
	04/13/94		7.35	<0.01	14.22
	07/19/94		8.24	---	13.32
	10/27/94		10.26	---	13.32
	01/03/95		6.44	---	15.12
	04/13/95		5.89	---	15.67
	06/30/95		7.41	---	14.15
	10/11/95		8.02	---	13.54
	01/17/96		7.42	---	14.14

Table 2. **Ground Water Elevations** - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl)[a]
	04/10/96		6.91	---	14.65
	07/30/96		7.63	---	13.93
	10/17/96		8.28	---	13.29
	01/22/97		7.09	---	14.47
	04/01/97		**6.91**	**---**	**14.65**
MW-3	08/06/91	21.78	11.18	---	10.60
	10/23/91		11.69	---	10.09
	01/28/92		9.99	---	11.79
	05/04/92		9.46	---	12.32
	07/13/92		11.29	---	10.49
	10/12/92		13.10	---	8.68
	01/12/93		7.32	---	14.46
	04/06/93		7.44	---	14.34
	07/12/93		10.62	---	11.16
	10/13/93		12.05	---	9.73
	01/20/94		9.62	---	12.16
	04/13/94		9.15	---	12.63
	07/19/94		10.13	---	11.65
	10/27/94		11.66	---	10.12
	01/03/95		6.89	---	14.89
	04/13/95		6.79	---	14.99
	06/30/95		8.94	---	12.84
	10/11/95		10.62	---	11.16
	01/17/96		7.18	---	14.60
	04/10/96		6.76	---	15.02
	07/30/96		9.04	---	12.74
	10/17/96		9.04	---	12.74
	01/22/97		5.03	---	16.75
	04/01/97		**8.23**	**---**	**13.55**
MW-4	08/06/91	20.31	10.57	---	9.74
	10/23/91		10.46	---	9.85
	01/28/92		9.54	---	10.77
	05/04/92		8.33	---	11.98
	07/13/92		9.87	---	10.44
	10/12/92		12.43	0.78	8.50
	01/12/93		7.12	1.0	13.99
	04/06/93		7.23	0.95	13.84
	07/12/93		10.08	0.03	10.25
	10/13/93		11.35	0.12	9.06
	01/20/94		9.06	0.02	11.26
	04/13/94		8.58	0.01	11.74
	07/19/94		9.71	---	10.60

Table 2. **Ground Water Elevations** - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl)[a]
	10/27/94		10.60	0.03	9.73
	01/03/95		5.49	0.01	14.83
	04/13/95		6.53	0.03	13.80
	06/30/95		9.57	---	10.74
	10/11/95		10.30	---	10.01
	01/17/96		6.68	---	13.63
	04/10/96		7.90	---	12.41
	07/30/96		8.73	---	11.58
	10/17/96		9.97	---	10.34
	01/22/97		5.26	---	15.05
	04/01/97		**8.02**	**---**	**12.29**
MW-5	08/06/91	20.91	10.23	---	10.68
	10/23/91		10.89	---	10.02
	01/28/92		8.45	---	12.46
	05/04/92		8.05	---	12.86
	07/13/92		10.00	---	10.91
	10/12/92		11.83	0.01	9.09
	01/12/93		6.10	<0.01	14.81
	04/06/93		6.18	---	14.73
	07/12/93		9.59	---	11.32
	10/13/93		10.80	0.03	10.13
	01/20/94		7.42	0.01	13.49
	04/13/94		7.05	0.01	13.87
	07/19/94		8.57	---	12.34
	10/27/94		10.14	---	10.77
	01/03/95		5.84	---	15.07
	04/13/95		5.28	---	15.63
	06/30/95		7.43	---	13.48
	10/11/95		8.90	---	12.01
	01/17/96		6.40	---	14.51
	04/10/96		5.70	---	15.21
	07/30/96		7.71	---	13.20
	10/17/96		9.04	---	11.87
	01/22/97		4.85	---	16.06
	04/01/97		**6.54**	**---**	**14.37**
MW-6	08/06/91	22.32	10.61	---	11.71
	10/23/91		11.68	---	10.64
	01/28/92		8.90	---	13.42
	05/04/92		8.01	---	14.31
	07/13/92		10.77	---	11.55
	10/12/92		13.36	0.48	9.34
	01/12/93		6.40	<0.01	15.92

Table 2. **Ground Water Elevations** - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl)[a]
	04/06/93		5.93	---	16.39
	07/12/93		10.25	---	12.07
	10/13/93		12.28	0.2	10.20
	01/20/94		9.14	0.02	13.20
	04/13/94		7.67	0.01	14.66
	07/19/94		10.07	0.07	12.31
	10/27/94		11.84	0.11	10.57
	01/03/95		7.80	0.02	14.54
	04/13/95		5.77	0.02	16.57
	06/30/95		7.78	---	14.54
	10/11/95		10.06	---	12.26
	01/17/96		6.91	---	15.41
	04/10/96		5.92	---	16.40
	07/30/96		8.97	---	13.35
	10/17/96		9.87	---	12.45
	01/22/97		4.43	---	17.89
	04/01/97		**6.84**	**---**	**15.48**
MW-7	08/06/91	20.36	8.00	---	12.36
	10/23/91		8.16	---	12.20
	01/28/92		7.11	---	13.25
	05/04/92		6.47	---	13.89
	07/13/92		7.73	---	12.63
	10/12/92		8.68	---	11.68
	01/12/93		6.26	---	14.10
	04/06/93		5.92	---	14.44
	07/12/93		7.27	---	13.09
	10/13/93		9.40	---	10.96
	01/20/94		7.03	0.05	13.37
	04/13/94		6.56	0.16	13.93
	07/19/94		6.91	0.20	13.61
	10/27/94		8.28	0.04	12.11
	01/03/95		6.48	0.02	13.90
	04/13/95		6.54	0.02	13.84
	06/30/95		7.08	---	13.28
	10/11/95		7.88	0.04	12.51
	01/17/96		7.26	0.04	13.13
	04/10/96		6.98	0.05	13.42
	07/30/96		7.34	0.03	13.04
	10/17/96		7.63	0.02	12.75
	01/22/97		6.46	---	13.90
	04/01/97		**6.97**	**---**	**13.39**

Table 2. **Ground Water Elevations** - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl)[a]
MW-8	08/06/91	20.95	9.60	---	11.35
	10/23/91		9.73	---	11.22
	01/28/92		7.72	---	13.23
	05/04/92		6.48	---	14.47
	07/13/92		8.55	---	12.40
	10/12/92		9.97	---	10.98
	01/12/93		6.94	---	14.01
	04/06/93		5.72	---	15.23
	07/12/93		7.65	---	13.30
	10/13/93		8.25	---	12.70
	01/20/94		7.25	---	13.70
	04/13/94		7.12	---	13.83
	07/19/94		7.43	---	13.52
	10/27/94		7.55	---	13.40
	01/03/95		6.04	---	14.91
	04/13/95		5.04	---	15.91
	06/30/95		5.72	---	15.23
	10/11/95		7.06	---	13.89
	01/17/96		5.84	---	15.11
	04/10/96		5.03	---	15.92
	07/30/96		6.36	---	14.59
	10/17/96		5.94	---	15.01
	01/22/97		5.93	---	15.02
	04/01/97		6.24	---	14.71
MW-9	08/06/91	21.19	10.33		10.86
	10/23/91		11.13	---	10.06
	01/28/92		9.02	---	12.17
	05/04/92		7.67	---	13.52
	07/13/92		10.26	---	10.93
	10/12/92		12.19	---	9.0
	01/12/93[b]		---	---	---
	04/06/93[b]		---	---	---
	07/12/93[b]		---	---	---
	10/13/92		11.17	---	10.02
	01/20/94		8.03	---	13.16
	04/13/94		7.81	---	13.38
	07/19/94		8.96	---	12.23
	10/27/94		11.00	---	10.19
	01/03/95		6.60	---	14.59
	04/13/95		6.73	---	14.46
	06/30/95		7.32	---	13.87
	10/11/95		8.10	---	13.09
	01/17/96		5.75	---	15.44

Table 2. **Ground Water Elevations** - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl)[a]
	04/10/96		5.17	---	16.02
	07/30/96		8.10	---	13.09
	10/17/96		9.12	---	12.07
	01/22/97		4.72	---	16.47
	04/01/97		**6.86**	**---**	**14.33**
MW-10	10/23/91	19.74	8.57	---	11.17
	01/28/92		7.60	---	12.14
	05/04/92		7.54	---	12.20
	07/13/92		8.59	---	11.15
	10/12/92		10.23	---	9.51
	01/12/93[b]		---	---	---
	04/06/93		6.70	---	13.04
	07/12/93[b]		8.05	---	11.69
	10/13/93		8.25	---	11.49
	01/20/94		7.20	---	12.54
	04/13/94		7.57	---	12.17
	07/19/94		8.18	---	11.56
	10/27/94		8.68	---	11.06
	01/03/95		6.86	---	12.88
	04/13/95		6.91	---	12.83
	06/30/95		7.61	---	12.13
	10/11/95		---	---	---
	01/17/96		7.00	---	12.74
	07/30/96[b]		---	---	---
	10/17/96		---	---	---
	01/22/97		6.68	---	13.06
	04/01/97		**7.34**	**---**	**12.40**
MW-11	10/23/91	22.06	14.00	---	8.06
	01/28/92		8.74	---	3.32
	05/04/92		8.29	---	13.77
	07/13/92		10.50	---	11.56
	10/12/92		12.40	---	9.66
	01/12/93[b]		---	---	---
	04/06/93[b]		---	---	---
	07/12/93[b]		---	---	---
	10/13/93		11.47	---	10.59
	01/20/94		9.09	---	12.97
	04/13/94		8.02	---	14.04
	07/19/94		9.82	---	12.24
	10/27/94		11.66	---	10.40
	01/03/95		6.15	---	15.91
	04/13/95		6.00	---	16.06

Table 2. **Ground Water Elevations** - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl)[a]
	06/30/95		8.31	---	13.75
	10/11/95		10.30	---	11.76
	01/17/96		6.45	---	15.61
	04/10/96		6.05	---	16.01
	07/30/96		8.92	---	13.14
	10/17/96		9.24	---	12.82
	01/22/97		5.12	---	16.94
	04/01/97		**7.41**	**---**	**14.65**

Notes and Abbreviations:

a = When separate-phase hydrocarbons are present ground water elevation is adjusted using the relation: Ground Water Elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).
b = Well inaccessible, covered by construction debris.
--- = Not measured/not available.
msl = Mean sea level

Table 3. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue , Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO
			<----------			(µg/L)		---------->	(mg/l)
MW-1	08/06/91[SPH]	10.86	----	----	----	----	----	----	----
	10/23/91	11.05	32,000	2,700	360	550	3,700	----	----
	01/28/92	10.84	14,000	1,000	106	450	1,600	----	----
	05/05/92	9.42	98,000	11,000	1,200	3,500	18,000	----	----
	07/13/92	11.36	11,000	1,100	130	740	1,300	----	----
	10/12/92[SPH]	13.14	----	----	----	----	----	----	----
	01/12/93[SPH]	7.52	----	----	----	----	----	----	----
	04/06/93[SPH]	7.13	----	----	----	----	----	----	----
	07/12/93[SPH]	11.02	----	----	----	----	----	----	----
	10/13/93[SPH]	12.18	----	----	----	----	----	----	----
	01/20/94[SPH]	9.18	----	----	----	----	----	----	----
	04/13/94[SPH]	8.72	----	----	----	----	----	----	----
	07/19/94	8.76	17,000	420	140	530	1,300	----	----
	10/27/94	10.49	23,000	1,200	130	990	960	----	----
	01/03/95	6.15	31,000	610	160	1,200	5,000	----	----
	04/13/95	5.24	20,000	340	42	680	2,900	----	----
	06/3095	7.24	16,000	450	62	460	1,200	----	----
	10/11/95	9.48	8,400	660	47	510	850	8,000	----
	10/13/95	----	7,400	730	54	490	1,100	8,200	----
	01/17/96	6.48	24,000	570	110	820	2,900	15,000	----
	04/10/96	5.38	20,000	120	11	420	1,400	15,000	----
	07/30/96	7.61	7,900	240	22	170	300	12,000	----
	10/17/96	8.66	6,600	1,000	20	120	130	10,000	1.4
	01/22/97	5.00	13,000	170	<50	330	1,200	18,000	1.6
	04/01/97	**6.42**	**7,900**	**240**	**26**	**130**	**200**	**6,400**	**1.4**
MW-2	08/06/91	9.72	50,000	15,000	----	2,700	13,000	----	----
	10/23/91	10.03	120,000	11,000	1,400	3,500	19,000	----	----
	01/28/92	8.78	49,000	7,400	800	1,800	8,300	----	----
	05/05/92	7.58	52,000	12,000	1,100	2,200	12,000	----	----
	07/13/92	9.63	47,000	15,000	2,400	4,500	16,000	----	----
	10/12/92[SPH]	11.66	----	----	----	----	----	----	----
	01/12/93[SPH]	7.13	----	----	----	----	----	----	----
	04/06/93[SPH]	6.40	----	----	----	----	----	----	----
	07/12/93	8.75	59,000	12,000	950	2,400	11,000	----	----
	10/13/93	10.28	54,000	14,000	1,200	3,700	22,000	----	----
	01/20/94	----	----	----	----	----	----	----	----
	04/13/94	7.35	79,000	9,400	740	2,100	12,000	----	----
	04/13/94[dup]	7.35	110,000	11,000	710	2,400	13,000	----	----
	07/19/94	8.24	63,000	13,000	810	1,900	13,000	----	----
	07/19/94[dup]	8.24	12,000	12,000	140	340	12,000	----	----
	10/27/94	10.26	64,000	8,800	480	2,100	10,000	----	----
	01/03/95	6.44	67,000	9,800	720	2,800	11,000	----	----
	01/03/95[dup]	6.44	58,000	9,700	620	2,700	12,000	----	----
	04/13/95	5.89	83,000	10,000	490	2,600	13,000	----	----
	04/13/95[dup]	5.89	74,000	9,500	350	2,100	11,000	----	----
	06/30/95	7.41	65,000	12,000	1,800	2,400	12,000	----	----
	10/11/95	8.02	68,000	8,800	840	3,000	13,000	1,400	----
	01/17/96	7.42	79,000	12,000	640	2,700	14,000	2,200	----
	01/17/96[dup]	7.42	78,000	12,000	920	2,500	12,000	2,500	----
	04/10/96	6.91	84,000	7,200	310	1,700	7,800	2,900	----
	07/30/96	7.63	26,000	6,800	210	1,300	5,500	4,500	----
	10/17/96	8.27	46,000	9,800	340	2,000	6,500	4,900	1.8
	01/22/97	7.09	52,000	6,200	220	1,400	6,600	3,000	1.9

Table 3. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue , Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO (mg/l)
			<----------(µg/L)---------->						
	01/22/97[dup]	7.09	54,000	6,100	230	1,400	6,500	2,600	1.9
	04/01/97	**6.91**	**69,000**	**6,000**	**380**	**2,400**	**11,000**	**3,800**	**2**
MW-3	08/06/91	11.18	430	8	1	4	15	----	----
	10/23/91	11.69	390	2.10	<0.3	0.48	2	----	----
	01/28/92	9.99	190	<0.5	<0.5	<0.5	<0.5	----	----
	05/04/92	9.46	190	<1	<1	<1	0.71	----	----
	07/20/92	11.29	200[a]	<0.5	<0.5	<0.5	<0.5	----	----
	10/12/92	13.10	180[a]	<0.5	<0.5	<0.5	<0.5	----	----
	01/12/93	7.32	180	<0.5	2.3	0.9	5.6	----	----
	01/12/93[dup]	7.32	260	<0.5	<0.5	<0.5	<0.5	----	----
	04/06/93	7.44	280	<0.5	<0.5	<0.5	<0.5	----	----
	07/12/93	10.62	310[a]	<0.5	<0.5	<0.5	<0.5	----	----
	10/13/93	12.05	150	<0.5	<0.5	<0.5	<0.5	----	----
	01/20/94	9.62	180	<0.5	<0.5	<0.5	<0.5	----	----
	04/13/94	9.15	270	<0.5	<0.5	<0.5	<0.5	----	----
	07/19/94	10.13	190*	<0.5	<0.5	<0.5	<0.5	----	----
	10/27/94	11.66	160*	<0.5	<0.5	<0.5	<0.5	----	----
	01/03/95	6.89	100*	<0.5	<0.5	<0.5	<0.5	----	----
	04/13/95	6.79	120*	<0.5	<0.5	<0.5	<0.5	----	----
	06/30/95	8.94	180*	<0.5	<0.5	<0.5	<0.5	----	----
	10/11/95	10.62	150	2.2	<0.5	<0.5	<0.5	2.3	----
	01/17/96	7.18	120	<0.5	<0.5	<0.5	<0.5	7.8	----
	04/10/96	6.76	160	<0.5	<0.5	<0.5	<0.5	12	----
	07/30/96	9.04	57	<0.5	<0.5	<0.5	<0.5	<2.5	----
	10/17/96	9.04	<50	<0.5	<0.5	<0.5	<0.5	<2.5	2.0
	01/22/97	5.03	<50	<0.5	<0.5	<0.5	<0.5	3.7	2.4
	04/01/97	**8.23**	**71**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<5**	**1.6**
MW-4	08/06/91	10.57	1,300	28	18	68	150	----	----
	10/23/91	10.46	1,900	97	6.10	38	77	----	----
	01/28/92	9.54	200	7.60	<0.5	3	3.30	----	----
	05/04/92	8.33	690	98	3	13	<1	----	----
	07/13/92	9.87	1,500	140	2.90	17	12	----	----
	07/13/92[dup]	9.87	870	95	1.90	10	7.10	----	----
	10/12/92[SPH]	12.43	----	----	----	----	----	----	----
	01/12/93[SPH]	7.12	----	----	----	----	----	----	----
	04/06/93[SPH]	7.23	----	----	----	----	----	----	----
	07/12/93[SPH]	10.08	----	----	----	----	----	----	----
	10/13/93[SPH]	11.35	----	----	----	----	----	----	----
	01/20/94[SPH]	9.06	----	----	----	----	----	----	----
	04/13/84[SPH]	8.58	----	----	----	----	----	----	----
	07/18/94	9.71	12,000	230	43	230	660	----	----
	10/27/94[SPH]	10.60	----	----	----	----	----	----	----
	01/03/95[SPH]	5.49	----	----	----	----	----	----	----
	04/13/95[SPH]	6.53	----	----	----	----	----	----	----
	06/30/95	9.57	7,400	140	<0.5	160	350	----	----
	10/11/95	10.30	3,000	29	10	100	82	9,700	----
	01/17/96	6.68	9,700	190	<0.5	190	410	4,500	----
	04/10/96	7.90	2,800	16	<0.5	22	50	6,100	----
	07/30/96	8.73	1,600	68	<12	58	39	8,500	2.8
	10/17/96	7.63	4,800	120	<25	150	96	11,000	2.8
	01/22/97	5.26	12,000	83	<20	170	240	4,300	2.6
	04/01/97	**8.02**	**4,800**	**65**	**<5.0**	**81**	**93**	**3,200**	**2.4**

Table 3. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue , Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO (mg/l)
			<----------(µg/L)---------->						
MW-5	08/06/91	10.23	9,100	210	27	240	660	----	----
	10/23/91	10.89	12,000	92	18	230	450	----	----
	01/28/92	8.45	3,300	130	10	180	220	----	----
	05/04/92	8.05	3,900	95	<12.5	260	120	----	----
	07/13/92	10.00	4,100	180	12	250	73	----	----
	10/12/92 SPH	11.83	----	----	----	----	----	----	----
	01/12/93 SPH	6.10	----	----	----	----	----	----	----
	04/06/93	6.18	6,200	71	<0.5	53	150	----	----
	07/12/93	9.59	3,400	130	<0.5	170	130	----	----
	10/13/93 SPH	10.80	----	----	----	----	----	----	----
	01/20/94 SPH	7.42	----	----	----	----	----	----	----
	04/13/94 SPH	7.05	----	----	----	----	----	----	----
	07/19/94	8.57	11,000	180	13	180	260	----	----
	10/27/94	10.14	6,900	82	<5	210	1110	----	----
	01/03/95	5.84	12,000	110	46	790	510	----	----
	04/13/95	5.28	10,000	61	<20	330	140	----	----
	06/30/95	7.43	12,000	180	8.60	440	340	----	----
	10/11/95	8.90	11,000	<50	<50	440	340	5,100	----
	10/11/96 dup	8.90	11,000	95	<50	440	330	660	----
	01/17/96	6.40	82,000	330	120	960	1,400	820	----
	04/10/96	5.70	23,000	<50	<50	360	190	770	----
	04/10/96 dup	5.70	19,000	84	<50	430	200	590	----
	07/30/96	7.71	38,000	3,000	<100	1,100	2,600	560	----
	10/17/96	9.04	13,000	36	<10	210	160	720	1.4
	10/17/96 dup	9.04	11,000	75	<10	180	150	450	1.4
	01/22/97	4.85	20,000	63	<50	380	390	650	1.6
	04/01/97	**6.54**	**16,000**	**110**	**<50**	**390**	**320**	**2,200**	**1.4**
MW-6	08/06/91	10.61	28,000	1,400	200	1,300	4,200	----	----
	10/23/91	11.68	53,000	1,400	230	1,800	6,700	----	----
	01/28/92	8.90	87,000	1,200	470	2,000	6,600	----	----
	05/05/92	8.01	230,000	<500	<500	3,200	11,000	----	----
	07/13/92	10.77	2,700,000	<2,500	3,500	14,000	36,000	----	----
	10/12/92 SPH	8.68	----	----	----	----	----	----	----
	01/12/93 SPH	6.40	----	----	----	----	----	----	----
	04/06/93	5.93	320,000	2,500	14,000	980	14,000	----	----
	07/12/93	10.25	31,000	1,100	4,500	150	4,500	----	----
	07/12/93 dup	10.25	25,000	1,200	4,800	270	4,800	----	----
	10/13/93 SPH	12.28	----	----	----	----	----	----	----
	01/20/94 SPH	9.14	----	----	----	----	----	----	----
	04/13/94 SPH	7.67	----	----	----	----	----	----	----
	07/19/94 SPH	10.07	----	----	----	----	----	----	----
	10/27/94 SPH	11.84	----	----	----	----	----	----	----
	01/03/95 SPH	7.80	----	----	----	----	----	----	----
	04/13/95 SPH	5.77	----	----	----	----	----	----	----
	06/30/95	7.78	1,100,000	6,600	6,100	12,000	29,000	----	----
	10/11/95	10.06	30,000	130	<50	1,400	4,200	710	----
	01/17/96	6.91	450,000	510	1,400	2,700	11,000	630	----
	04/10/96	5.92	22,000	47	<10	350	860	<50	----
	07/30/96	8.97	38,000	3,000	<100	1,100	2,600	560	----
	07/30/96 dup	8.97	38,000	450	100	1,000	3,100	800	----
	10/17/96 SPH	9.87	34,000	470	<100	1,300	3,900	<500	1.0
	01/22/97	4.43	26,000	<100	<100	600	1,700	<500	1.3
	04/01/97	**6.84**	**30,000**	**96**	**33**	**840**	**2,600**	**190**	**1.4**

Table 3. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue , Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO (mg/l)
			<----------			(µg/L)		---------->	
MW-7	08/06/91	8.00	13,000	4,300	76	770	730	----	----
	10/23/91	8.16	18,000	3,200	31	660	770	----	----
	01/28/92	7.11	5,000	1,200	<10	220	54	----	----
	05/05/92	6.47	9,500	3,100	72	620	880	----	----
	07/13/92	7.73	20,000	4,200	130	1,600	1,100	----	----
	10/12/92	9.97	16,000	2,500	170	560	170	----	----
	01/12/93	6.26	15,000	2,300	<50	690	440	----	----
	04/06/93	5.92	26,000	5,400	<0.5	1,200	3,000	----	----
	04/06/93[dup]	5.92	21,000	5,200	180	1,200	3,000	----	----
	07/12/93	7.27	10,000	3,000	100	510	530	----	----
	10/13/93	9.40	59,000	13,000	4,400	4,400	20,000	----	----
	01/20/94[SPH]	7.03	----	----	----	----	----	----	----
	04/13/94[SPH]	6.56	----	----	----	----	----	----	----
	07/19/94[SPH]	6.91	----	----	----	----	----	----	----
	10/27/94[SPH]	8.28	----	----	----	----	----	----	----
	01/03/95[SPH]	6.48	----	----	----	----	----	----	----
	04/13/95[SPH]	6.54	----	----	----	----	----	----	
	06/30/95	7.08	900,000	11,000	8,500	14,000	52,000	----	----
	10/11/95[SPH]	7.88	----	----	----	----	----	----	----
	01/17/96[SPH]	7.26	----	----	----	----	----	----	----
	04/10/96[SPH]	6.98	----	----	----	----	----	----	----
	07/30/96	7.34	----	----	----	----	----	----	----
	10/17/96[SPH]	7.63	---	---	---	---	---	---	---
	01/22/97	6.46	56,000	2,000	520	1,400	8,400	1,800	0.5
	04/01/97	**6.97**	**66,000**	**3,600**	**460**	**2,400**	**10,000**	**2,300**	**1.6**
MW-8	08/06/91	9.60	32,000	3,700	1,100	1,400	6,100	----	----
	10/23/91	9.73	63,000	4,800	1,300	1,300	6,900	----	----
	01/28/92	7.72	32,000	1,900	750	1,400	6,300	----	----
	05/05/92	6.48	180,000	2,200	2,000	2,700	13,000	----	----
	07/13/92	8.55	56,000	4,500	1,500	2,700	9,100	----	----
	10/12/92	9.97	34,000	2,400	550	1,400	6,400	----	----
	10/12/92[dup]	9.97	34,000	3,100	700	1,500	7,200	----	----
	01/12/93	6.94	110,000	2,100	1,200	2,400	12,000	----	----
	04/06/93	5.72	38,000	2,500	840	1,100	4,900	----	----
	07/12/93	7.65	27,000	2,800	990	1,200	5,300	----	----
	10/13193	8.25	32,000	3,300	1,300	1,600	8,400	----	----
	10/13/93[dup]	8.25	47,000	3,200	1,300	1,600	8,500	----	----
	01/20/94	7.25	78,000	1,900	670	1,300	6,600	----	----
	01/20/94[dup]	7.25	60,000	1,700	680	1,100	5,500	----	----
	04/13/94	7.12	41,000	1,300	720	1,200	6,000	----	----
	07/19/94	7.43	140,000	1,800	1,400	2,000	9,000	----	----
	10/27/94	7.55	32,000	1,200	670	1,200	5,700	----	----
	10/27/94[dup]	7.55	42,000	1,100	650	1,100	5,700	----	----
	01/03/95	6.04	38,000	1,000	700	1,500	7,500	----	----
	04/13/95	5.04	31,000	1,200	570	1,000	5,300	----	----
	06/30/95	5.72	110,000	2,000	1,500	2,000	9,700	----	----
	10/11/95	7.06	36,000	170	60	1,300	6,300	510	----
	01/17/96	5.84	38,000	1,000	520	1,100	6,200	950	----
	04/10/96	5.03	54,000	650	260	850	4,700	<250	----
	07/30/96	6.36	33,000	780	330	830	4,200	1,700	----
	10/17/96	5.94	35,000	750	300	1,100	5,000	1,200	1.6
	01/22/97	5.93	25,000	260	78	420	2,400	120	1.8
	04/01/97	**6.24**	**22,000**	**680**	**180**	**550**	**2,500**	**260**	**1.8**

Table 3. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue , Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO (mg/l)
			<----------			(µg/L)		---------->	
MW-9	08/06/91	10.33	11,000	1,700	95	520	1,400	----	----
	10/23/91	11.13	20,000	1,000	47	<0.3	940	----	----
	01/28/92	9.02	3,500	120	<10	280	36	----	----
	05/04/92	7.67	7,700	1,200	<50	380	630	----	----
	07/20/92	10.26	11,000	910	<50	220	1,200	----	----
	10/12/92	12.19	2,100	340	15	77	44	----	
	01/12/93[b]	----	----	----	----	----	----	----	----
	04/06/93[b]	----	----	----	----	----	----	----	----
	07/12/93[b]	----	----	----	----	----	----	----	----
	10/13/93	11.17	2,900	140	<5	<5	120	----	----
	01/20/94	8.03	1,700	380	6.90	150	400	----	----
	04/13/94	7.81	6,000	1,000	<20	450	420	----	----
	07/19/94	8.96	12,000	1,400	<5	740	1,200	----	----
	10/27/94	11.00	10,000	1,200	160	280	860	----	----
	01/03/95	6.60	4,400	680	7.70	180	370	----	----
	04/13/95	6.73	1,700	270	<10	69	170	----	----
	06/30/95	7.32	14,000	2,200	18	900	2,600	----	----
	06/30/95[dup]	7.32	13,000	2,100	17	870	2,500	----	----
	10/11/95	8.10	9,600	35	12	360	980	590	----
	01/17/96	5.75	2,800	150	7.41	54	130	170	----
	04/10/96	5.17	5,200	290	<5	92	220	240	----
	07/30/96	8.1	5,100	960	<10	380	770	670	----
	10/17/96	9.12	15,000	2,100	<25	590	1,300	1,500	2.4
	01/22/97	4.72	5,600	690	<5.0	140	310	620	2.2
	04/01/97	**6.86**	**4,000**	**590**	**<10**	**140**	**200**	**600**	**2.2**
	04/01/97[dup]	**6.86**	**4,800**	**660**	**<25**	**160**	**230**	**810**	**2.2**
MW-10	10/23/91	8.57	27,000	1,600	110	1,800	510	----	----
	01/28/92	7.60	3,800	360	14	170	39	----	----
	05/04/92	7.54	3,000	360	<12.5	140	26	----	----
	07/20/92	8.59	15,000	400	<25	180	67	----	----
	10/12/92	10.23	16,000	320	<50	360	100	----	----
	01/12/93[b]	----	----	----	----	----	----	----	----
	04/06/93	6.70	14,000	370	<0.5	880	210	----	----
	07/12/93	8.05	10,000	440	58	890	220	----	----
	10/13/93	8.25	15,000	1,000	51	810	170	----	----
	01/20/94	7.20	12,000	820	56	1,100	350	----	----
	04/13/94	7.57	18,000	760	36	700	130	----	----
	07/19/94	8.18	24,000	400	2.30	800	22	----	----
	10/27/94	8.68	11,000	360	43	310	89	----	----
	01/03/95	6.86	17,000	770	38	690	160	----	----
	04/13/95	6.91	9,900	650	16	280	40	----	----
	06/30/95	7.61	12,000	750	20	480	130	----	----
	01/17/96	7.00	17,000	870	260	93	830	----	----
	04/10/96	6.80	14,000	470	38	110	370	----	----
	07/30/96	----	----	----	----	----	----	----	----
	10/17/96	---	---	---	---	---	---	---	---
	01/22/97	6.68	10,000	520	<20	64	32	180	3.1
	04/01/97	**7.34**	**11,000**	**590**	**<20**	**53**	**32**	**210**	**2.8**
MW-11	10/23/91	8.06	140	<12	<0.3	0.37	0.56	----	----
	01/28/92	13.32	<50	<0.5	<0.5	<0.5	<0.5	----	----
	05/04/92	13.77	<50	<0.5	<0.5	<0.5	<0.5	----	----
	07/13/92	11.56	140	<0.5	<0.5	<0.5	<0.5	----	----

Table 3. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue , Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO (mg/l)
			<----------		(µg/L)			---------->	
	10/12/92	12.40	75	<0.5	<0.5	<0.5	<0.5	----	----
	01/12/93[p]	----	----	----	----	----	----	----	----
	04/06/93[p]	----	----	----	----	----	----	----	----
	07/12/93[p]	----	----	----	----	----	----	----	----
	10/13/93	11.47	<50	<0.5	<0.5	<0.5	<0.5	----	----
	01/20/94	909	<50	<0.5	<0.5	<0.5	<0.5	----	----
	04/13/94	8.02	<50	<0.5	<0.5	<0.5	<0.5	----	----
	07/19/94	9.82	50	<0.5	<0.5	<0.5	<0.5	----	----
	10/27/94	11.66	60*	<0.5	<0.5	<0.5	<0.5	----	----
	01/03/95	6.15	<50	<0.5	<0.5	<0.5	<0.5	----	----
	04/13/95	6.00	<50	<0.5	<0.5	<0.5	<0.5	----	----
	06/30/95	8.31	70	<0.5	<0.5	<0.5	<0.5	----	----
	10/11/95	10.30	60	53	<0.5	<0.5	0.80	3.0	----
	01/17/96	6.45	<50	<0.5	<0.5	<0.5	<0.5	<2	----
	04/10/96	6.05	<50	<0.5	<0.5	<0.5	<0.5	3.9	----
	07/30/96	8.92	<50	<0.5	<0.5	<0.5	<0.5	<2.5	----
	10/17/96	9.24	3,000	28	23	29	210	76	---
	01/22/97	5.12	<50	<0.5	<0.5	<0.5	<0.5	<2.5	3.7
	04/01/97	7.41	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8
Equipment Blank	07/13/92	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	07/20/92	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	10/12/92	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	04/13/94	----	<50	<0.5	0.67	<0.5	<0.5	----	----
	07/19/94	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	10/27/94	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	01/03/95	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	04/13/95	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	06/30/95	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	10/11/95	----	<50	<0.5	<0.5	<0.5	<0.5	<0.5	----
	01/17/96	----	<50	<0.5	<0.5	<0.5	<0.5	<2	----
	04/01/97	----	<50	<0.50	<0.50	<0.50	<0.50	<2.5	----
Trip Blank	01/28/92	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	05/05/92	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	07/13/92	----	<50	<0.5	<0.5	<0.5	<0.5	----	---
	07/20/92	----	<50	<0.5	<0.5	<0.5	<0.5	----	---
	10/12/92	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	01/12/93	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	04/06/93	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	07/12/93	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	10/13/93	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	01/20/94	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	04/13/94	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	07/19/94	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	10/27/94	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	01/03/95	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	04/13/95	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	06/30/95	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	10/11/95	----	<50	<0.5	<0.5	<0.5	<0.5	<0.5	----
MCLs	-----	----	NE	1	150	700	1,750	NE	----

Table 3. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue , Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO (mg/l)
			<----------(µg/L)---------->						

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
B = Benzene by EPA Method 8020
T = Toluene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
X = Xylenes by EPA Method 8020
MTBE = Methyl tert-Butyl Ether by EPA Method 8020
DO = Dissolved oxygen
NE = Not established
MCLs = California Primary maximum contaminant levels for drinking water (22 CCR 64444)
---- = Not analyzed
< n = Not detected at detection limits of n ppb
dup = Duplicate sample
SPH = Not sampled, separate-phase hydrocarbons detected in well
ppb = Parts per billion
µg/L = Micrograms per liter (ppb)
mg/L = Milligrams per liter

Notes:

a = Concentration reported as gasoline is due to the presence of a discrete hydrocarbon peak that is not indicative of gasoline
b = Not sampled. Well inaccessible
c = Analytic Laboratory noted that MTBE could not be quantified for this sample due to co-eluting compounds.
* = The result for gasoline is an unknown hydrocarbon which consists of a single peak as confirmed by NET Laboratory

BLAINE
TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
(408) 573-7771 FAX
(408) 573-0555 PHONE

April 23, 1997

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

Attn: Alex Perez

Shell WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California

2nd Quarter 1997

Quarterly Groundwater Monitoring Report 970401-X-1

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. Copies of our Sampling Report along with the laboratory's Certified Analytical Report are forwarded to the consultant overseeing work at this site. Submission of the assembled documents to interested regulatory agencies will be made by the designated consultant.

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 573-0555 ext. 201.

Yours truly,

Francis Thie

attachments: Table of Well Gauging Data
Chain of Custody
Field Data Sheets
Certified Analytical Report

cc: Cambria Environmental Technology, Inc.
1144 65th Street, Suite C
Oakland, CA 94608
Attn: Josh Bergstrom

(Any professional evaluations or recommendations will be made by the consultant under separate cover.)

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
MW-1	4/1/97	TOC	–	NONE	–	–	6.42	24.90
MW-2	4/1/97	TOC	SHEEN/ODOR	–	–	–	6.91	19.26
MW-3	4/1/97	TOC	–	NONE	–	–	8.23	27.39
MW-4	4/1/97	TOC	ODOR	NONE	–	–	8.02	25.00
MW-5	4/1/97	TOC	ODOR	NONE	–	–	6.54	24.80
MW-6	4/1/97	TOC	–	NONE	–	–	6.84	19.88
MW-7	4/1/97	TOC	SHEEN/ODOR	–	–	–	6.97	19.80
MW-8	4/1/97	TOC	SHEEN	–	–	–	6.24	20.00
MW-9 *	4/1/97	TOC	ODOR	NONE	–	–	6.86	19.68
MW-10	4/1/97	TOC	–	NONE	–	–	7.34	18.69
MW-11	4/1/97	TOC	–	NONE	–	–	7.41	18.95

* Sample DUP was a duplicate sample taken from well MW-9.

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 970401X1

Date:
Page 1 of 2

Site Address: 3420 San Pablo Ave., Oakland, CA

WIC#: 204-5506-5306

Shell Engineer: R. Jeff Granberry
Phone No.: (510) 675-6168
Fax #: 675-6172

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

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

Comments:

Sampled by: [signature]

Printed Name: Ken Weddingfield

Analysis Required

LAB: Sequoia

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Hold	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
1 mw-1	4/1			W		3						X	H						
2 mw-2																			
3 mw-3																			
4 mw-4																			
5 mw-5																			
6 mw-6																			
7 mw-7																			
8 mw-8																			

CHECK ONE (1) BOX ONLY | CT/DT | TURN AROUND TIME

	CT/DT	TURN AROUND TIME
G.W. Monitoring	[X] 4461	24 hours [ ]
Site Investigation	[ ] 4441	48 hours [ ]
Soil Classify/Disposal	[ ] 4442	15 days [X] (Normal)
Water Classify/Disposal	[ ] 4443	Other [ ] ____
Soil/Air Rem. or Sys. O & M	[ ] 4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M	[ ] 4453	
Other	[ ]	

UST AGENCY: 9704222

Relinquished By (signature)	Printed Name	Date / Time	Received (signature)	Printed Name	Date / Time
[signature]	Ken Weddingfield	4/2/97 2:00	[signature]	Fitcher	4/2/97 2:00
[signature]	Printed Name:	Date 4/2/97 Time 9:22	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature): LDCardenas	Printed Name: LDCardenas	Date: 4-2-97 Time: 1631

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

Rev. 7/1/96

Shell Oil Co. Chain of Custody

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 970401X1

Date:
Page 2 of 2

Site Address: 3420 San Pablo Ave., Oakland, CA

WIC#: 204-5506-5306

Shell Engineer: R. Jeff Granberry — Phone No.: (510) 675-6168 Fax #: 675-6172

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

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

Comments:

Sampled by: Ken Weddington

Printed Name: Ken Weddington Feld

LAB: Sequoia

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	MTBE	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
7 MW-9	4/1			W		3						X	X						
10 MW-10																			
1 MW-11																			
2 DUP																			
3 EB																			

CHECK ONE (1) BOX ONLY — CT/DT — TURN AROUND TIME

G.W. Monitoring	[X] 4441	24 hours [ ]
Site Investigation	[ ] 4441	48 hours [ ]
Soil Classify/Disposal	[ ] 4442	15 days [X] (Normal)
Water Classify/Disposal	[ ] 4443	Other [ ]
Soil/Air Rem. or Sys. O & M	[ ] 4452	
Water Rem. or Sys. O & M	[ ] 4453	
Other	[ ]	

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

UST AGENCY: 9704222

	Printed Name:	Date:	Time:	Received (signature):	Printed Name:	Date:	Time:
Relinquished By (signature):	Ken Weddington Feld	4/2/97	13:06		F Otcher	4/2/97	2:00
Relinquished By (signature):	Printed Name:	Date:	9/2/97	Received (signature):	Printed Name:	Date:	
		Time:				Time:	
Relinquished By (signature):	Printed Name:	Date:		Received (signature):	Printed Name:	Date:	4-2-97
		Time:			LD Cardenas	Time:	1631

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

Rev. 11/1/95

Shell Oil Co. Ch. of Custody

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Project: Shell Oakland/970401X1

Enclosed are the results from samples received at Sequoia Analytical on April 2, 1997. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9704222 -01	LIQUID, MW-1	04/01/97	TPGBMW Purgeable TPH/BTEX
9704222 -02	LIQUID, MW-2	04/01/97	TPGBMW Purgeable TPH/BTEX
9704222 -03	LIQUID, MW-3	04/01/97	TPGBMW Purgeable TPH/BTEX
9704222 -04	LIQUID, MW-4	04/01/97	TPGBMW Purgeable TPH/BTEX
9704222 -05	LIQUID, MW-5	04/01/97	TPGBMW Purgeable TPH/BTEX
9704222 -06	LIQUID, MW-6	04/01/97	TPGBMW Purgeable TPH/BTEX
9704222 -07	LIQUID, MW-7	04/01/97	TPGBMW Purgeable TPH/BTEX
9704222 -08	LIQUID, MW-8	04/01/97	TPGBMW Purgeable TPH/BTEX
9704222 -09	LIQUID, MW-9	04/01/97	TPGBMW Purgeable TPH/BTEX
9704222 -10	LIQUID, MW-10	04/01/97	TPGBMW Purgeable TPH/BTEX
9704222 -11	LIQUID, MW-11	04/01/97	TPGBMW Purgeable TPH/BTEX
9704222 -12	LIQUID, DUP	04/01/97	TPGBMW Purgeable TPH/BTEX
9704222 -13	LIQUID, EB	04/01/97	TPGBMW Purgeable TPH/BTEX

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

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Shell Oakland/970401X1	Sampled: 04/01/97
1680 Rogers Avenue	Sample Descript: MW-1	Received: 04/02/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/10/97
Attention: Fran Thie	Lab Number: 9704222-01	Reported: 04/15/97

QC Batch Number: GC041097BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	7900
Methyl t-Butyl Ether	50	6400
Benzene	10	240
Toluene	10	26
Ethyl Benzene	10	130
Xylenes (Total)	10	200
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	83

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Shell Oakland/970401X1	Sampled: 04/01/97
1680 Rogers Avenue	Sample Descript: MW-2	Received: 04/02/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/10/97
Attention: Fran Thie	Lab Number: 9704222-02	Reported: 04/15/97

QC Batch Number: GC041097BTEX22A
nstrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**5000**	**69000**
Methyl t-Butyl Ether	**250**	**3800**
Benzene	**50**	**6000**
Toluene	**50**	**380**
Ethyl Benzene	**50**	**2400**
Xylenes (Total)	**50**	**11000**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	128

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Shell Oakland/970401X1	Sampled: 04/01/97
1680 Rogers Avenue	Sample Descript: MW-3	Received: 04/02/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/10/97
Attention: Fran Thie	Lab Number: 9704222-03	Reported: 04/15/97

QC Batch Number: GC041097BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**71**
Methyl t-Butyl Ether	**2.5**	**-**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		**C6-C8**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Shell Oakland/970401X1	Sampled: 04/01/97
1680 Rogers Avenue	Sample Descript: MW-4	Received: 04/02/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/10/97
Attention: Fran Thie	Lab Number: 9704222-04	Reported: 04/15/97

QC Batch Number: GC041097BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**4800**
Methyl t-Butyl Ether	**25**	**3200**
Benzene	**5.0**	**65**
Toluene	5.0	N.D.
Ethyl Benzene	**5.0**	**81**
Xylenes (Total)	**5.0**	**93**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Shell Oakland/970401X1	Sampled: 04/01/97
1680 Rogers Avenue	Sample Descript: MW-5	Received: 04/02/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/10/97
Attention: Fran Thle	Lab Number: 9704222-05	Reported: 04/15/97

QC Batch Number: GC041097BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**5000**	**16000**
Methyl t-Butyl Ether	**250**	**2200**
Benzene	**50**	**110**
Toluene	50	N.D.
Ethyl Benzene	**50**	**390**
Xylenes (Total)	**50**	**320**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	117

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Tech Services	Client Proj. ID: Shell Oakland/970401X1	Sampled: 04/01/97
1680 Rogers Avenue	Sample Descript: MW-6	Received: 04/02/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/10/97
Attention: Fran Thie	Lab Number: 9704222-06	Reported: 04/15/97

QC Batch Number: GC041097BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	2000	30000
Methyl t-Butyl Ether	100	190
Benzene	20	96
Toluene	20	33
Ethyl Benzene	20	840
Xylenes (Total)	20	2600
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	104

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Shell Oakland/970401X1
Sample Descript: MW-7
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9704222-07

Sampled: 04/01/97
Received: 04/02/97

Analyzed: 04/10/97
Reported: 04/15/97

QC Batch Number: GC041097BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	66000
Methyl t-Butyl Ether	500	2300
Benzene	100	3600
Toluene	100	460
Ethyl Benzene	100	2400
Xylenes (Total)	100	10000
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	108

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Tech Services	Client Proj. ID: Shell Oakland/970401X1	Sampled: 04/01/97
1680 Rogers Avenue	Sample Descript: MW-8	Received: 04/02/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/11/97
Attention: Fran Thie	Lab Number: 9704222-08	Reported: 04/15/97

QC Batch Number: GC041197BTEX22A
nstrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**5000**	**22000**
Methyl t-Butyl Ether	**250**	**260**
Benzene	**50**	**680**
Toluene	**50**	**180**
Ethyl Benzene	**50**	**550**
Xylenes (Total)	**50**	**2500**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	134 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell Oakland/970401X1	Sampled: 04/01/97
1680 Rogers Avenue	Sample Descript: MW-9	Received: 04/02/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/10/97
Attention: Fran Thie	Lab Number: 9704222-09	Reported: 04/15/97

QC Batch Number: GC041097BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**1000**	**4000**
Methyl t-Butyl Ether	**50**	**600**
Benzene	**10**	**590**
Toluene	10	N.D.
Ethyl Benzene	**10**	**140**
Xylenes (Total)	**10**	**200**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	117

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Tech Services	Client Proj. ID: Shell Oakland/970401X1	Sampled: 04/01/97
1680 Rogers Avenue	Sample Descript: MW-10	Received: 04/02/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/11/97
Attention: Fran Thie	Lab Number: 9704222-10	Reported: 04/15/97

QC Batch Number: GC041197BTEX22A
nstrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**2000**	**11000**
Methyl t-Butyl Ether	**100**	**210**
Benzene	**20**	**590**
Toluene	20	N.D.
Ethyl Benzene	**20**	**53**
Xylenes (Total)	**20**	**32**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	71

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Tech Services	Client Proj. ID: Shell Oakland/970401X1	Sampled: 04/01/97
1680 Rogers Avenue	Sample Descript: MW-11	Received: 04/02/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/10/97
Attention: Fran Thie	Lab Number: 9704222-11	Reported: 04/15/97

QC Batch Number: GC041097BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	83

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Tech Services	Client Proj. ID: Shell Oakland/970401X1	Sampled: 04/01/97
1680 Rogers Avenue	Sample Descript: DUP	Received: 04/02/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/11/97
Attention: Fran Thie	Lab Number: 9704222-12	Reported: 04/15/97

QC Batch Number: GC041197BTEX22A
nstrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**2500**	**4800**
Methyl t-Butyl Ether	**125**	**810**
Benzene	**25**	**660**
Toluene	25	N.D.
Ethyl Benzene	**25**	**160**
Xylenes (Total)	**25**	**230**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Renner
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell Oakland/970401X1	Sampled: 04/01/97
1680 Rogers Avenue	Sample Descript: EB	Received: 04/02/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/10/97
Attention: Fran Thie	Lab Number: 9704222-13	Reported: 04/15/97

QC Batch Number: GC041097BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	88

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell Oakland/970401X1	Received: 04/02/97
1680 Rogers Avenue		
San Jose, CA 95112	Lab Proj. ID: 9704222	Reported: 04/15/97
Attention: Fran Thie		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 17 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

Please note: MTBE could not be quanititated for sample 9704222-03 due to co-eluting compounds.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thle

Client Project ID: Shell Oakland/970401X1
Matrix: Liquid
Work Order #: 9704222 -01-07, -09, -11, -13
Reported: Apr 16, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC041097BTEX22A	GC041097BTEX22A	GC041097BTEX22A	GC041097BTEX22A	GC041097BTEX22A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	970405301	970405301	970405301	970405301	970405301
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/10/97	4/10/97	4/10/97	4/10/97	4/10/97
Analyzed Date:	4/10/97	4/10/97	4/10/97	4/10/97	4/10/97
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.3	9.2	9.5	28	69
MS % Recovery:	93	92	95	93	115
Dup. Result:	9.9	9.8	10	29	71
MSD % Recov.:	99	98	100	97	115
RPD:	6.2	6.3	5.1	3.5	2.9
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK041097	BLK041097	BLK041097	BLK041097	BLK041097
Prepared Date:	4/10/97	4/10/97	4/10/97	4/10/97	4/10/97
Analyzed Date:	4/10/97	4/10/97	4/10/97	4/10/97	4/10/97
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	10	10	10	30	73
LCS % Recov.:	100	100	100	100	122
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Please Note:
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 sample 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.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

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Blaine Tech Services, Inc.	Client Project ID:	Shell Oakland/970401X1
1680 Rogers Avenue	Matrix:	Liquid
San Jose, CA 95112		
Attention: Fran Thie	Work Order #:	9704222-08, -10, -12
		Reported: Apr 16, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC041197BTEX22A	GC041197BTEX22A	GC041197BTEX22A	GC041197BTEX22A	GC041197BTEX22A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	970405302	970405302	970405302	970405302	970405302
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/11/97	4/11/97	4/11/97	4/11/97	4/11/97
Analyzed Date:	4/11/97	4/11/97	4/11/97	4/11/97	4/11/97
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	10	10	9.8	29	71
MS % Recovery:	100	100	98	97	118
Dup. Result:	11	10	10	29	73
MSD % Recov.:	110	100	100	97	122
RPD:	9.5	0.0	2.0	0.0	2.8
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK041197	BLK041197	BLK041197	BLK041197	BLK041197
Prepared Date:	4/11/97	4/11/97	4/11/97	4/11/97	4/11/97
Analyzed Date:	4/11/97	4/11/97	4/11/97	4/11/97	4/11/97
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	10	9.7	9.7	28	70
LCS % Recov.:	100	97	97	93	117
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Please Note:
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 sample 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.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference