CAMBRIA

ENVIRONMENTAL PROTECTION
97 MAY 27 PM 4:47

May 15, 1997

Scott Seery
Alameda County Department of
Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502-6577

Re: **First Quarter 1997 Monitoring Report**
Shell Service Station
1784 150th Avenue
San Leandro, California
WIC #204-6852-1404
Cambria #240-314-106

Dear Mr. Seery:

On behalf of Shell Oil Products Company, 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.

First Quarter 1997 Activities

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 calculated ground water elevations (Table 1), compiled the analytic data (Table 2) and prepared a ground water elevation contour map (Figure 1).

On March 10, 1997, Cambria installed a passive skimmer in well MW-2 to recover separate phase hydrocarbons (SPH) that may accumulate in this well. Blaine removed 80 milliliters (0.13 pounds) of SPH from the skimmer this quarter.

It is our understanding that Weiss Associates, the former site consultant, prepared a Risk Based Corrective Action (RBCA) assessment for the site. The RBCA will be submitted under a separate cover.

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608
PH: (510) 420-0700
FAX: (510) 420-9170

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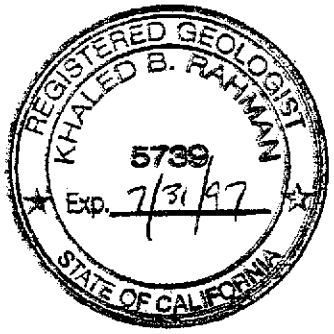
Anticipated Second Quarter 1997 Activities

Blaine will measure ground water depths, collect water samples, and bail accumulated SPH. 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 Ground Water Monitoring Report

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

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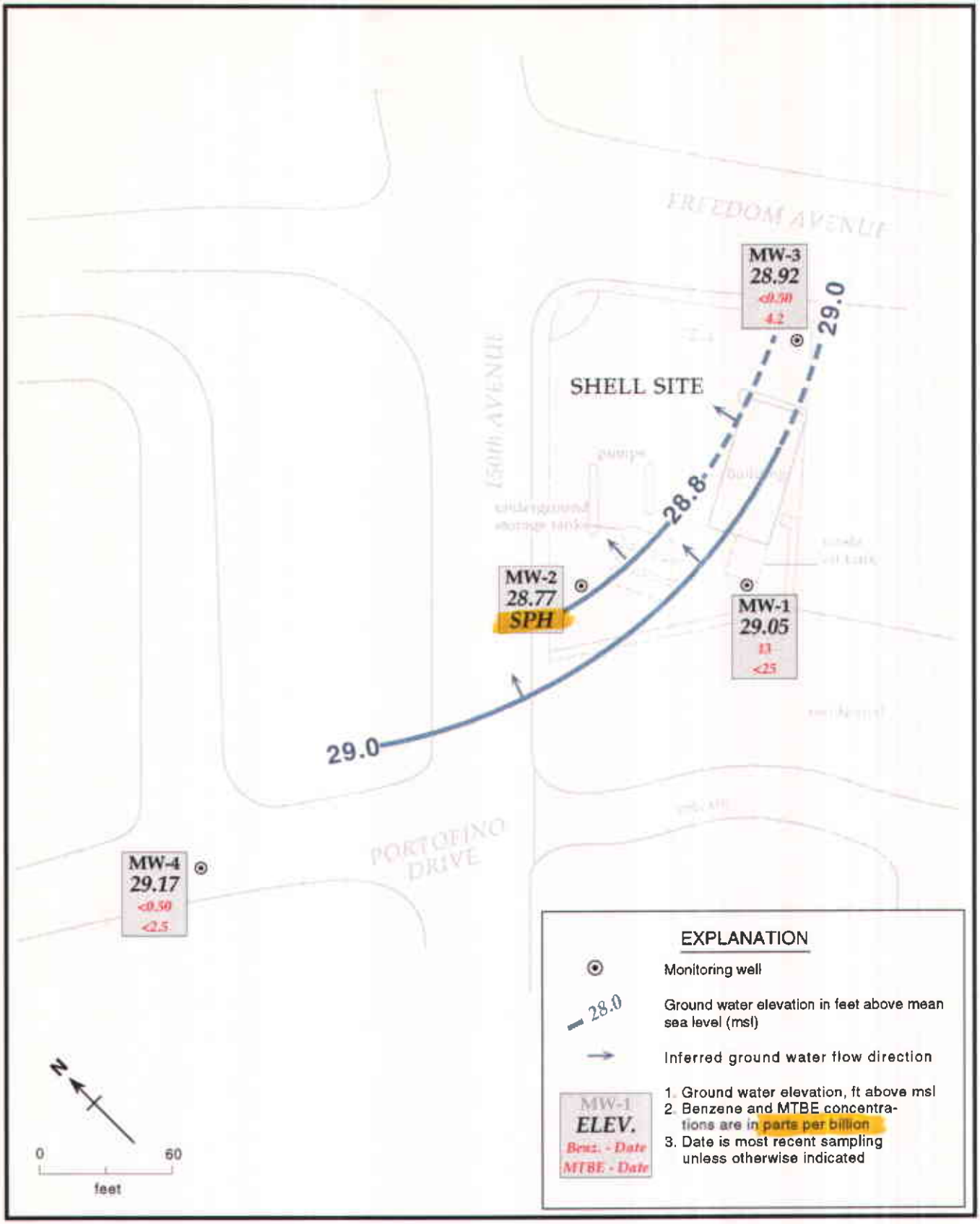

Figure 1 . Ground Water Elevation Contours - March 10, 1997 - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

05/08/97

Table 1. **Ground Water Elevations** - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation[a] (ft above msl)
MW-1	03/08/90	49.13	25.29	---	23.84
	06/12/90		25.85	---	23.28
	09/13/90		27.49	---	21.64
	12/18/90		27.41	---	21.72
	03/07/91		25.79	---	23.34
	06/07/91		25.64	---	23.49
	09/17/91		27.54	---	21.59
	12/09/91		27.81	---	21.32
	02/13/92		25.57	---	23.56
	02/24/92		22.83	---	26.30
	02/27/92		23.09	---	26.04
	03/01/92		23.26	---	25.87
	06/03/92		24.64	---	24.49
	09/01/92		26.74	---	22.39
	10/06/92		27.18	---	21.95
	11/11/92		27.99	---	21.14
	12/04/92		27.14	---	21.99
	01/22/93		20.09	---	29.04
	02/10/93		24.26	---	24.87
	03/03/93		20.50	---	28.63
	05/11/93		21.70	---	27.43
	06/17/93		22.42	---	26.71
	09/10/93		24.11	---	25.02
	12/13/93		23.73	---	25.40
	03/03/94		22.08	---	27.05
	06/06/94		23.10	---	26.03
	09/12/94		25.19	---	23.94
	12/19/94		23.06	---	26.07
	02/28/95		20.90	---	28.23
	03/24/95		18.28	---	30.85
	06/26/95		20.40	---	28.73
	09/13/95		22.62	---	26.51
	12/19/95		22.10	---	27.03
	03/07/96		18.83	0.05	30.34
	06/28/96		21.46	---	27.67
	09/26/96		23.57	0.01	25.57
	12/10/96		21.43	---	27.70
	03/10/97		**20.08**	**---**	**29.05**
MW-2	02/13/92	45.63	22.22	---	23.61
	02/24/92		19.61	---	26.22
	02/27/92		19.92	---	25.91
	03/01/92		21.11	---	24.72
	06/03/92		21.58	---	24.25

Table 1. **Ground Water Elevations** - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation[a] (ft above msl)
	09/01/92		23.46	---	22.37
	10/06/92		23.99	---	21.84
	11/11/92		24.25	---	21.58
	12/04/92		23.89	---	21.94
	01/22/93		17.03	---	28.80
	02/10/93		18.08	---	27.75
	03/03/93		17.28	---	28.55
	05/11/93		18.41	---	27.42
	06/17/93		19.06	---	26.77
	09/10/93		20.88	---	24.95
	12/13/93		20.42	---	25.41
	03/03/94		18.48	---	27.35
	06/06/94		20.26	---	25.57
	09/12/94		21.80	---	24.03
	12/19/94		19.66	---	26.17
	02/28/95		17.51	---	28.32
	03/24/95		14.88	---	30.95
	06/26/95		17.58	---	28.25
	09/13/95		19.28	---	26.55
	12/19/95		18.61	---	27.22
	03/06/96		15.41	---	30.42
	06/28/96		17.84	---	27.99
	09/26/96		19.60	---	26.23
	12/10/96		18.15	0.25	27.48
	03/10/97		**17.02**	**0.20**	**28.77**
MW-3	02/13/92	51.97	27.97	---	24.00
	02/24/92		25.60	---	26.37
	02/27/92		25.88	---	26.09
	03/01/92		26.00	---	25.97
	06/03/92		27.70	---	24.27
	09/01/92		29.46	---	22.51
	10/06/92		30.01	---	21.96
	11/11/92		30.26	---	21.71
	12/04/92		29.93	---	22.04
	01/22/93		22.76	---	29.21
	02/10/93		21.40	---	30.57
	03/03/93		23.08	---	28.89
	05/11/93		24.51	---	27.46
	06/17/93		25.21	---	26.76
	09/10/93		26.95	---	25.02
	12/13/93		26.52	---	25.45
	03/03/94		24.50	---	27.47
	06/06/94		26.33	---	25.64

Table 1. **Ground Water Elevations** - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation[a] (ft above msl)
	09/12/94		27.98	---	23.99
	12/19/94		25.63	---	26.34
	02/28/95		23.45	---	28.52
	03/24/95		21.07	---	30.90
	06/26/95		23.64	---	28.33
	09/13/95		25.40	---	26.57
	12/19/95		24.53	---	27.44
	03/07/96		21.59	0.04	30.41
	06/28/96		23.95	---	28.02
	09/26/96		25.89	---	26.08
	12/10/96		24.22	---	27.75
	03/10/97		**23.05**	**---**	**28.92**
MW-4	03/24/95	40.51	9.16	---	31.35
	06/26/95		12.06	---	28.45
	09/13/95		13.90	---	26.61
	12/19/95		12.90	---	27.61
	03/06/96		9.63	---	30.88
	06/28/96		12.30	---	28.21
	09/26/96		14.12	---	26.39
	12/10/96		12.31	---	28.20
	03/10/97		**11.34**	**---**	**29.17**

Notes and Abbreviations:

a = ground water elevation = top of casing - (0.8 x separate phase hydrocarbons + depth to water).
ft = feet
msl = mean sea level

Table 2. **Analytic Results for Ground Water** - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	B	E	T	X	1,2-DCA	MTBE	DO (mg/L)
			← parts per billion (µg/l) →									
MW-1	03/08/90	25.29	510	120[a]	<10,000	1.5	<0.5	0.8	5.4	12	---	---
	06/12/90	25.85	390	100[a]	<10,000	86	0.7	1.3	6.2	<0.4	---	---
	09/13/90	27.49	100	130[a]	<10,000	56	2.4	0.75	2.8	<0.4[b]	---	---
	12/18/90	27.41	480	<50[a]	<10,000	54	3.3	1.7	3.7	5.3	---	---
	03/07/91	25.79	80	<50[a]	---	266	1.2	<0.5	<1.5	6.7	---	---
	06/07/91	25.64	510	<50[a]	---	130	6.1	3.8	11	7.9	---	---
	09/17/91	27.54	330	120[ac]	---	67	3	<0.5	2.2	6	---	---
	12/09/91	27.81	140[d]	80	---	<0.5	1.7	<0.5	4.7	5.4	---	---
	03/01/92	23.36	<50	<50	---	<0.5	<0.5	<0.5	<0.5	3	---	---
	06/03/92	24.64	1,500	---	---	520	72	180	230	3	---	---
	09/01/92	26.74	130	---	---	16	1.8	1.4	3.4	1.3[e]	---	---
	12/04/92	27.14	150	---	---	360	1.8	0.7	2.1	3.3	---	---
	03/03/93	20.50	<50	---	---	1.5	<0.5	<0.5	<0.5	0.76	---	---
	06/17/93	22.42	1,600	---	---	340	120	120	440	3	---	---
	09/10/93	24.11	2,600	---	---	670	310	340	730	2.3	---	---
	12/13/93	23.73	11,000	---	---	470	380	320	2,300	6.3	---	---
	03/03/94	22.08	16,000	---	---	700	480	690	3,200	---	---	---
	06/06/94	23.10	7,500	---	---	420	200	280	1,000	3.1	---	---
	09/12/94	25.19	1,200	---	---	110	3.3	21	420	2.6	---	---
	12/19/94	23.06	4,600	---	---	470	230	330	1,300	3.7	---	---
	02/28/95	20.90	500	---	---	59	6.8	32	68	5.0	---	---
	06/26/95	20.40	5,500	---	---	740	300	420	1,800	8.6	---	---
	09/13/95	22.62	84,000	---	---	1,900	3,000	2,600	14,000	12	---	---
	12/19/95	22.10	80,000	---	---	660	170	350	18,000	<0.4	---	---
	03/06/96[SPH]	---	---	---	---	---	---	---	---	---	---	---
	06/28/96	21.46	270,000	---	---	2,800	1,000	820	16,000	---	<0.5	---
	06/28/96[dup]	21.46	790,000	---	---	2,200	1,000	780	13,000	---	15,000	---
	09/26/96	23.57	29,000	---	---	1,100	270	260	1,900	9.8	<1,000	---
	09/26/96[dup]	23.57	25,000	---	---	1,200	240	320	1,900	11	<1,000	---
	12/10/96	21.43	13,000	---	---	510	230	240	1,200	16	100	1.0

Table 2. **Analytic Results for Ground Water** - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	B	E	T	X	1,2-DCA	MTBE	DO (mg/L)
			← parts per billion (µg/l) →									
	12/10/96[dup]	21.43	8,400	---	---	420	140	130	680	17	81	1.0
	03/10/97	**20.08**	**4,200**	**---**	**---**	**13**	**16**	**8.8**	**74**	**12**	**<12**	**2.0**
	03/10/97[dup]	**20.08**	**5,100**	**---**	**---**	**12**	**17**	**8.9**	**79**	**11**	**<25**	**2.0**
MW-2	02/24/92	19.61	17,000	2,700[c]	---	6,200	550	1,600	1,900	200	---	---
	03/01/92	21.11	86,000	1,000[c]	---	30,000	2,300	34,000	16,000	82	---	---
	06/03/92	21.58	87,000	---	---	28,000	2,000	18,000	10,000	<50	---	---
	09/01/92	23.46	110,000	---	---	21,000	1,900	13,000	7,800	83[h]	---	---
	12/04/92	23.89	42,000	---	---	15,000	960	2,400	2,900	100	---	---
	03/03/93	17.28	160,000	---	---	36,000	32,000	3,800	21,000	7.7	---	---
	03/03/93[h]	17.28	150,000	---	---	31,000	20,000	3,100	14,000	16	---	---
	06/17/93	19.06	65,000	---	---	34,000	3,200	15,000	11,000	37	---	---
	06/17/93[h]	19.06	62,000	---	---	28,000	2,700	14,000	10,000	36	---	---
	09/10/93[f]	20.88	72,000	---	---	24,000	2,300	16,000	11,000	28.0	---	---
	09/10/93[dup,f]	20.88	71,000	---	---	23,000	2,300	15,000	10,000	27.0	---	---
	12/13/93	20.42	19,000	---	---	5,400	680	4,900	3,100	<0.5	---	---
	12/13/93[dup]		17,000	---	---	6,200	720	5,500	3,500	3.4	---	---
	03/03/94	18.48	110,000	---	---	21,000	2000	24,000	13,000	---	---	---
	03/03/94[dup]	18.48	93,000	---	---	19,000	1,800	22,000	12,000	---	---	---
	06/06/94	20.26	10,000	---	---	1,900	2,500	3,300	13,000	5.8	---	---
	06/06/94[dup]	20.26	99,000	---	---	9,900	2,400	12,000	12,000	5.7	---	---
	09/12/94	21.80	160,000	---	---	22,000	3,400	33,000	23,000	<0.4	---	---
	09/12/94[dup]	21.80	150,000	---	---	23,000	3,500	34,000	23,000	<0.4	---	---
	12/19/94	19.66	80,000	---	---	17,000	2,300	16,000	14,000	<0.4	---	---
	12/19/94[dup]	19.66	100,000	---	---	28,000	3,400	26,000	20,000	<0.4	---	---
	02/28/95	17.51	100,000	---	---	24,000	2,300	18,000	17,000	<0.4	---	---
	02/28/95[dup]	17.51	100,000	---	---	31,000	3,200	21,000	18,000	<0.4	---	---
	06/26/95	17.58	45,000	---	---	14,000	1,500	12,000	7,500	3.4	---	---

Table 2. **Analytic Results for Ground Water** - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	B	E	T	X	1,2-DCA	MTBE	DO (mg/L)
			← parts per billion (µg/l) →									
	06/26/95[dup]	17.58	68,000	---	---	13,000	1,800	11,000	7,700	---	---	---
	09/13/95	19.28	110,000	---	---	19,000	2,800	19,000	15,000	7.2	---	---
	09/13/95[dup]	19.28	120,000	---	---	20,000	2,900	20,000	15,000	<0.4	---	---
	12/19/95	18.61	180,000	---	---	18,000	4,100	29,000	24,000	<0.4	---	---
	12/19/95[dup]	18.61	160,000	---	---	18,000	3,800	28,000	24,000	<0.4	---	---
	03/06/96	15.41	120,000	---	---	28,000	3,900	15,000	17,000	<20	---	---
	06/28/96	17.84	96,000	---	---	20,000	4,100	20,000	22,000	---	2,400	---
	09/26/96	19.60	87,000	---	---	7,600	2,500	11,000	15,000	56**	990*	---
	12/10/96[SPH]	18.15	---	---	---	---	---	---	---	---	---	---
	03/10/97[SPH]	**17.02**	---	---	---	---	---	---	---	---	---	---
MW-3	02/24/92	25.60	4,500	1,300[c]	---	97	78	<5	18	9.1	---	---
	03/01/92	26.00	2,200	440	---	69	<0.5	<0.5	<0.5	13	---	---
	06/03/92	27.70	4,100	---	---	13	44	72	65	16	---	---
	09/01/92	29.46	1,900	---	---	20	5.5	6.8	<5	19	---	---
	09/01/92[dup]	29.46	1,900	---	---	21	3.4	6.6	<5	21	---	---
	12/04/92	29.93	2,400	---	---	8.2	<5	<5	<5	16	---	---
	12/04/92[dup]	29.93	2,100	---	---	11	5.7	<0.5	<0.5	18	---	---
	03/03/93	23.08	5,100	---	---	63	75	61	150	3.3	---	---
	06/17/93	25.21	4,000	---	---	94	82	140	150	23	---	---
	09/10/93	26.95	3,200	---	---	140	12.5	12.5	12.5	20.0	---	---
	12/13/93	26.52	6,200	---	---	<12.5	<12.5	<12.5	<12.5	13	---	---
	03/03/94	24.50	4,500	---	---	73	<5	<5	<5	---	---	---
	06/06/94	26.33	3,200	---	---	<0.5	3.1	<0.5	<0.5	16	---	---
	09/12/94	27.98	3,900	---	---	<0.5	9.6	<0.5	4.1	7.8	---	---
	12/19/94	25.63	2,400	---	---	21	4.2	22	2.6	25	---	---
	02/28/95	23.45	4,000	---	---	58	7.1	<0.5	3.5	18	---	---
	06/26/95	23.64	3,900	---	---	8.1	12	<0.5	2.4	15	---	---

Table 2. **Analytic Results for Ground Water** - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	B	E	T	X	1,2-DCA	MTBE	DO (mg/L)
			← parts per billion (µg/l) →									
	09/13/95	25.40	4,100	---	---	58	5.5	5.5	<0.5	6.7	---	---
	12/19/95	24.53	3,600	---	---	<0.5	2.1	4.3	1.1	6.6	---	---
	03/06/96[SPH]	---	---	---	---	---	---	---	---	---	---	---
	06/28/96	23.95	2,400	---	---	55	<0.5	<0.5	11	---	120	---
	09/26/96	25.89	2,500	---	---	<5.0	<5.0	<5.0	<5.0	25	160	---
	12/10/96	24.22	1,600	---	---	28	<2.0	4.2	3.9	34	110	0.8
	03/10/97	**23.05**	**130**	**---**	**---**	**<0.50**	**<0.50**	**<0.50**	**1.4**	**3.5**	**4.2**	**2.8**
MW-4	03/24/95	9.16	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4	---	---
	06/26/95	12.06	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4	---	---
	09/13/95	13.90	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4	---	---
	12/19/95	12.90	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4	---	---
	03/06/96	9.63	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4	---	---
	06/28/96	12.30	40	---	---	<0.5	.97	.59	3.8	---	26	---
	09/26/96	14.12	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	---
	12/10/96[I]	12.31	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	<2.5	1.2
	03/10/97[m]	**11.34**	**<50**	**---**	**---**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**---**	**<2.5**	**---**
Trip Blank	03/08/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	06/12/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/18/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	03/07/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	06/07/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	09/17/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/09/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	02/24/92		<50	---	---	<0.5	0.6	2.5	2.2	---	---	---
	03/01/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	06/03/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---

Table 2. **Analytic Results for Ground Water** - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	B	E	T	X	1,2-DCA	MTBE	DO (mg/L)
			← parts per billion (µg/l) →									
	09/01/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
	12/04/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5[j]	---	---
	03/03/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
	06/17/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
	09/10/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/13/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5[k]	---	---
	03/03/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	06/06/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	09/12/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/19/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	02/28/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	03/24/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	06/26/95		<50	---	---	4.1	<0.5	3.0	1.5	---	---	---
	09/13/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/19/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
Bailer	03/08/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
Blank	09/01/92		<50	---		<0.5	<0.5	0.7	<0.5	<0.5	---	---
	12/04/92[j]		60	---		<0.5	<0.5	<0.5	<0.5	<0.5	---	---
											---	---
MCLs			NE	NE	NE	1	700	150	1,750	0.5	NE	NE

Table 2. **Analytic Results for Ground Water** - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Abbreviations:

TPH-G = Total Petroleum Hydrocarbons as Gasoline by Modified EPA Method 8015
TPH-D = Total Petroleum Hydrocarbons as Diesel by Modified EPA Method 8015
POG = Petroleum oil and grease by American Public Health Association Standard Method 503E or 5520F
MTBE = Methyl t-Butyl Ether by EPA Method 8020
B = Benzene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
T = Toluene by EPA Method 8020
X = Xylenes by EPA Method 8020
1,2-DCA = 1,2-Dichloroethane by EPA Method 8010. No other halogenated hydrocarbons detected unless otherwise noted.
DO = Dissolved Oxygen
--- = Not analyzed
<n = Not detected above method detection limit of n ppb
MCLs = California Primary maximum contaminant levels for drinking water (22 CCR 64444)
NE = Not established
SPH = Separate-phase hydrocarbons present in well

Notes:

a = No total petroleum hydrocarbons as motor oil detected above modified EPA Method 8015 detection limit of 500 ppb
b = Tetrachloroethene (PCE) detected at 24 ppb by EPA Method 8010; MCL for PCE is 5 ppb
c = Result is due to hydrocarbon compounds lighter than diesel
d = Result due to a non-gasoline hydrocarbon
e = In the matrix spike/matrix spike duplicate of sample MW-1, the RPD for Freon 113 and 1,3-dichlorobenzene was greater than 25%
f = The MW-2 and duplicate samples each contained 1.6 ppb of methylene chloride which is within normal laboratory background levels.
h = Sample MW-2 was diluted 1:100 for EPA Method 8010 due to the interfering hydrocarbon peaks
j = The trip and bailer blank samples contained 14 and 10 mg/L 1,3-dichlorobenzene, respectively
k = 1.4 mg/L Chloroethene detected in equipment blank, trip blank not analyzed
l = Tetrachloroethene (PCE) detected at 0.50 ppb by EPA Method 8010
Trichloroethene (TCE) detected at 0.57 ppb by EPA Method 8010; MCL for TCE is 5 ppb.
m = Trichloroethene detected at 0.52 ppb by EPA Method 8010
* = MTBE confirmed by EPA Method 8260
** = Result should be considered estimated due to being reported under the detection limit of 125 ppb.

ATTACHMENT A

Blaine Ground Water Monitoring Report

BLAINE
TECH SERVICES inc

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

March 28, 1997

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

Attn: Alex Perez

Shell WIC #204-6852-1404
1784 150th Avenue
San Leandro, California

1st Quarter 1997

Quarterly Groundwater Monitoring Report 970310-C-2

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 *	03/10/97	TOC	–	NONE	–	–	20.08	44.68
MW-2	03/10/97	TOC	FREE PRODUCT	16.82	0.20	80	17.02	–
MW-3	03/10/97	TOC	–	NONE			23.05	41.73
MW-4	03/10/97	TOC	–	NONE	–	–	11.34	24.80

* Sample DUP was a duplicate sample taken from well MW-1.

9703574

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 970310-C2

Date: 3-10-97
Page 1 of 1

Site Address: 1784 150th Avenue, San Leandro

WIC#: 204-6852-1404

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: Kevin Carun

Printed Name: Kevin Carun

LAB: SEQUOIA

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	MTBE	8010	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-1	3/10			X		6						X	X	X						
MW-2	3/10			X		6						X	X	X						
MW-3	3/10			X		6						X	X	X						
EB	3/10			X		6						X	X	X						
Dup	3/10			X		6						X	X	X						

CHECK ONE (1) BOX ONLY

	CT/DT	TURN AROUND TIME
Quarterly Monitoring XX	5441	24 hours ☐
Site Investigation ☐	5441	48 hours ☐
Soil Closure/Disposal ☐	5442	15 days XX (Normal)
Water Closure/Disposal ☐	5443	Other ☐
Soil/Air Rem. or Sys. O & M ☐	5452	
Water Rem. or Sys. O & M ☐	5453	
Other ☐		

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

Relinquished By (signature):	Printed Name: Kevin Carun	Date: 3/11/97 Time: 11:30	Received (signature):	Printed Name: Futcher	Date: 3/11/97 Time: 11:30
Relinquished By (signature):	Printed Name:	Date: 3/11/97 Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature): Mara Gruis	Printed Name: Mara Gri's	Date: 3/11/97 Time: 13:20

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

Shell Co. Chain 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 San Leandro/970310-C2

Enclosed are the results from samples received at Sequoia Analytical on March 11, 1997. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9703574 -01	LIQUID, MW-1	03/10/97	8010 Halogenated Volatil
9703574 -01	LIQUID, MW-1	03/10/97	TPGBMW Purgeable TPH/BTEX
9703574 -02	LIQUID, MW-4	03/10/97	8010 Halogenated Volatil
9703574 -02	LIQUID, MW-4	03/10/97	TPGBMW Purgeable TPH/BTEX
9703574 -03	LIQUID, MW-3	03/10/97	8010 Halogenated Volatil
9703574 -03	LIQUID, MW-3	03/10/97	TPGBMW Purgeable TPH/BTEX
9703574 -04	LIQUID, EB	03/10/97	8010 Halogenated Volatil
9703574 -04	LIQUID, EB	03/10/97	TPGBMW Purgeable TPH/BTEX
9703574 -05	LIQUID, DUP	03/10/97	8010 Halogenated Volatil
9703574 -05	LIQUID, DUP	03/10/97	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 Renner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Shell San Leandro/970310-C2
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9703574-01

Sampled: 03/10/97
Received: 03/11/97

Analyzed: 03/20/97
Reported: 03/21/97

QC Batch Number: GC031997801008A
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon Tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	**5.0**	**12**
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	70	130	119

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 San Leandro/970310-C2	Sampled: 03/10/97
1680 Rogers Avenue	Sample Descript: MW-1	Received: 03/11/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 03/17/97
Attention: Fran Thie	Lab Number: 9703574-01	Reported: 03/21/97

QC Batch Number: GC031797BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**250**	**4200**
Methyl t-Butyl Ether	12	N.D.
Benzene	**2.5**	**13**
Toluene	**2.5**	**8.8**
Ethyl Benzene	**2.5**	**16**
Xylenes (Total)	**2.5**	**74**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	118

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
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Shell San Leandro/970310-C2
Sample Descript: MW-4
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9703574-02

Sampled: 03/10/97
Received: 03/11/97

Analyzed: 03/20/97
Reported: 03/21/97

QC Batch Number: GC031997801008A
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**0.52**
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	70	130	125

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 San Leandro/970310-C2	Sampled: 03/10/97
1680 Rogers Avenue	Sample Descript: MW-4	Received: 03/11/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 03/14/97
Attention: Fran Thie	Lab Number: 9703574-02	Reported: 03/21/97

QC Batch Number: GC031497BTEX21A
Instrument ID: GCHP21

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	85

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
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Shell San Leandro/970310-C2
Sample Descript: MW-3
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9703574-03

Sampled: 03/10/97
Received: 03/11/97

Analyzed: 03/20/97
Reported: 03/21/97

QC Batch Number: GC031997801008A
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	**0.50**	**3.5**
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	70	130	118

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 San Leandro/970310-C2	Sampled: 03/10/97
1680 Rogers Avenue	Sample Descript: MW-3	Received: 03/11/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 03/17/97
Attention: Fran Thie	Lab Number: 9703574-03	Reported: 03/21/97

QC Batch Number: GC031797BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**130**
Methyl t-Butyl Ether	**2.5**	**4.2**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	**0.50**	**1.4**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	75

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
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Shell San Leandro/970310-C2
Sample Descript: EB
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9703574-04

Sampled: 03/10/97
Received: 03/11/97

Analyzed: 03/20/97
Reported: 03/21/97

QC Batch Number: GC031997801008A
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	70	130	111

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

Blaine Tech Services	Client Proj. ID: Shell San Leandro/970310-C2	Sampled: 03/10/97
1680 Rogers Avenue	Sample Descript: EB	Received: 03/11/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 03/17/97
Attention: Fran Thie	Lab Number: 9703574-04	Reported: 03/21/97

QC Batch Number: GC031797BTEX02A
Instrument ID: GCHP2

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	86

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
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Shell San Leandro/970310-C2
Sample Descript: DUP
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9703574-05

Sampled: 03/10/97
Received: 03/11/97

Analyzed: 03/20/97
Reported: 03/21/97

QC Batch Number: GC031997801008A
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon Tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	**5.0**	**11**
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	70	130	109

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 San Leandro/970310-C2	Sampled: 03/10/97
1680 Rogers Avenue	Sample Descript: DUP	Received: 03/11/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 03/17/97
Attention: Fran Thie	Lab Number: 9703574-05	Reported: 03/21/97

QC Batch Number: GC031797BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**5100**
Methyl t-Butyl Ether	25	N.D.
Benzene	**5.0**	**12**
Toluene	**5.0**	**8.9**
Ethyl Benzene	**5.0**	**17**
Xylenes (Total)	**5.0**	**79**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	111

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

Client Proj. ID: Shell San Leandro/970310-C2

Lab Proj. ID: 9703574

Received: 03/11/97

Reported: 03/21/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 16 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services, Inc.	Client Project ID:	Shell San Leandro/970310-C2	
1680 Rogers Avenue	Matrix:	Liquid	
San Jose, CA 95112			
Attention: Fran Thie	Work Order #:	9703574 -01, -03	Reported: Mar 26, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031797BTEX17A	GC031797BTEX17A	GC031797BTEX17A	GC031797BTEX17A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab
MS/MSD #:	970353107	970353107	970353107	970353107
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/17/97	3/17/97	3/17/97	3/17/97
Analyzed Date:	3/17/97	3/17/97	3/17/97	3/17/97
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.1	9.0	9.1	27
MS % Recovery:	91	90	91	90
Dup. Result:	9.1	8.9	8.9	27
MSD % Recov.:	91	89	89	90
RPD:	0.0	1.1	2.2	0.0
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK031797	BLK031797	BLK031797	BLK031797
Prepared Date:	3/17/97	3/17/97	3/17/97	3/17/97
Analyzed Date:	3/17/97	3/17/97	3/17/97	3/17/97
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.1	8.9	9.0	27
LCS % Recov.:	91	89	90	90
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	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

Sequoia Analytical

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Blaine Tech Services, Inc.	Client Project ID:	Shell San Leandro/970310-C2	
1680 Rogers Avenue	Matrix:	Liquid	
San Jose, CA 95112			
Attention: Fran Thie	Work Order #:	9703574-02, -05	Reported: Mar 26, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031497BTEX21A	GC031497BTEX21A	GC031497BTEX21A	GC031497BTEX21A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	970315302	970315302	970315302	970315302
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/14/97	3/14/97	3/14/97	3/14/97
Analyzed Date:	3/14/97	3/14/97	3/14/97	3/14/97
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.2	9.1	9.1	28
MS % Recovery:	92	91	91	93
Dup. Result:	9.6	9.5	9.4	29
MSD % Recov.:	96	95	94	97
RPD:	4.3	4.3	3.2	3.5
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK031497	BLK031497	BLK031497	BLK031497
Prepared Date:	3/14/97	3/14/97	3/14/97	3/14/97
Analyzed Date:	3/14/97	3/14/97	3/14/97	3/14/97
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	8.9	8.9	9.0	28
LCS % Recov.:	89	89	90	93
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	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.

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Blaine Tech Services, Inc.	Client Project ID:	Shell San Leandro/970310-C2	
1680 Rogers Avenue	Matrix:	Liquid	
San Jose, CA 95112			
Attention: Fran Thie	Work Order #:	9703574-04	Reported: Mar 26, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031797BTEX02A	GC031797BTEX02A	GC031797BTEX02A	GC031797BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab
MS/MSD #:	970353107	970353107	970353107	970353107
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/17/97	3/17/97	3/17/97	3/17/97
Analyzed Date:	3/17/97	3/17/97	3/17/97	3/17/97
Instrument I.D.#:	GCHP02	GCHP02	GCHP02	GCHP02
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.2	9.2	9.3	29
MS % Recovery:	92	92	93	97
Dup. Result:	9.6	9.5	9.6	30
MSD % Recov.:	96	95	96	100
RPD:	4.3	3.2	3.2	3.4
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK031797	BLK031797	BLK031797	BLK031797
Prepared Date:	3/17/97	3/17/97	3/17/97	3/17/97
Analyzed Date:	3/17/97	3/17/97	3/17/97	3/17/97
Instrument I.D.#:	GCHP02	GCHP02	GCHP02	GCHP02
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.9	9.7	9.8	31
LCS % Recov.:	99	97	98	103
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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97 MAY 27

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

Client Project ID: Shell San Leandro/970310-C2
Matrix: Liquid
Work Order #: 9703574-01-05
Reported: Mar 26, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-Benzene
QC Batch#:	GC031997801008A	GC031997801008A	GC031997801008A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030
Analyst:	R. Bou-Salman	R. Bou-Salman	R. Bou-Salman
MS/MSD #:	970354101	970354101	970354101
Sample Conc.:	N.D.	8.5	N.D.
Prepared Date:	3/19/97	3/19/97	3/19/97
Analyzed Date:	3/19/97	3/19/97	3/19/97
Instrument I.D.#:	GCHP08	GCHP08	GCHP08
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Result:	28	29	23
MS % Recovery:	112	82	92
Dup. Result:	27	29	24
MSD % Recov.:	108	82	96
RPD:	3.6	0.0	4.3
RPD Limit:	0-25	0-25	0-25
LCS #:	BLK031997	BLK031997	BLK031997
Prepared Date:	3/19/97	3/19/97	3/19/97
Analyzed Date:	3/19/97	3/19/97	3/19/97
Instrument I.D.#:	GCHP08	GCHP08	GCHP08
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	25	22	22
LCS % Recov.:	100	88	88
MS/MSD Control Limits	60-140	60-140	60-140
LCS Control Limits	65-135	70-130	70-130

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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