CAMBRIA

August 29, 1997

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

Re: **Second Quarter 1997 Monitoring Report**
Shell Service Station
1784 150th Avenue
San Leandro, California
WIC #204-6852-1404
Cambria #240-314-297

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.

SECOND QUARTER 1997 ACTIVITIES

Blaine Tech Services, Inc. (Blaine) of San Jose, California measured ground water depths, checked for separate-phase hydrocarbons (SPH), and collected ground water samples from the site wells (Figure 1). No SPH was detected in the wells. 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).

ANTICIPATED THIRD QUARTER 1997 ACTIVITIES

Ground Water Monitoring: Blaine will measure ground water depths, collect water samples, and check for accumulated SPH. Cambria will submit a report presenting a summary of activities for the upcoming quarter.

Corrective Action Plan: Cambria will prepare a Corrective Action Plan for this site.

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

CAMBRIA

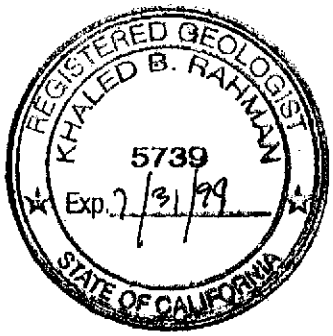
CLOSING

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

Sincerely,
Cambria Environmental Technology, Inc.

Khaled Rahman

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

F:\PROJECT\SHELL\SNL1784\QM\2Q97QM.WPD

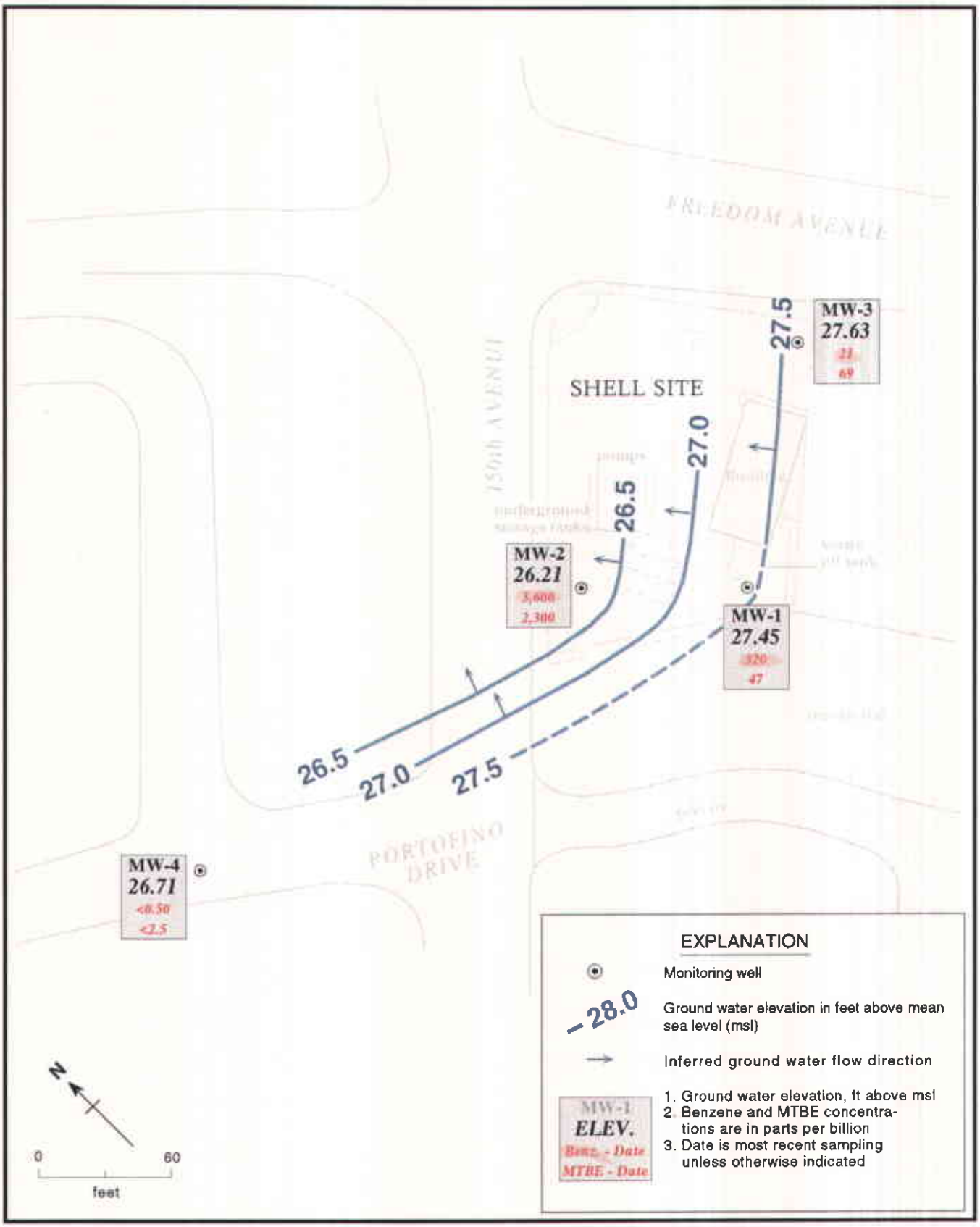


Figure 1 . Ground Water Elevation Contours - June 30, 1997 - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

08/27/97

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
	06/30/97		**21.68**		**27.45**
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

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)
	03/01/92		21.11	---	24.72
	06/03/92		21.58	---	24.25
	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
	06/30/97		**19.42**		**26.21**
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

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)
	09/10/93		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
	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
	06/30/97		**24.34**		**27.63**
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
	06/30/97		**13.80**		**26.71**

Notes and Abbreviations:

a = When spearate-phase hydrocarbons are present, ground water elevation is corrected using the relation: ground water elevation = top of casing + (0.8 x separate phase hydrocarbon thickness) - 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
	06/30/97	**21.68**	**5,700**	**---**	**---**	**320**	**140**	**120**	**700**	**21**	**47**	**1.6**
	06/30/97[dup]	**21.68**	**5,300**	**---**	**---**	**300**	**120**	**95**	**580**	**22**	**45**	**1.6**
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	---	---

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	17.58	45,000	---	---	14,000	1,500	12,000	7,500	3.4	---	---
	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	---	---	---	---	---	---	---	---	---	---
	06/30/97	**19.42**	**57,000**	**---**	**---**	**3,600**	**1,300**	**4,600**	**9,700**	**<50**	**2,300**	**2.4**
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	---	---

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	23.64	3,900	---	---	8.1	12	<0.5	2.4	15	---	---
	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
	06/30/97	**24.34**	**1,200**	**---**	**---**	**21**	**<2.0**	**2.3**	**<2.0**	**97**	**69**	**2.3**
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[l]	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	---
	06/30/97[n]	**13.80**	**<50**	**---**	**---**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.5**	**<2.5**	**1.9**
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	---	---	---

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) →									
	03/01/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	06/03/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	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
µg/L = Micrograms per liter
mg/L = Milligrams per liter
ppb = parts per billion, which is equivalent to µg/L

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
n = Trichloroethene detected at 0.55 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.

CAMBRIA

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

July 24, 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

2nd Quarter 1997

Quarterly Groundwater Monitoring Report 970630-F-3

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 *	06/30/97	TOC	--	NONE	--	--	21.68	44.65
MW-2	06/30/97	TOC	ODOR	NONE	--	--	19.42	44.36
MW-3	06/30/97	TOC	--	NONE	--	--	24.34	41.70
MW-4	06/30/97	TOC	--	NONE	--	--	13.80	24.81

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

9707176

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 9706 30 - F3

Date: 6/30/97
Page 1 of 1

Site Address: 1784 150th Ave., San Leandro, CA

WIC#: 204-6852-1404

Shell Engineer: Alex Perez — Phone No.: (510) 675-6168 Fax #: 675-6172

Consultant Name & Address: Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thie — Phone No.: (408) 573-0555 Fax #: 573-7771

Comments:

Sampled by: TG

Printed Name: Tim Graf

LAB: SEQUOIA

CHECK ONE (1) BOX ONLY		CT/DT
G.W. Monitoring	X	4461
Site Investigation		4441
Soil Classify/Disposal		4442
Water Classify/Disposal		4443
Soil/Air Rem. or Sys. O & M		4452
Water Rem. or Sys. O & M		4453
Other		

TURN AROUND TIME: 24 hours ☐ 48 hours ☐ 5 days ☐ 10 days ☐ 15 days X (Normal) Other ☐ ____

NOTE: Notify lab as soon as possible of 24/48 hr. TAT.

UST AGENCY: ____

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
1 MW-1	6/30			W		6						X	X	X						
2 MW-2						6						X	X	X						
3 MW-3						6						X	X	X						
4 MW-4						6						X	X	X						
5 EB						6						X	X	X						
6 DUP	6/30			W		6						X	X	X						

Relinquished By (signature):	Printed Name: Tim Graf	Date: 7/1/97 Time: 1345	Received (signature):	Printed Name: S. WRIGHT	Date: 7/1/97 Time: 1045
Relinquished By (signature):	Printed Name: S. WRIGHT	Date: 7/1/97 Time: 1130	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: M. Sawa	Date: 7-1-97 Time: 1131

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

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/970630-F3

Enclosed are the results from samples received at Sequoia Analytical on July 1, 1997. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9707176 -01	LIQUID, MW-1	06/30/97	8010 Halogenated Volatil
9707176 -01	LIQUID, MW-1	06/30/97	TPGBMW Purgeable TPH/BTEX
9707176 -02	LIQUID, MW-2	06/30/97	8010 Halogenated Volatil
9707176 -02	LIQUID, MW-2	06/30/97	TPGBMW Purgeable TPH/BTEX
9707176 -03	LIQUID, MW-3	06/30/97	8010 Halogenated Volatil
9707176 -03	LIQUID, MW-3	06/30/97	TPGBMW Purgeable TPH/BTEX
9707176 -04	LIQUID, MW-4	06/30/97	8010 Halogenated Volatil
9707176 -04	LIQUID, MW-4	06/30/97	TPGBMW Purgeable TPH/BTEX
9707176 -05	LIQUID, EB	06/30/97	8010 Halogenated Volatil
9707176 -05	LIQUID, EB	06/30/97	TPGBMW Purgeable TPH/BTEX
9707176 -06	LIQUID, DUP	06/30/97	8010 Halogenated Volatil
9707176 -06	LIQUID, DUP	06/30/97	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
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/970630-F3	Sampled: 06/30/97
1680 Rogers Avenue	Sample Descript: MW-1	Received: 07/01/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 07/10/97
Attention: Fran Thie	Lab Number: 9707176-01	Reported: 07/16/97

QC Batch Number: GC071097801008A
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	1.2	N.D.
Bromoform	1.2	N.D.
Bromomethane	2.5	N.D.
Carbon Tetrachloride	1.2	N.D.
Chlorobenzene	1.2	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	1.2	N.D.
Chloromethane	2.5	N.D.
Dibromochloromethane	1.2	N.D.
1,2-Dichlorobenzene	1.2	N.D.
1,3-Dichlorobenzene	1.2	N.D.
1,4-Dichlorobenzene	1.2	N.D.
1,1-Dichloroethane	1.2	N.D.
1,2-Dichloroethane	**1.2**	**21**
1,1-Dichloroethene	1.2	N.D.
cis-1,2-Dichloroethene	1.2	N.D.
trans-1,2-Dichloroethene	1.2	N.D.
1,2-Dichloropropane	1.2	N.D.
cis-1,3-Dichloropropene	1.2	N.D.
trans-1,3-Dichloropropene	1.2	N.D.
Methylene chloride	12	N.D.
1,1,2,2-Tetrachloroethane	1.2	N.D.
Tetrachloroethene	1.2	N.D.
1,1,1-Trichloroethane	1.2	N.D.
1,1,2-Trichloroethane	1.2	N.D.
Trichloroethene	1.2	N.D.
Trichlorofluoromethane	1.2	N.D.
Vinyl chloride	2.5	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	70	130	93

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/970630-F3	Sampled: 06/30/97
1680 Rogers Avenue	Sample Descript: MW-1	Received: 07/01/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/10/97
Attention: Fran Thie	Lab Number: 9707176-01	Reported: 07/16/97

QC Batch Number: GC071097BTEX22A
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	5700
Methyl t-Butyl Ether	25	47
Benzene	5.0	320
Toluene	5.0	120
Ethyl Benzene	5.0	140
Xylenes (Total)	5.0	700
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

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/970630-F3	Sampled: 06/30/97
1680 Rogers Avenue	Sample Descript: MW-2	Received: 07/01/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 07/10/97
Attention: Fran Thie	Lab Number: 9707176-02	Reported: 07/16/97

QC Batch Number: GC070897801008A
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	100	N.D.
Carbon Tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	100	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	500	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	N.D.
Trichlorofluoromethane	50	N.D.
Vinyl chloride	100	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	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

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/970630-F3	Sampled: 06/30/97
1680 Rogers Avenue	Sample Descript: MW-2	Received: 07/01/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/10/97
Attention: Fran Thie	Lab Number: 9707176-02	Reported: 07/16/97

QC Batch Number: GC071097BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**20000**	**57000**
Methyl t-Butyl Ether	**1000**	**2300**
Benzene	**200**	**3600**
Toluene	**200**	**4600**
Ethyl Benzene	**200**	**1300**
Xylenes (Total)	**200**	**9700**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	87

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/970630-F3	Sampled: 06/30/97
1680 Rogers Avenue	Sample Descript: MW-3	Received: 07/01/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 07/11/97
Attention: Fran Thie	Lab Number: 9707176-03	Reported: 07/16/97

QC Batch Number: GC071197801008A
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	1.2	N.D.
Bromoform	1.2	N.D.
Bromomethane	2.5	N.D.
Carbon Tetrachloride	1.2	N.D.
Chlorobenzene	1.2	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	1.2	N.D.
Chloromethane	2.5	N.D.
Dibromochloromethane	1.2	N.D.
1,2-Dichlorobenzene	1.2	N.D.
1,3-Dichlorobenzene	1.2	N.D.
1,4-Dichlorobenzene	1.2	N.D.
1,1-Dichloroethane	1.2	N.D.
1,2-Dichloroethane	**1.2**	**97**
1,1-Dichloroethene	1.2	N.D.
cis-1,2-Dichloroethene	1.2	N.D.
trans-1,2-Dichloroethene	1.2	N.D.
1,2-Dichloropropane	1.2	N.D.
cis-1,3-Dichloropropene	1.2	N.D.
trans-1,3-Dichloropropene	1.2	N.D.
Methylene chloride	12	N.D.
1,1,2,2-Tetrachloroethane	1.2	N.D.
Tetrachloroethene	1.2	N.D.
1,1,1-Trichloroethane	1.2	N.D.
1,1,2-Trichloroethane	1.2	N.D.
Trichloroethene	1.2	N.D.
Trichlorofluoromethane	1.2	N.D.
Vinyl chloride	2.5	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	70	130	84

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/970630-F3	Sampled: 06/30/97
1680 Rogers Avenue	Sample Descript: MW-3	Received: 07/01/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/11/97
Attention: Fran Thie	Lab Number: 9707176-03	Reported: 07/16/97

QC Batch Number: GC071197BTEX18A
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**200**	**1200**
Methyl t-Butyl Ether	**10**	**69**
Benzene	**2.0**	**21**
Toluene	**2.0**	**2.3**
Ethyl Benzene	2.0	N.D.
Xylenes (Total)	2.0	N.D.
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	123

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/970630-F3	Sampled: 06/30/97
1680 Rogers Avenue	Sample Descript: MW-4	Received: 07/01/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 07/09/97
Attention: Fran Thie	Lab Number: 9707176-04	Reported: 07/16/97

QC Batch Number: GC070997801024A
Instrument ID: GCHP24_2

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	10	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**	**0.55**
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	70	130	73

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/970630-F3	Sampled: 06/30/97
1680 Rogers Avenue	Sample Descript: MW-4	Received: 07/01/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/11/97
Attention: Fran Thie	Lab Number: 9707176-04	Reported: 07/16/97

QC Batch Number: GC071197BTEX01A
Instrument ID: GCHP01

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	97

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/970630-F3	Sampled: 06/30/97
1680 Rogers Avenue	Sample Descript: EB	Received: 07/01/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 07/11/97
Attention: Fran Thie	Lab Number: 9707176-05	Reported: 07/16/97

QC Batch Number: GC071097801008A
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	95

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/970630-F3	Sampled: 06/30/97
1680 Rogers Avenue	Sample Descript: EB	Received: 07/01/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/10/97
Attention: Fran Thie	Lab Number: 9707176-05	Reported: 07/16/97

QC Batch Number: GC071097BTEX22A
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	84

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/970630-F3	Sampled: 06/30/97
1680 Rogers Avenue	Sample Descript: DUP	Received: 07/01/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 07/11/97
Attention: Fran Thie	Lab Number: 9707176-06	Reported: 07/16/97

QC Batch Number: GC071097801008A
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	1.2	N.D.
Bromoform	1.2	N.D.
Bromomethane	2.5	N.D.
Carbon Tetrachloride	1.2	N.D.
Chlorobenzene	1.2	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	1.2	N.D.
Chloromethane	2.5	N.D.
Dibromochloromethane	1.2	N.D.
1,2-Dichlorobenzene	1.2	N.D.
1,3-Dichlorobenzene	1.2	N.D.
1,4-Dichlorobenzene	1.2	N.D.
1,1-Dichloroethane	1.2	N.D.
1,2-Dichloroethane	**1.2**	**22**
1,1-Dichloroethene	1.2	N.D.
cis-1,2-Dichloroethene	1.2	N.D.
trans-1,2-Dichloroethene	1.2	N.D.
1,2-Dichloropropane	1.2	N.D.
cis-1,3-Dichloropropene	1.2	N.D.
trans-1,3-Dichloropropene	1.2	N.D.
Methylene chloride	12	N.D.
1,1,2,2-Tetrachloroethane	1.2	N.D.
Tetrachloroethene	1.2	N.D.
1,1,1-Trichloroethane	1.2	N.D.
1,1,2-Trichloroethane	1.2	N.D.
Trichloroethene	1.2	N.D.
Trichlorofluoromethane	1.2	N.D.
Vinyl chloride	2.5	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	70	130	93

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/970630-F3	Sampled: 06/30/97
1680 Rogers Avenue	Sample Descript: DUP	Received: 07/01/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/10/97
Attention: Fran Thie	Lab Number: 9707176-06	Reported: 07/16/97

QC Batch Number: GC071097BTEX22A
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**	**5300**
Methyl t-Butyl Ether	**25**	**45**
Benzene	**5.0**	**300**
Toluene	**5.0**	**95**
Ethyl Benzene	**5.0**	**120**
Xylenes (Total)	**5.0**	**580**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	115

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, Inc.	Client Project ID:	Shell San Leandro / 970630-F3	
1680 Rogers Avenue	Matrix:	Liquid	
San Jose, CA 95112			
Attention: Fran Thie	Work Order #:	9707176 -01-02, 05-06	Reported: Jul 17, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC071097BTEX22A	GC071097BTEX22A	GC071097BTEX22A	GC071097BTEX22A	GC071097BTEX22A
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 #:	9706G0801	9706G0801	9706G0801	9706G0801	9706G0801
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/10/97	7/10/97	7/10/97	7/10/97	7/10/97
Analyzed Date:	7/10/97	7/10/97	7/10/97	7/10/97	7/10/97
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:	9.4	9.2	9.1	30	59
MS % Recovery:	94	92	91	100	98
Dup. Result:	9.6	9.4	9.4	30	59
MSD % Recov.:	96	94	94	100	98
RPD:	2.1	2.2	3.2	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK071097	BLK071097	BLK071097	BLK071097	BLK071097
Prepared Date:	7/10/97	7/10/97	7/10/97	7/10/97	7/10/97
Analyzed Date:	7/10/97	7/10/97	7/10/97	7/10/97	7/10/97
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:	9.7	9.5	9.6	31	59
LCS % Recov.:	97	95	96	103	98
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

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

Client Project ID: Shell San Leandro / 970630-F3
Matrix: Liquid
Work Order #: 9707176-03
Reported: Jul 17, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC071197BTEX18A	GC071197BTEX18A	GC071197BTEX18A	GC071197BTEX18A	GC071197BTEX18A
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:	R. Geckler	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	9706G0804	9706G0804	9706G0804	9706G0804	9706G0804
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/11/97	7/11/97	7/11/97	7/11/97	7/11/97
Analyzed Date:	7/11/97	7/11/97	7/11/97	7/11/97	7/11/97
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.1	9.1	8.9	29	55
MS % Recovery:	91	91	89	97	92
Dup. Result:	9.0	9.0	8.9	29	54
MSD % Recov.:	90	90	89	97	90
RPD:	1.1	1.1	0.0	0.0	1.8
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK071197	BLK071197	BLK071197	BLK071197	BLK071197
Prepared Date:	7/11/97	7/11/97	7/11/97	7/11/97	7/11/97
Analyzed Date:	7/11/97	7/11/97	7/11/97	7/11/97	7/11/97
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.7	8.7	8.5	28	59
LCS % Recov.:	87	87	85	93	98
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

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, Inc.	Client Project ID:	Shell San Leandro / 970630-F3	
1680 Rogers Avenue	Matrix:	Liquid	
San Jose, CA 95112			
Attention: Fran Thie	Work Order #:	9707176-04	Reported: Jul 17, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC071197BTEX01A	GC071197BTEX01A	GC071197BTEX01A	GC071197BTEX01A	GC071197BTEX01A
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:	R. Geckler	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	9706G0804	9706G0804	9706G0804	9706G0804	9706G0804
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/11/97	7/11/97	7/11/97	7/11/97	7/11/97
Analyzed Date:	7/11/97	7/11/97	7/11/97	7/11/97	7/11/97
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.5	9.0	8.8	27	70
MS % Recovery:	95	90	88	90	117
Dup. Result:	9.5	9.0	8.9	26	71
MSD % Recov.:	95	90	89	87	118
RPD:	0.0	0.0	1.1	3.8	1.4
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK071197	BLK071197	BLK071197	BLK071197	BLK071197
Prepared Date:	7/11/97	7/11/97	7/11/97	7/11/97	7/11/97
Analyzed Date:	7/11/97	7/11/97	7/11/97	7/11/97	7/11/97
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.7	8.1	8.1	24	64
LCS % Recov.:	87	81	81	80	107
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

Reggy 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

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, Inc.	Client Project ID:	Shell San Leandro / 970630-F3	
1680 Rogers Avenue	Matrix:	Liquid	
San Jose, CA 95112			
Attention: Fran Thie	Work Order #:	9707176-02	Reported: Jul 17, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-Benzene
QC Batch#:	GC070897801008A	GC070897801008A	GC070897801008A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	9706F6802	9706F6802	9706F6802
Sample Conc.:	N.D.	380	N.D.
Prepared Date:	7/8/97	7/8/97	7/8/97
Analyzed Date:	7/8/97	7/8/97	7/8/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Dilution Factor:	10	10	10
Result:	210	*	210
MS % Recovery:	84	*	84
Dup. Result:	220	*	210
MSD % Recov.:	88	*	84
RPD:	4.7	*	0.0
RPD Limit:	0-25	*	0-25

LCS #:	BLK070997	BLK070997	BLK070997
Prepared Date:	7/9/97	7/9/97	7/9/97
Analyzed Date:	7/9/97	7/9/97	7/9/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	25	24	23
LCS % Recov.:	100	96	92

MS/MSD	60-140	60-140	60-140
LCS	65-135	70-130	70-130
Control Limits			

*Above calibration range.

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

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, Inc.	Client Project ID:	Shell San Leandro / 970630-F3	
1680 Rogers Avenue	Matrix:	Liquid	
San Jose, CA 95112			
Attention: Fran Thie	Work Order #:	9707176-01, 05-06	Reported: Jul 17, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-Benzene
QC Batch#:	GC071097801008A	GC071097801008A	GC071097801008A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030
Analyst:	E. Cunanan	E. Cunanan	E. Cunanan
MS/MSD #:	970725401	970725401	970725401
Sample Conc.:	23	260	N.D.
Prepared Date:	7/9/97	7/9/97	7/9/97
Analyzed Date:	7/10/97	7/10/97	7/10/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Dilution Factor:	10	10	10
Result:	310	500	270
MS % Recovery:	115	96	108
Dup. Result:	320	550	290
MSD % Recov.:	119	116	116
RPD:	3.2	9.5	7.1
RPD Limit:	0-25	0-25	0-25

LCS #:	BLK071097	BLK071097	BLK071097
Prepared Date:	7/10/97	7/10/97	7/10/97
Analyzed Date:	7/10/97	7/10/97	7/10/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	27	25	24
LCS % Recov.:	108	100	96

MS/MSD	60-140	60-140	60-140
LCS	65-135	70-130	70-130
Control Limits			

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

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

Client Project ID: Shell San Leandro / 970630-F3
Matrix: Liquid
Work Order #: 9707176-03

Reported: Jul 17, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-Benzene
QC Batch#:	GC071197801008A	GC071197801008A	GC071197801008A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	970736901	970736901	970736901
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	7/11/97	7/11/97	7/11/97
Analyzed Date:	7/11/97	7/11/97	7/11/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Result:	28	27	26
MS % Recovery:	112	108	104
Dup. Result:	27	26	24
MSD % Recov.:	108	104	96
RPD:	3.6	3.8	8.0
RPD Limit:	0-25	0-25	0-25

LCS #:	BLK071197	BLK071197	BLK071197
Prepared Date:	7/11/97	7/11/97	7/11/97
Analyzed Date:	7/11/97	7/11/97	7/11/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	27	27	25
LCS % Recov.:	108	108	100

MS/MSD	60-140	60-140	60-140
LCS	65-135	70-130	70-130
Control Limits			

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

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, Inc.	Client Project ID:	Shell San Leandro / 970630-F3	
1680 Rogers Avenue	Matrix:	Liquid	
San Jose, CA 95112			
Attention: Fran Thie	Work Order #:	9707176-04	Reported: Jul 17, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-Benzene
QC Batch#:	GC070997801024A	GC070997801024A	GC070997801024A
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 #:	970717604	970717604	970717604
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	7/9/97	7/9/97	7/9/97
Analyzed Date:	7/9/97	7/9/97	7/9/97
Instrument I.D.#:	GCHP24	GCHP24	GCHP24
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Result:	28	24	21
MS % Recovery:	112	96	84
Dup. Result:	27	25	27
MSD % Recov.:	108	100	108
RPD:	3.6	4.1	25
RPD Limit:	0-25	0-25	0-25

LCS #:	BLK070997	BLK070997	BLK070997
Prepared Date:	7/9/97	7/9/97	7/9/97
Analyzed Date:	7/9/97	7/9/97	7/9/97
Instrument I.D.#:	GCHP24	GCHP24	GCHP24
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	28	25	25
LCS % Recov.:	112	100	100

MS/MSD	60-140	60-140	60-140
LCS	65-135	70-130	70-130
Control Limits			

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