



December 22, 1997

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

Re: **Third Quarter 1997 Monitoring Report**
Shell Service Station
1784 150th Avenue
San Leandro, California
WIC #204-6852-1404
Cambria #240-314-397

Dear Mr. Seery:

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

THIRD 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 FOURTH 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.

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.

1144 65TH STREET,

SUITE B

OAKLAND,

CA 94608

PH: (510) 420-0700

FAX: (510) 420-9170

Scott Seery
December 22, 1997

CAMBRIA

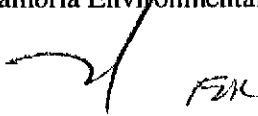
Dispenser Upgrade Sampling: On December 4, 1997, Cambria collected soil samples beneath four fuel dispensers that were being upgraded. Mr. Amir Gholami of the Alameda County Department of Environmental Health was on site during the sampling. The sampling was described in our facsimile dated December 4, 1997. Following the receipt of the analytic results, we will submit a soil sampling report to your office.

Corrective Action Plan: As you requested, Cambria will submit a draft *Corrective Action Plan* for this site to your office in January.

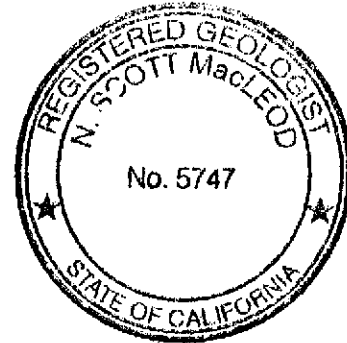
CLOSING

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 8080, Martinez, California 94553

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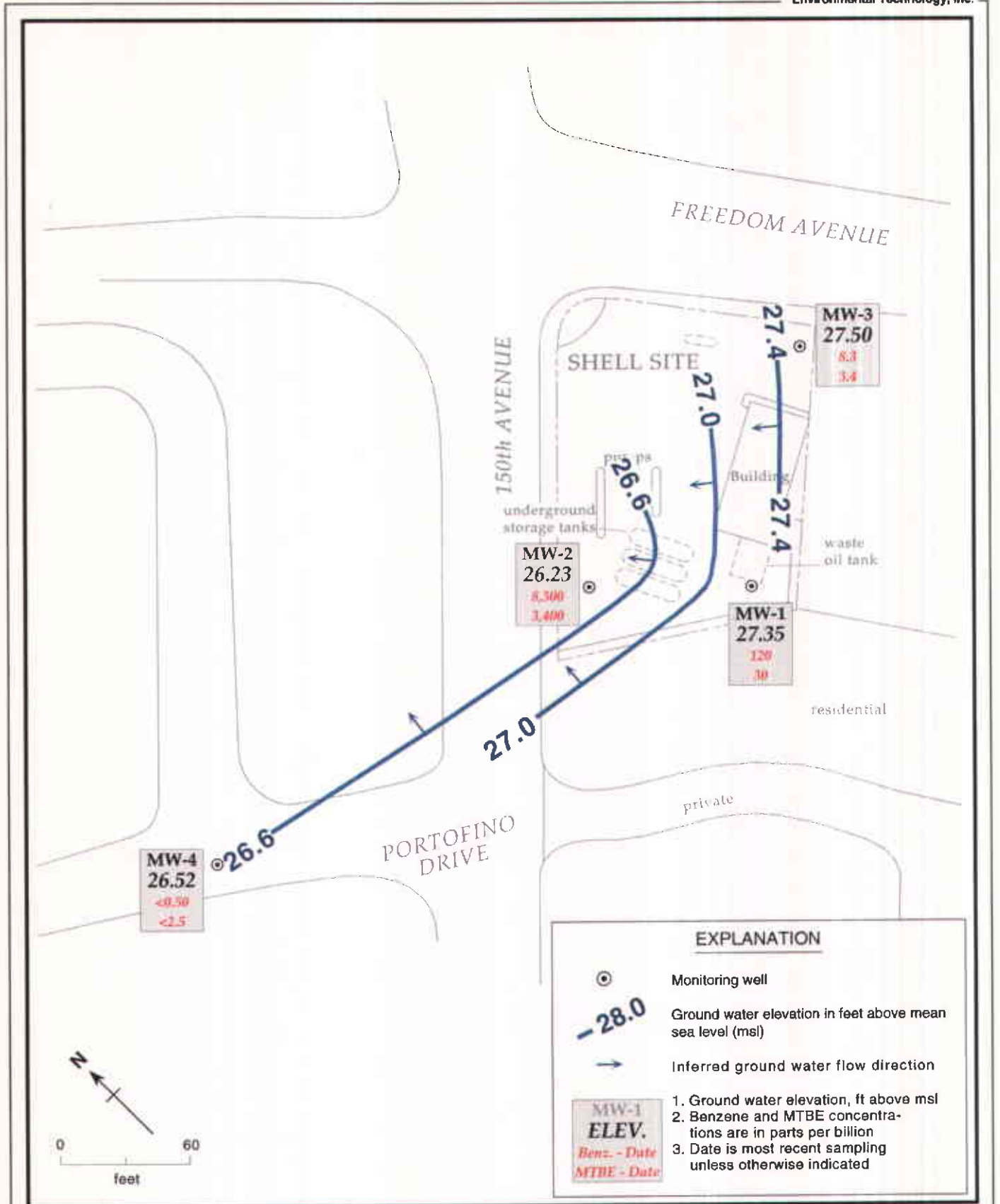


Figure 1 . Ground Water Elevation Contours - September 12, 1997 - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

**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 below TOC)	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		
09/12/97	21.78	---	27.35		
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 below TOC)	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
	09/12/97		19.40	---	26.23
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 below TOC)	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
	09/12/97		24.47	---	27.50
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
	09/12/97		13.99	---	26.52

Notes and Abbreviations:

a = When separate-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

TOC = Top of casing

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	parts per billion (µg/l)					1,2-DCA	MTBE	DO (mg/L)
						B	E	T	X				
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	---	---	---	---	---	---	---	---	---	---	---	
	06/28/96	21.46	270,000	---	---	2,800	1,000	820	16,000	---	<0.5	---	
	06/28/96	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	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	parts per billion (µg/l)						DO (mg/L)
						B	E	T	X	1,2-DCA	MTBE	
	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
	09/12/97	21.78	6,300	---	---	120	82	26	260	12	30	2.1
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	---	---

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	parts per billion (µg/l)					1,2-DCA	MTBE	DO (mg/L)
						B	E	T	X				
	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	---	---	
	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	
	09/12/97	19.40	88,000	---	---	2,600	2,600	8,800	16,000	<25	---	1.7	
	09/12/97 ^{dup}	19.40	90,000	---	---	2,700	2,700	9,400	17,000	<25	---	1.7	
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	---	---	

*- No
OC/MS
Confirmation*

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	parts per billion (µg/l)						DO (mg/L)
						B	E	T	X	1,2-DCA	MTBE	
	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	---	---
	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
	09/12/97	24.47	440	---	---	8.3	<0.50	0.82	1.9	5.0	3.4	1.9
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	<0.50	<2.5	1.9
	09/12/97	13.99	<50	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	1.7
Trip	03/08/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
Blank	06/12/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/18/90		<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	parts per billion (µg/l)				1,2-DCA	MTBE	DO (mg/L)
						B	E	T	X			
	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	---	---	---
	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 ^l		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 tert-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
ft = Feet
dup = duplicate sample

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

October 14, 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

3rd Quarter 1997

Groundwater Monitoring Report 970912-D-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	09/12/97	TOC	ODOR	NONE	--	--	21.78	44.67
MW-2*	09/12/97	TOC	ODOR/ SHEEN	NONE	--	--	19.40	44.39
MW-3	09/12/97	TOC	ODOR	NONE	--	--	24.47	41.69
MW-4	09/12/97	TOC	--	NONE	--	--	13.99	24.87

* Sample DUP was a duplicate sample taken from well MW-2.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 970912-02

Date: _____
Page 1 of 1

Silo 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: [Signature]

Printed Name: Frank Downie

Analysis Required 9709A18

LAB: Santa Ana

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring <input checked="" type="checkbox"/>	4461	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

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

UST AGENCY: _____

1X
2X
3X
4X
5X
6X

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.	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 <u>8010</u>	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-2	1			W		6						XX						
MW-3	1			W		6						XX						
MW-4	1			W		6						XX						
EB	1			W		6						XX						
DUP	9/12			W		6						XX						

Dispatched by (signature): <u>[Signature]</u>	Printed Name: <u>Frank Downie</u>	Date: <u>10/45</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>PENAFLOA</u>	Date: <u>9/15/97</u>
Dispatched By (signature): <u>[Signature]</u>	Printed Name: <u>PENAFLOA</u>	Date: <u>9/15/97</u>	Received (signature): _____	Printed Name: _____	Date: <u>10-15</u>
Dispatched By (signature): _____	Printed Name: _____	Date: _____	Received (signature): <u>[Signature]</u>	Printed Name: <u>ABAD</u>	Date: <u>9/15/97</u>
					Date: <u>10-29</u>

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



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(650) 364-9600
(510) 988-9600
(916) 921-9600

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

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

Project: Shell San Leandro/970912-D2

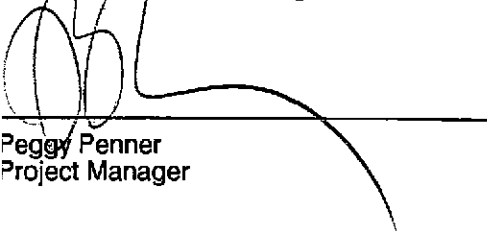
Enclosed are the results from samples received at Sequoia Analytical on September 15, 1997.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9709A18 -01	LIQUID, MW-1	09/12/97	8010 Halogenated Volatil
9709A18 -01	LIQUID, MW-1	09/12/97	TPGM2W Purgeable TPH/BTEX
9709A18 -02	LIQUID, MW-2	09/12/97	8010 Halogenated Volatil
9709A18 -02	LIQUID, MW-2	09/12/97	TPGM2W Purgeable TPH/BTEX
9709A18 -03	LIQUID, MW-3	09/12/97	8010 Halogenated Volatil
9709A18 -03	LIQUID, MW-3	09/12/97	TPGM2W Purgeable TPH/BTEX
9709A18 -04	LIQUID, MW-4	09/12/97	8010 Halogenated Volatil
9709A18 -04	LIQUID, MW-4	09/12/97	TPGM2W Purgeable TPH/BTEX
9709A18 -05	LIQUID, EB	09/12/97	8010 Halogenated Volatil
9709A18 -05	LIQUID, EB	09/12/97	TPGM2W Purgeable TPH/BTEX
9709A18 -06	LIQUID, DUP	09/12/97	8010 Halogenated Volatil
9709A18 -06	LIQUID, DUP	09/12/97	TPGM2W 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





Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell San Leandro/970912-D2
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9709A18-01

Sampled: 09/12/97
Received: 09/15/97
Analyzed: 09/26/97
Reported: 09/30/97

QC Batch Number: GC092697801008A
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.0	N.D.
Carbon Tetrachloride	1.0	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethylvinyl ether	2.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.0	N.D.
Dibromochloromethane	1.0	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	12
1,1-Dichloroethene	1.0	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	2.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	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





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell San Leandro/970912-D2 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9709A18-01	Sampled: 09/12/97 Received: 09/15/97 Analyzed: 09/24/97 Reported: 09/30/97
--	--	---

GC Batch Number: GC092497BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	6300
Methyl t-Butyl Ether	10	30
Benzene	5.0	120
Toluene	5.0	26
Ethyl Benzene	5.0	82
Xylenes (Total)	5.0	260
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	103

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell San Leandro/970912-D2
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9709A18-02

Sampled: 09/12/97
Received: 09/15/97
Analyzed: 09/26/97
Reported: 09/30/97

QC Batch Number: GC092697801008A
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	25	N.D.
Bromoform	25	N.D.
Bromomethane	50	N.D.
Carbon Tetrachloride	25	N.D.
Chlorobenzene	25	N.D.
Chloroethane	50	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	25	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	25	N.D.
1,2-Dichlorobenzene	25	N.D.
1,3-Dichlorobenzene	25	N.D.
1,4-Dichlorobenzene	25	N.D.
1,1-Dichloroethane	25	N.D.
1,2-Dichloroethane	25	N.D.
1,1-Dichloroethene	25	N.D.
cis-1,2-Dichloroethene	25	N.D.
trans-1,2-Dichloroethene	25	N.D.
1,2-Dichloropropane	25	N.D.
cis-1,3-Dichloropropene	25	N.D.
trans-1,3-Dichloropropene	25	N.D.
Methylene chloride	250	N.D.
1,1,2,2-Tetrachloroethane	25	N.D.
Tetrachloroethene	25	N.D.
1,1,1-Trichloroethane	25	N.D.
1,1,2-Trichloroethane	25	N.D.
Trichloroethene	25	N.D.
Trichlorofluoromethane	25	N.D.
Vinyl chloride	50	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	98

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell San Leandro/970912-D2 Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9709A18-02	Sampled: 09/12/97 Received: 09/15/97 Analyzed: 09/25/97 Reported: 09/30/97
--	--	---

GC Batch Number: GC092597BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	88000
Methyl t-Butyl Ether	500	3200
Benzene	100	7800
Toluene	100	8800
Ethyl Benzene	100	2600
Xylenes (Total)	100	16000
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	92

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell San Leandro/970912-D2 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9709A18-03	Sampled: 09/12/97 Received: 09/15/97 Analyzed: 09/25/97 Reported: 09/30/97
--	--	---

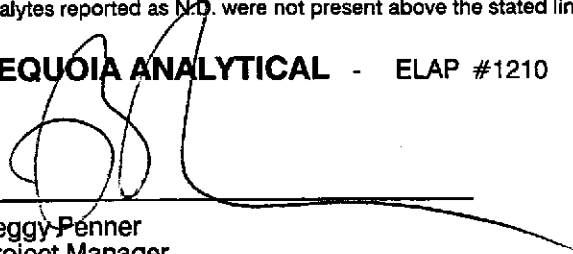
QC Batch Number: GC092497801015A
Instrument ID: GCHP15

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	5.0
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.
1,1,1,2-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	97

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell San Leandro/970912-D2 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9709A18-03	Sampled: 09/12/97 Received: 09/15/97 Analyzed: 09/24/97 Reported: 09/30/97
QC Batch Number: GC092497BTEX21A 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	440
Methyl t-Butyl Ether	2.5	3.4
Benzene	0.50	8.3
Toluene	0.50	0.82
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	1.9
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
		127

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Renner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell San Leandro/970912-D2 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9709A18-04	Sampled: 09/12/97 Received: 09/15/97 Analyzed: 09/25/97 Reported: 09/30/97
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QC Batch Number: GC092497801015A
Instrument ID: GCHP15

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	103

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell San Leandro/970912-D2 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9709A18-04	Sampled: 09/12/97 Received: 09/15/97 Analyzed: 09/24/97 Reported: 09/30/97
Attention: Fran Thie		

GC Batch Number: GC092497BTEX21A
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	93

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell San Leandro/970912-D2 Sample Descript: EB Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9709A18-05	Sampled: 09/12/97 Received: 09/15/97 Analyzed: 09/25/97 Reported: 09/30/97
Attention: Fran Thie		

QC Batch Number: GC092497801015A
Instrument ID: GCHP15

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	101

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell San Leandro/970912-D2 Sample Descript: EB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9709A18-05	Sampled: 09/12/97 Received: 09/15/97 Analyzed: 09/24/97 Reported: 09/30/97
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QC Batch Number: GC092497BTEX21A
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	89

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell San Leandro/970912-D2
Sample Descript: DUP
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9709A18-06

Sampled: 09/12/97
Received: 09/15/97
Analyzed: 09/26/97
Reported: 09/30/97

QC Batch Number: GC092697801008A
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	25	N.D.
Bromoform	25	N.D.
Bromomethane	50	N.D.
Carbon Tetrachloride	25	N.D.
Chlorobenzene	25	N.D.
Chloroethane	50	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	25	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	25	N.D.
1,2-Dichlorobenzene	25	N.D.
1,3-Dichlorobenzene	25	N.D.
1,4-Dichlorobenzene	25	N.D.
1,1-Dichloroethane	25	N.D.
1,2-Dichloroethane	25	N.D.
1,1-Dichloroethene	25	N.D.
cis-1,2-Dichloroethene	25	N.D.
trans-1,2-Dichloroethene	25	N.D.
1,2-Dichloropropane	25	N.D.
cis-1,3-Dichloropropene	25	N.D.
trans-1,3-Dichloropropene	25	N.D.
Methylene chloride	250	N.D.
1,1,2,2-Tetrachloroethane	25	N.D.
Tetrachloroethene	25	N.D.
1,1,1-Trichloroethane	25	N.D.
1,1,2-Trichloroethane	25	N.D.
Trichloroethene	25	N.D.
Trichlorofluoromethane	25	N.D.
Vinyl chloride	50	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	94

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell San Leandro/970912-D2 Sample Descript: DUP Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9709A18-06	Sampled: 09/12/97 Received: 09/15/97 Analyzed: 09/25/97 Reported: 09/30/97
Attention: Fran Thie		

QC Batch Number: GC092597BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	90000
Methyl t-Butyl Ether	500	3400
Benzene	100	8300
Toluene	100	9400
Ethyl Benzene	100	2700
Xylenes (Total)	100	17000
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	91

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell San Leandro / 970912-D2
Matrix: Liquid

Work Order #: 9709A18 -01, 03-05

Reported: Oct 1, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC092497BTEX21A	GC092497BTEX21A	GC092497BTEX21A	GC092497BTEX21A	GC092497BTEX21A
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. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab
MS/MSD #:	970981401	970981401	970981401	970981401	970981401
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/24/97	9/24/97	9/24/97	9/24/97	9/24/97
Analyzed Date:	9/24/97	9/24/97	9/24/97	9/24/97	9/24/97
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.1	9.1	9.1	27	52
MS % Recovery:	91	91	91	90	87
Dup. Result:	9.0	9.0	9.0	27	50
MSD % Recov.:	90	90	90	90	83
RPD:	1.1	1.1	1.1	0.0	3.9
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK092497	BLK092497	BLK092497	BLK092497	BLK092497
Prepared Date:	9/24/97	9/24/97	9/24/97	9/24/97	9/24/97
Analyzed Date:	9/24/97	9/24/97	9/24/97	9/24/97	9/24/97
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.6	8.5	8.5	25	48
LCS % Recov.:	86	85	85	83	80

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	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

9709A18.BLA <1>





Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell San Leandro / 970912-D2
Matrix: Liquid

Work Order #: 9709A18-01, 02, 06

Reported: Oct 1, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-Benzene
QC Batch#:	GC092697801008A	GC092697801008A	GC092697801008A
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 #:	9709A8401	9709A8401	9709A8401
Sample Conc.:	69	360	N.D.
Prepared Date:	9/26/97	9/26/97	9/26/97
Analyzed Date:	9/26/97	9/26/97	9/26/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Result:	500	570	450
MS % Recovery:	86	42	90
Dup. Result:	460	560	430
MSD % Recov.:	78	40	86
RPD:	8.3	1.8	4.5
RPD Limit:	0-25	0-25	0-25

LCS #:	BLK092697	BLK092697	BLK092697
Prepared Date:	9/26/97	9/26/97	9/26/97
Analyzed Date:	9/26/97	9/26/97	9/26/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	21	20	22
LCS % Recov.:	84	80	88

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

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

Peggy Penner
Project Manager

9709A18.BLA <3>





Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell San Leandro / 970912-D2
Matrix: Liquid

Work Order #: 9709A18-03, 04, 05

Reported: Oct 1, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-Benzene
QC Batch#:	GC092497801015A	GC092497801015A	GC092497801015A
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 #:	970978301	970978301	970978301
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	9/24/97	9/24/97	9/24/97
Analyzed Date:	9/24/97	9/24/97	9/24/97
Instrument I.D.#:	GCHP15	GCHP15	GCHP15
Conc. Spiked:	5.0 µg/L	5.0 µg/L	5.0 µg/L

Result:	4.8	4.8	4.3
MS % Recovery:	96	96	86

Dup. Result:	5.1	5.0	4.5
MSD % Recov.:	102	100	90

RPD:	6.1	4.1	4.5
RPD Limit:	0-25	0-25	0-25

LCS #:	BLK092597	BLK092597	BLK092597
Prepared Date:	9/25/97	9/25/97	9/25/97
Analyzed Date:	9/25/97	9/25/97	9/25/97
Instrument I.D.#:	GCHP15	GCHP15	GCHP15
Conc. Spiked:	5.0 µg/L	5.0 µg/L	5.0 µg/L
LCS Result:	5.4	5.8	4.8
LCS % Recov.:	108	116	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





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell San Leandro/970912-D2 Lab Proj. ID: 9709A18	Received: 09/15/97 Reported: 09/30/97
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LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 10 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

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SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

