

C A M B R I A

ENVIRONMENTAL
PROTECTION

July 28, 1998

Pamela Evans
Alameda County Department of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

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5010 1107

Tom Please route

Re: **Second Quarter 1998 Monitoring Report**
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, California
WIC #204-6001-0109
Cambria Project #24-314-298



Dear Ms. Evans:

On behalf of Equilon Enterprises LLC, Cambria Environmental Technology, Inc. (Cambria) is submitting this ground water monitoring report to satisfy the reporting requirements of 23 CCR 2652d.

SECOND QUARTER 1998 ACTIVITIES

Ground Water Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled selected monitoring wells. Cambria calculated ground water elevations (Table 1), compiled the analytical data (Tables 2 and 3), and prepared a ground water elevation contour map (Figure 1). The Blaine report is included as Attachment A.

Other Activities: A station upgrade was conducted at this site during the week of March 2, 1998. Cambria visited the site to observe upgrade activities and collected soil samples on March 3 and 6, 1998. Cambria submitted a report dated April 6, 1998 summarizing upgrade activities.

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

**Cambria
Environmental
Technology, Inc.**

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

ANTICIPATED FUTURE 1998 ACTIVITIES

Ground Water Monitoring: The next sampling event is scheduled for fourth quarter 1998. At that time, Blaine will gauge and sample the site wells. Cambria will tabulate the data and prepare a monitoring report.

CLOSING



We appreciate the opportunity to work with you on this project. Please call Paul Waite at (510) 420-3305 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.

Maureen D. Feineman
Staff Geologist

Diane M. Lundquist, P.E.
Principal Engineer



Attachment: A - Blaine Ground Water Monitoring Report

cc: Karen Petryna, Equiva Services LLC, 108 Cutting Boulevard, Richmond, California 94804

G:\Piedmont 29\QM2Q98.WPD

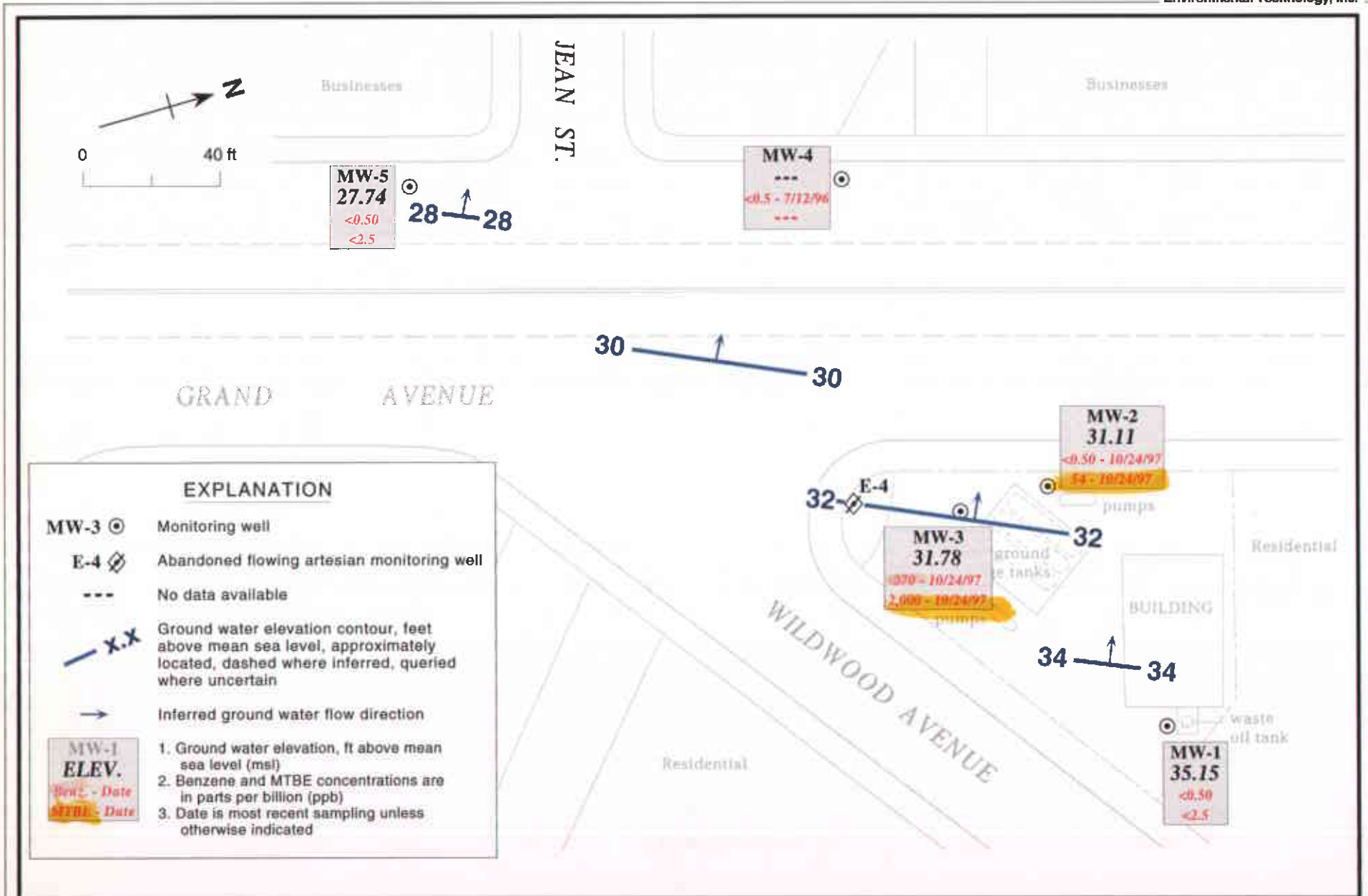


Figure 1. Ground Water Elevation Contours - May 13, 1998 - Shell-branded Service Station, WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California.

Table 1. Ground Water Elevations – Shell-branded Service Station WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-1	07/12/89	37.96	2.76	35.20
	01/30/90		3.10	34.86
	04/27/90		3.24	34.72
	07/31/90		4.26	33.70
	10/30/90		4.25	33.71
	01/31/91		3.66	34.30
	04/30/91		3.46	34.50
	07/30/91		4.14	33.82
	10/29/91		3.96	34.00
	01/20/92		3.59	34.37
	04/14/92		3.18	31.71
	07/21/92		4.17	33.79
	10/02/92		4.29	33.67
	01/20/93		2.32	35.64
	05/03/93		3.50	34.46
	06/28/93		3.76	34.20
	07/21/93		4.09	33.87
	10/19/93		3.58	34.38
	01/20/94		---	---
	04/12/94		3.60	34.36
	07/20/94		4.10	33.86
	10/06/94		4.30	33.66
	01/20/95		2.94	35.02
	07/06/95		3.68	34.28
	01/24/96		2.12	35.84
	07/12/96		3.58	34.38
01/16/97	2.30	35.66		
10/24/97	3.66	34.30		
	05/13/98		2.81	35.15
MW-2	07/12/89	34.89	3.66	31.23
	01/30/90		3.49	31.40
	04/27/90		3.79	31.10
	07/31/90		4.03	30.86
	10/30/90		4.21	30.68
	01/31/91		4.09	30.80
	04/30/91		3.95	30.94
	07/30/91		4.07	30.82
	10/29/91		4.11	30.78
	01/20/92		3.86	31.03
	04/14/92		3.66	34.30
	07/21/92		3.92	30.97
	10/02/92		4.45	30.44
	01/20/93		3.74	31.15

Table 1. Ground Water Elevations – Shell-branded Service Station WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
	05/03/93		3.77	31.12
	06/28/93		3.96	30.93
	07/21/93		4.39	30.50
	10/19/93		3.92	30.97
	01/20/94		4.45	30.44
	04/12/94		4.72	30.17
	07/20/94		5.32	29.57
	10/06/94		4.03	30.86
	01/20/95		3.89	31.00
	07/06/95		8.84	26.05
	01/24/96		3.80	31.09
	07/12/96		3.85	31.04
	01/16/97		3.84	31.05
	10/24/97		3.75	31.14
	05/13/98		3.78	31.11
MW-3	07/12/89	35.00	3.83	31.17
	01/30/90		3.24	31.76
	04/27/90		4.02	30.98
	07/31/90		4.31	30.69
	10/30/90		4.52	30.48
	01/31/91		4.33	30.67
	04/30/91		3.79	31.21
	07/30/91		4.37	30.63
	10/29/91		4.00	31.00
	01/20/92		3.87	31.13
	04/14/92		3.15	31.85
	07/21/92		4.17	30.83
	10/02/92		4.43	30.57
	01/20/93		2.20	32.80
	05/03/93		3.50	31.50
	06/28/93		4.08	30.92
	07/21/93		4.12	30.88
	10/19/93		4.20	30.80
	01/20/94		4.08	30.92
	04/12/94		3.70	31.30
	07/20/94		4.26	30.74
	10/06/94		4.31	30.69
	01/20/95		3.00	32.00
	07/06/95		3.75	31.25
	01/24/96		3.26	31.74
	07/12/96		3.77	31.23
	01/16/97		2.38	32.62

Table 1. Ground Water Elevations – Shell-branded Service Station WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
	10/24/97		4.12	30.88
	05/13/98		3.22	31.78
MW-4	01/30/90	33.73	4.50	29.23
	04/27/90		3.62	30.11
	07/31/90		4.19	29.54
	10/30/90		4.19	29.54
	01/31/91		4.49	29.24
	04/30/91		4.02	29.71
	07/30/91		4.39	29.34
	10/29/91		3.75	29.98
	01/20/92		3.94	29.79
	04/14/92		3.71	30.02
	07/21/92		4.02	29.71
	10/02/92		4.13	29.60
	01/20/93		3.10	30.63
	05/03/93		3.70	30.03
	06/28/93		3.81	29.92
	07/21/93		3.81	29.92
	10/19/93		3.94	29.79
	01/20/94		4.00	29.73
	04/12/94		4.01	29.72
	07/20/94		3.91	29.82
	10/06/94		3.99	29.74
	01/20/95		3.56	30.17
	07/06/95		3.85	29.88
	01/24/96		2.56	31.17
	07/12/96		3.36	30.37
	01/16/97 ^c		---	---
	10/24/97 ^c		---	---
	05/13/98 ^c		---	---
MW-5	01/30/90	31.38	7.12	24.26
	04/27/90		4.19	27.19
	07/31/90		4.09	27.29
	10/30/90		4.39	26.99
	01/31/91		4.49	26.89
	04/30/91		4.27	27.11
	07/30/91		4.32	27.06
	10/29/91		3.79	27.59
	01/20/92		4.09	27.29
	04/14/92		4.12	27.26
	07/21/92		4.13	27.25
	10/02/92		4.30	27.08

Table 1. Ground Water Elevations – Shell-branded Service Station WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
	01/20/93		3.12	28.26
	05/03/93		4.07	27.31
	06/28/93		4.08	27.30
	07/21/93		4.05	27.33
	10/19/93		4.20	27.18
	01/20/94		4.40	26.98
	04/12/94		4.18	27.20
	07/20/94		4.06	27.32
	10/06/94		4.01	27.37
	01/20/95		3.49	27.89
	07/06/95		4.06	27.32
	01/24/96		2.90	28.48
	07/12/96		4.02	27.36
	01/16/97		2.59	28.79
	10/24/97		4.15	27.23
	05/13/98		3.64	27.74
E-4 ^d (Abandoned)	07/12/89	34.63	a	>39.13
	01/30/90		b	>34.63
	04/27/90		b	>34.63
	07/31/90		b	>34.63
	10/30/90		b	>34.63
	01/31/91		b	>34.63
	04/30/91		b	>34.63
	07/30/91		b	>34.63
	10/29/91		b	>34.63
	01/20/92		b	>34.63
	04/14/92		b	>34.63
	07/21/92		b	>34.63
	10/02/92		b	>34.63
	01/20/93		b	>34.63
	05/03/93		b	>34.63
	06/28/93		b	>34.63
	07/21/93		b	>34.63
	10/19/93		b	>34.63
	01/20/94		b	>34.63
	04/12/94		b	>34.63
	07/20/94		b	>34.63
	10/06/94		b	>34.63
	01/20/95		b	>34.63

**Table 1. Ground Water Elevations – Shell-branded Service Station WIC #204-6001-0109,
29 Wildwood Avenue, Piedmont, California (continued)**

Abbreviations and Notes:

msl = Mean sea level

a = Well E-4 is a flowing artesian well. The potentiometric surface was greater than 4.5 ft above the top of the well casing

b = Well E-4 potentiometric surface was higher than the top of the well casing

c = Well inaccessible

d = Well abandoned June 16, 1995

--- = Not available

**Table 2. Analytical Results for Ground Water – Hydrocarbon Compounds – Shell-branded Service Station
WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California**

Well ID (Qtrs Sampled)	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO ^a
MW-1	07/12/89	2.76	<50	<0.5	<1	<1	<3	---	---
(2nd & 4th)	01/30/90	3.10	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/27/90	3.24	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/31/90	4.26	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/30/90	4.25	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/31/91	3.66	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/30/91	3.46	<50	0.8	<0.5	0.6	1.2	---	---
	07/30/91	4.14	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/29/91	3.96	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/92	3.59	<30	<0.3	<0.3	<0.3	<0.3	---	---
	04/14/92	3.18	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/21/92	4.17	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/02/92	4.29	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/93	2.32	<50	<0.5	<0.5	<0.5	<0.5	---	---
	05/04/93	3.50	<50	<0.5	<0.5	<0.5	<0.5	---	1,930
	07/21/93	4.09	<50	<0.5	<0.5	<0.5	<0.5	---	4,640
	10/19/93	3.58	50	<0.5	<0.5	<0.5	<0.5	---	4,310
	01/20/94 ^b	---	---	---	---	---	---	---	---
	04/12/94	3.60	<50	<0.5	<0.5	<0.5	<0.5	---	7,460
	07/20/94	4.10	<50	<0.5	<0.5	<0.5	<0.5	---	3,200
	10/06/94	4.30	<50	<0.5	<0.5	<0.5	<0.5	---	3,200
	01/20/95	2.94	<50	<0.5	<0.5	<0.5	<0.5	---	10,600
	07/06/95	3.68	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/24/96	2.12	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/12/96	3.58	<50	<0.5	<0.5	<0.5	<0.5	<2.5	2,700
	01/16/97	2.30	120	14	10	3.6	14	<2.5	3,000
	10/24/97	3.66	<50	<0.50	<0.50	<0.50	<0.50	8.6	4,500
	05/13/98	2.81	<50	<0.50	<0.50	<0.50	<0.50	<2.5	5,100
MW-2	07/12/89	3.66	60	2.7	<1	<1	<3	---	---
(4th)	01/30/90	3.49	<50	6.6	<0.5	0.54	0.93	---	---
	04/27/90	3.79	60	2.1	<0.5	<0.5	<0.5	---	---

**Table 2. Analytical Results for Ground Water – Hydrocarbon Compounds – Shell-branded Service Station
WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)**

Well ID (Qtrs Sampled)	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO ^a	
			← (Concentrations in µg/L) →							
	07/31/90	4.03	70	1.5	<0.5	<0.5	<0.5	---	---	
	10/30/90	4.21	70	<0.5	0.7	<0.5	1.6	---	---	
	01/31/91	4.09	80	<0.5	<0.5	0.9	1.9	---	---	
	04/30/91	3.95	100	5.9	0.6	0.7	2.0	---	---	
	07/30/91	4.07	<50	<0.5	<0.7	<0.5	<0.5	---	---	
	10/29/91	4.11	<50	<0.5	<0.5	<0.5	<0.5	---	---	
	01/20/92	3.86	<30	0.84	<0.3	<0.41	<0.48	---	---	
	04/14/92	3.66	70	16	<0.5	3.1	2.1	---	---	
	07/21/92	3.92	<50	<0.5	<0.5	<0.5	<0.5	---	---	
	10/02/92	4.45	<50	<0.5	<0.5	<0.5	<0.5	---	---	
	01/20/93	3.74	<50	3.8	<0.5	0.52	<0.5	---	---	
	05/04/93	3.77	680 ^c	2.8	<0.5	<0.5	<0.5	---	900	
	07/21/93	4.39	<50	8.0	1.2	1.8	7.9	---	5,880	
	10/19/93	3.92	<50	<0.5	<0.5	<0.5	<0.5	---	5,700	
	01/20/94	4.45	<50	1.5	<0.5	<0.5	<0.5	---	3,200	
	04/12/94	4.72	<50	2.9	<0.5	<0.5	<0.5	---	11,380	
	07/20/94	5.32	<50	<0.5	<0.5	<0.5	<0.5	---	2,400	
	10/06/94	4.03	<50	<0.5	<0.5	<0.5	<0.5	---	2,900	
	01/20/95	3.89	290	28	<0.5	<0.5	<0.5	---	4,600	
	07/06/95	3.84	120	3.0	<0.5	<0.5	<0.5	---	---	
	01/24/96	3.80	70	3.1	<0.5	0.8	1.5	---	---	
	01/24/96 ^{dup}	3.80	70	3.2	0.5	0.7	1.5	---	---	
	07/12/96	3.85	<50	0.68	<0.5	<0.5	<0.5	270	3,800	
	01/16/97	3.84	230	34	1.6	1.6	4.2	460	---	
	10/24/97	3.75	<50	<0.50	<0.50	<0.50	<0.50	54	2,900	
MW-3 (4th)	07/12/89	3.83	3,900	380	41	99	30	---	---	
	01/30/90	3.24	5,500	440	35	79	130	---	---	
	04/27/90	4.02	4,500	310	26	37	110	---	---	
	07/31/90	4.31	3,500	210	17	8.4	62	---	---	
	10/30/90	4.52	2,300	610	<0.5	<0.5	28	---	---	
	01/31/91	4.33	4,100	300	20	19	81	---	---	
	04/30/91	3.79	3,800	370	19	8.6	60	---	---	

**Table 2. Analytical Results for Ground Water – Hydrocarbon Compounds – Shell-branded Service Station
WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)**

Well ID (Qtrs Sampled)	Date Sampled	Depth to Water (ft)	TPH-G ←	B	T	E	X	MTBE	DO ^a →
(Concentrations in µg/L)									
	07/30/91	4.37	3,300	160	13	15	87	---	---
	10/29/91	4.00	1,000	35	2.8	2.9	8.1	---	---
	01/20/92	3.87	6,900	380	18	47	48	---	---
	04/14/92	3.15	6,000	480	38	41	55	---	---
	07/21/92	4.17	3,700	330	13	30	23	---	---
	10/02/92	4.43	4,200	260	10	13	12	---	---
	01/20/93	2.20	4,200	360	15	32	26	---	---
	01/20/93 ^{dup}	2.20	3,900	370	15	32	26	---	---
	05/04/93	3.50	12,000	290	520	120	620	---	630
	07/21/93	4.12	2,000	170	12	<10	11	---	4,340
	07/21/93 ^{dup}	4.12	2,000	170	10	<10	14	---	---
	10/19/93	4.20	2,000	240	<0.5	<0.5	<0.5	---	5,740
	01/20/94	4.08	4,200	280	<10	<10	<10	---	4,100
	01/20/94 ^{dup}	4.08	3,800	250	<10	<10	<10	---	4,100
	04/12/94	3.70	4,700	380	<10	<10	<10	---	10,620
	04/12/94 ^{dup}	3.70	3,400	370	<25	<25	<25	---	---
	07/20/94	4.26	5,100	320	77	15	34	---	2,300
	07/20/94 ^{dup}	4.26	4,400	250	14	13	32	---	---
	10/06/94	4.31	4,300	280	9.7	4.0	15	---	2,300
	01/20/95	3.00	4,600	180	18	16	10	---	11,100
	01/20/95 ^{dup}	3.00	4,300	170	12	15	7.2	---	---
	07/06/95	3.75	3,900	310	<0.5	7.6	13	---	---
	07/06/95 ^{dup}	3.75	4,100	330	<0.5	7.9	2.4	---	---
	01/24/96	3.26	5,000	210	14	14	12	---	---
	07/12/96	3.77	2,700	210	<0.5	<0.5	<0.5	3,600	2,400
	07/12/96 ^{dup}	3.77	2,800	210	<0.5	<0.5	<0.5	3,400	2,400
	01/16/97	2.38	4,200	130	19	10	34	4,400(4,500)	2,300
	10/24/97	4.12	4,100	270	9.0	5.1	8.8	2,000	1,900
	10/24/97 ^{dup}	4.12	1,700	220	<5.0	<5.0	<5.0	1,500	1,900
MW-4	01/31/90	4.50	<50	<0.5	<0.5	<0.5	<0.5	---	---
(2nd & 4th)	04/27/90	3.62	130 ^c	<0.5	<0.5	<0.5	<0.5	---	---
	07/31/90	4.19	<50	<0.5	<0.5	<0.5	<0.5	---	---

**Table 2. Analytical Results for Ground Water – Hydrocarbon Compounds – Shell-branded Service Station
WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)**

Well ID (Qtrs Sampled)	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO ^a
	10/30/90	4.19	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/31/91	4.49	50 ^c	<0.5	<0.5	<0.5	<0.5	---	---
	04/30/91	4.02	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/30/91	4.39	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/29/91	3.75	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/92	3.94	<30	<0.3	<0.3	<0.3	<0.3	---	---
	04/14/92	3.71	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/21/92	4.02	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/02/92	4.13	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/93	3.10	<50	<0.5	<0.5	<0.5	<0.5	---	---
	05/04/93	3.70	<50	<0.5	<0.5	<0.5	<0.5	---	1,740
	07/21/93	3.81	<50	0.56	<0.5	<0.5	<0.5	---	4,510
	10/10/93	3.94	<50	<0.5	<0.5	<0.5	<0.5	---	5,750
	01/20/94	4.00	<50	0.71	<0.5	<0.5	<0.5	---	4,400
	04/12/94	4.01	<50	<0.5	<0.5	<0.5	<0.5	---	7,290
	07/20/94	3.91	160	<0.5	<0.5	<0.5	<0.5	---	6,400
	10/11/94	3.99	410	<0.5	<0.5	<0.5	<0.5	---	5,000
	01/20/95	3.56	<50	<0.5	<0.5	<0.5	<0.5	---	4,900
	07/06/95	3.85	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/24/96	2.56	<50	<0.5	<0.5	0.6	1.8	---	---
	07/12/96	3.36	<50	<0.5	<0.5	<0.5	<0.5	---	2,700
	01/16/97 ^b	---	---	---	---	---	---	---	---
	10/24/97 ^b	---	---	---	---	---	---	---	---
	05/13/98 ^b	---	---	---	---	---	---	---	---
MW-5 (2nd & 4th)	01/31/90	7.12	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/27/90	4.19	210 ^c	<0.5	<0.5	<0.5	<0.5	---	---
	07/31/90	4.09	90	<0.5	<0.5	<0.5	<0.5	---	---
	10/30/90	4.39	100	0.8	0.7	0.6	1.4	---	---
	01/31/91	4.49	80 ^c	<0.5	<0.5	<0.5	<0.5	---	---
	04/30/91	4.27	90	<0.5	<0.5	<0.5	<0.5	---	---
	07/30/91	4.37	90	<0.5	<0.5	<0.5	<0.5	---	---
	10/29/91	3.79	<50	<0.5	<0.5	<0.5	<0.5	---	---

**Table 2. Analytical Results for Ground Water – Hydrocarbon Compounds – Shell-branded Service Station
WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)**

Well ID (Qtrs Sampled)	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO ^a
	01/20/92	4.09	<30	<0.3	<0.3	<0.3	<0.3	---	---
	04/14/92	4.12	<50 ^c	<0.5	<0.5	<0.5	<0.5	---	---
	07/21/92	4.13	74 ^c	<0.5	<0.5	<0.5	<0.5	---	---
	10/02/92	4.30	76 ^c	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/93	3.12	72 ^c	<0.5	<0.5	<0.5	<0.5	---	---
	05/04/93	4.07	70 ^c	<0.5	<0.5	<0.5	<0.5	---	1,620
	05/04/93 ^{dup}	4.07	80 ^c	<0.5	<0.5	<0.5	<0.5	---	---
	07/21/93	4.05	<50	<0.5	<0.5	<0.5	<0.5	---	3,460
	10/19/93	4.20	51	<0.5	<0.5	<0.5	<0.5	---	3,820
	01/20/94	4.40	90	<0.5	<0.5	<0.5	<0.5	---	4,200
	04/12/94	4.18	67	<0.5	<0.5	<0.5	<0.5	---	---
	07/20/94	4.06	<50	<0.5	<0.5	<0.5	<0.5	---	3,200
	10/06/94	4.01	80	<0.5	<0.5	<0.5	<0.5	---	2,100
	10/06/94 ^{dup}	4.01	60	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/95	3.49	<50	<0.5	<0.5	<0.5	<0.5	---	3,200
	07/06/95	4.06	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/24/96	2.90	70	<0.5	<0.5	0.8	2.9	---	---
	07/12/96	4.02	62	<0.5	<0.5	<0.5	<0.5	---	1,900
	01/16/97	2.59	66	0.91	0.89	<0.50	1.7	<2.5	2,200
	01/16/97 ^{dup}	2.59	<50	0.70	0.78	<0.50	1.3	<2.5	2,200
	10/24/97	4.15	59	<0.50	<0.50	<0.50	<0.50	17	4,600
	05/13/98	3.64	72	<0.50	<0.50	<0.50	<0.50	<2.5	2,100
	05/13/98^{dup}	3.64	70	<0.50	<0.50	<0.50	<0.50	<2.5	2,100
E-4 ^f (Abandoned)	07/12/89	---	<50	<0.5	<1	<1	<3	---	---
	01/31/90	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/27/90	---	120 ^c	<0.5	<0.5	<0.5	<0.5	---	---
	07/31/90	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/30/90	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/31/91	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/30/91	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/30/91	---	<50	<0.5	0.6	<0.5	<0.5	---	---
	10/29/91	---	<50	<0.5	<0.5	<0.5	<0.5	---	---

**Table 2. Analytical Results for Ground Water – Hydrocarbon Compounds – Shell-branded Service Station
WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)**

Well ID (Qtrs Sampled)	Date Sampled	Depth to Water (ft)	TPH-G ←	B	T	E	X	MTBE	DO ^a
(Concentrations in µg/L) →									
	01/20/92	--- ^d	<30	<0.3	<0.3	<0.3	<0.3	---	---
	04/14/92	--- ^d	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/21/92	--- ^d	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/02/92	--- ^d	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/93	--- ^d	<50	<0.5	<0.5	<0.5	<0.5	---	---
	05/04/93	--- ^d	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/21/93	--- ^d	<50	5.4	0.72	1.0	4.4	---	630
	10/19/93	--- ^d	<50	<0.5	<0.5	<0.5	<0.5	---	5,440
	01/20/94	--- ^d	<50	<0.5	<0.5	<0.5	<0.5	---	5,630
	04/12/94	--- ^d	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/20/94	--- ^d	<50	<0.5	<0.5	<0.5	<0.5	---	9,410
	10/06/94	--- ^d	<50	<0.5	<0.5	<0.5	<0.5	---	2,000
	01/20/95	--- ^d	<50	<0.5	<0.5	<0.5	<0.5	---	1,300
									3,700
Trip Blank	07/12/89		<50	<0.5	<1	<1	<3	---	---
	01/31/90		<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/27/90		<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/31/90		<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/30/90		<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/31/91		<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/30/91		<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/30/91		<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/29/91		<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/02/92		<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/93		<50	<0.5	<0.5	<0.5	<0.5	---	---
	05/03/93		<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/21/93		<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/19/93		<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/94		<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/12/94		<50	<0.5	0.71	<0.5	<0.5	---	---
	07/20/94		<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/06/94		<50	<0.5	<0.5	<0.5	<0.5	---	---

**Table 2. Analytical Results for Ground Water – Hydrocarbon Compounds – Shell-branded Service Station
WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)**

Well ID (Qtrs Sampled)	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO ^a
			(Concentrations in µg/L)						
	01/20/95		<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/06/95		<50	<0.5	<0.5	<0.5	<0.5	---	---
Bailer	04/27/90		110 ^c	<0.5	<0.5	<0.5	<0.5	---	---
Blank	01/31/91		<5	<0.5	<0.5	<0.5	<0.5	---	---
	10/02/92		ND	ND	ND	ND	ND	---	---
MCLs			NE	1	150	700	1,750	NE	

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
 B = Benzene by EPA Method 8020
 T = Toluene by EPA Method 8020
 E = Ethylbenzene by EPA Method 8020
 X = Xylenes by EPA Method 8020
 MTBE = Methyl tert-butyl ether by EPA Method 8020. **Result in parentheses indicates MTBE by EPA Method 8260.**
 DO = Dissolved oxygen
 µg/L = Micrograms per liter
 MCLs = California primary maximum contaminant levels for drinking water (22 CCR 64444)
 NE = MCLs not established
 ND = Not detected

Notes:

a = Field measurement of dissolved oxygen concentration
 b = Well inaccessible; not sampled
 c = Chromatogram contained discrete peaks not representative of gasoline
 d = Artesian well; potentiometric surface above top-of-casing elevation
 e = Due to coelution with early eluters, no result could be determined for MTBE
 f = Well abandoned June 16, 1995
 --- = Not analyzed/Not available
 <n = Below detection limit of n µg/L

Table 3. Ground Water Analytical Data - Halogenated Volatile Organic Compounds - Shell-branded Service Station
 WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California

Well ID (Qtrs Sampled)	Date	cis- 1,2-Dichloroethene	trans- 1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Notes
		← (Concentrations in µg/L) →				
MW-1 (2nd & 4th)	05/13/98	<0.50	<0.50	<0.50	<0.50	a
MW-4 (2nd & 4th)	05/13/98	---	---	---	---	b
MW-5 (2nd & 4th)	05/13/98 05/13/98					a, duplicate

Abbreviations & Notes:

µg/L = Micrograms per liter

--- = Not available

<n = Below detection limits of n µg/L

a = Chloroform was detected at 120 µg/L in the equipment blank; samples analyzed past hold time

b = Well inaccessible

Halogenated volatile organic compounds by EPA Method 8010; only detected compounds are tabulated

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

June 18, 1998

Shell Oil Company
P.O. Box 8080
Martinez, CA 94553

Attn: Alex Perez

Shell WIC #204-6001-0109
29 Wildwood Ave.
Piedmont, California

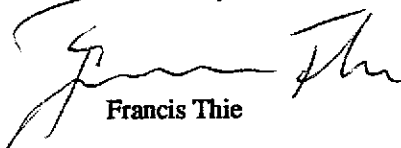
2nd Quarter 1998

Groundwater Monitoring Report 980513-S-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
1144 65th St. Suite C
Oakland, CA 94608
Attn: Maureen Feineman

(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 (seen)	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	05/13/98	TOC	--	NONE	--	--	2.81	13.20
MW-2	05/13/98	TOC	--	NONE	--	--	3.78	11.45
MW-3	05/13/98	TOC	--	NONE	--	--	3.22	9.01
MW-4	05/13/98	INACCESSIBLE	--	--	--	--	--	--
MW-5*	05/13/98	TOC	--	NONE	--	--	3.64	15.92

* Sample DUP was a duplicate sample taken from well MW-5.



SHELL OIL PRODUCTS COMPANY CHAIN OF CUSTODY RECORD

WIC OR FACILITY ID: 204-6001-0109 Date: 05/13/98 Results to: Consult Shell Page 01 of 01

Site Address: 29 Wildwood Ave. Princeton
 Consultant/Contact: BTS
 Address: 1687 Princeton Ave. S.E.
 Phone: 703-733-1235
 Shell Engineer: Steve Teu

Lab: SEQR-CA
 TURN AROUND TIME *Select one only*
 24 hrs. 48 hrs. 15 days (Normal) Other

CLASS TYPE/DETAIL TYPE *Select one only*
 Site Invest (4441) Wtr Rem/Sys (4453)
 Soil Clas/Disp (4442) G.W. Monitor (4461)
 Wtr Clas/Disp (4443) Other
 Soil/Air Rem/Sys (4452)

Waste Protocol Number: _____ Start Time (military): 12:15

Sampled by: DOUG SANDERS

UST Agency: _____

Analysis Required
 TPH-P/MBTEX (8015/8021) TPH-P/BTEX (8015/8021)
 MBTEX (8021) BTEX (8021)
 TPH-P (8015m) TPH-E (8015m)
 TPH-xx (8015m) TRPH (418.1)
 MBTEX (8260) VOCs (8260) (specify)
 SVOCs (8270) (specify)
 Lead (specify) Test for Disposal Other (specify)

SAMPLE MATRIX *Select one only*
 Water NAPL Sludge Sediment
 Soil Vapor Bedrock Other

Field Sample ID	Sample Time (military)	Composite?	Acid pres.	Cnt. Sz. (40ml)	Cnt. Sz. -Other	Total No. Containers	TPH-P/MBTEX (8015/8021)	TPH-P/BTEX (8015/8021)	MBTEX (8021)	BTEX (8021)	TPH-P (8015m)	TPH-E (8015m)	TPH-xx (8015m)	TRPH (418.1)	MBTEX (8260)	VOCs (8260) (specify)	SVOCs (8270) (specify)	Lead (specify)	Test for Disposal	Other (specify)	
- MW-1	12:37					06															
- MW-5	13:00					06															
- DUP	-:-:-					06															
- EB	12:40					06															

LAB USE ONLY
 Lab Tracking No.: 9805A0
 Sample Condition/Comments:
 1
 2
 3
 4
 Cooler Temperature: _____
 Material Description: _____

Comments: EPA 8010

Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>DOUG SANDERS</u>	Date: <u>5/14/98</u>	Time: <u>4:35</u>	Received By (signature): <u>[Signature]</u>	Printed Name: <u>Steve Teu</u>	Date: <u>5/14/98</u>	Time: <u>4:35</u>
Relinquished By (signature): <u>[Signature]</u>	Printed Name: _____	Date: <u>5/14/98</u>	Time: _____	Received By (signature): _____	Printed Name: _____	Date: _____	Time: _____
Relinquished By (signature): _____	Printed Name: _____	Date: _____	Time: _____	Received By (signature): <u>[Signature]</u>	Printed Name: <u>Josh Horn</u>	Date: <u>5-18</u>	Time: <u>18:10</u>

Comments

02143

14 6 10



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
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Walnut Creek, CA 94598
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(707) 792-1865

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Project: Shell 29 Wildwood Ave.

Enclosed are the results from samples received at Sequoia Analytical on May 14, 1998.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9805A50 -01	LIQUID, MW-1	05/13/98	Halogen. Volatiles, Water
9805A50 -01	LIQUID, MW-1	05/13/98	Purgeable TPH/BTEX/MTBE
9805A50 -02	LIQUID, MW-5	05/13/98	Halogen. Volatiles, Water
9805A50 -02	LIQUID, MW-5	05/13/98	Purgeable TPH/BTEX/MTBE
9805A50 -03	LIQUID, DUP	05/13/98	Halogen. Volatiles, Water
9805A50 -03	LIQUID, DUP	05/13/98	Purgeable TPH/BTEX/MTBE
9805A50 -04	LIQUID, EB	05/13/98	Halogen. Volatiles, Water
9805A50 -04	LIQUID, EB	05/13/98	Purgeable TPH/BTEX/MTBE

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
404 N. Wiget Lane
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FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 29 Wildwood Ave. Sample Descript: MW-1 Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9805A50-01	Sampled: 05/13/98 Received: 05/14/98 Analyzed: 05/30/98 Reported: 06/12/98
--	---	---


GC Batch Number: GC052998OVOA24B
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	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	104

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 Attention: Fran Thie	Client Proj. ID: Shell 29 Wildwood Ave. Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9805A50-01	Sampled: 05/13/98 Received: 05/14/98 Analyzed: 05/27/98 Reported: 06/12/98
--	---	---

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	105

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
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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 29 Wildwood Ave. Sample Descript: MW-5 Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9805A50-02	Sampled: 05/13/98 Received: 05/14/98 Analyzed: 05/30/98 Reported: 06/12/98
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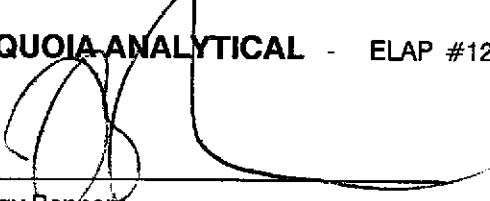
GC Batch Number: GC052998OVOA24B
Instrument ID: GCHP24_2

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon Tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	16
trans-1,2-Dichloroethene	5.0	9.3
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	200
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	28
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	105

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 Attention: Fran Thie	Client Proj. ID: Shell 29 Wildwood Ave. Sample Descript: MW-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9805A50-02	Sampled: 05/13/98 Received: 05/14/98 Analyzed: 05/27/98 Reported: 06/12/98
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Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	72
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:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	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





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 29 Wildwood Ave. Sample Descript: DUP Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9805A50-03	Sampled: 05/13/98 Received: 05/14/98 Analyzed: 05/30/98 Reported: 06/12/98
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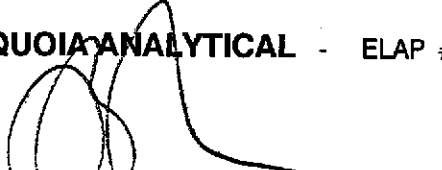
JC Batch Number: GC052998OVOA24B
Instrument ID: GCHP24_2

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon Tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	16
trans-1,2-Dichloroethene	5.0	8.7
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	190
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	19
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	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 29 Wildwood Ave. Sample Descript: DUP Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9805A50-03	Sampled: 05/13/98 Received: 05/14/98 Analyzed: 05/27/98 Reported: 06/12/98
Attention: Fran Thie		

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	70
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:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	100

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 29 Wildwood Ave. Sample Descript: EB Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9805A50-04	Sampled: 05/13/98 Received: 05/14/98 Analyzed: 05/30/98 Reported: 06/12/98
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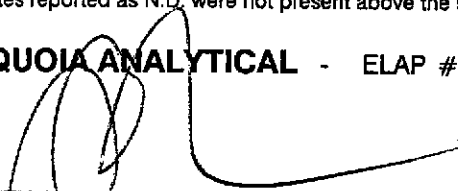
GC Batch Number: GC053098OVOA24A
Instrument ID: GCHP24_2

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	2.5	N.D.
Bromoform	2.5	N.D.
Bromomethane	5.0	N.D.
Carbon Tetrachloride	2.5	N.D.
Chlorobenzene	2.5	N.D.
Chloroethane	5.0	N.D.
2-Chloroethylvinyl ether	5.0	N.D.
Chloroform	2.5	120
Chloromethane	5.0	N.D.
Dibromochloromethane	2.5	N.D.
1,2-Dichlorobenzene	2.5	N.D.
1,3-Dichlorobenzene	2.5	N.D.
1,4-Dichlorobenzene	2.5	N.D.
1,1-Dichloroethane	2.5	N.D.
1,2-Dichloroethane	2.5	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	2.5	N.D.
trans-1,2-Dichloroethene	2.5	N.D.
1,2-Dichloropropane	2.5	N.D.
cis-1,3-Dichloropropene	2.5	N.D.
trans-1,3-Dichloropropene	2.5	N.D.
Methylene chloride	25	N.D.
1,1,2,2-Tetrachloroethane	2.5	N.D.
Tetrachloroethene	2.5	N.D.
1,1,1-Trichloroethane	2.5	N.D.
1,1,2-Trichloroethane	2.5	N.D.
Trichloroethene	2.5	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl chloride	5.0	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





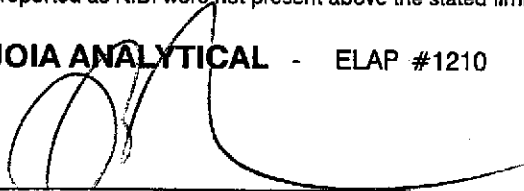
Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 29 Wildwood Ave. Sample Descript: EB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9805A50-04	Sampled: 05/13/98 Received: 05/14/98 Analyzed: 05/27/98 Reported: 06/12/98
Attention: Fran Thie		

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

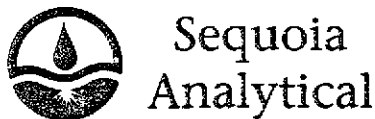
Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	104

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





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

Client Project ID: Shell 29 Wildwood Ave.
Matrix: Liquid

Work Order #: 9805A50 -01

Reported: Jun 15, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	34035	34035	34035	34035
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 8015M	EPA 8015M	EPA 8015M	EPA 8015M

Analyst:	ADS	ADS	ADS	ADS
MS/MSD #:	701375396	701375396	701375396	701375396
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/27/98	5/27/98	5/27/98	5/27/98
Analyzed Date:	5/27/98	5/27/98	5/27/98	5/27/98
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	100 µg/L	100 µg/L	100 µg/L	300 µg/L
Result:	94.38	98.27	99.57	302
MS % Recovery:	94.3	98.2	99.6	101
Dup. Result:	92.22	96.41	97.71	297.5
MSD % Recov.:	92.2	96.3	97.7	99.2
RPD:	2.3	1.9	1.9	1.5
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	LCS052798	LCS052798	LCS052798	LCS052798
Prepared Date:	5/27/98	5/27/98	5/27/98	5/27/98
Analyzed Date:	5/27/98	5/27/98	5/27/98	5/27/98
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	100 µg/L	100 µg/L	100 µg/L	300 µg/L
LCS Result:	96.64	97.92	97.86	296.3
LCS % Recov.:	96.6	97.9	97.9	98.8

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

SEQUOIA ANALYTICAL
Elap #2245

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

9805A50.BLA <1>





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

Client Project ID: Shell 29 Wildwood Ave.
Matrix: Liquid

Work Order #: 9805A50-02-04

Reported: Jun 15, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	34034	34034	34034	34034
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 8015M	EPA 8015M	EPA 8015M	EPA 8015M

Analyst:	ADS	ADS	ADS	ADS
MS/MSD #:	701392201	701392201	701392201	701392201
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/27/98	5/27/98	5/27/98	5/27/98
Analyzed Date:	5/27/98	5/27/98	5/27/98	5/27/98
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	100 µg/L	100 µg/L	100 µg/L	300 µg/L
Result:	91.29	89.54	88.86	276.6
MS % Recovery:	91.3	89.5	88.7	92.1
Dup. Result:	89.94	90.67	89.41	278.7
MSD % Recov.:	89.9	90.7	89.3	92.9
RPD:	1.5	1.3	0.62	0.76
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	LCS052798	LCS052798	LCS052798	LCS052798
Prepared Date:	5/27/98	5/27/98	5/27/98	5/27/98
Analyzed Date:	5/27/98	5/27/98	5/27/98	5/27/98
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	100 µg/L	100 µg/L	100 µg/L	300 µg/L
LCS Result:	95.7	95.39	92.28	286.7
LCS % Recov.:	95.7	95.4	92.3	95.6

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

SEQUOIA ANALYTICAL
Etap #2245

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

9805A50.BLA <2>





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell 29 Wildwood Ave. Lab Proj. ID: 9805A50	Received: 05/14/98 Reported: 06/12/98
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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 15 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

EPA 8010

Samples analyzed past holdtime.

SEQUOIA ANALYTICAL


Peggy Penner
Project Manager

