

September 1, 1998

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

Re: **Second Quarter 1998 Monitoring Report**
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, California
WIC #204-6138-0501
Cambria Project #24-314-298



Dear Mr. Seery:

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

SECOND QUARTER 1998 ACTIVITIES

Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled the site wells. Cambria calculated ground water elevations, compiled the analytical data (Table 1) and prepared ground water elevation contour map (Figure 1). The Blaine report is included as Attachment A.

ANTICIPATED FUTURE ACTIVITIES

The next ground water monitoring event is scheduled for second quarter 1999. At that time, Blaine will gauge and sample the site wells, and Cambria will tabulate the data and prepare a monitoring report.

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

CLOSING

We appreciate the opportunity to work with you on this project. Please call Darryk Ataide at (510) 420-3339 if you have any questions or comments.

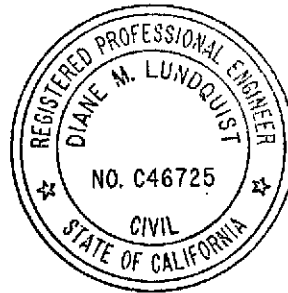
Sincerely,
Cambria Environmental Technology, Inc.



Darryk Ataide
Project Environmental Scientist



Diane M. Lundquist, P.E.
Principal Engineer



Attachment: A - Blaine Ground Water Monitoring Report

cc: Karen Petryna, Equiva Services LLC, P.O. Box 8080, Martinez, California 94553
Stephen Hill, Regional Water Quality Control Board - San Francisco Bay Region,
1515 Clay Street, Suite 1400, Oakland, California 94612
Ted Klenk, Pleasanton Fire Department, 4444 Railroad Street, Pleasanton, California 94566

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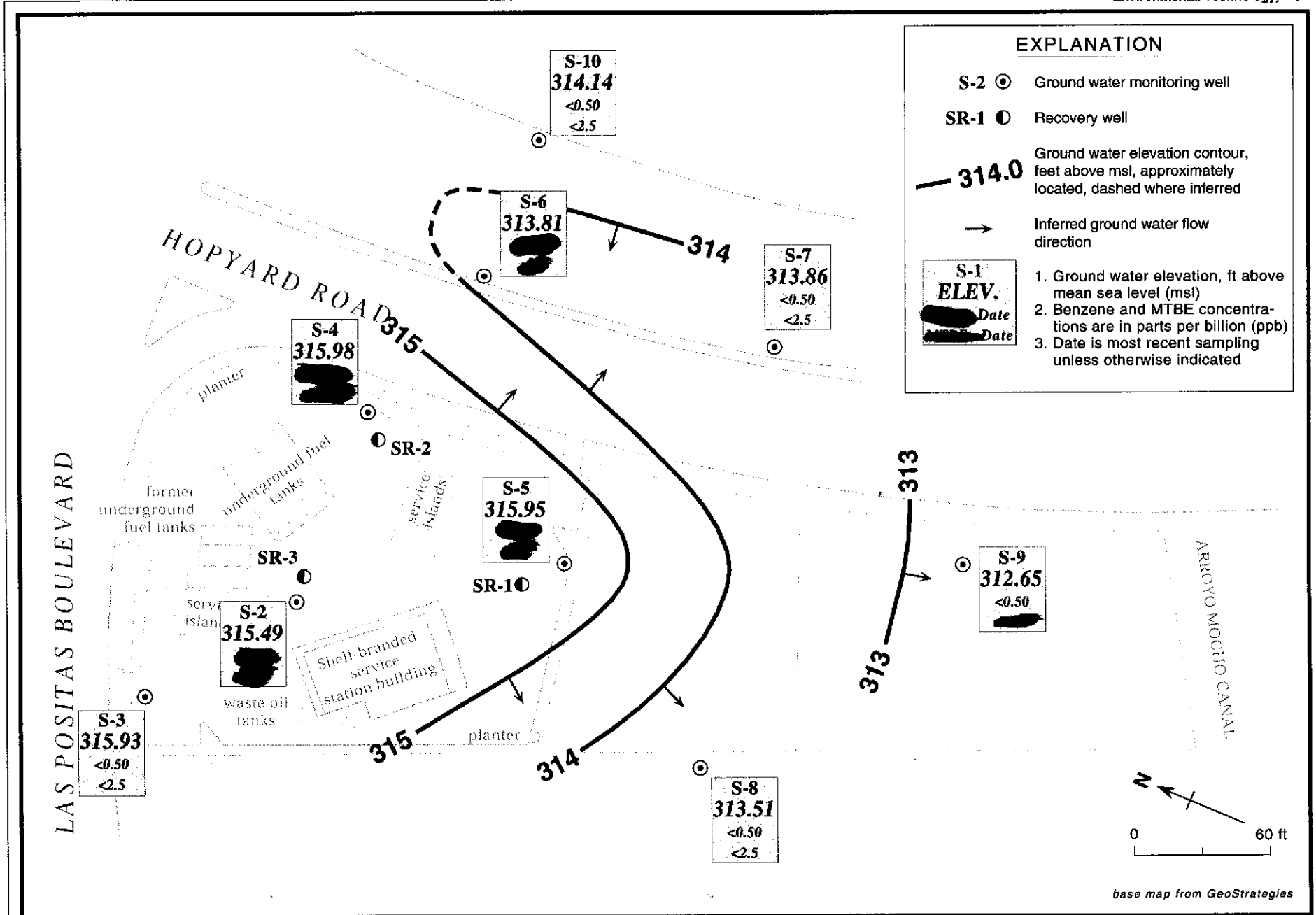


Figure 1. Ground Water Elevation Contours - June 19, 1998 - Shell-branded Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California

Table 1. Ground Water Elevations and Analytic Results – Shell-branded Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California

Well ID	Sampling Date	Top-of-Casing (ft/msl)	Depth to Water (ft)	GW Elevation (ft/msl)	(Concentrations in µg/L)					MTBE	DO mg/L
					TPH-G	B	T	E	X		
S-2	03/20/91	329.21	---	---	110	30	2.2	10	7.0	---	---
	06/26/91		---	---	50 ^a	6.3	<0.5	3.3	1.3	---	---
	09/05/91		---	---	90	12	3.2	2.5	2.3	---	---
	12/13/91		---	---	<50	12	<0.5	<0.5	<0.5	---	---
	03/11/92		---	---	<30	<0.3	<0.3	<0.3	<0.3	---	---
	06/15/92		---	---	<50	0.9	<0.5	<0.5	<0.5	---	---
	09/17/92		---	---	78	2.6	1.3	1.3	0.9	---	---
	12/11/92		---	---	<50	0.8	<0.5	<0.5	<0.5	---	---
	02/04/93		---	---	55	1.3	0.7	0.7	<0.5	---	---
	06/03/93		---	---	<50	0.7	<0.5	<0.5	<0.5	---	---
	09/15/93		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	12/09/93			14.70	314.51	<50	<0.5	<0.5	<0.5	<0.5	---
	06/16/94			14.94	314.27	<50	0.8	<0.5	0.7	<0.5	---
	09/13/94			15.17	314.04	<50	<0.5	<0.5	<0.5	<0.5	---
	06/21/95			14.25	314.96	<50	<0.5	<0.5	<0.5	<0.5	---
	06/12/96			14.31	314.90	<50	6.1	<0.5	<0.5	<0.5	48
	06/25/97			14.40	314.81	120	25	0.59	2.4	8.7	130
06/19/98			13.72	315.49	450	96	<2.5	4.0	19	180	2.8
S-3	03/20/91	327.67	---	---	70	2.3	8.9	4.0	23	---	---
	06/26/91		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	09/05/91		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	12/13/91		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	03/11/92		---	---	<30	<0.5	<0.5	<0.5	<0.5	---	---
	06/15/92		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	09/17/92		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	12/11/92		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	02/04/93		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	06/03/93		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	09/15/93		---	---	---	---	---	---	---	---	---

Table 1. Ground Water Elevations and Analytic Results - Shell-branded Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California (continued)

Well ID	Sampling Date	Top-of-Casing (ft/msl)	Depth to Water (ft)	GW Elevation (ft/msl)	(Concentrations in µg/L)						DO mg/L
					TPH-G	B	T	E	X	MTBE	
	12/09/93		---	---	---	---	---	---	---	---	---
	09/13/94		15.17	312.50	---	---	---	---	---	---	---
	06/21/95		12.49	315.18	50	4.1	<0.5	20	1.2	---	---
	06/12/96		12.53	315.14	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---
	06/25/97		12.64	315.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
	06/19/98		11.74	315.93	<50	<0.50	<0.50	<0.50	<0.50	<2.5	4.1
S-4	03/20/91	328.53	---	---	1,200	100	<2.0	210	130	---	---
	06/26/91		---	---	220	14	<0.5	34	17	---	---
	09/05/91		---	---	580	31	0.8	53	26	---	---
	12/13/91		---	---	370	24	0.9	1.3	46	---	---
	03/11/92		---	---	1,600	23	1.2	12	20	---	---
	06/15/92		---	---	480	48	<1.0	95	22	---	---
	09/17/92		---	---	260	35	1.2	51	7.8	---	---
	12/11/92		---	---	270	34	0.8	28	4.5	---	---
	02/04/93		---	---	1,100	12	<5.0	89	100	---	---
	06/03/93		---	---	210	48	1.1	42	4.0	---	---
	09/15/93		---	---	700	21	<1.0	110	91	---	---
	12/09/93		14.16	314.37	250	39	<0.5	3.8	2.6	---	---
	03/04/94		14.17	314.36	150	25	1.4	6.8	2.8	---	---
	03/04/94 ^{dup}		14.17	314.36	140	28	0.8	7.9	3.2	---	---
	06/16/94		14.14	314.39	90	12	<0.5	1.8	2.4	---	---
	06/16/94 ^{dup}		14.14	314.39	80	5.9	<0.5	1.5	0.9	---	---
	09/13/94		14.42	314.11	<50	23	<0.5	4.9	2.4	---	---
	09/13/94 ^{dup}		14.42	314.11	<50	23	<0.5	4.0	2.3	---	---
	06/21/95		13.82	314.71	270	34	1.4	25	7.6	---	---
	06/21/95 ^{dup}		13.82	314.71	280	35	2.1	26	8.4	---	---
	06/12/96		13.64	314.89	360	52	<0.5	<0.5	<0.5	92	92
	06/12/96 ^{dup}		13.64	314.89	430	54	<1.2	72	21	96	---
	06/25/97		13.74	314.79	6,700	93	1,200	240	1,300	6,900(6,800)	0.6

Table 1. Ground Water Elevations and Analytic Results - Shell-branded Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California (continued)

Well ID	Sampling Date	Top-of-Casing (ft/msl)	Depth to Water (ft)	GW Elevation (ft/msl)	←————— (Concentrations in µg/L) —————→					MTBE	DO mg/L
					TPH-G	B	T	E	X		
	06/19/98		12.55	315.98	3,500	56	15	140	670	2,100	0.8
	06/19/98^{dwp}		12.55	315.98	3,000	51	14	110	530	2,000	0.8
S-5	03/20/91	329.66	---	---	310	39	12	18	30	---	---
	06/26/91		---	---	1,300	250	62	120	180	---	---
	09/05/91		---	---	4,700	660	150	170	280	---	---
	12/13/91		---	---	1,400	580	19	110	80	---	---
	03/11/92		---	---	<30	<0.3	<0.3	<0.3	<0.3	---	---
	06/15/92		---	---	1,800	380	52	120	180	---	---
	09/17/92		---	---	2,200	750	91	170	170	---	---
	12/11/92		---	---	8,700	1,600	66	48	340	---	---
	02/04/93		---	---	150	156	0.7	4.7	4.0	---	---
	06/03/93		---	---	480	140	3.4	17	14	---	---
	09/15/93		---	---	80	2.4	0.5	1.4	2.9	---	---
	12/09/93		16.26	313.40	120	0.56	<0.5	2.2	1.2	---	---
	03/04/94		16.25	313.41	70	<0.5	<0.5	<0.5	<0.5	---	---
	06/16/94		16.04	313.62	<50	<0.5	<0.5	<0.5	<0.5	---	---
	09/13/94		11.52	318.14	<50	<0.5	<0.5	<0.5	<0.5	---	---
	06/21/95		14.50	315.16	<50	<0.5	<0.5	<0.5	<0.5	---	---
	06/12/96		12.53	317.13	<500	6.0	<5.0	<5.0	<5.0	1,400	---
	06/25/97		15.34	314.32	<250	<2.5	<2.5	<2.5	<2.5	1,100	1.1
	06/19/98		13.71	315.95	<50	1.0	<0.50	<0.50	<0.50	61	3.6
S-6	03/20/91	327.62	---	---	130 ^a	606	0.6	0.7	3.0	---	---
	06/26/91		---	---	120 ^a	3.8	0.8	<0.5	1.7	---	---
	09/05/91		---	---	60	<0.5	0.8	<0.5	0.5	---	---
	12/13/91		---	---	150	2.3	<0.5	<0.5	150	---	---
	03/11/92		---	---	<30	<0.3	<0.3	<0.5	<0.3	---	---
	06/15/92		---	---	170	<0.5	<0.5	<0.5	<0.5	---	---
	09/17/92		---	---	190	<0.5	1.6	<0.5	1.2	---	---

Table 1. Ground Water Elevations and Analytic Results - Shell-branded Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California (continued)

Well ID	Sampling Date	Top-of-Casing (ft/msl)	Depth to Water (ft)	GW Elevation (ft/msl)	TPH-G	(Concentrations in µg/L)					DO mg/L
						B	T	E	X	MTBE	
	12/11/92		---	---	180	<0.5	0.8	<0.5	0.7	---	---
	02/04/93		---	---	290	<0.5	<0.5	<0.5	0.7	---	---
	06/03/93		---	---	100	1.2	<0.5	<0.5	<0.5	---	---
	09/15/93		---	---	160	1.4	<0.5	0.9	2.0	---	---
	12/09/93		14.68	312.94	130	2.3	2.6	5.1	6.2	---	---
	03/04/94		14.42	313.20	220	<0.5	<0.5	<0.5	<0.5	---	---
	06/16/94		14.92	312.70	60	<0.5	<0.5	<0.5	<0.5	---	---
	09/13/94		14.72	312.90	<50	<0.5	6.0	<0.5	<0.5	---	---
	06/21/95		13.86	313.76	270	<0.5	<0.5	<0.5	<0.5	---	---
	06/12/96		13.90	313.72	200	2.0	<0.5	<0.5	<0.5	12	---
	06/25/97		13.64	313.98	180	<0.50	0.61	<0.50	0.77	28	1.8
	06/25/97 ^{dup}		13.64	313.98	130	<0.50	<0.50	<0.50	<0.50	21	1.8
	06/19/98		13.81	313.81	100	7.6	<0.50	<0.50	<0.50	27	1.7
S-7	03/20/91	328.67	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	06/26/91		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	09/05/91		---	---	<50	<0.5	0.6	<0.5	<0.5	---	---
	12/13/91		---	---	<50	<0.6	<0.5	<0.5	<0.5	---	---
	03/11/92		---	---	<50	<0.3	<0.3	<0.3	<0.3	---	---
	06/15/92		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	09/17/92		---	---	<50	0.6	0.6	<0.5	<0.5	---	---
	12/11/92		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	02/04/93		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	06/03/93		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	09/15/93		---	---	---	---	---	---	---	---	---
	12/09/93		---	---	---	---	---	---	---	---	---
	09/13/94		16.83	311.84	---	---	---	---	---	---	---
	06/21/95		15.88	312.79	<50	<0.5	<0.5	<0.5	<0.5	---	---
	06/12/96		16.22	312.45	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---

Table 1. Ground Water Elevations and Analytic Results - Shell-branded Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California (continued)

Well ID	Sampling Date	Top-of-Casing (ft/msl)	Depth to Water (ft)	GW Elevation (ft/msl)	(Concentrations in µg/L)						DO mg/L
					TPH-G	B	T	E	X	MTBE	
	06/25/97		16.12	312.55	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	06/19/98		14.81	313.86	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
S-8	03/20/91	327.00	---	---	<50 ^a	0.8	1.8	2.6	5.2	---	---
	06/26/91		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	09/05/91		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	12/13/91		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	03/11/92		---	---	<30	<0.3	<0.3	<0.3	<0.3	---	---
	06/15/92		---	---	<50	1.4	1.9	<0.5	<0.5	---	---
	09/17/92		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	12/11/92		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	02/04/93		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	06/03/93		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	09/15/93		---	---	---	---	---	---	---	---	---
	12/09/93		---	---	---	---	---	---	---	---	---
	09/13/94		15.16	313.08	---	---	---	---	---	---	---
	06/21/95		14.11	312.89	<50	<0.5	<0.5	<0.5	<0.5	---	---
	06/12/96		14.20	312.80	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---
	06/25/97		14.42	312.58	170	<0.50	<0.50	<0.50	<0.50	<2.5	0.5
	06/19/98		13.49	313.51	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
S-9	03/20/91	328.24	---	---	70 ^a	0.7	0.7	<0.5	1.0	---	---
	06/26/91		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	09/05/91		---	---	<50	<0.5	0.8	<0.5	<0.5	---	---
	12/13/91		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	03/11/92		---	---	<30	<0.3	<0.3	<0.3	<0.3	---	---
	06/15/92		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	09/17/92		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	12/11/92		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	02/04/93		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---

Table 1. Ground Water Elevations and Analytic Results - Shell-branded Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California (continued)

Well ID	Sampling Date	Top-of-Casing (ft/msl)	Depth to Water (ft)	GW Elevation (ft/msl)	(Concentrations in µg/L)						DO mg/L
					TPH-G	B	T	E	X	MTBE	
	06/03/93		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	09/15/93		---	---	---	---	---	---	---	---	---
	12/09/93		16.89	311.35	<50	<0.5	<0.5	<0.5	<0.5	---	---
	03/04/94		17.22	311.02	<50	<0.5	<0.5	<0.5	<0.5	---	---
	06/16/94		17.46	310.78	<50	<0.5	<0.5	<0.5	<0.5	---	---
	09/13/94		17.59	310.65	<50	<0.5	<0.5	<0.5	<0.5	---	---
	06/21/95		17.03	311.21	<50	<0.5	<0.5	<0.5	<0.5	---	---
	06/12/96		16.76	311.48	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---
	06/25/97		16.89	311.35	<50	<0.50	<0.50	<0.50	<0.50	2.8	1.0
	06/19/98		15.59	312.65	<50	<0.50	<0.50	<0.50	<0.50	7.1	3.8
S-10	03/20/91	326.55	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	06/26/91		---	---	50	1.8	5.8	1.9	13	---	---
	09/05/91		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	12/13/91		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	03/11/92		---	---	<30	<0.3	<0.3	<0.3	<0.3	---	---
	06/15/92		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	09/17/92		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	12/11/92		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	02/04/93		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	06/03/93		---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	09/15/93		---	---	---	---	---	---	---	---	---
	12/09/93		---	---	---	---	---	---	---	---	---
	09/13/94		13.84	312.71	---	---	---	---	---	---	---
	06/21/95		13.08	313.47	---	---	---	---	---	---	---
	06/12/96		13.34	313.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---
	06/25/97		13.28	313.27	<50	<0.50	<0.50	<0.50	<0.50	2.8	2.4
	06/19/98		12.41	314.14	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8

Table 1. Ground Water Elevations and Analytic Results - Shell-branded Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California (continued)

Well ID	Sampling Date	Top-of-Casing (ft/msl)	Depth to Water (ft)	GW Elevation (ft/msl)	(Concentrations in µg/L)						DO mg/L
					TPH-G	B	T	E	X	MTBE	
SR-1	03/04/94	329.78	16.34	313.44	---	---	---	---	---	---	---
	06/16/94		16.72	313.06	---	---	---	---	---	---	---
SR-2	03/04/94	328.35	14.39	313.96	---	---	---	---	---	---	---
	06/16/94		14.48	313.87	---	---	---	---	---	---	---
SR-3	03/04/94	329.11	14.66	314.45	---	---	---	---	---	---	---
	06/16/94		14.96	314.15	---	---	---	---	---	---	---
Trip Blank	06/16/94				<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	09/13/94				<50	<0.5	<0.5	<0.5	<0.5	---	---
	06/21/95				<50	<0.5	<0.5	<0.5	<0.5	---	---
MCLs				NE	1	150	700	1,750	NE	NE	

Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California (continued)

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

B = Benzene by EPA Method 8020

E = Ethylbenzene by EPA Method 8020

T = Toluene 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

GW = Ground water

ft = Feet

msl = Mean sea level

µg/L = Micrograms per liter

mg/L = Milligrams per liter

MCLs = California primary maximum contaminant levels for drinking water (22 CCR 64444)

NE = Not established

dup = Duplicate sample

Notes:

a = Compounds detected within the chromatographic range of gasoline but not characteristic
of the standard gasoline pattern

b = The result for gasoline is an unknown hydrocarbon which consists of a single peak

--- = Not analyzed

<n = Not detected at detection limits of n µg/L

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 28, 1998

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

Attn: Alex Perez

Shell WIC #204-6138-0501
3790 Hopyard Road
Pleasanton, California

2nd Quarter 1998

Groundwater Monitoring Report 980619-Y-1

Blaine Tech Services, Inc. performs environmental monitoring and documentation as an independent third party. Copies of our Monitoring 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 (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)
S-2	06/19/98	TOB	ODOR	NONE	--	--	13.72	35.15
S-3	06/19/98	TOB	--	NONE	--	--	11.74	35.09
S-4*	06/19/98	TOB	ODOR	NONE	--	--	12.55	36.04
S-5	06/19/98	TOB	ODOR	NONE	--	--	13.71	35.91
S-6	06/19/98	TOB	--	NONE	--	--	13.81	34.78
S-7	06/19/98	TOB	--	NONE	--	--	14.81	34.94
S-8	06/19/98	TOB	--	NONE	--	--	13.49	34.51
S-9	06/19/98	TOB	--	NONE	--	--	15.59	35.05
S-10	06/19/98	TOB	--	NONE	--	--	12.41	36.31

* Sample DUP was a duplicate sample taken from well S-4.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 980619 Y1

Date: _____
 Page 1 of 2

Site Address: 3790 Hopyard Rd., Pleasanton, CA

WIC#: 204-6138-0501

Shell Engineer: Alex Perez
 Phone No.: (510) 675-6168
 Fax #: 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:
 Printed Name: BROOKS TAYLOR

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.
<u>52</u>				<u>X</u>		<u>3</u>
<u>53</u>				<u>X</u>		<u>3</u>
<u>54</u>				<u>X</u>		<u>3</u>
<u>55</u>				<u>X</u>		<u>3</u>
<u>56</u>				<u>X</u>		<u>3</u>
<u>57</u>				<u>X</u>		<u>3</u>
<u>58</u>				<u>X</u>		<u>3</u>
<u>59</u>				<u>X</u>		<u>3</u>

Analysis Required

ATBE

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	Asbestos	Container Size	Preparation Used	Composite Y/N
					<u>X</u>				
					<u>X</u>				
					<u>X</u>				
					<u>X</u>				
					<u>X</u>				
					<u>X</u>				
					<u>X</u>				
					<u>X</u>				

LAB: SEQR

CHECK ONE (1) BOX ONLY	CT/DI	TURN AROUND TIME
G.W. Monitoring <input checked="" type="checkbox"/>	4441	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: Notify Lab as soon as possible of 24/48 hrs. TAT.

UST AGENCY: _____

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
<u>9804 E32</u>	<u>Σ 22 1 32</u>

Relinquished By (signature): [Signature]
 Printed Name: BROOKS TAYLOR
 Date: 6/22/98
 Time: 12:30

Received (signature): [Signature]
 Printed Name: Fulcher
 Date: 6/22/98
 Time: _____

Received (signature): [Signature]
 Printed Name: Aura Demare
 Date: 6/22/98
 Time: 1332

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



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 980619 X1

Date: _____
Page 2 of 2

Site Address: 3790 Hopyard Rd., Pleasanton, CA

WIC#: 204-6138-0501

Shell Engineer: Alex Perez
Phone No.: (510) 675-6168
Fax #: 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:
Printed Name: BROOKS TAYLOR

Sample ID	Date	Sludge	Soil	Water	Air	No. of confs.
<u>15 10</u>				<u>X</u>		<u>3</u>
<u>EQUIP BLANK</u>				<u>X</u>		<u>3</u>
<u>DUP</u>				<u>X</u>		<u>3</u>

Analysis Required

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>MTBE</u>	Asbestos	Container Size	Preparation Used	Composite Y/N
-------------------------	----------------------------	---------------------	------------------------------	-------------------	--	----------	----------------	------------------	---------------

LAB: SEQ

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring <input checked="" type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	16 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"/>		

UST AGENCY: _____

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
	<u>22 1</u>
<u>9804 632</u>	

Relinquished By (signature): BROOKS TAYLOR
Printed Name: STEVAN

Relinquished By (signature): _____
Printed Name: _____

Relinquished By (signature): _____
Printed Name: _____

Date: 6/27/98
Time: 1:58

Date: 6/27/98
Time: _____

Date: _____
Time: _____

Received (signature): _____
Printed Name: _____

Received (signature): _____
Printed Name: _____

Received (signature): Aura De...
Printed Name: _____

Printed Name: Fletcher

Printed Name: _____

Printed Name: Aura De...

Date: 6/23/98

Date: _____

Date: 4/22/98

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



Sequoia Analytical

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FAX (707) 792-0342

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

Project: Shell 3790 Hopyard Rd

Enclosed are the results from samples received at Sequoia Analytical on June 22, 1998.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9806E32 -01	LIQUID, S-2	06/19/98	TPPH/BTEX/MTBE (Concord)
9806E32 -02	LIQUID, S-3	06/19/98	TPPH/BTEX/MTBE (Concord)
9806E32 -03	LIQUID, S-4	06/19/98	TPPH/BTEX/MTBE (Concord)
9806E32 -04	LIQUID, S-5	06/19/98	TPPH/BTEX/MTBE (Concord)
9806E32 -05	LIQUID, S-6	06/19/98	TPPH/BTEX/MTBE (Concord)
9806E32 -06	LIQUID, S-7	06/19/98	TPPH/BTEX/MTBE (Concord)
9806E32 -07	LIQUID, S-8	06/19/98	TPPH/BTEX/MTBE (Concord)
9806E32 -08	LIQUID, S-9	06/19/98	TPPH/BTEX/MTBE (Concord)
9806E32 -09	LIQUID, S-10	06/19/98	TPPH/BTEX/MTBE (Concord)
9806E32 -10	LIQUID, Equip Blank	06/19/98	TPPH/BTEX/MTBE (Concord)
9806E32 -11	LIQUID, Dup	06/19/98	TPPH/BTEX/MTBE (Concord)

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 3790 Hopyard Rd
Sample Descript: S-2
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806E32-01

Sampled: 06/19/98
Received: 06/22/98
Analyzed: 07/02/98
Reported: 07/06/98

Attention: Fran Thie

QC Batch Number: GC070298802004A
Instrument ID: HP-4

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	450
Methyl t-Butyl Ether	12	180
Benzene	2.5	96
Toluene	2.5	N.D.
Ethyl Benzene	2.5	4.0
Xylenes (Total)	2.5	19
Chromatogram Pattern:		<C7
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	117

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





**Sequoia
Analytical**

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell 3790 Hopyard Rd
Sample Descript: S-3
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806E32-02

Sampled: 06/19/98
Received: 06/22/98
Analyzed: 07/01/98
Reported: 07/06/98

QC Batch Number: GC070198802002A
Instrument ID: HP-2

Total Purgeable 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	109

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





**Sequoia
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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 3790 Hopyard Rd Sample Descript: S-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806E32-03	Sampled: 06/19/98 Received: 06/22/98 Analyzed: 07/02/98 Reported: 07/06/98
--	---	---

IC Batch Number: GC070298802004A
Instrument ID: HP-4

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	3500
Methyl t-Butyl Ether	50	2100
Benzene	10	56
Toluene	10	15
Ethyl Benzene	10	140
Xylenes (Total)	10	670
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
		113

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

EQUOIA ANALYTICAL - ELAP #1271

eggy Penner
Project Manager





**Sequoia
Analytical**

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FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 3790 Hopyard Rd Sample Descript: S-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806E32-04	Sampled: 06/19/98 Received: 06/22/98 Analyzed: 07/01/98 Reported: 07/06/98
--	---	---

QC Batch Number: GC070198802002A
Instrument ID: HP-2

Total Purgeable 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	61
Benzene	0.50	1.0
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 #1271


Peggy Penner
Project Manager





**Sequoia
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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 3790 Hopyard Rd Sample Descript: S-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806E32-05	Sampled: 06/19/98 Received: 06/22/98 Analyzed: 07/01/98 Reported: 07/06/98
--	---	---

GC Batch Number: GC070198802002A
Instrument ID: HP-2

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	100
Methyl t-Butyl Ether	2.5	27
Benzene	0.50	7.6
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	112

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





**Sequoia
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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 3790 Hopyard Rd Sample Descript: S-7 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806E32-06	Sampled: 06/19/98 Received: 06/22/98 Analyzed: 07/01/98 Reported: 07/06/98
--	---	---

QC Batch Number: GC070198802002A
Instrument ID: HP-2

Total Purgeable 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	112

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager





**Sequoia
Analytical**

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FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell 3790 Hopyard Rd
Sample Descript: S-8
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806E32-07

Sampled: 06/19/98
Received: 06/22/98
Analyzed: 07/01/98
Reported: 07/06/98

Attention: Fran Thie

GC Batch Number: GC070198802002A
Instrument ID: HP-2

Total Purgeable 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	116

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





Sequoia
Analytical

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FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell 3790 Hopyard Rd
Sample Descript: S-9
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806E32-08

Sampled: 06/19/98
Received: 06/22/98
Analyzed: 07/01/98
Reported: 07/06/98

QC Batch Number: GC070198802002A
Instrument ID: HP-2

Total Purgeable 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	7.1
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	110

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager





**Sequoia
Analytical**

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell 3790 Hopyard Rd
Sample Descript: S-10
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806E32-09

Sampled: 06/19/98
Received: 06/22/98
Analyzed: 07/01/98
Reported: 07/06/98

Attention: Fran Thie

GC Batch Number: GC070198802002A
Instrument ID: HP-2

Total Purgeable 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	111

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager

Page:

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**Sequoia
Analytical**

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 3790 Hopyard Rd Sample Descript: Equip Blank Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806E32-10	Sampled: 06/19/98 Received: 06/22/98 Analyzed: 07/01/98 Reported: 07/06/98
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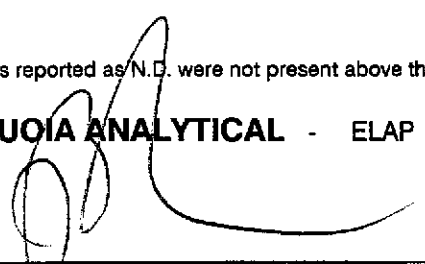
QC Batch Number: GC070198802002A
Instrument ID: HP-2

Total Purgeable 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	103

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

SEQUOIA ANALYTICAL - ELAP #1271



Peggy Penner
Project Manager





Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell 3790 Hopyard Rd
Sample Descript: Dup
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806E32-11

Sampled: 06/19/98
Received: 06/22/98
Analyzed: 07/02/98
Reported: 07/06/98

Attention: Fran Thie

QC Batch Number: GC070298802004A

Instrument ID: HP-4

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	3000
Methyl t-Butyl Ether	50	2000
Benzene	10	51
Toluene	10	14
Ethyl Benzene	10	110
Xylenes (Total)	10	530
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
		113

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





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

Client Project ID: Shell 3790 Hopyard Rd
Matrix: Liquid

Work Order #: 9806E32 -01-11

Reported: Jul 8, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC070198802002A	GC070198802002A	GC070198802002A	GC070198802002A	GC070198802002A
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:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	8062048	8062048	8062048	8062048	8062048
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/1/98	7/1/98	7/1/98	7/1/98	7/1/98
Analyzed Date:	7/1/98	7/1/98	7/1/98	7/1/98	7/1/98
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	320 µg/L
Result:	19	19	19	60	340
MS % Recovery:	95	95	95	100	106
Dup. Result:	18	18	19	56	370
MSD % Recov.:	90	90	95	93	116
RPD:	5.4	5.4	0.0	6.9	8.5
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS070198	LCS070198	LCS070198	LCS070198	LCS070198
Prepared Date:	7/1/98	7/1/98	7/1/98	7/1/98	7/1/98
Analyzed Date:	7/1/98	7/1/98	7/1/98	7/1/98	7/1/98
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	320 µg/L
LCS Result:	19	19	20	60	340
LCS % Recov.:	95	95	100	100	106

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

SEQUOIA ANALYTICAL
Elap # 1271

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

9806E32.BLA <1>





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

Client Proj. ID: Shell 3790 Hopyard Rd
Lab Proj. ID: 9806E32

Received: 06/22/98
Reported: 07/06/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 14 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

SEP 15 '98 PM 3:27

eggy Penner
roject Manager

