



WP4B

December 15, 1997

Mr. Alex Perez
Shell Oil Products Company
P.O. Box 8080
Martinez, California 94553

Re: **Quarterly Monitoring Report - Fourth Quarter 1997**
Shell Service Station
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303

Dear Mr. Perez:

This Quarterly Monitoring Report describes the recently completed activities associated with ground water monitoring and sampling at the referenced site (Plates 1 and 2). This report was prepared to meet quarterly reporting guidelines issued by the Regional Water Quality Control Board and the Alameda County Health Care Services Agency.

This document presents the results of activities performed in the fourth quarter of 1997.

Quarterly Monitoring & Sampling Summary

- Blaine Tech Services, Inc. (Blaine) of San Jose, California measured ground water levels in Wells S-1, S-4 through S-11, and SR-1 on October 7, 1997.
- Ground water samples were collected from Wells S-8 and S-11 on October 7, 1997 and were transported to Sequoia Analytical of Redwood City, California for chemical analysis. A duplicate sample and an equipment blank were prepared and analyzed for quality control purposes.
- Cambria Environmental Technology, Inc. (Cambria) evaluated water-level measurement data and chemical analytical results and prepared this report, which includes Blaine's quarterly ground water monitoring report and a ground water contour/chemical concentration map.
- Ground water appears to flow south-southwesterly at an approximate hydraulic gradient of 0.016. A ground water contour/chemical concentration map is presented on Plate 2.

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
270 PERKINS STREET,
P.O. BOX 259
SONOMA,
CA 95476
PH: (707) 935-4850
FAX: (707) 935-6649

- Ground water samples collected from Wells S-8 and S-11 contained TPPH concentrations of 300 ppb and 440 ppb, benzene concentrations of 39 ppb and 43 ppb, and MTBE concentrations of ND and 4.9 ppb, respectively.

Quarterly Sampling

Monitoring Wells S-8 and S-11 were sampled and analyzed for Total Purgeable Petroleum Hydrocarbons quantified as gasoline (TPPH) according to EPA Method 8015 (Modified) and benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl-tertiary-butyl-ether (MTBE) according to EPA Method 8020. Additionally, a duplicate sample and an equipment blank were prepared and analyzed for quality control purposes.

Field monitoring data and chemical analytical data are summarized in Table 1. Blaine's quarterly ground water monitoring report is presented in Appendix A.

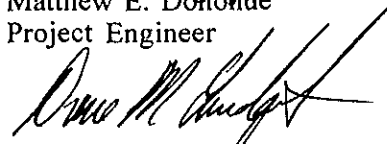
Monitoring, sampling, and reporting will continue on the established schedule for the next quarter.

If you have any questions regarding the contents of this document, please call.

Sincerely,
Cambria Environmental Technology, Inc.



Matthew E. Donohue
Project Engineer



Diane M. Lundquist, P.E.
Senior Engineer
C46725



Attachments:

Table 1. Well Concentrations

Plate 1. Vicinity Map

Plate 2. Ground Water Contour/Chemical Concentration Map

Appendix A

Blaine Tech Services Inc. - Quarterly Ground Water Monitoring Report

cc: Ms. Susan L. Hugo, Alameda County Health Care Services Agency
Mr. Murray Kalender, American Real Estate Partners

TABLE 1

WELL CONCENTRATIONS
 Shell Oil Products Company
 2800 Telegraph Avenue
 Oakland, California
 WIC #204-5508-2303

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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S-1	Top of box elevation (ft): 35.31									
04-May-92	9.50	25.81	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Aug-92	10.85	24.46	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
09-Nov-92	10.34	24.97	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Feb-93	7.60	27.71	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
07-Jun-93	8.63	26.68	0.00	<50	2.8	1.3	0.7	3.0	NA	
13-Aug-93	9.20	26.11	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Nov-93	10.58	24.73	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Feb-94	8.41	26.90	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
03-May-94	9.09	26.22	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
01-Aug-94	8.81	26.50	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
08-Nov-94	9.32	25.99	0.00	NA	NA	NA	NA	NA	NA	
03-Feb-95	6.98	28.33	0.00	NA	NA	NA	NA	NA	NA	
02-Aug-95	9.35	25.96	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Feb-96	7.45	27.86	0.00	NA	NA	NA	NA	NA	NA	
04-May-96	8.91	26.40	0.00	NA	NA	NA	NA	NA	NA	
02-Aug-96	9.33	25.98	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
02-Oct-96	10.11	25.20	0.00	NA	NA	NA	NA	NA	NA	
08-Jan-97	7.93	27.38	0.00	NA	NA	NA	NA	NA	NA	
17-Apr-97	8.94	26.37	0.00	NA	NA	NA	NA	NA	NA	
01-Jul-97	9.55	25.76	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
07-Oct-97	9.43	25.88	0.00	NA	NA	NA	NA	NA	NA	

TABLE 1

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Shell Oil Products Company
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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S-2		Top of box elevation (ft): 33.91								
04-May-92	9.44	24.47	0.00	1600	190	6.0	240	54	NA	
10-Aug-92	10.73	23.18	0.00	<50	4.1	<0.5	<0.5	<0.5	NA	
11-Sep-92	NA	NA	NA	84	19	0.7	2.2	4.3	NA	
09-Nov-92	10.29	23.62	0.00	NA	NA	NA	NA	NA	NA	
23-Feb-93	9.04	24.87	0.00	16000	1600	480	850	1800	NA	
07-Jun-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Destroyed 4/8/93

S-3		Top of box elevation (ft): 33.56								
04-May-92	9.22	24.34	0.00	NA	NA	NA	NA	NA	NA	
10-Aug-92	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Paved Over - Inaccessible

S-4		Top of box elevation (ft): 34.08								
04-May-92	9.96	24.12	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Aug-92	11.32	22.76	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
09-Nov-92	11.29	22.79	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Feb-93	9.82	24.26	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
07-Jun-93	10.51	23.57	0.00	50	9.2	5.5	3.3	14	NA	
13-Aug-93	11.05	23.03	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Nov-93	11.34	22.74	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Feb-94	9.93	24.15	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
03-May-94	10.40	23.68	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
01-Aug-94	10.68	23.40	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
08-Nov-94	9.44	24.64	NA	NA	NA	NA	NA	NA	NA	

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WELL CONCENTRATIONS
Shell Oil Products Company
2800 Telegraph Avenue
Oakland, California
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Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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03-Feb-95	9.18	24.90	NA	NA	NA	NA	NA	NA	NA	
02-Aug-95	10.62	23.46	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Feb-96	9.23	24.85	0.00	NA	NA	NA	NA	NA	NA	
04-May-96	10.37	23.71	0.00	NA	NA	NA	NA	NA	NA	
02-Aug-96	10.69	23.39	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
02-Oct-96	10.96	23.12	0.00	NA	NA	NA	NA	NA	NA	
08-Jan-97	9.37	24.71	0.00	NA	NA	NA	NA	NA	NA	
17-Apr-97	10.25	23.83	0.00	NA	NA	NA	NA	NA	NA	
01-Jul-97	10.60	23.48	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
07-Oct-97	10.52	23.56	0.00	NA	NA	NA	NA	NA	NA	

S-5	Top of box elevation (ft): 33.42									
04-May-92	10.27	23.15	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Aug-92	10.68	22.74	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
09-Nov-92	10.69	22.73	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Feb-93	9.45	23.97	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
07-Jun-93	10.23	23.19	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Aug-93	10.58	22.84	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Nov-93	10.70	22.72	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Feb-94	9.75	23.67	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
03-May-94	10.19	23.23	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
01-Aug-94	10.30	23.12	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
08-Nov-94	9.64	23.78	NA	NA	NA	NA	NA	NA	NA	
03-Feb-95	9.59	23.83	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

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2800 Telegraph Avenue
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Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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02-Aug-95	10.23	23.90	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Feb-96	9.51	23.91	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
04-May-96	10.15	23.27	0.00	NA	NA	NA	NA	NA	NA	
02-Aug-96	10.30	23.12	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
02-Oct-96	10.54	22.88	0.00	NA	NA	NA	NA	NA	NA	
08-Jan-97	9.56	23.86	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
17-Apr-97	10.03	23.39	0.00	NA	NA	NA	NA	NA	NA	
01-Jul-97	10.23	23.19	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
07-Oct-97	10.25	23.17	0.00	NA	NA	NA	NA	NA	NA	

S-6	Top of box elevation (ft): 32.59									
04-May-92	9.42	23.17	0.00	3100	640	22	23	97	NA	
10-Aug-92	10.40	22.19	0.00	3400	430	27	26	120	NA	
09-Nov-92	10.16	22.43	0.00	2000	320	15	15	100	NA	
23-Feb-93	7.60	24.99	0.00	14000	780	180	380	1300	NA	
07-Jun-93	8.90	23.69	0.00	3900	1400	56	83	210	NA	
13-Aug-93	9.39	23.20	0.00	4000 (a)	890	16	<0.5	41	NA	
18-Nov-93	10.32	22.27	0.00	80	5.0	<0.5	<0.5	<0.5	NA	
10-Feb-94	8.68	23.91	0.00	4100	370	23	21	90	NA	
03-May-94	9.20	23.39	0.00	4700	550	28	85	340	NA	
01-Aug-94	8.90	23.69	0.00	2900	370	11	11	43	NA	
08-Nov-94	8.32	23.69	0.00	NA	NA	NA	NA	NA	NA	
03-Feb-95	8.04	23.69	0.00	NA	NA	NA	NA	NA	NA	
02-Aug-95	9.26	23.19	0.00	1400	160	<5	<5	<5	NA	

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Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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02-Feb-96	7.90	24.69	0.00	NA	NA	NA	NA	NA	NA	
04-May-96	8.98	23.61	0.00	NA	NA	NA	NA	NA	NA	
02-Aug-96	9.34	23.25	0.00	1600	150	9.2	13	23	17	
02-Oct-96	9.96	22.63	0.00	NA	NA	NA	NA	NA	NA	
08-Jan-97	7.38	25.21	0.00	NA	NA	NA	NA	NA	NA	
17-Apr-97	9.16	23.43	0.00	NA	NA	NA	NA	NA	NA	
01-Jul-97	9.60	22.99	0.00	<50	1.5	<0.50	<0.50	<0.50	<2.5	
07-Oct-97	9.64	22.95	0.00	NA	NA	NA	NA	NA	NA	

S-6 (DUP)										
01-Aug-94	NA	NA	NA	2600	340	8.8	7.7	33	NA	
02-Aug-95	NA	NA	NA	1400	170	<5	<5	<5	NA	

S-7										
Top of box elevation (ft): 33.33										
04-May-92	11.21	22.12	0.00	180	1.6	<0.5	1.5	3.0	NA	
10-Aug-92	12.28	21.05	0.00	190	8.0	1.4	4.7	8.5	NA	
09-Nov-92	11.77	21.56	0.00	280	16	4.0	7.8	21	NA	
23-Feb-93	8.86	24.47	0.00	210	13	2.2	5.4	12	NA	
07-Jun-93	10.58	22.75	0.00	90	1.2	2.5	1.0	<0.5	NA	
13-Aug-93	11.34	21.99	0.00	140	4.0	0.8	<0.5	0.5	NA	
18-Nov-93	12.00	21.33	0.00	440	43	4.9	0.9	4.2	NA	
10-Feb-94	9.88	23.45	0.00	250 (a)	<0.5	<0.5	1.8	<0.5	NA	
03-May-94	10.75	22.58	0.00	130	<0.5	<0.5	<0.5	<0.5	NA	
01-Aug-94	11.05	22.28	0.00	250	4.8	<0.5	<0.5	<0.5	NA	

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Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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08-Nov-94	9.64	23.69	NA	NA	NA	NA	NA	NA	NA	
03-Feb-95	8.53	24.80	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Aug-95	11.10	22.23	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Feb-96	8.58	24.75	0.00	480	2.2	2.4	7.9	25	NA	
04-May-96	10.41	22.92	0.00	NA	NA	NA	NA	NA	NA	
02-Aug-96	11.18	22.15	0.00	300	20	2.2	3.8	7.9	21	MTBE by EPA Method 8260: 11 ppb
02-Oct-96	12.12	21.21	0.00	NA	NA	NA	NA	NA	NA	
08-Jan-97	8.23	25.10	0.00	850	16	6.3	20	59	<25	
17-Apr-97	10.75	22.58	0.00	NA	NA	NA	NA	NA	NA	
01-Jul-97	11.40	21.93	0.00	120	2.4	<0.50	2.9	2.6	3.5	
07-Oct-97	11.50	21.83	0.00	NA	NA	NA	NA	NA	NA	

S-7 (DUP)										
02-Aug-96	NA	NA	NA	340	22	2.2	4.4	8.9	20	
08-Jan-97	NA	NA	NA	840	15	<5.0	21	63	25	
01-Jul-97	NA	NA	NA	120	2.4	<0.50	2.9	2.6	<2.5	

S-8										
Top of box elevation (ft): 31.97										
04-May-92	10.29	21.68	0.00	1600	20	420	96	330	NA	
10-Aug-92	11.12	20.85	0.00	1500	19	37	60	250	NA	
09-Nov-92	10.71	21.26	0.00	710	5.7	24	28	120	NA	
23-Feb-93	6.04	25.93	0.00	3800	40	54	68	260	NA	
07-Jun-93	10.06	21.91	0.00	1200	13	19	65	150	NA	
13-Aug-93	10.56	21.41	0.00	1300	21	23	49	250	NA	

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18-Nov-93	10.90	21.07	0.00	870	16	5.3	59	230	NA	
10-Feb-94	9.53	22.44	0.00	2400	11	55	120	530	NA	
03-May-94	10.06	21.91	0.00	3100	12	27	130	370	NA	
01-Aug-94	10.32	21.65	0.00	1500	20	18	39	190	NA	
08-Nov-94	9.25	22.72	0.00	2100	22	38	73	390	NA	
03-Feb-95	8.99	22.98	0.00	4800	67	39	130	300	NA	
04-May-95	9.22	22.75	0.00	2600	31	23	71	310	NA	
02-Aug-95	10.36	21.61	0.00	1700	10	9.1	48	210	NA	
02-Nov-95	10.72	21.25	0.00	1200	16	13	72	130	NA	
02-Feb-96	8.92	23.05	0.00	7100	29	140	360	1300	NA	
04-May-96	9.86	22.11	0.00	3500	13	27	110	400	<25	
02-Aug-96	10.30	21.67	0.00	850	9.6	7.4	30	160	11	
02-Oct-96	10.71	21.26	0.00	980	<5.0	11	13	92	<25	
08-Jan-97	8.88	23.09	0.00	6400	88	48	190	500	<100	
17-Apr-97	10.00	21.97	0.00	1700	23	7.4	34	50	74	
01-Jul-97	10.40	21.57	0.00	140	2.8	<0.50	<0.50	0.58	<2.5	
07-Oct-97	10.50	21.47	0.00	300	2.7	0.63	4.6	8.4	<2.5	

S-8 (DUP)										
10-Feb-94	NA	NA	NA	2400	11	46	100	440	NA	
03-May-94	NA	NA	NA	3000	21	25	120	340	NA	
08-Nov-94	NA	NA	NA	2100	20	31	75	390	NA	
03-Feb-95	NA	NA	NA	3700	53	30	100	240	NA	
04-May-95	NA	NA	NA	3300	38	26	89	390	NA	

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 Oakland, California
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02-Aug-95	NA	NA	NA	1200	15	13	70	120	NA	
02-Feb-96	NA	NA	NA	7800	33	160	400	1500	NA	
04-May-96	NA	NA	NA	5100	19	37	190	690	<25	
02-Oct-96	NA	NA	NA	1300	<5.0	10	28	180	<25	
17-Apr-97	NA	NA	NA	1600	25	7.4	30	43	34	

S-9	Top of box elevation (ft): 31.86									
04-May-92	10.45	21.41	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Aug-92	11.52	20.34	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
09-Nov-92	11.02	20.84	0.00	<50	<0.5	<0.5	<0.5	0.7	NA	
23-Feb-93	8.00	23.86	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
07-Jun-93	10.07	21.79	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Aug-93	10.92	20.94	0.00	140 (b)	<0.5	<0.5	<0.5	<0.5	NA	
18-Nov-93	11.19	20.67	0.00	170	<0.5	<0.5	<0.5	<0.5	NA	
10-Feb-94	9.16	22.70	0.00	140 (b)	<0.5	<0.5	<0.5	<0.5	NA	
03-May-94	10.03	21.83	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
01-Aug-94	10.52	21.34	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
08-Nov-94	9.08	22.78	0.00	NA	NA	NA	NA	NA	NA	
03-Feb-95	8.37	23.49	0.00	NA	NA	NA	NA	NA	NA	
02-Aug-95	9.35	22.51	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Feb-96	7.53	24.33	0.00	NA	NA	NA	NA	NA	NA	
04-May-96	9.60	22.26	0.00	NA	NA	NA	NA	NA	NA	
02-Aug-96	10.46	21.40	0.00	<50	<0.50	<0.50	<0.50	<0.50	12	
02-Oct-96	10.66	21.20	0.00	NA	NA	NA	NA	NA	NA	

TABLE 1

**WELL CONCENTRATIONS
Shell Oil Products Company
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
-------------	------------------------	------------------------	---------	-------------	----------	----------	----------	----------	-------------	----------

08-Jan-97	7.20	24.66	0.00	NA	NA	NA	NA	NA	NA	
17-Apr-97	9.96	21.90	0.00	NA	NA	NA	NA	NA	NA	
01-Jul-97	10.64	21.22	0.00	<50	<0.50	<0.50	<0.50	<0.50	3.9	
07-Oct-97	10.63	21.23	0.00	NA	NA	NA	NA	NA	NA	

S-10	Top of box elevation (ft): 32.95									
04-May-92	8.54	24.41	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Aug-92	10.43	22.52	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
09-Nov-92	9.14	23.81	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Feb-93	6.72	26.23	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
07-Jun-93	8.08	24.87	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Aug-93	8.83	24.12	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Nov-93	9.46	23.49	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Feb-94	7.41	25.54	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
03-May-94	8.16	24.79	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
01-Aug-94	8.29	24.66	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
08-Nov-94	7.02	25.93	0.00	NA	NA	NA	NA	NA	NA	
03-Feb-95	6.79	26.16	0.00	NA	NA	NA	NA	NA	NA	
02-Aug-95	8.30	24.65	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Feb-96	6.49	26.46	0.00	NA	NA	NA	NA	NA	NA	
04-May-96	7.55	25.40	0.00	NA	NA	NA	NA	NA	NA	
02-Aug-96	9.25	23.70	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
02-Oct-96	10.54	22.41	0.00	NA	NA	NA	NA	NA	NA	
08-Jan-97	6.47	26.48	0.00	NA	NA	NA	NA	NA	NA	

TABLE 1

WELL CONCENTRATIONS
Shell Oil Products Company
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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17-Apr-97	7.78	25.17	0.00	NA	NA	NA	NA	NA	NA	
01-Jul-97	8.83	24.12	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
07-Oct-97	8.89	24.06	0.00	NA	NA	NA	NA	NA	NA	

S-11	Top of box elevation (ft): 30.78									
04-May-92	9.99	20.79	0.00	1500	55	32	57	190	NA	
10-Aug-92	10.92	19.86	0.00	750	29	13	43	120	NA	
09-Nov-92	10.44	20.34	0.00	4100	32	62	120	1100	NA	
23-Feb-93	7.30	23.48	0.00	760	15	13	37	140	NA	
07-Jun-93	9.51	21.27	0.00	1700	40	16	100	360	NA	
13-Aug-93	10.39	20.39	0.00	60	0.9	<0.5	0.8	1.2	NA	
18-Nov-93	10.64	20.14	0.00	150	7.8	1.0	9.0	12	NA	
10-Feb-94	8.50	22.28	0.00	4400	53	19	160	390	NA	
03-May-94	9.42	21.36	0.00	65	1.5	<0.5	0.53	0.59	NA	
01-Aug-94	10.12	20.66	0.00	240	18	6.7	6.9	18	NA	
08-Nov-94	8.84	21.94	0.00	490	14	5.2	15	47	NA	
03-Feb-95	7.12	23.66	0.00	380	4.1	0.9	1.4	5.1	NA	
04-May-95	7.96	22.82	0.00	110	1.3	<0.5	1.1	1.8	NA	
02-Aug-95	9.88	20.90	0.00	230	22	11	13	35	NA	
02-Nov-95	10.10	20.68	0.00	200	26	10	10	30	NA	
02-Feb-96	7.33	23.45	0.00	110	2.9	1.0	2.6	6.5	NA	
04-May-96	8.62	22.16	0.00	<50	0.70	0.54	0.82	2.6	7.5	
02-Aug-96	9.85	20.93	0.00	200	11	4.6	12	38	10	
02-Oct-96	11.00	19.78	0.00	290	20	6.2	16	48	8.4	

TABLE 1

WELL CONCENTRATIONS
Shell Oil Products Company
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
-------------	------------------------	------------------------	---------	-------------	----------	----------	----------	----------	-------------	----------

08-Jan-97	6.20	24.58	0.00	56	2.0	<0.50	1.0	5.8	5.2	
17-Apr-97	8.81	21.97	0.00	<50	0.88	<0.50	<0.50	<0.50	3.2	
01-Jul-97	10.47	20.31	0.00	610	50	5.9	24	110	3.1	
07-Oct-97	10.32	20.46	0.00	440	43	3.0	13	110	4.9	

S-11 (DUP)										
07-Jun-93	NA	NA	NA	1600	51	16	83	300	NA	
13-Aug-93	NA	NA	NA	70	2.1	<0.5	0.9	2.1	NA	
07-Oct-97	NA	NA	NA	360	39	2.0	7.2	74	4.9	

SR-1										
	Top of box elevation (ft): not surveyed									
04-May-92	9.02	NA	0.00	NA	NA	NA	NA	NA	NA	
10-Aug-92	10.29	NA	0.00	NA	NA	NA	NA	NA	NA	
09-Nov-92	10.92	NA	0.00	NA	NA	NA	NA	NA	NA	
22-Feb-93	6.64	NA	0.00	NA	NA	NA	NA	NA	NA	
07-Jun-93	7.36	NA	0.00	NA	NA	NA	NA	NA	NA	
13-Aug-93	7.96	NA	0.00	NA	NA	NA	NA	NA	NA	
18-Nov-93	10.02	NA	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Feb-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	
03-May-94	8.28	NA	0.00	NA	NA	NA	NA	NA	NA	
01-Aug-94	7.98	NA	0.00	NA	NA	NA	NA	NA	NA	
08-Nov-94	7.75	NA	0.00	NA	NA	NA	NA	NA	NA	
03-Feb-95	7.20	NA	0.00	NA	NA	NA	NA	NA	NA	
04-May-95	4.10	NA	0.00	NA	NA	NA	NA	NA	NA	

TABLE 1

**WELL CONCENTRATIONS
Shell Oil Products Company
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
02-Aug-95	5.31	NA	0.00	NA	NA	NA	NA	NA	NA	
02-Nov-95	10.62	NA	0.00	NA	NA	NA	NA	NA	NA	
02-Feb-96	7.30	NA	0.00	90 (d)	6.1	6.7	2.8	8.5	NA	
04-May-96	8.10	NA	0.00	NA	NA	NA	NA	NA	NA	
02-Aug-96	8.10	NA	0.00	NA	NA	NA	NA	NA	NA	
02-Oct-96	9.25	NA	0.00	NA	NA	NA	NA	NA	NA	
08-Jan-97	7.18	NA	0.00	NA	NA	NA	NA	NA	NA	
17-Apr-97	6.01	NA	0.00	NA	NA	NA	NA	NA	NA	
01-Jul-97	8.36	NA	0.00	NA	NA	NA	NA	NA	NA	
07-Oct-97	9.22	NA	0.00	NA	NA	NA	NA	NA	NA	
SR-1 (DUP)										
18-Nov-93	NA	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	

Abbreviations:

TPPH = Total Purgeable Petroleum Hydrocarbons carbon range C6 to C12 by Modified EPA Method 8015

(previously reported as Total Petroleum Hydrocarbons as Gasoline)

BTEX = benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020

MTBE = methyl-tertiary-butyl-ether by EPA Method 8020

<x = Not detected at detection limit of x

NA = Not analyzed or not available

(DUP) = Duplicate sample

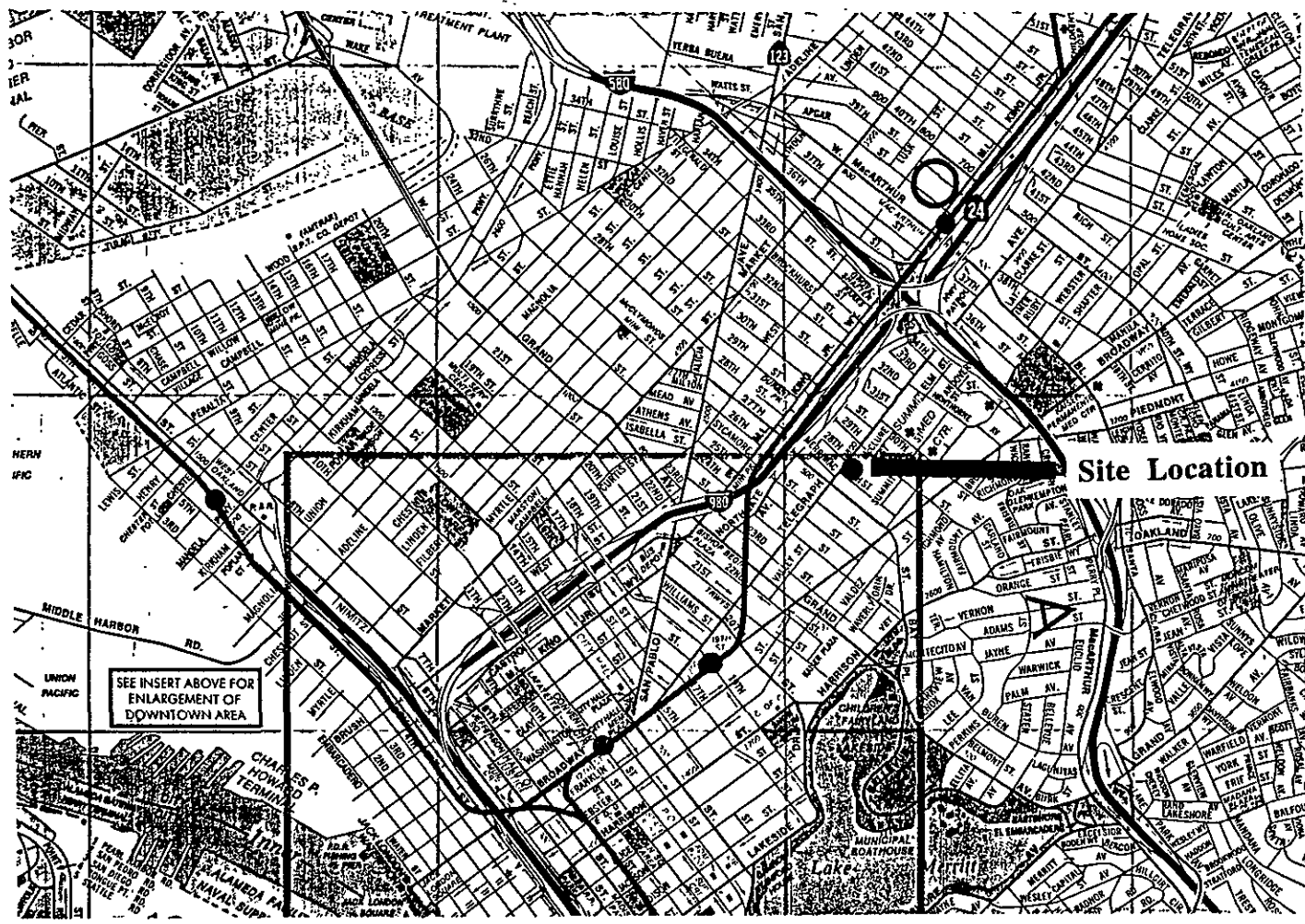
TABLE 1

**WELL CONCENTRATIONS
Shell Oil Products Company
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303**

Sample	Measured	Corrected	SP	TPPH	B	T	E	X	MTBE	Comments
Date	GW Depth (ft)	GW Elev (ft)	(ft)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	

Notes:

- a = The concentration reported as gasoline is primarily due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.
 - b = Well inaccessible since August 1992
 - c = The concentration reported as gasoline is primarily due to the presence of a discrete peak not indicative of gasoline.
- Elevations referenced to Mean Sea Level



Note: Vicinity Map taken from California State AAA map.

PLATE
1

SITE VICINITY MAP
Former Shell Service Station
2800 Telegraph Avenue
Oakland, California

CAMBRIA
290

Drawn By: JLP

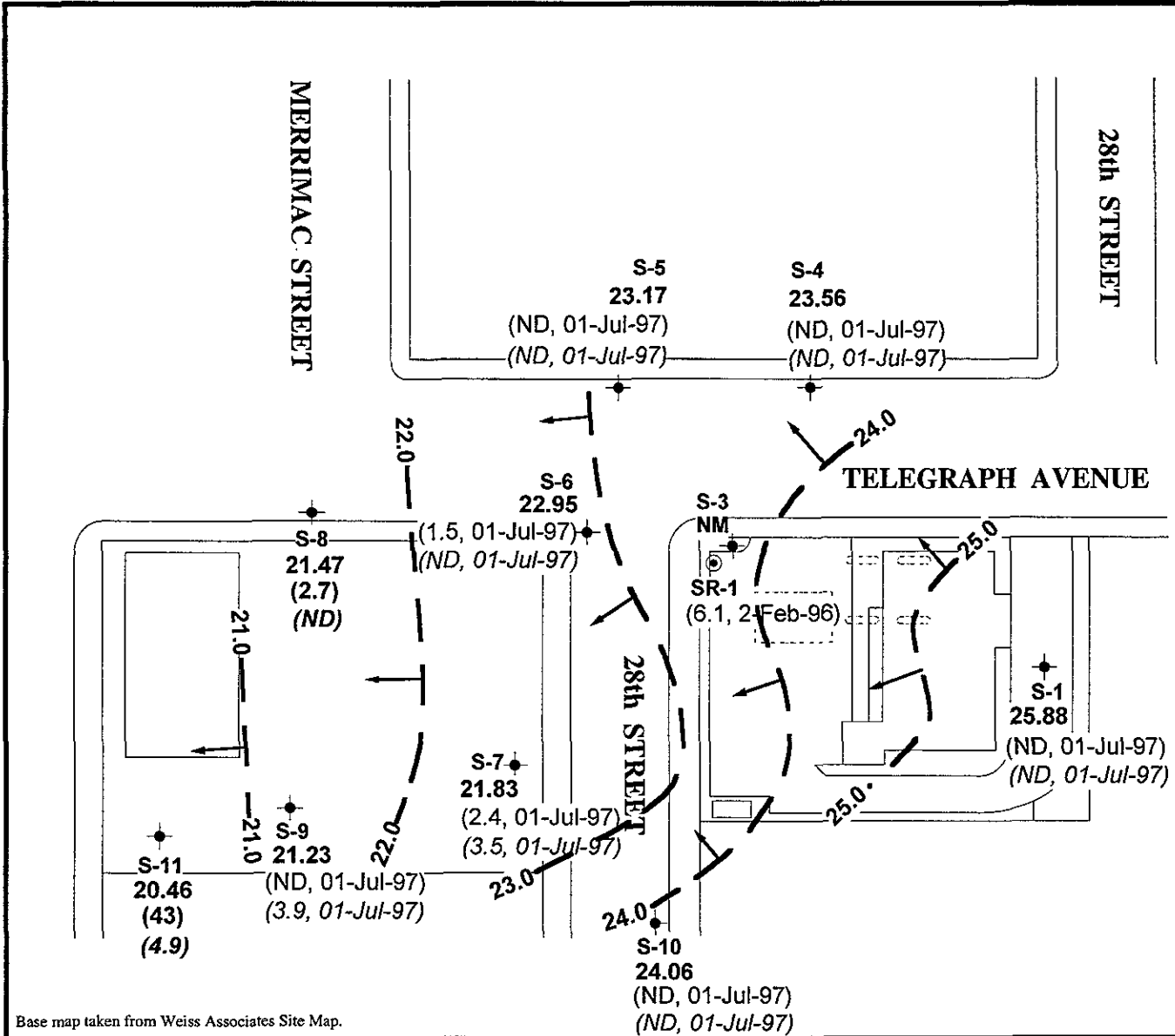
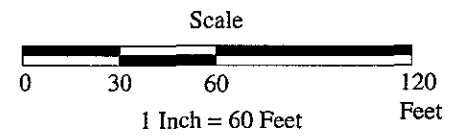
Date: 5-15-95

Approved By: *MEL* Date: 12-5-97

EXPLANATION

- ⊕ Ground Water Monitoring Well
- ⊙ Recovery Well
- ↘ Ground water elevation contour in feet referenced to mean sea level (MSL). Arrows indicate approximate ground water flow direction.
- 20.46 Ground water elevation in feet above MSL
- (43) Benzene concentration in ppb
- (4.9) MTBE concentration in ppb
- NM Not Monitored

Notes: Monitoring and sampling performed on 7-Oct-97 unless otherwise indicated.
 ND = Not Detected
 <X = Not detected at detection limit X
 Approximate hydraulic gradient = 0.016.
 Well SR-1 not used in contouring.



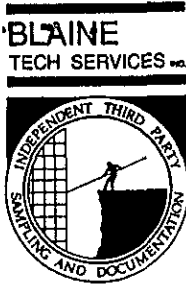
Base map taken from Weiss Associates Site Map.

PLATE 2	GROUND WATER CONTOUR/CHEMICAL CONCENTRATION MAP Former Shell Service Station 2800 Telegraph Avenue Oakland, California	C AMBRIA 290
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Drawn By: MED	Date: 5-Dec-97	Approved By: <i>MED</i>
		Date: 12-5-97

Appendix A

**Blaine Tech Services Inc.
Quarterly Ground Water Monitoring Report**



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

November 11, 1997

RECEIVED
NOV 14 1997

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

Attn: Alex Perez

Shell WIC #204-5508-2303
2800 Telegraph Avenue
Oakland, California

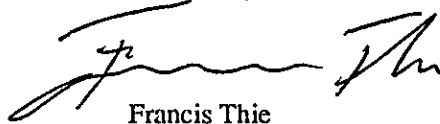
4th Quarter 1997

Groundwater Monitoring Report 971007-A-1

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.
P.O. Box 259
Sonoma, CA 95476-0259
Attn: Joe Neely

(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-1	10/07/97	TOB	--	NONE	--	--	9.43	27.50
S-4	10/07/97	TOB	--	NONE	--	--	10.52	30.20
S-5	10/07/97	TOB	--	NONE	--	--	10.25	30.50
S-6	10/07/97	TOB	--	NONE	--	--	9.64	22.08
S-7	10/07/97	TOB	--	NONE	--	--	11.50	30.60
S-8	10/07/97	TOB	--	NONE	--	--	10.50	19.15
S-9	10/07/97	TOB	--	NONE	--	--	10.63	30.00
S-10	10/07/97	TOB	--	NONE	--	--	8.89	24.20
S-11*	10/07/97	TOB	ODOR	NONE	--	--	10.32	19.13
SR-1	10/07/97	TOB	--	NONE	--	--	9.22	34.10

* Sample DUP was a duplicate sample taken from well S-11.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 971067-171

Date: _____

Page 1 of 1

9710697

Site Address: 2800 Telegraph Ave., Oakland, CA

WIC#: 204-5508-2303

Shall 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: ST-AL

Printed Name: Steve Allen

Analysis Required

LAB: Sequia

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: _____

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	MTBE	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/COMMENTS
S 8	9/7/97			X		3	X		X				X						
S 11	10/7/97			X		3	X		X				X						
DUP	10/7/97			X		3	X		X				X						

Relinquished By (signature): <u>ST-AL</u>	Printed Name: _____	Date: _____	Received (signature): <u>Ray</u>	Printed Name: <u>Ray</u>	Date: <u>10/8/97</u>
Relinquished By (signature): <u>Ray</u>	Printed Name: <u>Ray</u>	Date: <u>10/8/97</u>	Received (signature): _____	Printed Name: _____	Date: _____
Relinquished By (signature): _____	Printed Name: _____	Date: _____	Received (signature): <u>J. Downs</u>	Printed Name: <u>T. DOWNS</u>	Date: <u>10/8/97</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), 988-0673
FAX (916) 921-0100

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

Project: Shell Oakland/971007-H1

Enclosed are the results from samples received at Sequoia Analytical on October 8, 1997.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9710697 -01	LIQUID, S8	10/07/97	TPGM2W Purgeable TPH/BTEX
9710697 -02	LIQUID, S11	10/07/97	TPGM2W Purgeable TPH/BTEX
9710697 -03	LIQUID, DUP	10/07/97	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 Oakland/971007-H1 Sample Descript: S8 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9710697-01	Sampled: 10/07/97 Received: 10/08/97 Analyzed: 10/17/97 Reported: 10/21/97
--	--	---

QC Batch Number: GC101797BTEX03A
Instrument ID: GCHP03

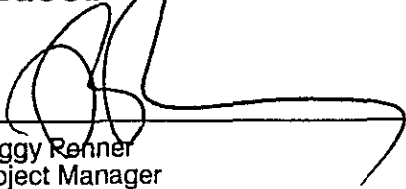
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	300
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	2.7
Toluene	0.50	0.63
Ethyl Benzene	0.50	4.6
Xylenes (Total)	0.50	8.4
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
		117

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 Oakland/971007-H1 Sample Descript: S11 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9710697-02	Sampled: 10/07/97 Received: 10/08/97 Analyzed: 10/16/97 Reported: 10/21/97
Attention: Fran Thie		

QC Batch Number: GC101697BTEX02A
Instrument ID: GCHP02

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	4.9
Benzene	0.50	43
Toluene	0.50	3.0
Ethyl Benzene	0.50	13
Xylenes (Total)	0.50	110
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	114

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 Oakland/971007-H1
Sample Descript: DUP
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9710697-03

Sampled: 10/07/97
Received: 10/08/97

Analyzed: 10/16/97
Reported: 10/21/97

QC Batch Number: GC101697BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	360
Methyl t-Butyl Ether	2.5	4.9
Benzene	0.50	39
Toluene	0.50	2.0
Ethyl Benzene	0.50	7.2
Xylenes (Total)	0.50	74
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	111

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



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

Client Project ID: Shell Oakland / 971007-H1
Matrix: Liquid

Work Order #: 9710697 -01

Reported: Oct 22, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC101797BTEX03A	GC101797BTEX03A	GC101797BTEX03A	GC101797BTEX03A	GC101797BTEX03A
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 #:	971073402	971073402	971073402	971073402	971073402
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/17/97	10/17/97	10/17/97	10/17/97	10/17/97
Analyzed Date:	10/17/97	10/17/97	10/17/97	10/17/97	10/17/97
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.1	8.9	8.9	25	71
MS % Recovery:	91	89	89	83	118
Dup. Result:	8.9	8.7	8.6	24	69
MSD % Recov.:	89	87	86	80	115
RPD:	2.2	2.3	3.4	4.1	2.9
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK101797	BLK101797	BLK101797	BLK101797	BLK101797
Prepared Date:	10/17/97	10/17/97	10/17/97	10/17/97	10/17/97
Analyzed Date:	10/17/97	10/17/97	10/17/97	10/17/97	10/17/97
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.1	8.0	8.0	22	63
LCS % Recov.:	81	80	80	73	105

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

Roggy 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

9710697.BLA <1>



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

Client Project ID: Shell Oakland / 971007-H1
Matrix: Liquid

Work Order #: 9710697-02-03

Reported: Oct 22, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC101697BTEX02A	GC101697BTEX02A	GC101697BTEX02A	GC101697BTEX02A	GC101697BTEX02A
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 #:	971073401	971073401	971073401	971073401	971073401
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Analyzed Date:	10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.9	9.6	9.8	29	64
MS % Recovery:	99	96	98	97	107
Dup. Result:	10	9.4	9.6	29	64
MSD % Recov.:	100	94	96	97	107
RPD:	1.0	2.1	2.1	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK101697	BLK101697	BLK101697	BLK101697	BLK101697
Prepared Date:	10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Analyzed Date:	10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	10	9.9	10	30	67
LCS % Recov.:	100	99	100	100	112

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

9710697.BLA <2>





**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) 988-9675
FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell Oakland/971007-H1 Lab Proj. ID: 9710697	Received: 10/08/97 Reported: 10/21/97
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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 2 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

17:41 WY 91 030 LG
NOV 11 1997
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