

ENVIRONMENTAL  
PROTECTION

95 DEC 17 AM 9:53

December 13, 1996

**Mr. R. Jeff Granberry**  
*Shell Oil Products Company*  
P.O. Box 4023  
Concord, California 94524

**RE: Quarterly Monitoring Report - Fourth Quarter 1996**  
Former Shell Service Station  
15275 Washington Avenue  
San Leandro, California  
WIC #204-6852-1008

Dear Mr. Granberry:

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, San Francisco Bay Region and the Alameda County Health Care Services Agency (ACHCSA).

### Quarterly Monitoring & Sampling Summary

Ground water monitoring and sampling for the fourth quarter of 1996 are summarized below:

- Blaine Tech Services Inc. (Blaine Tech) of San Jose, measured ground water levels in Wells S-1, S-3, S-5, S-7 through S-10, S-13, and S-16 through S-18 on October 10, 1996. Ground water samples were collected from Wells S-8, S-9, S-13, and S-17. The samples were transported to Sequoia Analytical (Sequoia) of Redwood, California for chemical analysis.
- Ground water level measurement data were evaluated and used to prepare a ground water contour/benzene concentration map (Plate 2). Ground water flow ranges from southwesterly to northeasterly at an approximate hydraulic gradient ranging from 0.03 to 0.006.
- Wells S-13 and S-17 were ND for TPPH and BTEX compounds. Well S-8 contained 150 ppb TPPH and 0.53 ppb benzene. **Well S-9 contained 6600 ppb TPPH and 1200 ppb benzene.** A ground water contour/benzene concentration map is presented on Plate 2.

### Fourth Quarter Sampling

Monitoring Wells S-8, S-9, S-13, and S-17 were sampled and analyzed for Total Purgeable Petroleum Hydrocarbons quantitated 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.

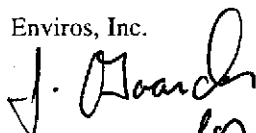
Field monitoring data and chemical analytical data are summarized in Table 1. The Blaine Tech Quarterly Ground Water Monitoring Report is presented in Appendix A.

Quarterly monitoring, sampling, and reporting will continue on the approved sampling schedule for the next quarter.

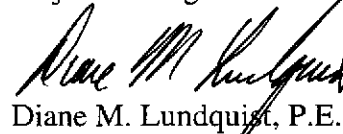
If you have any questions regarding the contents of this document, please call.

Sincerely,

Enviros, Inc.



for  
Joe Neely  
Project Geologist



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



### Attachments

Table 1. Well Concentrations

Plate 1. Vicinity Map

Plate 2. Ground Water Contour/Benzene Concentration Map

### Appendix A

Blaine Tech Services Inc. - Quarterly Ground Water Monitoring Report

cc: Mr. Scott Seery, Alameda County Health Care Services, Environmental Protection  
Division  
Mr. Mike Bakaldin, San Leandro Fire Department

**TABLE 1**

**WELL CONCENTRATIONS  
Shell Oil Products Company  
15275 Washington  
San Leandro, California  
WIC# 204-6852-1008**

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
<b>S-1</b>		<b>Top casing elevation (ft): 21.55</b>								
08-Jul-85	NA	NA	NA	520	NA	NA	NA	NA	NA	Well Inaccessible
06-Sep-88	NA	NA	NA	<50	<0.5	<1	<1	<0.3	NA	
16-Nov-88	8.01	13.54	0.00	<50	<0.5	<1	<1	<0.3	NA	
27-Feb-89	NA	NA	NA	<50	0.5	<1	<1	<0.3	NA	
04-May-89	NA	NA	NA	<50	1.0	<1	<1	<0.3	NA	
10-Aug-89	7.93	13.62	0.00	<50	0.7	<1	<1	<0.3	NA	
10-Oct-89	8.09	13.46	0.00	<50	<0.5	<1	<1	<0.3	NA	
25-Jan-90	7.73	13.82	0.00	<50	<0.5	<0.5	<0.5	<1	NA	
18-Apr-90	7.91	13.64	0.00	<50	<0.5	<0.5	<0.5	<1	NA	
23-Jul-90	7.72	13.83	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Oct-90	8.55	13.00	0.00	80	5	<0.5	<0.5	3.0	NA	
28-Jan-91	8.52	13.03	0.00	<50	4.5	<0.5	<0.5	2.0	NA	
25-Apr-91	7.18	14.37	0.00	80*	3.7	<0.5	0.7	2.0	NA	
09-Jul-91	8.22	13.33	0.00	200	16	<0.5	1.3	5.8	NA	
08-Oct-91	8.70	12.85	0.00	<50	2.3	<0.5	<0.5	<0.5	NA	
05-Feb-92	8.14	13.41	0.00	160	8.9	<0.5	2.1	6.0	NA	
28-Apr-92	7.52	14.03	0.00	<50	2.4	<0.5	<0.5	0.9	NA	
27-Jul-92	8.28	13.27	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Oct-92	8.74	12.81	0.00	57	3.0	1.6	1.4	1.7	NA	
14-Jan-93	5.91	15.64	0.00	490	53	1.2	20	33	NA	
16-Apr-93	6.66	14.89	0.00	240	20	<0.5	15	240	NA	
23-Jul-93	7.53	14.02	0.00	<50	0.5	<0.5	<0.5	<0.5	NA	
27-Oct-93	8.20	13.35	0.00	60	5.9	<0.5	2.5	1.7	NA	
27-Jan-94	7.26	14.29	0.00	<50	2.1	<0.5	<0.5	0.63	NA	
		<b>New top casing elevation (ft): 21.27</b>								
05-May-94	7.38	13.89	0.00	57	3.9	<0.5	1.9	1.9	NA	
26-Jul-94	7.86	13.41	0.00	<50	2.2	<0.3	<0.3	<0.6	NA	

TABLE 1

WELL CONCENTRATIONS  
 Shell Oil Products Company  
 15275 Washington  
 San Leandro, California  
 WIC# 204-6852-1008

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
-------------	------------------------	------------------------	---------	-------------	----------	----------	----------	----------	-------------	----------

28-Oct-94	7.86	13.41	0.00	<50	0.8	<0.3	<0.3	0.8	NA	
02-Jan-95	6.85	14.42	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
14-Apr-95	6.08	15.19	0.00	NA	NA	NA	NA	NA	NA	
28-Jul-95	6.79	14.48	0.00	60	2.2	<0.5	1.3	1.2	NA	
17-Oct-95	7.04	14.23	0.00	60	2.6	<0.5	1.2	1.3	NA	
11-Jan-96	6.40	14.87	0.00	<50	2.0	<0.5	<0.5	<0.5	<2	
02-Apr-96	5.84	15.43	0.00	NA	NA	NA	NA	NA	NA	
09-Jul-96	6.50	14.77	0.00	NA	NA	NA	NA	NA	NA	
10-Oct-96	7.31	13.96	0.00	NA	NA	NA	NA	NA	NA	

S-3	Top casing elevation (ft): 21.14									
06-Sep-88	NA	NA	NA	96000	3400	9500	2700	17000	NA	
16-Nov-88	7.76	13.38	0.00	70000	4600	8400	2500	13000	NA	
27-Feb-89	NA	NA	NA	32000	2400	3100	1500	6400	NA	
04-May-89	NA	NA	NA	47000	4400	300	2400	15000	NA	
10-Aug-89	7.92	13.22	0.00	110000	5700	5700	3200	19000	NA	
10-Oct-89	8.00	13.14	0.00	52000	4600	3300	2600	15000	NA	
25-Jan-90	7.54	13.60	0.00	420000	5200	4100	6700	34000	NA	
18-Apr-90	7.74	13.40	0.00	58000	3800	1400	2400	12000	NA	
23-Jul-90	7.55	13.59	0.00	49000	3400	1800	2300	12000	NA	
18-Oct-90	8.47	12.67	0.00	44000	3500	650	2400	11000	NA	
28-Jan-91	8.38	12.76	0.00	64000	40900	570	1940	8090	NA	
25-Apr-91	6.91	14.23	0.00	120000	3900	3600	2400	8900	NA	
09-Jul-91	8.07	13.07	0.00	50000	3600	2300	1800	10000	NA	
08-Oct-91	8.61	12.53	0.00	130000	3600	1000	2800	8400	NA	
05-Feb-92	7.80	13.34	0.00	150000	2500	670	2700	10000	NA	
28-Apr-92	7.27	13.87	0.00	120000	2200	1200	2000	5800	NA	
27-Jul-92	8.10	13.04	0.00	190000	1400	<1250	<1250	3400	NA	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**15275 Washington**  
**San Leandro, California**  
**WIC# 204-6852-1008**

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
26-Oct-92	8.62	12.52	0.00	950000	2000	8400	16000	36000	NA	
14-Jan-93	5.16	15.98	0.00	41000	2700	2500	1800	6900	NA	
16-Apr-93	7.18	13.96	0.00	40000	930	2800	1900	14000	NA	
23-Jul-93	7.34	13.80	0.00	87000	1600	<5	1300	4000	NA	
27-Oct-93	8.03	13.11	0.00	36000	2200	<500	1500	3200	NA	
27-Jan-94	6.79	14.35	0.00	190000	3200	3100	4100	15000	NA	
		<b>New top casing elevation (ft): 20.48</b>								
05-May-94	6.75	13.73	0.00	36000	1100	490	1600	4700	NA	
26-Jul-94	7.30	13.18	0.00	18000	1039	170.5	845.4	967.5	NA	
28-Oct-94	8.36	12.12	0.00	25869	467.9	294	546.2	343.3	NA	
02-Jan-95	6.36	14.12	0.00	23000	850	260	900	2100	NA	
14-Apr-95	5.87	14.61	0.00	33000	720	670	1600	6600	NA	
28-Jul-95	6.33	14.15	0.00	12000	540	<10	580	780	NA	
17-Oct-95	6.48	14.00	0.00	NA	NA	NA	NA	NA	NA	Well Inaccessible
11-Jan-96	5.80	14.68	0.00	16000	520	290	740	2600	<200	
02-Apr-96	5.05	15.48	0.00	NA	NA	NA	NA	NA	NA	
09-Jul-96	5.93	14.55	0.00	NA	NA	NA	NA	NA	NA	
10-Oct-96	6.73	13.75	0.00	NA	NA	NA	NA	NA	NA	
<b>S-5</b>		<b>Top casing elevation (ft): 21.41</b>								
08-Jan-87	NA	NA	NA	7800	380	510	NA	1000	NA	
06-Sep-88	NA	NA	NA	7000	2600	60	400	700	NA	
16-Nov-88	NA	NA	NA	3000	660	60	120	220	NA	
27-Feb-89	NA	NA	NA	5700	2000	220	260	320	NA	
04-May-89	NA	NA	NA	9000	3000	600	630	1700	NA	
10-Aug-89	8.28	13.13	0.00	5100	1100	<50	270	400	NA	
10-Oct-89	8.32	13.09	0.00	15000	3300	160	830	2200	NA	
25-Jan-90	8.20	13.21	0.00	12000	2400	360	570	1400	NA	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**15275 Washington**  
**San Leandro, California**  
**WIC# 204-6852-1008**

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
18-Apr-90	8.32	13.09	0.00	5200	1100	40	300	460	NA	
23-Jul-90	8.03	13.38	0.00	5500	1300	140	320	730	NA	
18-Oct-90	9.03	12.38	0.00	12000	3200	40	720	900	NA	
28-Jan-91	8.80	12.61	0.00	2550	410	15	110	60	NA	
25-Apr-91	7.40	14.01	0.00	67000	5100	3100	2800	11000	NA	
09-Jul-91	8.52	12.89	0.00	4900	480	36	360	1000	NA	
08-Oct-91	9.00	12.41	0.00	6600	370	7.0	190	380	NA	
05-Feb-92	8.11	13.30	0.00	44000	4800	850	2700	8400	NA	
28-Apr-92	7.70	13.71	0.00	33000	1400	320	1600	5200	NA	
27-Jul-92	8.52	12.89	0.00	20000	2400	<25	1800	2300	NA	
26-Oct-92	9.02	12.39	0.00	21000	1600	140	1500	2800	NA	
14-Jan-93	5.22	16.19	0.00	54000	1900	1000	2700	16000	NA	
16-Apr-93	7.04	14.37	0.00	42000	2000	1300	4300	18000	NA	
23-Jul-93	7.75	13.66	0.00	46000	2500	2200	3400	11000	NA	
27-Oct-93	8.49	12.92	0.00	6500	990	31	1100	1000	NA	
27-Jan-94	7.04	14.37	0.00	34000	1800	580	2900	9700	NA	
		<b>New top casing elevation (ft): 21.03</b>								
05-May-94	7.20	13.83	0.00	24000	670	70	1400	2700	NA	
27-Jul-94	7.72	13.31	0.00	4700	193.6	33.1	332.3	281.2	NA	
28-Oct-94	7.82	13.21	0.00	3200	167.3	18	238.7	104.5	NA	
02-Jan-95	6.65	14.38	0.00	18000	1300	220	3400	10000	NA	
14-Apr-95	5.99	15.04	0.00	NA	NA	NA	NA	NA	NA	
28-Jul-95	6.77	14.26	0.00	25000	440	74	1700	4500	NA	
17-Oct-95	7.00	14.03	0.00	18000	360	24	1300	2200	NA	
11-Jan-96	6.22	14.81	0.00	41000	420	180	1600	9500	<200	
02-Apr-96	5.44	15.59	0.00	NA	NA	NA	NA	NA	NA	
09-Jul-96	6.41	14.62	0.00	NA	NA	NA	NA	NA	NA	
10-Oct-96	7.19	13.84	0.00	NA	NA	NA	NA	NA	NA	

**TABLE 1**

**WELL CONCENTRATIONS  
Shell Oil Products Company  
15275 Washington  
San Leandro, California  
WIC# 204-6852-1008**

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
-------------	------------------------	------------------------	---------	-------------	----------	----------	----------	----------	-------------	----------

<b>S-5 DUP</b>										
28-Jul-95	NA	NA	NA	25000	450	<50	1700	4600	NA	
<b>S-6</b>										
		<b>Top casing elevation (ft): 22.02</b>								
16-Nov-88	8.58	13.44	0.00	50	0.7	<1	<1	<3	NA	
27-Feb-89	NA	NA	NA	<50	<0.5	<1	<1	<3	NA	
04-May-89	NA	NA	NA	<50	<0.5	<1	<1	<3	NA	
10-Aug-89	8.54	13.48	0.00	<50	<0.5	<1	<1	<3	NA	
10-Oct-89	8.58	13.44	0.00	<50	<0.5	<1	<1	<3	NA	
25-Jan-90	8.31	13.71	0.00	<50	<0.5	<0.5	<0.5	<1	NA	
18-Apr-90	8.43	13.59	0.00	<50	<0.5	0.6	<0.5	1.0	NA	
23-Jul-90	8.24	13.78	0.00	<50	<0.5	0.9	<0.5	1.8	NA	
18-Oct-90	9.20	12.82	0.00	<50	<0.5	0.7	<0.5	0.8	NA	
28-Jan-91	9.10	12.92	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Apr-91	7.74	14.28	0.00	<50	<0.5	<0.5	<0.5	0.7	NA	
09-Jul-91	8.81	13.21	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
08-Oct-91	9.26	12.76	0.00	<50	0.7	<0.5	<0.5	<0.5	NA	
02-Feb-92	8.47	13.55	0.00	NA	NA	NA	NA	NA	NA	
28-Apr-92	7.91	14.11	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
27-Jul-92	8.83	13.19	0.00	NA	NA	NA	NA	NA	NA	
26-Oct-92	9.29	12.73	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Jan-94	9.43	12.59	0.00	NA	NA	NA	NA	NA	NA	
16-Apr-93	7.12	14.90	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Jul-93	8.14	13.88	0.00	NA	NA	NA	NA	NA	NA	
27-Oct-93	8.75	13.27	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
27-Jan-94	7.87	14.15	0.00	NA	NA	NA	NA	NA	NA	
		<b>New top casing elevation (ft): 21.40</b>								

**TABLE 1**

**WELL CONCENTRATIONS  
Shell Oil Products Company  
15275 Washington  
San Leandro, California  
WIC# 204-6852-1008**

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
05-May-94	7.71	13.69	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Jul-94	8.10	13.30	0.00	NA	NA	NA	NA	NA	NA	
28-Oct-94	8.04	13.36	0.00	<50	<0.3	<0.3	<0.3	<0.6	NA	
02-Jan-95	7.07	14.33	0.00	NA	NA	NA	NA	NA	NA	
14-Apr-95	6.29	15.11	0.00	<50	<0.5	1.3	<0.5	<0.5	NA	
28-Jul-95	6.91	14.49	0.00	NA	NA	NA	NA	NA	NA	
17-Oct-95	7.20	14.20	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Jan-96	6.60	14.80	0.00	NA	NA	NA	NA	NA	NA	
<b>S-7</b>										
		<b>Top casing elevation (ft): 21.47</b>								
16-Nov-88	8.24	13.23	0.00	100	5.1	15	2.0	13	NA	
27-Feb-89	NA	NA	NA	50	0.5	3.0	1.0	11	NA	
04-May-89	NA	NA	NA	<50	<0.5	<1	<1	<3	NA	
10-Aug-89	8.18	13.29	0.00	<50	<0.5	<1	<1	<3	NA	
10-Oct-89	8.35	13.12	0.00	<50	<0.5	<1	<1	<3	NA	
25-Jan-90	7.95	13.52	0.00	<50	<0.5	<0.5	<0.5	<1	NA	
18-Apr-90	8.06	13.41	0.00	<50	<0.5	<0.5	<0.5	<1	NA	
23-Jul-90	7.89	13.58	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Oct-90	8.83	12.64	0.00	<50	<0.5	0.5	0.5	4.1	NA	
28-Jan-91	8.77	12.70	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Apr-91	7.25	14.22	0.00	60	<0.5	<0.5	<0.5	<0.5	NA	
09-Jul-91	8.41	13.06	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
08-Oct-91	8.95	12.52	0.00	NA	NA	NA	NA	NA	NA	
05-Feb-92	8.04	13.43	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
08-Oct-91	8.95	12.52	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Apr-92	7.45	14.02	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
27-Jul-92	8.48	12.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Oct-92	9.95	11.52	0.00	570	<0.5	<0.5	<0.5	<0.5	NA	



**TABLE 1**

**WELL CONCENTRATIONS  
Shell Oil Products Company  
15275 Washington  
San Leandro, California  
WIC# 204-6852-1008**

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
14-Jan-93	5.84	15.63	0.00	56	<0.5	<0.5	<0.5	<0.5	NA	
16-Apr-93	6.38	15.09	0.00	110	28	<0.5	<0.5	1.8	NA	
23-Jul-93	7.72	13.75	0.00	80	0.48	<0.5	<0.5	0.8	NA	
27-Oct-93	7.79	13.68	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
27-Jan-94	7.85	13.62	0.00	70**	<0.5	<0.5	<0.5	<0.5	NA	
		<b>New top casing elevation (ft): 20.85</b>								
05-May-94	9.45	11.40	0.00	92	2.1	<0.5	<0.5	<0.5	NA	
26-Jul-94	7.64	13.21	0.00	88	<0.3	<0.3	<0.3	<0.6	NA	
28-Oct-94	7.68	13.17	0.00	60	<0.3	0.5	<0.3	<0.6	NA	
02-Jan-95	6.95	13.90	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
14-Apr-95	5.82	15.03	0.00	NA	NA	NA	NA	NA	NA	
28-Jul-95	6.32	14.53	0.00	170	1.7	<0.5	<0.5	2.2	NA	
17-Oct-95	7.07	13.78	0.00	100	<0.5	0.6	<0.5	<0.5	NA	
11-Jan-96	6.10	14.75	0.00	80	0.6	<0.5	<0.5	<0.5	54	
02-Apr-96	6.14	14.71	0.00	NA	NA	NA	NA	NA	NA	
09-Jul-96	6.40	14.45	0.00	NA	NA	NA	NA	NA	NA	
10-Oct-96	6.70	14.15	0.00	NA	NA	NA	NA	NA	NA	
<b>S-8</b>		<b>Top casing elevation (ft): 20.72</b>								
16-Nov-88	7.76	12.96	0.00	210	5.0	<1	1.0	5.0	NA	
27-Feb-89	NA	NA	NA	<50	2.4	<1	<1	<3	NA	
04-May-89	NA	NA	NA	<50	7.5	<1	2.0	<3	NA	
10-Aug-89	7.79	12.93	0.00	<50	0.6	<1	<1	<3	NA	
10-Oct-89	7.84	12.88	0.00	<50	<0.5	<1	<1	<3	NA	
25-Jan-90	7.47	13.25	0.00	<50	<0.5	<0.5	<0.5	<1	NA	
18-Apr-90	7.59	13.13	0.00	<50	<0.5	<0.5	<0.5	<1	NA	
23-Jul-90	7.49	13.23	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Oct-90	8.44	12.28	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**15275 Washington**  
**San Leandro, California**  
**WIC# 204-6852-1008**

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
28-Jan-91	8.28	12.44	0.00	<50	55	0.5	<0.5	1.4	NA	
25-Apr-91	6.72	14.00	0.00	130*	19	<0.5	1.3	1.1	NA	
09-Jul-91	7.98	12.74	0.00	200	33	<0.5	1.8	2.8	NA	
08-Oct-91	8.55	12.17	0.00	580	95	2.2	4.9	6.5	NA	
05-Feb-92	7.50	13.22	0.00	90*	18	<0.5	6.2	1.8	NA	
28-Apr-92	7.14	13.58	0.00	<50	5.9	<0.5	2.5	<0.5	NA	
27-Jul-92	8.06	12.66	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Oct-92	8.58	12.14	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
14-Jan-93	5.32	15.40	0.00	270	74	0.9	25	5.5	NA	
16-Apr-93	5.76	14.96	0.00	1100	420	<0.5	200	20	NA	
23-Jul-93	7.29	13.43	0.00	160	23	<0.5	1.2	1.5	NA	
27-Oct-93	7.93	12.79	0.00	420	650	0.7	11	1.7	NA	
27-Jan-94	6.31	14.41	0.00	290	65	<1	6.9	2.4	NA	
		<b>New top casing elevation (ft): 20.32</b>								
05-May-94	6.84	13.48	0.00	120	13	<0.5	<0.5	<0.5	NA	
26-Jul-94	7.42	12.90	0.00	115	12.2	1.3	<0.3	2.7	NA	
28-Oct-94	7.56	12.76	0.00	793	75.9	3.2	4.9	4.2	NA	
02-Jan-95	6.19	14.13	0.00	290	54	<0.5	10	<0.5	NA	
14-Apr-95	5.54	14.78	0.00	230	68	<0.5	10	2.4	NA	
28-Jul-95	6.28	14.04	0.00	290	44	<0.5	8.0	<0.5	NA	
17-Oct-95	6.64	13.68	0.00	190	24	<0.5	1.0	0.9	NA	
11-Jan-96	5.96	14.36	0.00	400	85	1.1	13	3.4	2.3	
02-Apr-96	5.21	15.11	0.00	300	110	0.7	4.9	0.9	<2	
09-Jul-96	6.05	14.27	0.00	<50	5.4	<0.50	0.63	<0.50	<2.5	
10-Oct-96	6.83	13.49	0.00	150	0.53	0.66	2.3	1.0		
		<b>Top casing elevation (ft): 20.96</b>								
<b>S-9</b>										
16-Nov-88	7.78	13.18	0.00	1400	69	3.0	52	180	NA	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**15275 Washington**  
**San Leandro, California**  
**WIC# 204-6852-1008**

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
27-Feb-89	NA	NA	NA	1600	240	4.0	130	180	NA	
04-May-89	NA	NA	NA	2600	470	10	240	480	NA	
10-Aug-89	7.82	13.14	0.00	520	73	<10	40	<30	NA	
10-Oct-89	7.87	13.09	0.00	380	82	<1	46	13	NA	
25-Jan-90	7.41	13.55	0.00	750	140	1.2	69	75	NA	
18-Apr-90	7.65	13.31	0.00	680	150	1.7	50	37	NA	
23-Jul-90	7.58	13.38	0.00	490	94	1.2	32	24	NA	
18-Oct-90	8.46	12.50	0.00	390	140	0.7	3.3	24	NA	
28-Jan-91	8.29	12.67	0.00	1040	450	4.6	85	97	NA	
25-Apr-91	6.09	14.87	0.00	5800	880	9.0	360	500	NA	
09-Jul-91	7.82	13.14	0.00	1400	220	2.8	82	100	NA	
08-Oct-91	8.55	12.41	0.00	890	960	<2.5	16	29	NA	
05-Feb-92	6.96	14.00	0.00	950	240	<2.5	28	55	NA	
28-Apr-92	6.76	14.20	0.00	1400*	290	3.0	100	81	NA	
27-Jul-92	8.10	12.86	0.00	890	190	<2.5	66	68	NA	
26-Oct-92	8.53	12.43	0.00	650	160	<2.5	63	89	NA	
13-Jan-93	6.80	14.16	0.00	19000	2400	38	1700	2200	NA	
16-Apr-93	6.28	14.68	0.00	10000	1500	<5	1100	990	NA	
23-Jul-93	7.26	13.70	0.00	1100	400	<5	260	160	NA	
27-Oct-93	8.00	12.96	0.00	2500	400	<5	190	110	NA	
27-Jan-94	5.96	15.00	0.00	4800	990	16	630	490	NA	
		<b>New top casing elevation (ft): 20.68</b>								
05-May-94	6.99	13.69	0.00	3700	480	<5	21	120	NA	
26-Jul-94	7.56	13.12	0.00	1000	124.6	<0.3	35.8	28.6	NA	
28-Oct-94	7.78	12.90	0.00	979	80.3	7.0	21.7	29.2	NA	
02-Jan-95	6.29	14.39	0.00	3900	540	2.4	350	150	NA	
14-Apr-95	5.69	14.99	0.00	5100	1000	<10	380	230	NA	
28-Jul-95	6.61	14.07	0.00	4600	680	<10	120	47	NA	

**TABLE 1**

**WELL CONCENTRATIONS  
Shell Oil Products Company  
15275 Washington  
San Leandro, California  
WIC# 204-6852-1008**

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
17-Oct-95	7.00	13.68	0.00	1600	150	<0.5	42	15	NA	
11-Jan-96	6.20	14.48	0.00	6800	1100	12	720	95	24	
02-Apr-96	5.19	15.49	0.00	6000	1300	8.3	430	99	49	
09-Jul-96	6.43	14.25	0.00	3400	680	6.7	54	31	<25	
10-Oct-96	7.08	13.60	0.00	6600	1200	<10	160	<10		
<b>S-9 (DUP)</b>										
02-Apr-96	NA	NA	NA	6500	1200	8.3	410	90	<20	
09-Jul-96	NA	NA	NA	3300	730	<5.0	58	28	<25	
10-Oct-96	NA	NA	NA	6100	1000	<10	200	15	65	
<b>S-10</b>										
		<b>Top casing elevation (ft): 20.86</b>								
16-Nov-88	7.91	12.95	0.00	330	0.5	<1	1.0	11	NA	
27-Feb-89	NA	NA	NA	140	<0.5	<3	2.0	6.0	NA	
03-May-89	NA	NA	NA	220	<0.5	1.0	2.0	7.0	NA	
10-Aug-89	7.94	12.92	0.00	<50	<0.5	<1	<1	<3	NA	
09-Oct-89	7.99	12.87	0.00	170	<0.5	<1	<1	<3	NA	
25-Jan-90	7.56	13.30	0.00	<50	<0.5	<0.5	1.1	4.0	NA	
18-Apr-90	7.71	13.15	0.00	<50	<0.5	0.9	<0.5	2.0	NA	
23-Jul-90	7.64	13.22	0.00	590	<0.5	<0.5	1.9	19	NA	
18-Oct-90	8.58	12.28	0.00	140	<0.5	0.7	<0.5	7.0	NA	
28-Jan-91	8.35	12.51	0.00	<50	<0.5	<0.5	<0.5	0.5	NA	
		<b>New top casing elevation (ft): 20.69</b>								
25-Apr-91	6.91	13.78	0.00	<50	<0.5	<0.5	1.1	0.8	NA	
09-Jul-91	8.14	12.55	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
08-Oct-91	8.70	11.99	0.00	140	<0.5	<0.5	<0.5	<0.5	NA	
05-Feb-92	7.57	13.12	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Apr-92	7.20	13.49	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**15275 Washington**  
**San Leandro, California**  
**WIC# 204-6852-1008**

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
27-Jul-92	8.17	12.52	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Oct-92	8.68	12.01	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Jan-93	3.78	16.91	0.00	88	<0.5	0.6	0.6	<0.5	NA	
16-Apr-93	6.46	14.23	0.00	80	<0.5	<0.5	<0.5	<0.5	NA	
23-Jul-93	7.38	13.31	0.00	<50	1.5	<0.5	0.7	2.7	NA	
27-Oct-93	8.09	12.60	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
27-Jan-94	5.81	14.88	0.00	270	1.1	1.3	2.0	7.4	NA	
<b>New top casing elevation (ft): 20.15</b>										
05-May-94	6.82	13.33	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Jul-94	7.40	12.75	0.00	<50	<0.3	<0.3	<0.3	<0.6	NA	
28-Oct-94	7.62	12.53	0.00	<50	2.4	<0.3	0.5	0.8	NA	
02-Jan-95	6.13	14.02	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
14-Apr-95	5.60	14.55	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Jul-95	6.44	13.71	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-Oct-95	6.85	13.30	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Jan-96	6.08	14.07	0.00	<50	<0.5	<0.5	<0.5	<0.5	<2	
02-Apr-96	5.21	14.94	0.00	NA	NA	NA	NA	NA	NA	
09-Jul-96	6.20	13.95	0.00	NA	NA	NA	NA	NA	NA	
10-Oct-96	6.92	13.23	0.00	NA	NA	NA	NA	NA	NA	
<b>S-11 Top casing elevation (ft): 21.26</b>										
16-Nov-88	8.62	12.64	0.00	<50	<0.5	<1	<1	<3	NA	
27-Feb-89	NA	NA	NA	<50	<0.5	<1	<1	<3	NA	
03-May-89	NA	NA	NA	<50	<0.5	<1	<1	<3	NA	
10-Aug-89	8.65	12.61	0.00	<50	<0.5	<1	<1	<3	NA	
09-Oct-89	8.64	12.62	0.00	<50	<0.5	<1	<1	<3	NA	
25-Jan-90	8.43	12.83	0.00	<50	<0.5	<0.5	<0.5	<1	NA	
18-Apr-90	8.42	12.84	0.00	<50	<0.5	<0.5	<0.5	<1	NA	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**15275 Washington**  
**San Leandro, California**  
**WIC# 204-6852-1008**

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
23-Jul-90	8.23	13.03	0.00	<50	<0.5	0.6	<0.5	1.1	NA	
18-Oct-90	9.20	12.06	0.00	<50	<0.5	<0.5	<0.5	0.5	NA	
28-Jan-91	9.13	12.13	0.00	63	<0.5	3.3	0.9	7.0	NA	
25-Apr-91	7.53	13.73	0.00	<50	<0.5	<0.5	0.8	<0.5	NA	
09-Jul-91	8.85	12.41	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
08-Oct-91	9.34	11.92	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
05-Feb-91	8.50	12.76	0.00	NA	NA	NA	NA	NA	NA	
28-Apr-92	7.80	13.46	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
27-Jul-92	8.80	12.46	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Oct-92	9.42	11.84	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Jan-93	6.52	14.74	0.00	NA	NA	NA	NA	NA	NA	
16-Apr-93	6.86	14.40	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Jul-93	8.07	13.19	0.00	NA	NA	NA	NA	NA	NA	
27-Oct-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
27-Jan-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		<b>New top casing elevation (ft): 21.24</b>								
05-May-94	7.73	13.51	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Jul-94	8.30	12.94	0.00	NA	NA	NA	NA	NA	NA	
28-Oct-94	8.30	12.94	0.00	<50	<0.3	<0.3	<0.3	<0.6	NA	
02-Jan-95	7.25	13.99	0.00	NA	NA	NA	NA	NA	NA	
14-Apr-95	6.99	14.25	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Jul-95	7.21	14.03	0.00	NA	NA	NA	NA	NA	NA	
17-Oct-95	7.41	13.83	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Jan-96	6.80	14.44	0.00	NA	NA	NA	NA	NA	NA	
		<b>Top casing elevation (ft): 21.05</b>								
<b>S-12</b>										
16-Nov-88	NA	NA	NA	50	3.5	<1	<1	<3	NA	
27-Feb-89	NA	NA	NA	<50	0.8	<1	<1	<3	NA	

TABLE 1

WELL CONCENTRATIONS  
 Shell Oil Products Company  
 15275 Washington  
 San Leandro, California  
 WIC# 204-6852-1008

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
03-May-89	NA	NA	NA	<50	<0.5	<1	<1	<3	NA	
10-Aug-89	8.32	12.73	0.00	<50	<0.5	<1	<1	<3	NA	
09-Oct-89	8.32	12.73	0.00	<50	<0.5	<1	<1	<1	NA	
25-Jan-90	8.18	12.87	0.00	<50	<0.5	<0.5	<0.5	<1	NA	
18-Apr-90	8.05	13.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Jul-90	7.92	13.13	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Oct-90	8.90	12.15	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Jan-91	8.54	12.51	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Apr-91	7.08	13.97	0.00	90	5.4	<0.5	1.1	0.7	NA	
09-Jul-91	8.42	12.63	0.00	<50	2.9	<0.5	<0.5	<0.5	NA	
08-Oct-91	8.80	12.25	0.00	50	<0.5	<0.5	<0.5	<0.5	NA	
05-Feb-92	8.07	12.98	0.00	50*	<0.5	<0.5	<0.5	<0.5	NA	
28-Apr-92	8.33	12.72	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
27-Jul-92	8.55	12.50	0.00	94	<0.5	<0.5	<0.5	<0.5	NA	
26-Oct-92	9.03	12.02	0.00	86	<0.5	<0.5	<0.5	<0.5	NA	
14-Jan-93	6.38	14.67	0.00	120	2.0	<0.5	<0.5	<0.5	NA	
16-Apr-93	6.56	14.49	0.00	60	<0.5	<0.5	<0.5	<0.5	NA	
23-Jul-93	7.76	13.29	0.00	90	<0.5	<0.5	<0.5	<0.5	NA	
27-Oct-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
27-Jan-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
		<b>New top casing elevation (ft): 20.71</b>								
05-May-94	7.49	13.22	0.00	<50	2.0	<0.5	<0.5	<0.5	NA	
26-Jul-94	7.92	12.79	0.00	128	<0.3	<0.3	<0.3	<0.6	NA	
28-Oct-94	7.78	12.93	0.00	167	<0.3	<0.3	<0.3	<0.6	NA	
02-Jan-95	7.33	13.38	0.00	50	<0.5	<0.5	<0.5	<0.5	NA	
14-Apr-95	6.47	14.24	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Jul-95	6.90	13.81	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-Oct-95	7.16	13.55	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

TABLE 1

WELL CONCENTRATIONS  
 Shell Oil Products Company  
 15275 Washington  
 San Leandro, California  
 WIC# 204-6852-1008

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
11-Jan-96	6.65	14.06	0.00	<50	<0.5	<0.5	<0.5	<0.5	82	
<b>S-13</b>		<b>Top casing elevation (ft): 20.57</b>								
03-May-89	NA	NA	NA	150	4.9	4.0	2.0	14	NA	
10-Aug-89	8.00	12.57	0.00	110	2.9	<1	<1	<3	NA	
09-Oct-89	7.95	12.62	0.00	77	1.4	<1	<1	<3	NA	
25-Jan-90	7.79	12.78	0.00	51	0.5	<0.5	<0.5	<1	NA	
18-Apr-90	7.73	12.84	0.00	85	8.7	<0.5	<0.5	<1	NA	
23-Jul-90	7.63	12.94	0.00	80	0.8	<0.5	<0.5	<0.5	NA	
18-Oct-90	8.58	11.99	0.00	130	<0.5	<0.5	<0.5	<5	NA	
28-Jan-91	8.39	12.18	0.00	<50	<0.5	0.9	1.2	1.0	NA	
25-Apr-91	7.00	13.57	0.00	440*	3.8	<0.5	<0.5	0.6	NA	
09-Jul-91	8.12	12.45	0.00	320*	0.6	<0.5	<0.5	<0.5	NA	
08-Oct-91	8.69	11.88	0.00	310	<0.5	<0.5	<0.5	<0.5	NA	
05-Feb-92	7.62	12.95	0.00	NA	NA	NA	NA	NA	NA	
28-Apr-92	7.15	13.42	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
27-Jul-92	8.20	12.37	0.00	NA	NA	NA	NA	NA	NA	
26-Oct-92	8.73	11.84	0.00	180	<0.5	<0.5	<0.5	<0.5	NA	
13-Jan-93	5.06	15.51	0.00	NA	NA	NA	NA	NA	NA	
16-Apr-93	6.38	14.19	0.00	240	4.8	<0.5	1.3	<0.5	NA	
23-Jul-93	7.45	13.12	0.00	NA	NA	NA	NA	NA	NA	
27-Oct-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
27-Jan-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		<b>New top casing elevation (ft): 20.16</b>								
05-May-94	6.91	13.25	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Jul-94	7.52	12.64	0.00	NA	NA	NA	NA	NA	NA	
28-Oct-94	7.68	12.48	0.00	368	<0.3	<0.3	<0.3	<0.6	NA	
02-Jan-95	6.37	13.79	0.00	NA	NA	NA	NA	NA	NA	



TABLE 1

WELL CONCENTRATIONS  
 Shell Oil Products Company  
 15275 Washington  
 San Leandro, California  
 WIC# 204-6852-1008

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
14-Apr-95	5.81	14.35	0.00	NA	NA	NA	NA	NA	NA	
28-Jul-95	6.73	13.43	0.00	NA	NA	NA	NA	NA	NA	
17-Oct-95	6.94	13.22	0.00	<50	1.0	<0.5	<0.5	<0.5	NA	
11-Jan-96	6.20	13.96	0.00	NA	NA	NA	NA	NA	NA	
02-Apr-96	5.28	14.88	0.00	<50	<0.5	<0.5	<0.5	<0.5	<2	
09-Jul-96	6.35	13.81	0.00	NA	NA	NA	NA	NA	NA	
10-Oct-96	7.04	13.12	0.00	<50	<0.50	<0.50	<0.50	<0.50		60 ppb

S-14		Top casing elevation (ft): 20.44									
03-May-89	NA	NA	NA	5300	750	400	200	800	NA		
10-Aug-89	7.58	12.86	0.00	1800	540	140	42	50	NA		
09-Oct-89	7.62	12.82	0.00	1000	360	60	20	30	NA		
25-Jan-90	7.82	12.62	0.00	640	160	77	17	39	NA		
18-Apr-90	7.37	13.07	0.00	1200	200	110	30	96	NA		
23-Jul-90	7.28	13.16	0.00	5000	430	340	140	660	NA		
18-Oct-90	8.10	12.34	0.00	1800	770	13	17	120	NA		
28-Jan-91	8.04	12.40	0.00	720	200	36	21	78	NA		
25-Apr-91	6.40	14.04	0.00	14000	930	430	250	970	NA		
09-Jul-91	7.69	12.75	0.00	160	30	5.3	5	16	NA		
08-Oct-91	8.24	12.20	0.00	5400	81	57	95	380	NA		
02-Feb-92	7.20	13.24	0.00	NA	NA	NA	NA	NA	NA		
28-Apr-92	9.75	10.69	0.00	2000	270	140	48	170	NA		
26-Oct-92	8.32	12.12	0.00	920	33	12	25	88	NA		
13-Jan-93	5.87	15.37	0.00	NA	NA	NA	NA	NA	NA		
16-Apr-93	5.86	14.58	0.00	4500	1100	29	91	170	NA		
23-Jul-93	7.06	13.38	0.00	NA	NA	NA	NA	NA	NA		
27-Oct-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible	
27-Jan-94	NA	NA	NA	NA	NA	NA	NA	NA	NA		

TABLE 1

**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**15275 Washington**  
**San Leandro, California**  
**WIC# 204-6852-1008**

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
-------------	------------------------	------------------------	---------	-------------	----------	----------	----------	----------	-------------	----------

<b>New top casing elevation (ft): 19.99</b>										
05-May-94	6.48	13.51	0.00	810	250	<2.5	9.4	19	NA	
26-Jul-94	7.04	12.95	0.00	NA	NA	NA	NA	NA	NA	
28-Oct-94	7.07	12.92	0.00	5385	290.6	85.8	49.7	186.2	NA	
02-Jan-95	5.95	14.04	0.00	NA	NA	NA	NA	NA	NA	
14-Apr-95	5.22	14.77	0.00	1600	40	4.7	11	20	NA	
28-Jul-95	6.21	13.78	0.00	NA	NA	NA	NA	NA	NA	
17-Oct-95	6.30	13.69	0.00	1200	37	<0.5	7.8	11	NA	
11-Jan-96	5.70	14.29	0.00	NA	NA	NA	NA	NA	NA	

<b>S-15 Top casing elevation (ft): 22.22</b>										
03-May-89	NA	NA	NA	<50	<0.5	<1	<1	<3	NA	
10-Aug-89	8.48	13.74	0.00	<50	<0.5	<1	<1	<3	NA	
09-Oct-89	8.46	13.76	0.00	<50	<0.5	<1	<1	<3	NA	
25-Jan-90	8.34	13.88	0.00	<50	<0.5	<1	<1	<1	NA	
18-Apr-90	8.45	13.77	0.00	<50	<0.5	<0.5	<0.5	<1	NA	
23-Jul-90	8.22	14.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Oct-90	9.11	13.11	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Jan-91	9.13	13.09	0.00	<50	<0.5	0.6	<0.5	0.8	NA	
25-Apr-91	7.83	14.39	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
09-Jul-91	8.93	13.29	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
08-Oct-91	9.26	12.96	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
05-Feb-92	8.60	13.62	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Apr-92	8.09	14.13	0.00	50	0.8	0.9	<0.5	1.4	NA	
27-Jul-92	8.83	13.39	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Oct-92	9.31	12.91	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
14-Jan-93	6.64	15.58	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
16-Apr-93	7.14	15.08	0.00	<50	0.6	1.0	<0.5	0.7	NA	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**15275 Washington**  
**San Leandro, California**  
**WIC# 204-6852-1008**

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
23-Jul-93	8.23	13.99	0.00	<50	1.2	<0.5	<0.5	1.6	NA	
27-Oct-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
27-Jan-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
<b>New top casing elevation (ft): 21.42</b>										
05-May-94	7.57	13.85	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Jul-94	8.16	13.26	0.00	<50	<0.3	<0.3	<0.3	<0.6	NA	
28-Oct-94	7.87	13.55	0.00	<50	0.3	<0.3	<0.3	<0.6	NA	
02-Jan-95	7.02	14.40	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
14-Apr-95	6.19	15.23	0.00	NA	NA	NA	NA	NA	NA	
28-Jul-95	6.72	14.70	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-Oct-95	7.04	14.38	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Jan-96	6.40	15.02	0.00	<50	<0.5	<0.5	<0.5	<0.5	<2	
<b>S-16</b>										
<b>Top casing elevation (ft): 21.82</b>										
04-May-94	NA	NA	NA	380	44	3.0	2.0	<3	NA	
10-Aug-89	8.36	13.46	0.00	<50	0.6	<1	<1	<3	NA	
10-Oct-89	8.23	13.59	0.00	<5	<0.5	<1	<1	<3	NA	
25-Jan-90	7.88	13.94	0.00	240	160	3.3	0.8	11	NA	
18-Apr-90	8.19	13.63	0.00	<50	1.0	<0.5	<0.5	<1	NA	
23-Jul-90	8.09	13.73	0.00	<50	1.1	<0.5	<0.5	<0.5	NA	
18-Oct-90	8.90	12.92	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Jan-91	8.55	13.27	0.00	<50	<0.5	0.6	<0.5	0.9	NA	
25-Apr-91	7.48	14.34	0.00	60^	21	0.5	3.2	4.8	NA	
09-Jul-91	8.48	13.34	0.00	<50	1.0	<0.5	<0.5	<0.5	NA	
08-Oct-91	8.95	12.87	0.00	50	17	1.4	1.2	5.5	NA	
05-Feb-92	8.20	13.62	0.00	150	65	0.7	<0.5	8.4	NA	
28-Apr-92	7.80	14.02	0.00	<50	13	<0.5	<0.5	<0.5	NA	
27-Jul-92	8.29	13.53	0.00	510	130	<2.5	<0.5	21	NA	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**15275 Washington**  
**San Leandro, California**  
**WIC# 204-6852-1008**

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
26-Oct-92	9.02	12.80	0.00	<50	<0.5	<0.5	<2.5	<0.5	NA	
13-Jan-93	5.78	16.04	0.00	100	25	1.9	<0.5	8.4	NA	
16-Apr-93	6.80	15.02	0.00	150	56	1.8	4.6	12	NA	
23-Jul-93	7.67	14.15	0.00	<50	0.9	<0.5	<0.5	<0.5	NA	
27-Oct-93	8.52	13.30	0.00	<50	1.5	<0.5	<0.5	<0.5	NA	
27-Jan-94	7.20	14.62	0.00	140	85	<1	<1	13	NA	
		<b>New top casing elevation (ft): 21.24</b>								
05-May-94	7.76	13.48	0.00	71	25	<0.5	<0.5	4.2	NA	
26-Jul-94	7.84	13.40	0.00	<50	<0.3	<0.3	<0.3	<0.6	NA	
28-Oct-94	7.97	13.27	0.00	<50	11.5	<0.3	<0.3	1.8	NA	
02-Jan-95	6.49	14.75	0.00	70	64	<0.5	<0.5	4.0	NA	
14-Apr-95	6.08	15.16	0.00	NA	NA	NA	NA	NA	NA	
28-Jul-95	7.00	14.24	0.00	<50	1.7	<0.5	<0.5	<0.5	NA	
17-Oct-95	7.15	14.09	0.00	<50	4.6	<0.5	<0.5	<0.5	NA	
11-Jan-96	6.30	14.94	0.00	80	17	0.7	<0.5	2.9	<2	
02-Apr-96	5.84	15.40	0.00	NA	NA	NA	NA	NA	NA	
09-Jul-96	6.72	14.52	0.00	NA	NA	NA	NA	NA	NA	
10-Oct-96	7.41	13.83	0.00	NA	NA	NA	NA	NA	NA	
<b>S-17</b>		<b>Top casing elevation (ft): 20.95</b>								
03-May-89	NA	NA	NA	<50	<0.5	<1	<1	<3	NA	
10-Aug-89	8.13	12.82	0.00	<50	<0.5	<1	<1	<3	NA	
09-Oct-89	8.18	12.77	0.00	<50	<0.5	<1	<1	<3	NA	
25-Jan-90	7.60	13.35	0.00	<50	<0.5	<0.5	<0.5	<1	NA	
18-Apr-90	7.95	13.00	0.00	<50	<0.5	<0.5	<0.5	<1	NA	
23-Jul-90	7.87	13.08	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Oct-90	8.71	12.24	0.00	390	10	62	22	110	NA	
28-Jan-91	8.54	12.41	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

TABLE 1

WELL CONCENTRATIONS  
 Shell Oil Products Company  
 15275 Washington  
 San Leandro, California  
 WIC# 204-6852-1008

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
25-Apr-91	7.15	13.80	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
09-Jul-91	8.24	12.71	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
08-Oct-91	8.86	12.09	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
05-Feb-92	7.74	13.21	0.00	NA	NA	NA	NA	NA	NA	
28-Apr-92	7.41	13.54	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
27-Jul-92	8.34	12.61	0.00	NA	NA	NA	NA	NA	NA	
26-Oct-92	8.87	12.08	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Jan-93		17.52	0.00	NA	NA	NA	NA	NA	NA	
16-Apr-93	6.70	14.25	0.00	130	<0.5	<0.5	<0.5	<0.5	NA	
23-Jul-93	7.53	13.42	0.00	NA	NA	NA	NA	NA	NA	
27-Oct-93	8.29	12.66	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
27-Jan-94	5.78	15.17	0.00	NA	NA	NA	NA	NA	NA	
<b>New top casing elevation (ft): 20.45</b>										
05-May-94	6.99	13.46	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Jul-94	7.62	12.83	0.00	NA	NA	NA	NA	NA	NA	
28-Oct-94	7.91	12.54	0.00	<50	<0.3	<0.3	<0.3	<0.6	NA	
02-Jan-95	6.33	14.12	0.00	NA	NA	NA	NA	NA	NA	
14-Apr-95	5.53	14.92	0.00	NA	NA	NA	NA	NA	NA	
28-Jul-95	6.75	13.70	0.00	NA	NA	NA	NA	NA	NA	
17-Oct-95	7.15	13.30	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Jan-96	6.37	14.08	0.00	NA	NA	NA	NA	NA	NA	
02-Apr-96	5.31	15.14	0.00	<50	<0.5	<0.5	<0.5	<0.5	<2	
09-Jul-96	6.30	14.15	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
10-Oct-96	7.80	12.65	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
<b>S-18 Top casing elevation (ft): 21.03</b>										
31-May-91	NA	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	
09-Jul-91	8.23	12.80	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**15275 Washington**  
**San Leandro, California**  
**WIC# 204-6852-1008**

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-Oct-91	8.84	12.19	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
05-Feb-92	7.67	13.36	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Apr-92	7.40	13.63	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
27-Jul-92	8.38	12.65	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Oct-92	8.83	12.20	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Jan-93	5.86	15.17	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
16-Apr-93	4.88	16.15	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Jul-93	7.56	13.47	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
27-Oct-93	8.30	12.73	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
27-Jan-94	6.84	14.19	0.00	<50	1.9	<0.5	<0.5	<0.5	NA	
		<b>New top casing elevation (ft): 20.57</b>								
05-May-94	7.05	13.52	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Jul-94	7.62	12.95	0.00	<500	<3	1.1	<0.3	1.8	NA	
28-Oct-94	8.01	12.56	0.00	<50	<0.3	<0.3	<0.3	<0.6	NA	
02-Jan-95	6.26	14.31	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
14-Apr-95	4.85	15.72	0.00	NA	NA	NA	NA	NA	NA	
28-Jul-95	5.80	14.77	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-Oct-95	7.22	13.35	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Jan-96	6.40	14.17	0.00	<50	<0.5	<0.5	<0.5	<0.5	<2	
02-Apr-96	4.80	15.77	0.00	NA	NA	NA	NA	NA	NA	
09-Jul-96	5.74	14.83	0.00	NA	NA	NA	NA	NA	NA	
10-Oct-96	6.06	14.51	0.00	NA	NA	NA	NA	NA	NA	
<b>SR-1</b>		<b>Top casing elevation (ft): 21.45</b>								
22-Mar-89	NA	NA	NA	5400	1100	230	350	1300	NA	
25-Jan-90	7.53	13.92	0.00	2200	470	120	110	510	NA	
18-Apr-90	8.17	13.28	0.00	1000	130	47	47	220	NA	
23-Jul-90	7.58	13.87	0.00	3200	470	320	170	870	NA	

**TABLE 1**

**WELL CONCENTRATIONS  
Shell Oil Products Company  
15275 Washington  
San Leandro, California  
WIC# 204-6852-1008**

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
18-Oct-90	8.81	12.64	0.00	1300	280	6.6	110	130	NA	
28-Jan-91	8.37	13.08	0.00	110	120	12	51	110	NA	
25-Apr-91	6.91	14.54	0.00	NA	NA	NA	NA	NA	NA	
09-Jul-91	8.11	13.34	0.00	1400	200	27	130	340	NA	
08-Oct-91	8.63	12.82	0.00	980	79	1.5	44	52	NA	
05-Feb-91	7.68	13.77	0.00	3800	580	36	320	400	NA	
28-Apr-92	7.27	14.18	0.00	38000	1800	460	1900	750	NA	
27-Jul-92	8.11	13.34	0.01	NA	NA	NA	NA	NA	NA	
26-Oct-92	8.63	12.82	0.00	1800	370	10	130	130	NA	
13-Jan-93	5.46	15.99	0.00	47000	1000	1100	1700	13000	NA	
16-Apr-93	6.28	15.17	0.00	25000	1700	430	2400	8300	NA	
23-Jul-93	7.34	14.11	0.00	33000	2400	2000	3800	14000	NA	
27-Oct-93	8.04	13.41	0.00	2300	340	<12.5	270	440	NA	
27-Jan-94	6.68	14.77	0.00	36000	2000	1700	3000	11000	NA	
		<b>New top casing elevation (ft): 20.57</b>								
05-May-94	6.81	13.76	0.00	43000	1500	130	2900	12000	NA	
26-Jul-94	7.38	13.19	0.00	13600	682.7	39.2	996.6	2516	NA	
28-Oct-94	7.48	13.09	0.00	8462	301.5	29.3	384.7	2019	NA	
02-Jan-95	6.34	14.23	0.00	13000	400	120	2500	10000	NA	
14-Apr-95	5.29	15.28	0.00	43000	690	370	2500	12000	NA	
28-Jul-95	6.36	14.21	0.00	35000	760	120	2300	8100	NA	
17-Oct-95	6.62	13.95	0.00	9700	310	12	610	1200	NA	
11-Jan-96	5.66	14.91	0.00	18000	410	170	1200	4400	42	
02-Apr-96	5.14	15.43	0.00	NA	NA	NA	NA	NA	NA	
09-Jul-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
10-Oct-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
<b>SR-1 (DUP)</b>										

**TABLE 1**

**WELL CONCENTRATIONS  
Shell Oil Products Company  
15275 Washington  
San Leandro, California  
WIC# 204-6852-1008**

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
17-Oct-95	NA	NA	NA	8300	230	9.6	680	840	NA	
11-Jan-96	NA	NA	NA	17000	420	180	1100	4000	42	

Abbreviations:

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

(previously reported as Total Petroleum Hydrocarbons as Gasoline)

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

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

NA = Not analyzed or not available

(DUP) = Duplicate

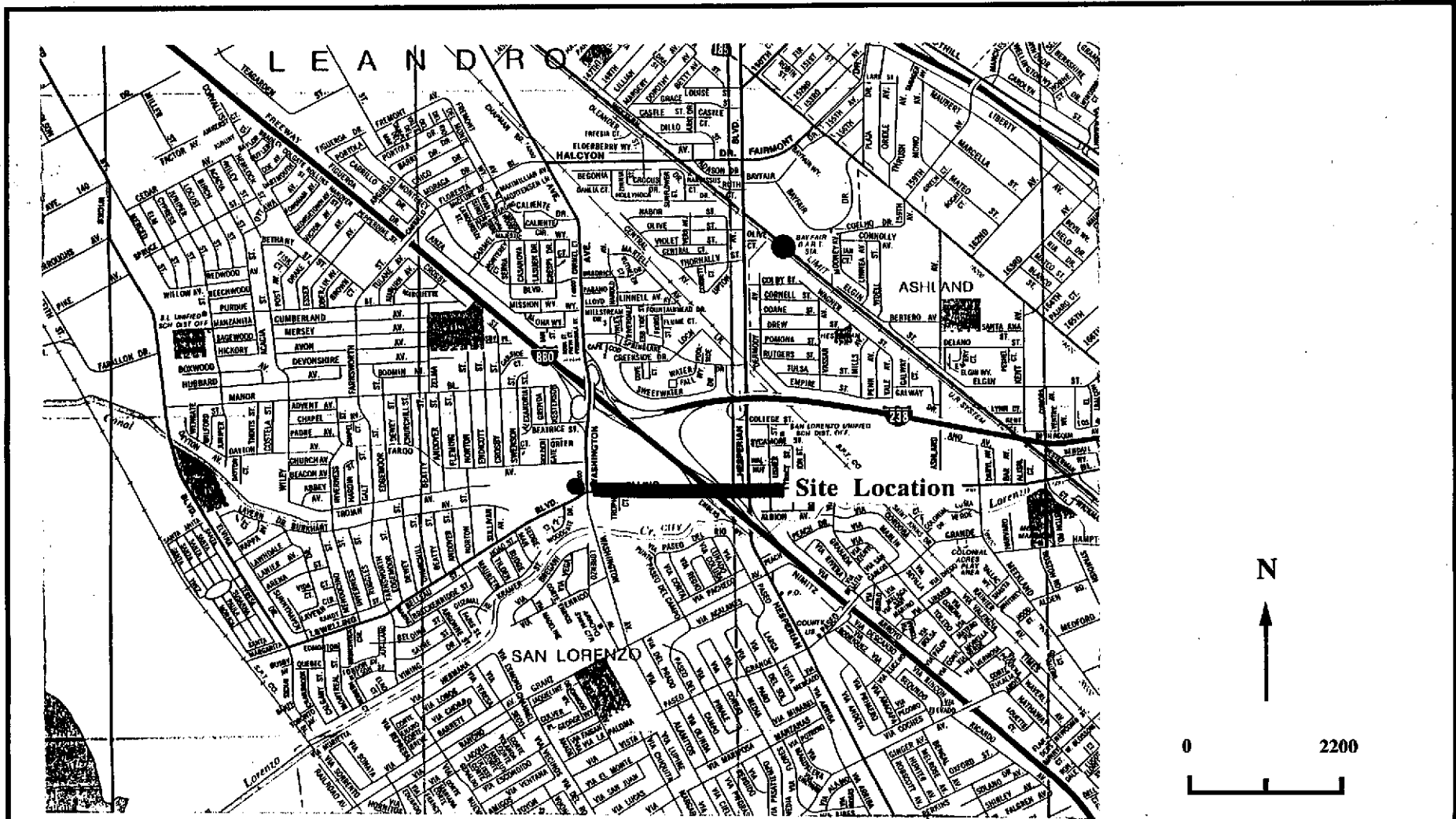
<x - Not detected at detection limit of x

Notes:

\* = Compounds detected within the chromatographic range of gasoline but not characteristic of the standard gasoline pattern.

\*\* = The concentration reported as gasoline is primarily due to the presence of a discrete peak not indicative of gasoline.





Note: Vicinity Map taken from California State Automobile Association Map.

PLATE

1

**SITE VICINITY MAP**

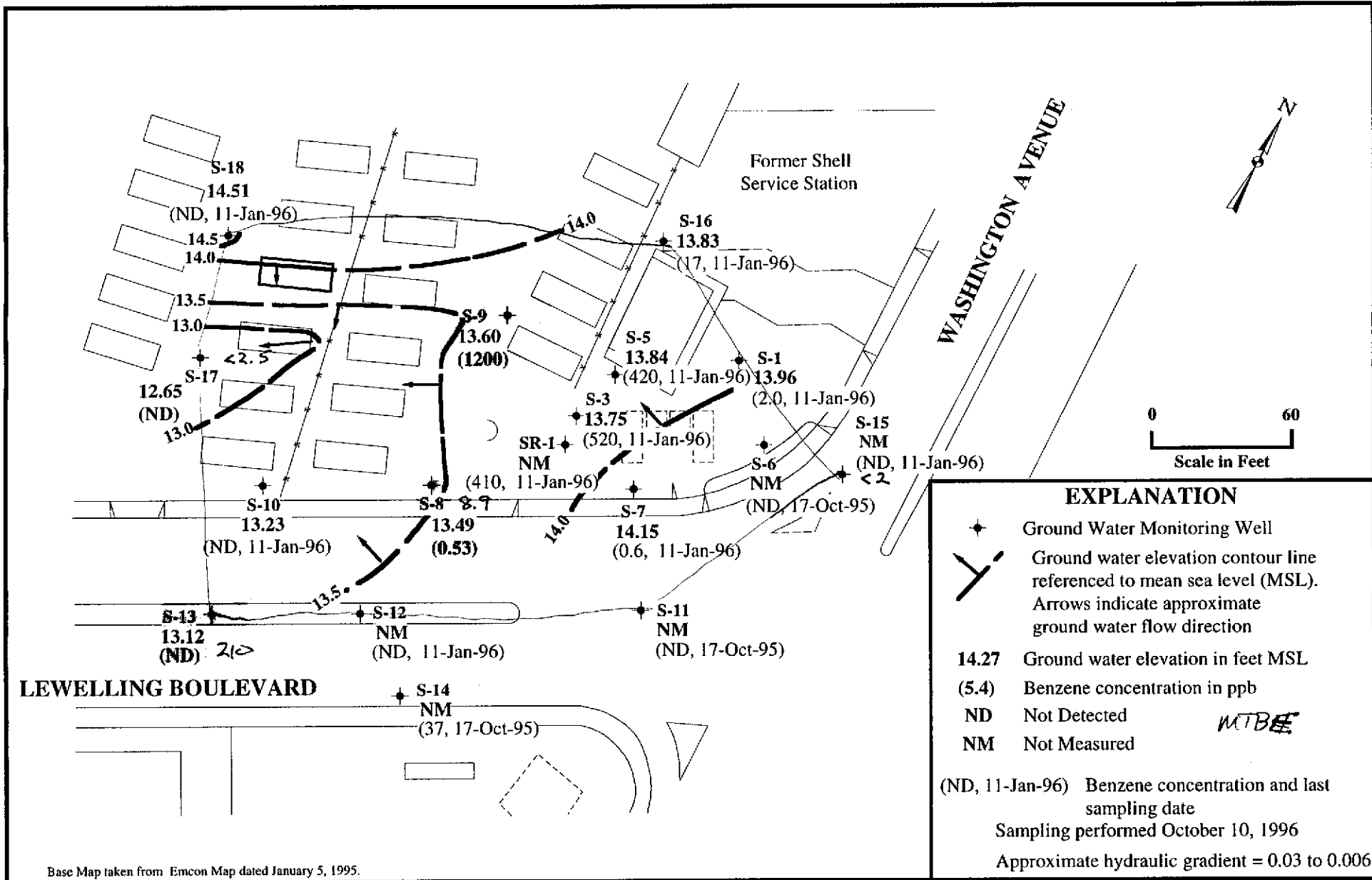
Shell Oil Company  
 15275 Washington Avenue  
 San Leandro, California

**enviros**<sup>®</sup>  
 95276.01

Drawn By: JLP

Date: 3-23-95

Approved By: PK, Date: 12-13-96



EXPLANATION	
◆	Ground Water Monitoring Well
—	Ground water elevation contour line referenced to mean sea level (MSL). Arrows indicate approximate ground water flow direction
14.27	Ground water elevation in feet MSL
(5.4)	Benzene concentration in ppb
ND	Not Detected
NM	Not Measured
(ND, 11-Jan-96)	Benzene concentration and last sampling date
	Sampling performed October 10, 1996
	Approximate hydraulic gradient = 0.03 to 0.006

Base Map taken from Emcon Map dated January 5, 1995.

**PLATE 2** **GROUND WATER CONTOUR/BENZENE CONCENTRATION MAP**  
 Shell Oil Company  
 15275 Washington Avenue  
 San Leandro, California

**enviros**  
 96276

Drawn By: DML Date: 5-Dec-96

Approved By: *[Signature]* Date: 12-13-96

**Appendix A**

**BLAINE TECH SERVICES INC.  
Quarterly Ground Water Monitoring Report**

# BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE  
SAN JOSE, CA 95133  
(408) 995-5535  
FAX (408) 293-8773

November 4, 1996

RECEIVED  
NOV 6 1996

Shell Oil Company  
P.O. Box 4023  
Concord, CA 94524

Attn: R. Jeff Granberry

Shell WIC #204-6852-1008  
15275 Washington Blvd.  
San Leandro, California

4th Quarter 1996

## Quarterly Groundwater Monitoring Report 961010-A-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) 995-5535 ext. 201.

Yours truly,



Francis Thie

attachments: Table of Well Gauging Data  
Chain of Custody  
Field Data Sheets  
Certified Analytical Report

cc: Enviro, 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	10/10/96	TOC	--	NONE	--	--	7.31	19.73
S-3	10/10/96	TOC	--	NONE	--	--	6.73	14.87
S-5	10/10/96	TOC	--	NONE	--	--	7.19	17.84
S-7	10/10/96	TOC	--	NONE	--	--	6.70	23.65
S-8	10/10/96	TOC	--	NONE	--	--	6.83	23.88
S-9 *	10/10/96	TOC	--	NONE	--	--	7.08	17.62
S-10	10/10/96	TOC	--	NONE	--	--	6.92	17.67
S-13	10/10/96	TOC	--	NONE	--	--	7.04	23.25
S-16	10/10/96	TOC	--	NONE	--	--	7.41	23.45
S-17	10/10/96	TOC	--	NONE	--	--	7.80	23.54
S-18	10/10/96	TOC	--	NONE	--	--	6.06	17.60
SR-1	10/10/96	INACCESSIBLE						

\* Sample DUP was a duplicate sample taken from well S-9.



**SHELL OIL COMPANY**  
RETAIL ENVIRONMENTAL ENGINEERING - WEST

**CHAIN OF CUSTODY RECORD**

Serial No: 961010-A3

Date: 10-10-96

Page 1 of 1

Site Address: 15275 Washington, San Leandro

WIC#: 204-6852-1008

Shell Engineer: R. Jeff Cranberry  
Phone No.: (510) 675-6170  
Fax #: 675-6170

Consultant Name & Address:  
Blaine Tech Services, Inc.  
985 Timothy Drive, San Jose, CA 95133

Consultant Contact: Jim Keller  
Phone No.: (408) 995-5535  
Fax #: 293-8773

Comments:

Sampled by: RANDY VALENTINE

Printed Name:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.
S-8	10/10			X		3
S-9	↓			X		3
S-13	↓			X		3
S-17	↓			X		3
EB	↓			X		3
DUP	↓			X		3

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 + MIBE	Asbestos	Container Size	Preparation Used	Composite Y/N		
					X						
					X						
					X						
					X						
					X						

LAB: SEQVOIA

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/>	6441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	6441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	6442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	6443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	6452	NOTE: Holly Lab as soon as possible or 24/48 hrs. TAT.
Water Rem. or Sys. O & M <input type="checkbox"/>	6453	
Other <input type="checkbox"/>		

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
	Confirm highest MIBE hkt by 8260

Relinquished By (signature): <u>Randy Valentine</u>	Printed Name: <u>RANDY VALENTINE</u>	Date: <u>10-11-96</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>John Howie</u>	Date: <u>10/11/96</u>
Relinquished By (signature):	Printed Name:	Date:	Received (signature):	Printed Name:	Date:
Relinquished By (signature):	Printed Name:	Date:	Received (signature):	Printed Name:	Date:

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

(415) 364-9600  
(510) 988-9600  
(916) 921-9600

FAX (415) 364-9233  
FAX (510) 988-9673  
FAX (916) 921-0100

Blaine Technical Services  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Project: Shell San Leandro 961010-A3

Enclosed are the results from samples received at Sequoia Analytical on October 11, 1996.  
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9610823 -01	LIQUID, S-8	10/10/96	TPGBMW Purgeable TPH/BTEX
9610823 -02	LIQUID, S-9	10/10/96	TPGBMW Purgeable TPH/BTEX
9610823 -03	LIQUID, S-13	10/10/96	MTBEMW Methyl t-Butyl Ethe
9610823 -03	LIQUID, S-13	10/10/96	TPGBMW Purgeable TPH/BTEX
9610823 -04	LIQUID, S-17	10/10/96	TPGBMW Purgeable TPH/BTEX
9610823 -05	LIQUID, EB	10/10/96	TPGBMW Purgeable TPH/BTEX
9610823 -06	LIQUID, DUP	10/10/96	TPGBMW Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

**SEQUOIA ANALYTICAL**

Peggy Penner  
Project Manager





Blaine Technical Services	Client Proj. ID: Shell San Leandro 961010-A3	Sampled: 10/10/96
985 Timothy Drive	Sample Descript: S-8	Received: 10/11/96
San Jose, CA 95133	Matrix: LIQUID	
Attention: Jim Keller	Analysis Method: 8015Mod/8020	Analyzed: 10/18/96
	Lab Number: 9610823-01	Reported: 10/28/96

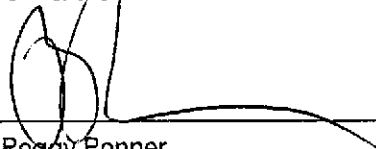
QC Batch Number: GC101896BTEX21A  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	150
Methyl t-Butyl Ether	2.5	8.9
Benzene	0.50	0.53
Toluene	0.50	0.66
Ethyl Benzene	0.50	2.3
Xylenes (Total)	0.50	1.0
Chromatogram Pattern:		C6-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	110

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

SEQUOIA ANALYTICAL - ELAP #1210



\_\_\_\_\_  
Peggy Fenner  
Project Manager







Blaine Technical Services  
985 Timothy Drive  
San Jose, CA 95133

Client Proj. ID: Shell San Leandro 961010-A3  
Sample Descript: S-9  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9610823-02

Sampled: 10/10/96  
Received: 10/11/96  
Analyzed: 10/17/96  
Reported: 10/28/96

QC Batch Number: GC101796BTEX03A  
Instrument ID: GCHP03

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	6600
Methyl t-Butyl Ether	50	70
Benzene	10	1200
Toluene	10	N.D.
Ethyl Benzene	10	160
Xylenes (Total)	10	N.D.
Chromatogram Pattern:		C6-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	116

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

**SEQUOIA ANALYTICAL** - ELAP #1210

Peggy Fenner  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Shell San Leandro 961010-A3 Sample Descript: S-13 Matrix: LIQUID Analysis Method: EPA 8260 Lab Number: 9610823-03	Sampled: 10/10/96 Received: 10/11/96 Analyzed: 10/28/96 Reported: 10/28/96
---	--	---

QC Batch Number: MS1028968260F3A  
Instrument ID: F3

**Methyl t-Butyl Ether (MTBE)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	5.0	160
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
1,2-Dichloroethane-d4	76      114	94

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Shell San Leandro 961010-A3 Sample Descript: S-13 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9610823-03	Sampled: 10/10/96 Received: 10/11/96 Analyzed: 10/17/96 Reported: 10/28/96
---	--	---

QC Batch Number: GC101796BTEX03A  
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	N.D.
<b>Methyl t-Butyl Ether</b>	<b>2.5</b>	<b>210</b>
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	89

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Shell San Leandro 961010-A3 Sample Descript: S-17 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9610823-04	Sampled: 10/10/96 Received: 10/11/96 Analyzed: 10/15/96 Reported: 10/28/96
Attention: Jim Keller		

QC Batch Number: GC101596BTEX02A  
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	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:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
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





Blaine Technical Services Client Proj. ID: Shell San Leandro 961010-A3 Sampled: 10/10/96  
985 Timothy Drive Sample Descript: EB Received: 10/11/96  
San Jose, CA 95133 Matrix: LIQUID  
Attention: Jim Keller Analysis Method: 8015Mod/8020 Analyzed: 10/15/96  
Lab Number: 9610823-05 Reported: 10/28/96

QC Batch Number: GC101596BTEX02A  
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	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:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	95

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Shell San Leandro 961010-A3 Sample Descript: DUP Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9610823-06	Sampled: 10/10/96 Received: 10/11/96 Analyzed: 10/16/96 Reported: 10/28/96
---	---	---

QC Batch Number: GC101696BTEX21A  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	6100
Methyl t-Butyl Ether	50	65
Benzene	10	1000
Toluene	10	N.D.
Ethyl Benzene	10	200
Xylenes (Total)	10	15
Chromatogram Pattern:		Gas
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	96

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. Client Project ID: Shell, San Leandro / 961010-A3  
985 Timothy Drive Matrix: Liquid  
San Jose, CA 95133 Work Order #: 9610823 -01 Reported: Oct 29, 1996  
Attention: Jim Keller

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC101896BTEX21A	GC101896BTEX21A	GC101896BTEX21A	GC101896BTEX21A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	G. Fish	G. Fish	G. Fish	G. Fish
MS/MSD #:	961082606	961082606	961082606	961082606
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/18/96	10/18/96	10/18/96	10/18/96
Analyzed Date:	10/18/96	10/18/96	10/18/96	10/18/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	10	10	31
MS % Recovery:	110	100	100	103
Dup. Result:	11	10	10	31
MSD % Recov.:	110	100	100	103
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK101896	BLK101896	BLK101896	BLK101896
Prepared Date:	10/18/96	10/18/96	10/18/96	10/18/96
Analyzed Date:	10/18/96	10/18/96	10/18/96	10/18/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	11	10	10	31
LCS % Recov.:	110	100	100	103

MS/MSD	60-140	60-140	60-140	60-140
LCS	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.





Blaine Tech Services, Inc.  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Client Project ID: Shell, San Leandro / 961010-A3  
Matrix: Liquid

Work Order #: 9610823-02-03

Reported: Oct 29, 1996

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC101796BTEX03A	GC101796BTEX03A	GC101796BTEX03A	GC101796BTEX03A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	G. Fish	G. Fish	G. Fish	G. Fish
MS/MSD #:	961055803	961055803	961055803	961055803
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/17/96	10/17/96	10/17/96	10/17/96
Analyzed Date:	10/17/96	10/17/96	10/17/96	10/17/96
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	12	10	9.8	30
MS % Recovery:	120	100	98	100
Dup. Result:	12	10	9.7	29
MSD % Recov.:	120	100	97	97
RPD:	0.0	0.0	1.0	3.4
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK101796	BLK101796	BLK101796	BLK101796
Prepared Date:	10/17/96	10/17/96	10/17/96	10/17/96
Analyzed Date:	10/17/96	10/17/96	10/17/96	10/17/96
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	12	10	9.9	30
LCS % Recov.:	120	100	99	100

MS/MSD	60-140	60-140	60-140	60-140
LCS	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

9610823.BLA <2>







Blaine Tech Services, Inc.  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Client Project ID: Shell, San Leandro / 961010-A3  
Matrix: Liquid

Work Order #: 9610823-04-05

Reported: Oct 29, 1996

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC101596BTEX02A	GC101596BTEX02A	GC101596BTEX02A	GC101596BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	R. Burton	R. Burton	R. Burton	R. Burton
MS/MSD #:	961055812	961055812	961055812	961055812
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/15/96	10/15/96	10/15/96	10/15/96
Analyzed Date:	10/15/96	10/15/96	10/15/96	10/15/96
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	12	10	9.8	27
MS % Recovery:	120	100	98	90
Dup. Result:	11	9.9	9.6	27
MSD % Recov.:	110	99	96	90
RPD:	8.7	1.0	2.1	0.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK101596	BLK101596	BLK101596	BLK101596
Prepared Date:	10/15/96	10/15/96	10/15/96	10/15/96
Analyzed Date:	10/15/96	10/15/96	10/15/96	10/15/96
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	12	10	9.7	27
LCS % Recov.:	120	100	97	90

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

SEQUOIA ANALYTICAL

Reggy Penner  
Project Manager

**Please Note:**

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9610823.BLA <3>





Blaine Tech Services, Inc.  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Client Project ID: Shell, San Leandro / 961010-A3  
Matrix: Liquid

Work Order #: 9610823-06

Reported: Oct 29, 1996

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC101696BTEX21A	GC101696BTEX21A	GC101696BTEX21A	GC101696BTEX21A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	G. Fish	G. Fish	G. Fish	G. Fish
MS/MSD #:	961057904	961057904	961057904	961057904
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/16/96	10/16/96	10/16/96	10/16/96
Analyzed Date:	10/16/96	10/16/96	10/16/96	10/16/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.0	8.5	8.5	25
MS % Recovery:	90	85	85	83
Dup. Result:	9.6	9.9	9.1	27
MSD % Recov.:	96	99	91	90
RPD:	6.5	15	6.8	7.7
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK101696	BLK101696	BLK101696	BLK101696
Prepared Date:	10/16/96	10/16/96	10/16/96	10/16/96
Analyzed Date:	10/16/96	10/16/96	10/16/96	10/16/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	11	9.7	9.6	29
LCS % Recov.:	110	97	96	97

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

**SEQUOIA ANALYTICAL**

Peggy Renner  
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

9610823.BLA < 4 >

