

# C A M B R I A

ENVIRONMENTAL  
PROTECTION  
January 21, 1999  
99 JAN 32 PM 4:54

Scott Seery  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Re: **Fourth Quarter 1998 Monitoring Report**  
Shell-branded Service Station  
15275 Washington Avenue  
San Leandro, California  
WIC #204-6852-1008  
Cambria Project #24-314-498

Dear Mr. Seery:

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

## FOURTH QUARTER 1998 ACTIVITIES

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

## HYDROCARBON REMOVAL SUMMARY

Hydrocarbon Removal	This Quarter (lbs) 10/05/98 through 12/31/98	Cumulative (lbs) 5/18/98 through 12/31/98
Vapor-Phase	185	1382

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

**Cambria  
Environmental  
Technology, Inc.**

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

The table above summarizes the vapor-phase hydrocarbon removal from the soil vapor extraction (SVE) system currently operating at the site. Details of the SVE system operation and maintenance are discussed below.

**SVE System Operation and Maintenance (O&M):** The SVE system consists of a 100 cubic feet per minute (CFM) electric catalytic oxidizer that extracts soil vapors from two horizontal vapor trenches completed on the east and west sides of the existing on-site building. Vapors are also extracted from soil vapor extraction well SV-1 and monitoring wells S-1, S-3, S-5, S-7, S-8 and SR-1 (Figure 1). Since system start up on May 18, 1998 through December 31, 1998, the SVE system has removed approximately 1,382 lbs of vapor-phase hydrocarbons from beneath the site. Historical performance and analytical data for the SVE system are summarized in Table 2. The total petroleum hydrocarbons as gasoline (TPHg) removal rate has decreased from a high of 33 pounds per day (ppd) in May to 0.3 ppd in December. TPHg concentrations have decreased from 1,600 parts per million by volume (ppmv) in May to 16 ppmv in December. Benzene concentrations have also decreased from 47 ppmv in May to below detection limits in December. Therefore, it appears that SVE is successfully remediating the site resulting in low, asymptotic concentrations.

#### ANTICIPATED FIRST QUARTER 1999 ACTIVITIES

**Ground Water Monitoring:** Blaine will gauge and sample selected site wells, and tabulate the data. Cambria will prepare a monitoring report.

**SVE System O&M:** Cambria will continue to operate the SVE system during the next quarter. Cambria will tabulate the results in the upcoming quarterly report.

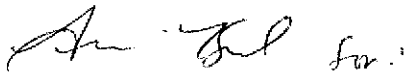
gas: ~ 6.75 lbs / gallon


$$1382 \text{ lbs (vapor)} \times \frac{1}{6.75 \text{ lbs/gallon}} = \sim 205 \text{ gals}$$

**CLOSING**

We appreciate the opportunity to work with you on this project. Please call Darryk Ataide at (510) 420-0700 if you have any questions or comments.

Sincerely,  
**Cambria Environmental Technology, Inc.**

  
Darryk Ataide  
Project Environmental Scientist

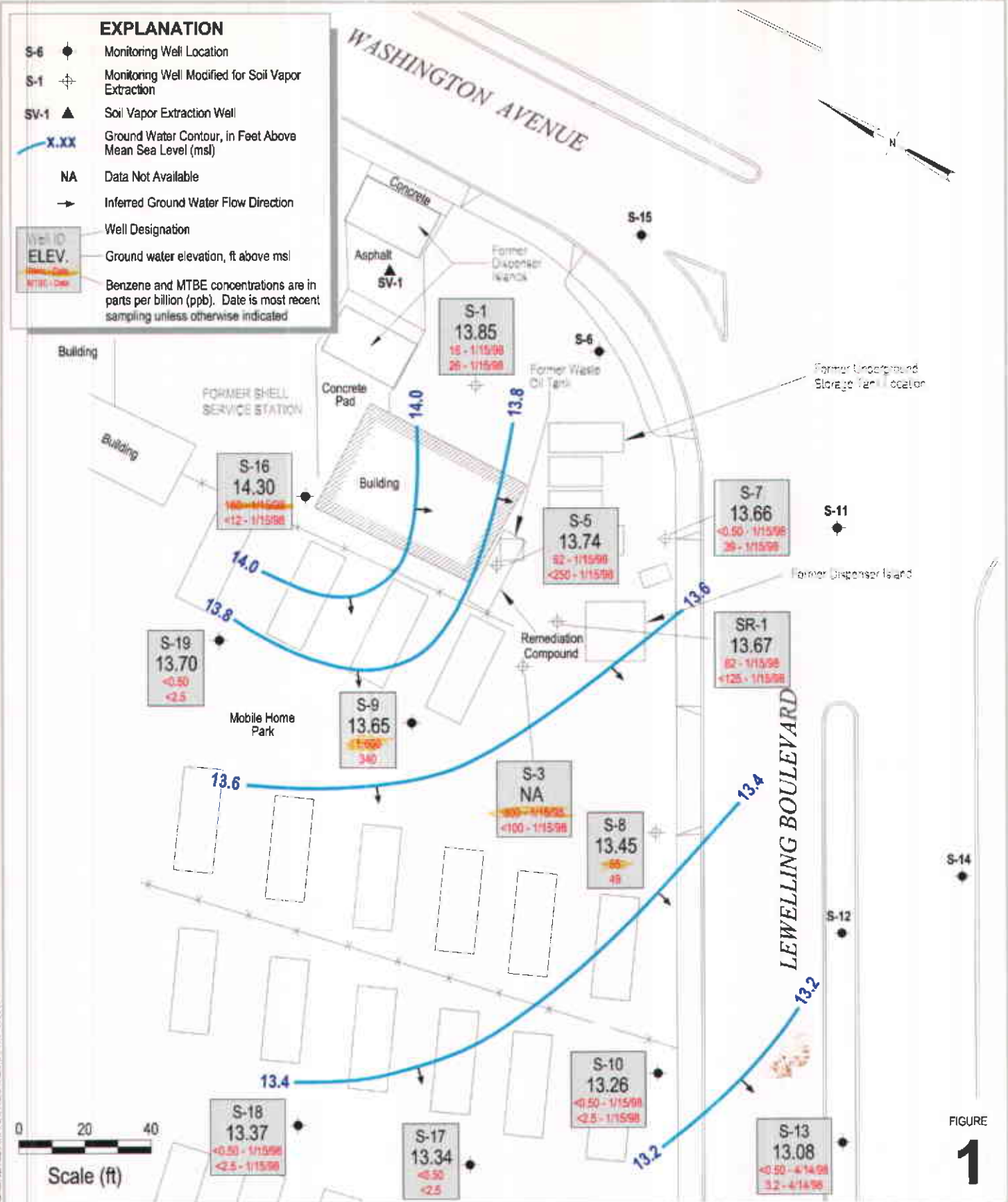
  
Diane M. Lundquist, P.E.  
Principal Engineer



Attachment : A - Blaine Ground Water Monitoring Report  
B - Analytical Reports For Soil Vapor Sampling

cc: Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson California 90749  
Mike Bakaldin, San Leandro Fire Department, Civic Center, 835 E. 14<sup>th</sup> Street, San  
Leandro, California 94577  
John Verber, Larson & Burnham, 1901 Harrison Street, Oakland, California 94604  
Jonathan Redding, Fitzgerald, Abbott & Beardsley LLP, 1221 Broadway, 21<sup>st</sup> Floor,  
Oakland, California 94612  
Richard Waxman, Wendell, Rosen, Black & Dean, P.O. Box 2047, Oakland,  
California 94604-2047

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**Shell-branded Service Station**  
 15275 Washington Avenue  
 San Leandro, California  
 WIC #204-6852-1008



C A M B R I A

**Ground Water Elevation Contour Map**

October 20, 1998

TABLE 1

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
**WIC #204-6852-1008**

Sample ID 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 casing elevation (ft.): 21.55									
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	
	New top casing elevation (ft): 21.27									
05-May-94	7.38	13.89	0.00	57	3.9	<0.5	1.9	1.9	NA	

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Sample ID 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-Jul-94	7.86	13.41	0.00	<50	2.2	<0.3	<0.3	<0.6	NA	
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	
09-Jan-97	5.50	15.77	0.00	<50	<0.50	<0.50	<0.50	<0.50	6.7	
08-Apr-97	7.03	14.24	0.00	NA	NA	NA	NA	NA	NA	
21-Jul-97	7.00	14.27	0.00	NA	NA	NA	NA	NA	NA	
08-Oct-97	7.51	13.76	0.00	NA	NA	NA	NA	NA	NA	
15-Jan-98	5.43	15.84	0.00	420	16	<0.50	4.6	3.9	26	
14-Apr-98	5.55	15.72	0.00	NA	NA	NA	NA	NA	NA	
		<b>New top casing elevation (ft): 21.33</b>								
14-Jul-98	6.38	14.95	0.00	NA	NA	NA	NA	NA	NA	
20-Oct-98	7.48	13.85	0.00	NA	NA	NA	NA	NA	NA	

<b>S-3</b>	<b>Top casing elevation (ft): 21.14</b>									
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	

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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	
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	5.00	15.48	0.00	NA	NA	NA	NA	NA	NA	

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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	
09-Jan-97	4.72	15.76	0.00	30000	420	330	1500	6300	<500	
08-Apr-97	6.63	13.85	0.00	NA	NA	NA	NA	NA	NA	
21-Jul-97	6.18	14.30	0.00	NA	NA	NA	NA	NA	NA	
08-Oct-97	6.83	13.65	0.00	NA	NA	NA	NA	NA	NA	
15-Jan-98	4.30	16.18	0.00	21000	300	51	770	2800	<100	
14-Apr-98	4.37	16.11	0.00	NA	NA	NA	NA	NA	NA	
14-Jul-98	5.47	15.01	0.00	NA	NA	NA	NA	NA	NA	
20-Oct-98	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
<b>S-3 (DUP)</b>										
15-Jan-98	NA	NA	NA	14000	330	63	920	3400	<250	
<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	
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	



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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	
09-Jan-97	5.03	16.00	0.00	38000	130	43	160	6200	<125	
08-Apr-97	7.20	13.83	0.00	NA	NA	NA	NA	NA	NA	
21-Jul-97	6.82	14.21	0.00	NA	NA	NA	NA	NA	NA	

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08-Oct-97	7.31	13.72	0.00	NA	NA	NA	NA	NA	NA	
15-Jan-98	4.58	16.45	0.00	49000	62	<50	93	4100	<250	
14-Apr-98	4.94	16.09	0.00	NA	NA	NA	NA	NA	NA	
		<b>New top casing elevation (ft): 21.27</b>								
14-Jul-98	5.36	15.91	0.00	NA	NA	NA	NA	NA	NA	
20-Oct-98	7.53	13.74	0.00	NA	NA	NA	NA	NA	NA	
<b>S-5 (DUP)</b>										
28-Jul-95	NA	NA	NA	25000	450	<50	1700	4600	NA	
09-Jan-97	NA	NA	NA	36000	130	<50	160	5600	<250	
<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	

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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>								
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	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
**WIC #204-6852-1008**

Sample ID 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	8.77	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	
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	
09-Jan-97	5.25	15.60	0.00	130	1.4	<0.50	<0.50	0.56	70	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
**WIC #204-6852-1008**

Sample ID 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-Apr-97	7.15	13.70	0.00	NA	NA	NA	NA	NA	NA	
21-Jul-97	6.67	14.18	0.00	NA	NA	NA	NA	NA	NA	
08-Oct-97	7.26	13.59	0.00	NA	NA	NA	NA	NA	NA	
15-Jan-98	5.51	15.34	0.00	<50	<0.50	<0.50	<0.50	<0.50	39	
14-Apr-98	5.45	15.40	0.00	NA	NA	NA	NA	NA	NA	
<b>New top casing elevation (ft): 21.03</b>										
14-Jul-98	6.48	14.55	0.00	NA	NA	NA	NA	NA	NA	
20-Oct-98	7.37	13.66	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	
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	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
**WIC #204-6852-1008**

Sample ID 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	5.32	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	733	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	8.9	
09-Jan-97	4.51	15.81	0.00	240	27	<0.50	2.4	<0.50	5.8	
08-Apr-97	6.50	13.82	0.00	220	27	0.62	1.9	0.71	5.7	
21-Jul-97	6.36	13.96	0.00	1200	140	2.8	21	5.0	27	
08-Oct-97	6.83	13.49	0.00	690	92	1.4	25	2.0	<2.5	
15-Jan-98	4.30	16.02	0.00	460	110	1.0	3.4	1.7	<5.0	
14-Apr-98	4.68	15.64	0.00	780	190	2.9	15	3.4	<2.5	
		<b>New top casing elevation (ft): 20.36</b>								
14-Jul-98	6.36	14.00	0.00	1600	240	<5.0	36	<5.0	<25	
20-Oct-98	6.91	13.45	0.00	700	55	<5.0	<5.0	<5.0	49	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
**WIC #204-6852-1008**

Sample ID 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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<b>S-8 (DUP)</b>										
21-Jul-97	NA	NA	NA	1200	120	<2.0	19	3.9	25	
08-Oct-97	NA	NA	NA	700	95	1.3	26	1.9	<2.5	

<b>S-9</b>										
Top casing elevation (ft): 20.96										
16-Nov-88	7.78	13.18	0.00	1400	69	3.0	52	180	NA	
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	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
**WIC #204-6852-1008**

Sample ID 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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New top casing elevation (ft): 20.68										
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	
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	70	
09-Jan-97	5.03	15.65	0.00	12000	1400	<25	1000	39	<125	
08-Apr-97	6.78	13.90	0.00	6600	920	10	230	26	150	
21-Jul-97	6.77	13.91	0.00	7800	860	13	260	14	87	
08-Oct-97	6.92	13.76	0.00	4600	320	<10	61	<10	28	
15-Jan-98	4.50	16.18	0.00	9300	1000	<10	730	24	<50	
14-Apr-98	4.35	16.33	0.00	12000	1200	<2.5	960	<2.5	<12	
14-Jul-98	5.95	14.73	0.00	12000	1700	<25	990	39	<125	
* 20-Oct-98	7.03	13.65	0.00	14000	1600	<25	560	<25	340	

S-9 (DUP)										
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	
14-Apr-98	NA	NA	NA	12000	1200	<2.5	930	<2.5	<12	



TABLE 1

**WELL CONCENTRATIONS**  
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**15275 Washington**  
**San Leandro, California**  
**WIC #204-6852-1008**

Sample ID 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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14-Jul-98	NA	NA	NA	11000	1800	<25	650	<25	<125	
20-Oct-98	NA	NA	NA	11000	1100	<10	230	<10	100	

<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	
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	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
**WIC #204-6852-1008**

Sample ID 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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New top casing elevation (ft): 20.15										
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	
09-Jan-97	4.64	15.51	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
08-Apr-97	5.82	14.33	0.00	NA	NA	NA	NA	NA	NA	
21-Jul-97	6.48	13.67	0.00	NA	NA	NA	NA	NA	NA	
08-Oct-97	5.48	14.67	0.00	NA	NA	NA	NA	NA	NA	
15-Jan-98	3.01	17.14	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
14-Apr-98	4.30	15.85	0.00	NA	NA	NA	NA	NA	NA	
14-Jul-98	5.84	14.31	0.00	NA	NA	NA	NA	NA	NA	
10/20/98	6.89	13.26	0.00	NA	NA	NA	NA	NA	NA	

S-11 Top casing elevation (ft): 21.26										
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	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
**WIC #204-6852-1008**

Sample ID 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-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	
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	
21-Jul-97	7.28	13.96	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
**WIC #204-6852-1008**

Sample ID 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-12</b>		<b>Top casing elevation (ft): 21.05</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	
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	

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**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
**WIC #204-6852-1008**

Sample ID 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-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	
11-Jan-96	6.65	14.06	0.00	<50	<0.5	<0.5	<0.5	<0.5	82	
21-Jul-97	6.95	13.76	0.00	<50	<0.50	<0.50	<0.50	<0.50	45	

<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

TABLE 1

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
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Sample ID 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-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	
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	210	MTBE by Method 8260: 160 ppb
09-Jan-97	5.19	14.97	0.00	NA	NA	NA	NA	NA	NA	
08-Apr-97	6.62	13.54	0.00	<50	<0.50	<0.50	<0.50	<0.50	81	
21-Jul-97	6.76	13.40	0.00	NA	NA	NA	NA	NA	NA	
08-Oct-97	7.05	13.11	0.00	<50	<0.50	<0.50	<0.50	<0.50	110	
15-Jan-98	5.27	14.89	0.00	NA	NA	NA	NA	NA	NA	
14-Apr-98	5.24	14.92	0.00	<50	<0.50	<0.50	<0.50	<0.50	3.2	
14-Jul-98	5.48	14.68	0.00	NA	NA	NA	NA	NA	NA	
20-Oct-98	7.08	13.08	0.00	NA	NA	NA	NA	NA	NA	

S-14	<b>Top casing elevation (ft): 20.44</b>									
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	

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**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
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Sample ID 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	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	5.07	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	
		<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	
21-Jul-97	6.14	13.85	0.00	220	71	0.71	1.3	1.3	100	

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**WELL CONCENTRATIONS**  
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Sample ID 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-15</b>		<b>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	
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	



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**WELL CONCENTRATIONS**  
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Sample ID 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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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	
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	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
**WIC #204-6852-1008**

Sample ID 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-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	
09-Jan-97	5.60	15.64	0.00	80	18	<0.50	1.7	4.8	<2.5	
08-Apr-97	7.34	13.90	0.00	NA	NA	NA	NA	NA	NA	
21-Jul-97	7.20	14.04	0.00	NA	NA	NA	NA	NA	NA	
08-Oct-97	7.34	13.90	0.00	NA	NA	NA	NA	NA	NA	
15-Jan-98	4.79	16.45	0.00	650	160	2.7	8.7	62	<12	
14-Apr-98	5.27	15.97	0.00	NA	NA	NA	NA	NA	NA	
14-Jul-98	6.32	14.92	0.00	NA	NA	NA	NA	NA	NA	
20-Oct-98	6.94	14.30	0.00	NA	NA	NA	NA	NA	NA	

S-17	Top casing elevation (ft): 20.95									
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	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
**WIC #204-6852-1008**

Sample ID 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	8.54	12.41	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
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	3.43	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	
09-Jan-97	4.80	15.65	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
08-Apr-97	6.83	13.62	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
**WIC #204-6852-1008**

Sample ID 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
21-Jul-97	6.78	13.67	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
08-Oct-97	6.80	13.65	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
15-Jan-98	2.91	17.54	0.00	380	<0.50	<0.50	<0.50	0.94	<2.5	
14-Apr-98	4.47	15.98	0.00	160	<0.50	<0.50	<0.50	<0.50	<2.5	
14-Jul-98	6.45	14.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
20-Oct-98	7.11	13.34	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
<b>S-17 (DUP)</b>										
08-Apr-97	NA	NA	NA	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
<b>S-18</b>										
<b>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	
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	

**TABLE 1**

**WELL CONCENTRATIONS  
Shell-branded Service Station  
15275 Washington  
San Leandro, California  
WIC #204-6852-1008**

Sample ID 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-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	
09-Jan-97	4.70	15.87	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
08-Apr-97	6.62	13.95	0.00	NA	NA	NA	NA	NA	NA	
21-Jul-97	6.94	13.63	0.00	NA	NA	NA	NA	NA	NA	
08-Oct-97	6.88	13.69	0.00	NA	NA	NA	NA	NA	NA	
15-Jan-98	3.60	16.97	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
14-Apr-98	4.28	16.29	0.00	NA	NA	NA	NA	NA	NA	
14-Jul-98	6.13	14.44	0.00	NA	NA	NA	NA	NA	NA	
20-Oct-98	7.20	13.37	0.00	NA	NA	NA	NA	NA	NA	

S-19	Top casing elevation (ft.): 20.11									
20-Oct-98	6.41	13.70	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5

SR-1	Top casing elevation (ft.): 21.45									
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	
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	

TABLE 1

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
**WIC #204-6852-1008**

Sample ID 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	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
09-Jan-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
08-Apr-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
21-Jul-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible

TABLE 1

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**15275 Washington**  
**San Leandro, California**  
**WIC #204-6852-1008**

Sample ID 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-97	6.94	13.63	0.00	NA	NA	NA	NA	NA	NA	
15-Jan-98	4.30	16.27	0.00	8100	82	<25	36	2300	<125	
14-Apr-98	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
<b>New top casing elevation (ft): 20.28</b>										
14-Jul-98	6.48	13.80	0.00	NA	NA	NA	NA	NA	NA	
20-Oct-98	6.61	13.67	0.00	NA	NA	NA	NA	NA	NA	
<b>SR-1 (DUP)</b>										
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	
<b>SV-1</b>										
15-Apr-98	6.02	NA	0.00	NA	NA	NA	NA	NA	NA	Pre-development sample
15-Apr-98	7.15	NA	0.00	NA	NA	NA	NA	NA	NA	Post-development sample

**Abbreviations:**

SP = Separate-phase hydrocarbon thickness

TPPH = Total Purgeable Petroleum Hydrocarbons carbon range C6 to C12  
 by EPA Method 8015 (Modified)  
 (previously reported as Total Petroleum Hydrocarbons as Gasoline)

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

MTBE = Methyl tert-butyl ether by EPA Method 8020

GW = Ground water

µg/L = Micrograms per liter

NA = Not analyzed or not available

(DUP) = Duplicate sample

**Notes:**

a = Well inaccessible

<x = Below detection limit of x µg/L

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

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

**Table 2. Soil Vapor Extraction System Performance and Summary - Former Shell Service Station, WIC # 204-6852-1008, 15275 Washington Ave., San Leandro, California**

Date	Interval Days of Operation	System Flow Rate (CFM)	System Vacuum ("H2O)	Operating Temp. <sup>1</sup> (Degrees F)	Hydrocarbon Concentrations						TPHg Removal Rate (#/day)	Cumulative TPHg Removal (#)	Emission Rates		TPHg Destruction Efficiency	Comments
					Influent			Effluent					TPHg Rate (#/day)	Benzene Rate (#/day)		
					OVA	TPHg	Benzene (ppmv)	OVA	TPHg	Benzene						
05/18/98	0.125	65	20	1,003	---	1,600	47	---	< 14	< 0.16	33	4	0.29	0.00	99.1%	Startup
06/16/98	22	60	22	886	---	370	3	---	< 2.8	< 0.031	7	450	0.02	0.00	99.2%	
07/28/98	40	80	40	760	---	510	6	---	< 2.8	< 0.031	13	854	0.04	0.00	99.5%	
08/20/98	4	90	47	759	---	450	1.3	---	< 2.8	< 0.031	13	906	0.00	0.00	99.4%	
10/05/98	33	80	40	715	---	180	< 0.78	---	< 2.8	< 0.031	5	1,197	0.03	0.00	98.4%	
10/28/98	7	70	49	707	---	280	< 0.16	---	< 2.8	< 0.031	6	1,235	0.01	0.00	99.0%	
11/20/98	23	75	40	675	---	140	0.40	---	< 2.8	< 0.031	3	1,346	0.02	0.00	98.0%	
12/31/98	19.5	60	25	670	---	16	< 0.031	---	< 2.8	< 0.031	0.3	1,382	0.02	0.00	82.5%	

**Abbreviations and Notes:**

1 = Center oxidizer temperature, inlet temperature set point is 650 degrees F.

CFM = Cubic feet per minute.

ppmv = parts per million by volume.

# = pounds.

--- = not analyzed or not measured.

SVE = Soil vapor extraction.

TPHg = Total Petroleum Hydrocarbons as Gasoline (C6-C12), by modified EPA Method 8015.

Benzene by EPA Method 8020.

OVA = Organic vapor analyzer.

TPHg REMOVAL/EMISSION RATE = lab concentration(ppmv) x system flow rate (cfm) x (1lb-mole/386ft3) x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene) x 1440 min/day x 1/1,000,000.

TOTAL TPHg REMOVAL = Average of the current and previous removal rates multiplied by the day-interval of operation plus the previous total.



**ATTACHMENT A**

Blaine Ground Water Monitoring Report

**BLAINE**  
TECH SERVICES INC.



1680 ROGERS AVENUE  
SAN JOSE, CA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE

November 13, 1998

Equiva Services, L.L.C.  
P.O. Box 6249  
Carson, CA 90749-6249

Attn: Karen Petryna

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

4th Quarter 1998  
September 10 and October 20, 1998

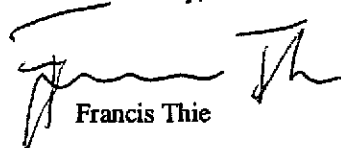
## Groundwater Monitoring Report 981020-G-2

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Blaine Tech Services, Inc. performs environmental monitoring and documentation as an independent third party. Copies of our Monitoring Report along with the laboratory's Certified Analytical Report are forwarded to the consultant overseeing work at this site. Submission of the assembled documents to interested regulatory agencies will be made by the designated consultant.

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 573-0555 ext. 201.

Yours truly,



Francis Thie

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

cc: Cambria Environmental Technology, Inc.  
1144 65 Street, Suite C  
Oakland, CA 94608-2411  
Attn: Anni Kreml

(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	10/20/98	TOC	-	NONE	-	-	7.48	19.69
S-3	10/20/98	INACCESSIBLE	-	-	-	-	-	-
S-5	10/20/98	TOC	-	NONE	-	-	7.53	17.83
S-7	10/20/98	TOC	-	NONE	-	-	7.37	23.76
S-8	10/20/98	TOC	ODOR	NONE	-	-	6.91	23.93
S-9*	10/20/98	TOC	ODOR	NONE	-	-	7.03	17.66
S-10	10/20/98	TOC	-	NONE	-	-	6.89	17.50
S-13	10/20/98	TOC	-	NONE	-	-	7.08	23.15
S-16	10/20/98	TOC	-	NONE	-	-	6.94	24.00
S-17	10/20/98	TOC	-	NONE	-	-	7.11	23.80
S-18	10/20/98	TOC	-	NONE	-	-	7.20	17.52
S-19	10/20/98	TOC	-	NONE	-	-	6.41	20.22
S-19	09/10/98	TOC	Pre-Development	NONE	-	-	5.95	20.14
S-19	09/10/98	TOC	Post-Development	NONE	-	-	8.61	20.18
SR-1	10/20/98	TOC	-	NONE	-	-	6.61	20.76

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

9810F44



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

**CHAIN OF CUSTODY RECORD**

Serial No: 781020-62

Date: 10/20/98  
Page ( of )

Site Address: 15275 Washington, San Leandro

WIC#: 204-6852-1008

Shell Engineer: Alex Perez  
Phone No.: (510) 675-6168  
Fax #: 675-6172

Consultant Name & Address:  
Blaine Tech Services, Inc.  
1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thie  
Phone No.: (408) 573-0555  
Fax #: 573-7771

Comments:

Sampled by: *[Signature]*

Printed Name: Morgan Gillies

**Analysis Required**

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 / <u>MTBE</u>	Asbestos	Container Size	Preparation Used	Composite Y/N
-------------------------	----------------------------	---------------------	------------------------------	-------------------	--	----------	----------------	------------------	---------------

LAB: Sepulveda

CHECK ONE (E) BOX ONLY	CI/DI	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/> 6441		24 hour <input type="checkbox"/>
Site Investigation <input type="checkbox"/> 6441		48 hour <input type="checkbox"/>
Soil Classfy/Disposal <input type="checkbox"/> 6442		15 days <input checked="" type="checkbox"/> (Normal)
Water Classfy/Disposal <input type="checkbox"/> 6443		Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/> 6462		
Water Rem. or Sys. O & M <input type="checkbox"/> 6463		
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as possible of 24/48 hrs. LAT.

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 / <u>MTBE</u>	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
S-8 ✓	10/20/98			X		3						X					01	
S-9 ✓	↓			↓		↓						X					02	
S-17 ✓	↓			↓		↓						X					03	
S-19 ✓	↓			↓		↓						X					04	
Dup ✓	↓			↓		↓						X					05	

Relinquished By (signature): <i>[Signature]</i>	Printed Name: <u>Morgan Gillies</u>	Date: <u>10/21/98</u>	Received (signature): <i>[Signature]</i>	Printed Name: <u>Steve Ten</u>	Date: <u>10/21/98</u>
Relinquished By (signature): <i>[Signature]</i>	Printed Name: _____	Date: <u>10/21/98</u>	Received (signature): _____	Printed Name: _____	Date: _____
Relinquished By (signature): _____	Printed Name: _____	Date: _____	Received (signature): <i>[Signature]</i>	Printed Name: <u>Downs</u>	Date: <u>10/21</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  
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(707) 792-1865

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FAX (916) 921-0100  
FAX (707) 792-0342

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

Project: Shell 15275 Washington

Enclosed are the results from samples received at Sequoia Analytical on October 21, 1998.  
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
810F44 -01	LIQUID, S-8	10/20/98	Purgeable TPH/BTEX/MTBE
810F44 -02	LIQUID, S-9	10/20/98	Purgeable TPH/BTEX/MTBE
810F44 -03	LIQUID, S-17	10/20/98	Purgeable TPH/BTEX/MTBE
810F44 -04	LIQUID, S-19	10/20/98	Purgeable TPH/BTEX/MTBE
810F44 -05	LIQUID, DUP	10/20/98	Purgeable TPH/BTEX/MTBE

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

Very truly yours,

**SEQUOIA ANALYTICAL**

  
Peggy Penner  
Project Manager





Sequoia  
Analytical

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 15275 Washington Sample Descript: S-8 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9810F44-01	Sampled: 10/20/98 Received: 10/21/98 Analyzed: 10/28/98 Reported: 11/03/98
--	--	---

QC Batch Number: GC102898BTEX30A  
Instrument ID: GCHP30

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	700
Methyl t-Butyl Ether	25	49
Benzene	5.0	55
Toluene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Xylenes (Total)	5.0	N.D.
Chromatogram Pattern:		C6-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	104

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager





**Sequoia  
Analytical**

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 15275 Washington Sample Descript: S-9 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9810F44-02	Sampled: 10/20/98 Received: 10/21/98 Analyzed: 10/28/98 Reported: 11/03/98
--	--	---

GC Batch Number: GC102898BTEX30A  
Instrument ID: GCHP30

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	2500	14000
Methyl t-Butyl Ether	125	340
Benzene	25	1600
Toluene	25	N.D.
Ethyl Benzene	25	560
Xylenes (Total)	25	N.D.
Chromatogram Pattern:		C6-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70	130
		115

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager





Sequoia  
Analytical

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Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112

Client Proj. ID: Shell 15275 Washington  
Sample Descript: S-17  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9810F44-03

Sampled: 10/20/98  
Received: 10/21/98  
Analyzed: 10/28/98  
Reported: 11/03/98

QC Batch Number: GC102898BTEX30A  
Instrument ID: GCHP30

**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	107

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager







**Sequoia  
Analytical**

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell 15275 Washington Sample Descript: S-19 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9810F44-04	Sampled: 10/20/98 Received: 10/21/98 Analyzed: 10/28/98 Reported: 11/03/98
--	---	---

QC Batch Number: GC102898BTEX30A  
Instrument ID: GCHP30

**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	109

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager





Sequoia  
Analytical

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 15275 Washington Sample Description: <del>SWP</del> Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9810F44-05	Sampled: 10/20/98 Received: 10/21/98 Analyzed: 10/28/98 Reported: 11/03/98
Attention: Fran Thie		

QC Batch Number: GC102898BTEX30A  
Instrument ID: GCHP30

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	11000
Methyl t-Butyl Ether	50	100
Benzene	10	1100
Toluene	10	N.D.
Ethyl Benzene	10	230
Xylenes (Total)	10	N.D.
Chromatogram Pattern:		C6-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	129

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner  
Project Manager





**Sequoia  
Analytical**

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

Client Project ID: Shell 15275 Washington

QC Sample Group: 9810F44-01-05

Reported: Nov 3, 1998

**QUALITY CONTROL DATA REPORT**

**Matrix:** Liquid  
**Method:** EPA 8015  
**Analyst:** MM/GR

**ANALYTE** Gasoline

**QC Batch #:** GC102898BTEX30A

**Sample No.:** GW9810C43-4  
**Date Prepared:** 10/28/98  
**Date Analyzed:** 10/28/98  
**Instrument I.D.#:** GCHP30

**Sample Conc., ug/L:** N.D.  
**Conc. Spiked, ug/L:** 250

**Matrix Spike, ug/L:** 230  
**% Recovery:** 91

**Matrix  
pike Duplicate, ug/L:** 260  
**% Recovery:** 104

**relative % Difference:** 13

**RPD Control Limits:** 0-25

**LCS Batch#:** GWLCS102898A

**Date Prepared:** 10/28/98  
**Date Analyzed:** 10/28/98  
**Instrument I.D.#:** GCHP30

**Conc. Spiked, ug/L:** 250

**LCS Recovery, ug/L:** 200  
**LCS % Recovery:** 80

**Percent Recovery Control Limits:**

MS/MSD	60-140
LCS	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

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.

**SEQUOIA ANALYTICAL**

Peggy Penner  
Project Manager





Sequoia  
Analytical

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

Client Proj. ID: Shell 15275 Washington

Received: 10/21/98

Lab Proj. ID: 9810F44

Reported: 11/03/98

### LABORATORY NARRATIVE

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

SEQUOIA ANALYTICAL

Peggy Renner  
Project Manager



**ATTACHMENT B**

Analytical Reports For Soil Vapor Sampling



# Sequoia Analytical

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Cambria  
1144 65th St. Suite C  
Oakland, CA 94608  
Attention: Darryk Ataide

Project: Shell 15275 Washington

Enclosed are the results from samples received at Sequoia Analytical on October 29, 1998.  
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9810K09 -01	AIR, SYS-INF	10/28/98	Purgeable TPH/BTEX (Air)
9810K09 -02	AIR, SYS-EFF	10/28/98	Purgeable TPH/BTEX (Air)

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





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 15275 Washington Sample Descript: SYS-INF Matrix: AIR Analysis Method: 8015Mod/8020 Lab Number: 9810K09-01	Sampled: 10/28/98 Received: 10/29/98 Analyzed: 10/31/98 Reported: 11/05/98
Attention: Darryk Ataide		

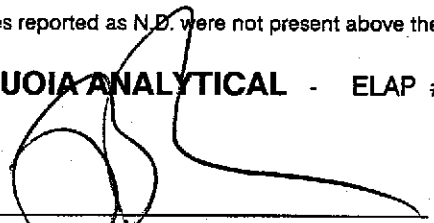
GC Batch Number: GC103198BTEX02A  
Instrument ID: GCHP02

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

Analyte	Detection Limit ppmV	Sample Results ppmV
TPPH as Gas	14	280
Benzene	0.16	N.D.
Toluene	0.13	1.6
Ethyl Benzene	0.12	1.4
Xylenes (Total)	0.12	2.5
Chromatogram Pattern:		C6-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	115

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 15275 Washington Sample Descript: SYS-EFF Matrix: AIR Analysis Method: 8015Mod/8020 Lab Number: 9810K09-02	Sampled: 10/28/98 Received: 10/29/98 Analyzed: 10/31/98 Reported: 11/05/98
Attention: Darryk Ataide		

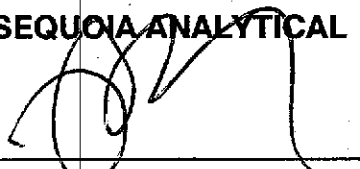
QC Batch Number: GC103198BTEX30A  
Instrument ID: GCHP30

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

Analyte	Detection Limit ppmV	Sample Results ppmV
<b>TPPH as Gas</b>	<b>2.8</b>	<b>N.D.</b>
Benzene	0.031	N.D.
Toluene	0.027	N.D.
Ethyl Benzene	0.023	N.D.
Xylenes (Total)	0.023	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	112

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager







**Sequoia  
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Cambria  
1144 65th St. Ste. C  
Oakland, CA 94608  
Attention: Darryk Ataide

Client Project ID: Shell 15275 Washington

QC Sample Group: 9810K09-01

Reported: Nov 4, 1998

**QUALITY CONTROL DATA REPORT**

**Matrix:** Liquid  
**Method:** EPA 8020  
**Analyst:** AM

**ANALYTE** Benzene Toluene Ethylbenzene Xylenes

QC Batch #: GC103198BTEX02A

Sample No.: GW9810G53-01

Date Prepared:	10/31/98	10/31/98	10/31/98	10/31/98
Date Analyzed:	10/31/98	10/31/98	10/31/98	10/31/98
Instrument I.D.#:	GCHP02	GCHP02	GCHP02	GCHP02
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30
Matrix Spike, ug/L:	11	11	11	32
% Recovery:	110	110	110	107
Matrix pike Duplicate, ug/L:	10.0	10.0	10.0	32
% Recovery:	100.0	100.0	100.0	107
relative % Difference:	9.5	9.5	9.5	0.0
RPD Control Limits:	0-25	0-25	0-25	0-25

LCS Batch#: GC103198BTEX02A

Date Prepared:	10/31/98	10/31/98	10/31/98	10/31/98
Date Analyzed:	10/31/98	10/31/98	10/31/98	10/31/98
Instrument I.D.#:	GCHP02	GCHP02	GCHP02	GCHP02
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	10.0	11	11	33
LCS % Recovery:	100.0	110	110	110

**Percent Recovery Control Limits:**

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

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

**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.

SEQUOIA ANALYTICAL

Peggy Penner  
Project Manager





Cambria  
1144 65th St. Ste. C  
Oakland, CA 94608  
Attention: Darryk Ataide

Client Project ID: Shell 15275 Washington

QC Sample Group: 9810K09-02

Reported: Nov 4, 1998

**QUALITY CONTROL DATA REPORT**

**Matrix:** Liquid  
**Method:** EPA 8020  
**Analyst:** AM

**ANALYTE** Benzene Toluene Ethylbenzene Xylenes

QC Batch #: GC103198BTEX30A

Sample No.: GW9810G53-01

Date Prepared:	10/31/98	10/31/98	10/31/98	10/31/98
Date Analyzed:	10/31/98	10/31/98	10/31/98	10/31/98
Instrument I.D.#:	GCHP30	GCHP30	GCHP30	GCHP30

Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30

Matrix Spike, ug/L:	11	11	11	33
% Recovery:	110	110	110	110

Matrix Duplicate, ug/L:	10.0	10.0	10.0	31
% Recovery:	100.0	100.0	100.0	103

relative % Difference:	9.5	9.5	9.5	6.6
------------------------	-----	-----	-----	-----

RPD Control Limits:	0-25	0-25	0-25	0-25
---------------------	------	------	------	------

LCS Batch#: GC103198BTEX30A

Date Prepared:	10/31/98	10/31/98	10/31/98	10/31/98
Date Analyzed:	10/31/98	10/31/98	10/31/98	10/31/98
Instrument I.D.#:	GCHP30	GCHP30	GCHP30	GCHP30

Conc. Spiked, ug/L:	10	10	10	30
---------------------	----	----	----	----

LCS Recovery, ug/L:	11	11	11	33
LCS % Recovery:	110	110	110	110

Percent Recovery Control Limits:

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

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

**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.





**Sequoia  
Analytical**

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1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954

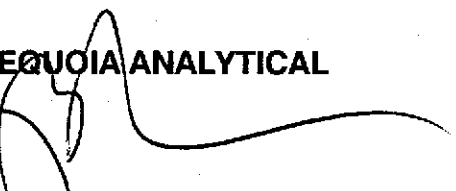
(650) 364-9600  
(925) 988-9600  
(916) 921-9600  
(707) 792-1865

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Darryk Ataide	Client Proj. ID: Shell 15275 Washington Lab Proj. ID: 9810K09	Received: 10/29/98 Reported: 11/05/98
---	--	--

### LABORATORY NARRATIVE

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

**SEQUOIA ANALYTICAL**  
  
Peggy Fenner  
Project Manager





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

**CHAIN OF CUSTODY RECORD**

Serial No: \_\_\_\_\_

Date: 10/20/98

Page 1 of 1

Site Address:  
15275 Washington, San Leandro  
WIC#: 204-6852-1008  
Shell Engineer: Karen Petryna  
Phone No.:  
Fax #:  
Consultant Name & Address: CAMBRIA ENVIRONMENTAL  
1114 65th St, Suite C, Oakland, CA 94608  
Consultant Contact: Darryk Ataide  
Phone No.: SJO 420-0700  
Fax #: 420-9170  
Comments:

**Analysis Required**

SAME DAY CHANGE									
TPH (EPA 8015 Mod. GC)	TPH (EPA 8015 Mod. Diesel)	STEX (EPA 8020/602)	Volatile Organics (EPA 8210)	Test for Disposal	Combination TPH 8015 & STEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CY/MT	TURF AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	16 days <input checked="" type="checkbox"/> (Hazard)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input checked="" type="checkbox"/>	4452	NOTE: Hottly Lab as soon as possible of 24/48 hrs. 1AL.
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

Sampled by: *[Signature]*  
Printed Name: ANNI KREML 9810209

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.
SYS-INF	10/20/98				X	1
SYS-EFF	↓				↓	1

UST AGENCY: \_\_\_\_\_

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
Soil vapor ↓	

Retrieved By (signature): <i>[Signature]</i>	Printed Name: ANNI KREML	Date: 10/21/98	Received (signature): <i>[Signature]</i>	Printed Name: JOHAN FRILIC	Date: 10/29/98
Retrieved By (signature): <i>[Signature]</i>	Printed Name: JOHAN FRILIC	Date: 10/21/98	Received (signature):	Printed Name:	Date:
Retrieved By (signature):	Printed Name:	Date:	Received (signature):	Printed Name: E. GALVAN	Date: 10/29/98

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



# Sequoia Analytical

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FAX (707) 792-0342

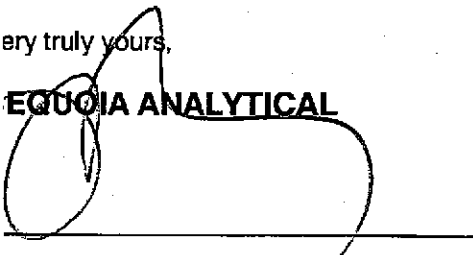
Dambria  
144 65th St. Suite C  
Oakland, CA 94608  
Attention: Darryk Ataide

Project: Shell 15275 Washington

Enclosed are the results from samples received at Sequoia Analytical on November 20, 1998.  
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
811D55 -01	AIR, SYS-INF	11/20/98	Purgeable TPH/BTEX (Air)
811D55 -02	AIR, SYS-EFF	11/20/98	Purgeable TPH/BTEX (Air)

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**

Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Darryk Ataide	Client Proj. ID: Shell 15275 Washington Sample Descript: SYS-INF Matrix: AIR Analysis Method: 8015Mod/8020 Lab Number: 9811D55-01	Sampled: 11/20/98 Received: 11/20/98 Analyzed: 11/21/98 Reported: 11/25/98
---	---	---

QC Batch Number: GC112198BTEX03A  
Instrument ID: GCHP03

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

Analyte	Detection Limit ppmV	Sample Results ppmV
TPPH as Gas	14	140
Benzene	0.16	0.40
Toluene	0.13	0.77
Ethyl Benzene	0.12	0.55
Xylenes (Total)	0.12	1.6
Chromatogram Pattern:		C6-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	111

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

**SEQUOIA ANALYTICAL** - ELAP #1210

Project Manager





**Sequoia  
Analytical**

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FAX (916) 921-0100  
FAX (707) 792-0342

Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Darryk Ataide	Client Proj. ID: Shell 15275 Washington Sample Descript: SYS-EFF Matrix: AIR Analysis Method: 8015Mod/8020 Lab Number: 9811D55-02	Sampled: 11/20/98 Received: 11/20/98 Analyzed: 11/21/98 Reported: 11/25/98
QC Batch Number: GC112198BTEX30A Instrument ID: GCHP30		

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

Analyte	Detection Limit ppmV	Sample Results ppmV
TPPH as Gas	2.8	N.D.
Benzene	0.031	N.D.
Toluene	0.027	N.D.
Ethyl Benzene	0.023	N.D.
Xylenes (Total)	0.023	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	95

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

**SEQUOIA ANALYTICAL - ELAP #1210**

Project Manager





**Sequoia  
Analytical**

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FAX (707) 792-0342

Cambria  
1144 65th St. Ste. C  
Oakland, CA 94608  
Attention: Darryk Ataide

Client Project ID: Shell 15275 Washington

QC Sample Group: 9811D55-01

Reported: Nov 25, 1998

**QUALITY CONTROL DATA REPORT**

**Matrix:** Liquid  
**Method:** EPA 8015  
**Analyst:** AM

**ANALYTE** Gasoline

**QC Batch #:** GC112198BTEX03A

**Sample No.:** GW9811C65-01  
**Date Prepared:** 11/21/98  
**Date Analyzed:** 11/21/98  
**Instrument I.D.#:** GCHP03

**Sample Conc., ug/L:** N.D.  
**Conc. Spiked, ug/L:** 250

**Matrix Spike, ug/L:** 250  
**% Recovery:** 100.0

**Matrix Duplicate, ug/L:** 250  
**% Recovery:** 100.0

**relative % Difference:** 0.0

**RPD Control Limits:** 0-25

**LCS Batch#:** GC112198BTEX03A

**Date Prepared:** 11/21/98  
**Date Analyzed:** 11/21/98  
**Instrument I.D.#:** GCHP03

**Conc. Spiked, ug/L:** 250

**LCS Recovery, ug/L:** 260  
**LCS % Recovery:** 104

**Percent Recovery Control Limits:**

MS/MSD	60-140
LCS	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

**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.

**SEQUOIA ANALYTICAL**

Peggy Penner  
Project Manager







**Sequoia  
Analytical**

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FAX (707) 792-0342

Cambria  
1144 65th St. Ste. C  
Oakland, CA 94608  
Attention: Darryk Ataide

Client Project ID: Shell 15275 Washington

QC Sample Group: 9811D55-02

Reported: Nov 25, 1998

**QUALITY CONTROL DATA REPORT**

**Matrix:** Liquid  
**Method:** EPA 8015  
**Analyst:** AM

**ANALYTE** Gasoline

QC Batch #: GC112198BTEX30A

Sample No.: GW9811C65-01

Date Prepared: 11/21/98

Date Analyzed: 11/21/98

Instrument I.D.#: GCHP30

Sample Conc., ug/L: N.D.

Conc. Spiked, ug/L: 250

Matrix Spike, ug/L: 260

% Recovery: 104

**Matrix**

pike Duplicate, ug/L: 250

% Recovery: 100.0

Relative % Difference: 3.9

RPD Control Limits: 0-25

LCS Batch#: GC112198BTEX30A

Date Prepared: 11/21/98

Date Analyzed: 11/21/98

Instrument I.D.#: GCHP30

Conc. Spiked, ug/L: 250

LCS Recovery, ug/L: 250

LCS % Recovery: 100.0

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

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.

SEQUOIA ANALYTICAL

Peggy Penner  
Project Manager





Sequoia  
Analytical

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FAX (916) 921-0100  
FAX (707) 792-0342

Cambria  
1144 65th St. Suite C  
Oakland, CA 94608  
Attention: Darryk Ataide

Client Proj. ID: Shell 15275 Washington

Received: 11/20/98

Lab Proj. ID: 9811D55

Reported: 11/25/98

### LABORATORY NARRATIVE

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

**SEQUOIA ANALYTICAL**

Project Manager



Page: 1



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

**CHAIN OF CUSTODY RECORD**

Date: 11-20-98  
 Page 1 of 1

Silo Address: 15275 WASHINGTON AVE, <sup>SF2</sup> LEANRO

WIC#: 204-6852-1108

Shell Engineer: **KAREN PETRYNA**  
 Phone No.: 554 645-9306  
 Fax #: 645-5643

Consultant Name & Address: **CAMBRIA ENVIRONMENTAL**  
 1114 65th St. Suite C, Oakland, CA 94608

Consultant Contact: **DARRYK ATAIDE**  
 Phone No.: SLO 420-0700  
 Fax #: 420-9170

Comments:

Sampled by: **BRIAN BUSCH**

Printed Name:

**Analysis Required**

TPH (EPA 8015 Mod. Cond)	TPH (EPA 8015 Mod. Diesel)	STEX (EPA 8020/802)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & STEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N
					X		X	X	X
					X		↓	↓	↓

LAB: **SEQUOIA**

CHECK ONE (1) BOX ONLY	C/DE	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4481	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4481	48 hours <input type="checkbox"/>
Soil Classfy/Disposal <input type="checkbox"/>	4482	16 days <input checked="" type="checkbox"/> (Normal)
Water Classfy/Disposal <input type="checkbox"/>	4483	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input checked="" 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 hr. TAT.

UST AGENCY:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SYS-INF	11-20-98				X	1	Soil vapor	
SYS-EFF	11-20-98				X	1	↓	

Requested By (signature): <i>Brian Busch</i>	Printed Name: <b>BRIAN BUSCH</b>	Date: 11/20/98 Time: 10:20	Received (signature): <i>Jeff Bonville</i>	Printed Name: <b>Jeff Bonville</b>	Date: 11/20/98 Time: 10:20
Requested By (signature): <i>Jeff Bonville</i>	Printed Name: <b>Jeff Bonville</b>	Date: 11/20/98 Time:	Received (signature):	Printed Name:	Date: Time:
Requested By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: <b>Mike Young</b>	Date: 11/20/98 Time: 11:15



# Sequoia Analytical

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FAX (916) 921-0100  
FAX (707) 792-0342

Cambria  
1144 65th St. Suite C  
Oakland, CA 94608  
Attention: Darryk Ataide

Project: Shell 15275 Washington

Enclosed are the results from samples received at Sequoia Analytical on December 31, 1998.  
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9812112 -01	AIR, SYS-INF	12/31/98	Purgeable TPH/BTEX (Air)
9812112 -02	AIR, SYS-EFF	12/31/98	Purgeable TPH/BTEX (Air)

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

Very truly yours,

**SEQUOIA ANALYTICAL**

Peggy Penner  
Project Manager





**Sequoia  
Analytical**

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FAX (916) 921-0100  
FAX (707) 792-0342

Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 15275 Washington Sample Descript: SYS-INF Matrix: AIR Analysis Method: 8015Mod/8020 Lab Number: 9812112-01	Sampled: 12/31/98 Received: 12/31/98 Analyzed: 01/02/99 Reported: 01/05/99
---	---	---

GC Batch Number: GC010299BTEX02A  
Instrument ID: GCHP02

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

Analyte	Detection Limit ppmV	Sample Results ppmV
TPPH as Gas	2.8	16
Benzene	0.031	N.D.
Toluene	0.027	N.D.
Ethyl Benzene	0.023	0.092
Xylenes (Total)	0.023	0.097
Chromatogram Pattern: Unidentified HC		C6-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70	130
		184 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner  
Project Manager





**Sequoia  
Analytical**

680 Chesapeake Drive  
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Cambria  
1144 65th St. Suite C  
Oakland, CA 94608

Client Proj. ID: Shell 15275 Washington  
Sample Descript: SYS-EFF  
Matrix: AIR  
Analysis Method: 8015Mod/8020  
Lab Number: 9812112-02

Sampled: 12/31/98  
Received: 12/31/98  
Analyzed: 01/01/99  
Reported: 01/05/99

QC Batch Number: GC010199BTEX02A  
Instrument ID: GCHP02

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

Analyte	Detection Limit ppmV	Sample Results ppmV
TPPH as Gas	2.8	N.D.
Benzene	0.031	N.D.
Toluene	0.027	N.D.
Ethyl Benzene	0.023	N.D.
Xylenes (Total)	0.023	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	105

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

**SEQUOIA ANALYTICAL - ELAP #1210**

Peggy Fenner  
Project Manager





**Sequoia  
Analytical**

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Cambria  
1144 65th St. Ste. C  
Oakland, CA 94608  
Attention: Darryk Ataide

Client Project ID: Shell 15275 Washington

QC Sample Group: 9812i12-01-02

Reported: Jan 5, 1999

**QUALITY CONTROL DATA REPORT**

**Matrix:** Liquid  
**Method:** EPA 8020  
**Analyst:** AM

**ANALYTE** Benzene Toluene Ethylbenzene Xylenes

QC Batch #: GC010299BTEX02A

Sample No.: GW9812G55-10

<b>Date Prepared:</b>	1/2/99	1/2/99	1/2/99	1/2/99
<b>Date Analyzed:</b>	1/2/99	1/2/99	1/2/99	1/2/99
<b>Instrument I.D.#:</b>	GCHP02	GCHP02	GCHP02	GCHP02

<b>Sample Conc., ug/L:</b>	N.D.	N.D.	N.D.	N.D.
<b>Conc. Spiked, ug/L:</b>	10	10	10	30

<b>Matrix Spike, ug/L:</b>	11	12	12	35
<b>% Recovery:</b>	110	120	120	117

<b>Matrix pike Duplicate, ug/L:</b>	11	12	12	35
<b>% Recovery:</b>	110	120	120	117

<b>Relative % Difference:</b>	0.0	0.0	0.0	0.0
-------------------------------	-----	-----	-----	-----

<b>RPD Control Limits:</b>	0-25	0-25	0-25	0-25
----------------------------	------	------	------	------

LCS Batch#: GC010299BTEX02A

<b>Date Prepared:</b>	1/2/99	1/2/99	1/2/99	1/2/99
<b>Date Analyzed:</b>	1/2/99	1/2/99	1/2/99	1/2/99
<b>Instrument I.D.#:</b>	GCHP02	GCHP02	GCHP02	GCHP02

<b>Conc. Spiked, ug/L:</b>	10	10	10	30
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<b>LCS Recovery, ug/L:</b>	11	12	11	34
<b>LCS % Recovery:</b>	110	120	110	113

**Percent Recovery Control Limits:**

<b>MS/MSD</b>	60-140	60-140	60-140	60-140
<b>LCS</b>	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

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.

**SEQUOIA ANALYTICAL**

Peggy Penner  
Project Manager





Sequoia  
Analytical

680 Chesapeake Drive  
404 N. Wiget Lane  
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(925) 988-9600  
(916) 921-9600  
(707) 792-1865

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

Cambria  
1144 65th St. Suite C  
Oakland, CA 94608  
Attention: Darryk Ataide

Client Proj. ID: Shell 15275 Washington  
Lab Proj. ID: 9812112

Received: 12/31/98  
Reported: 01/05/99

### LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 4 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







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

**CHAIN OF CUSTODY RECORD**

Serial No: \_\_\_\_\_

Date: 12/31/98

Page 1 of 1

Site Address: 15275 Washington, San Leandro

WIC#: \_\_\_\_\_

Shell Engineer: Karen Petryna  
Phone No.: \_\_\_\_\_  
Fax #: \_\_\_\_\_

Consultant Name & Address: CAMBRIA ENVIRONMENTAL  
1114 65th St, Suite C, Oakland, CA 94608

Consultant Contact: DARRYK ATAIDE  
Phone No.: 510 420-0700  
Fax #: 420-9170

Comments: \_\_\_\_\_

Sampled by: *Anni Kreml*

Printed Name: ANNI KREML

**Analysis Required**

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/502)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N
					X		1L		N
					X		1L		N

LAB: Seq. Uota

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4481	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	16 days <input type="checkbox"/> (flaming)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input checked="" type="checkbox"/> Std. for air
Soil/Air Rem. of Sys. O & M <input checked="" type="checkbox"/>	4452	NOTE: Notify lab as soon as possible at 24/48 hrs, 1A1.
Water Rem. of Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

**UST AGENCY:**

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
Soil vapor	
↓	
	9812I12

Relinquished By (signature): <i>Anni Kreml</i>	Printed Name: ANNI KREML	Date: _____	Time: _____
Relinquished By (signature): <i>Dynamex 443 Bear</i>	Printed Name: BEAR	Date: 12-31-98	Time: 4:20 pm
Relinquished By (signature): _____	Printed Name: _____	Date: _____	Time: _____

Received (signature): <i>Dynamex 443 Bear</i>	Printed Name: BEAR	Date: 12-31-98	Time: 4:20 pm
Received (signature): <i>Lori Cant</i>	Printed Name: LORI CANT	Date: _____	Time: _____
Received (signature): _____	Printed Name: _____	Date: _____	Time: _____

Relinquished By (signature): <i>Bear</i>	Printed Name: BEAR	Date: 12-31-98	Time: 3:25 pm
Relinquished By (signature): <i>Lori Cant</i>	Printed Name: LORI CANT	Date: 12-31-98	Time: 1:20 pm
Relinquished By (signature): _____	Printed Name: _____	Date: _____	Time: _____

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