

CAMBRIA

*Site visit*

*LAP 413*

ENVIRONMENTAL  
PROTECTION

25 MAR 19 PM 12:27

March 15, 1999

Ms. Susan Hugo  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway #250  
Alameda, California 94502-6577

Re: **Quarterly Monitoring Report - First Quarter 1999**  
Former Shell Service Station  
2800 Telegraph Avenue  
Oakland, California  
WIC #204-5508-2303



Dear Ms. Hugo:

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

This document presents the results of activities performed in the first quarter of 1999.

### **Quarterly Monitoring & Sampling Summary**

- Blaine Tech Services, Inc. (Blaine) of San Jose, California measured ground water levels in Wells S-1, S-4 through S-6, S-8, S-10, and SR-1 and collected ground water samples from Wells S-5 and S-8 on January 12, 1999. The samples were transported to Sequoia Analytical of Petaluma, California for chemical analysis.
- Cambria evaluated water-level measurement data and prepared a ground water contour map (Plate 2). Ground water flow direction ranges from southeasterly to southwesterly at an approximate hydraulic gradient of 0.02.
- TPPH, BTEX, MTBE were ND in ground water samples collected from Wells S-5 and S-8. Chemical concentration data is shown on Plate 2.

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

**Cambria  
Environmental  
Technology, Inc.**

270 Perkins Street  
P.O. Box 259  
Sonoma, CA 95476  
Tel (707)935-4850  
Fax (707)935-6649

# C A M B R I A

## Quarterly Sampling

Monitoring Wells S-5 and S-8 were sampled and analyzed for total purgeable petroleum hydrocarbons as gasoline (TPPH) by EPA Method 8015 (Modified) and benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl-tertiary-butyl-ether (MTBE) by EPA Method 8260.

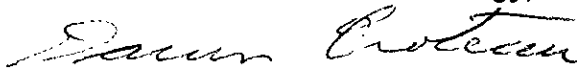
Field monitoring data and chemical analytical data are included in a summary table in Blaine's ground water monitoring report (Appendix A).

Shell Oil Products Company was notified during the first quarter of 1998 that the right of entry agreement allowing access to the property located to the south of the subject site was invalid. Therefore, Wells S-7, S-9, and S-11 have not been monitored since the fourth quarter of 1997. Negotiations are currently underway to secure a proper access agreement for this property so monitoring and sampling can continue.

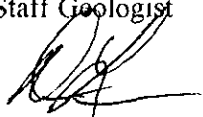
Monitoring, sampling, and reporting will continue on the established schedule for the next quarter.

If you have any questions regarding the contents of this document, please call Joe Neely at (707) 935-4854.

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



Darren Croteau  
Staff Geologist



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



# C A M B R I A

Attachments:

Plate 1. Site Vicinity Map

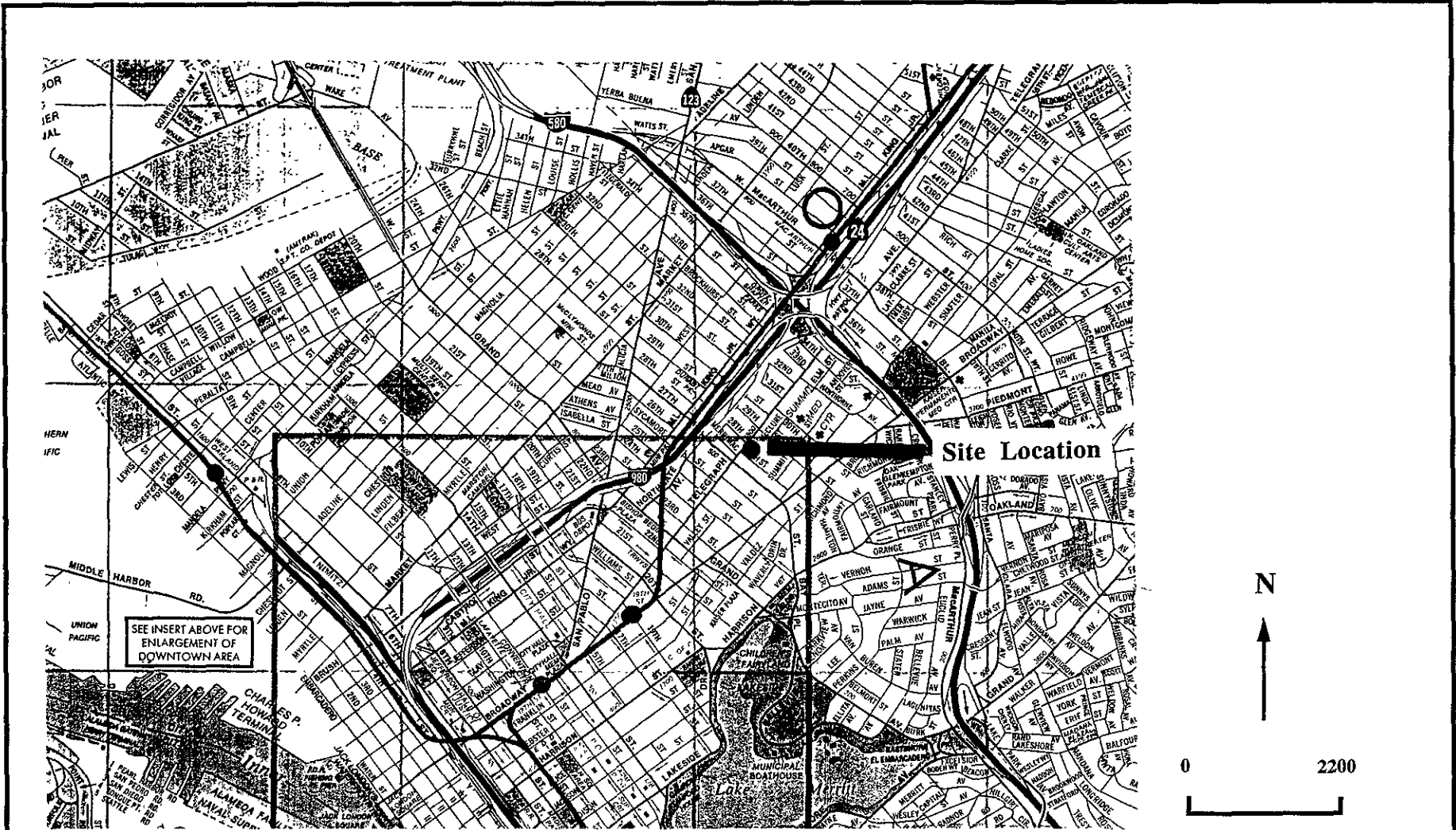
Plate 2. Ground Water Contour/Chemical Concentration Map

Appendix A

Blaine Tech Services Inc. - Ground Water Monitoring Report

cc: Ms. Karen Petryna, Equiva Services LLC  
Mr. Murray Kalender, American Real Estate Partners (property owner)



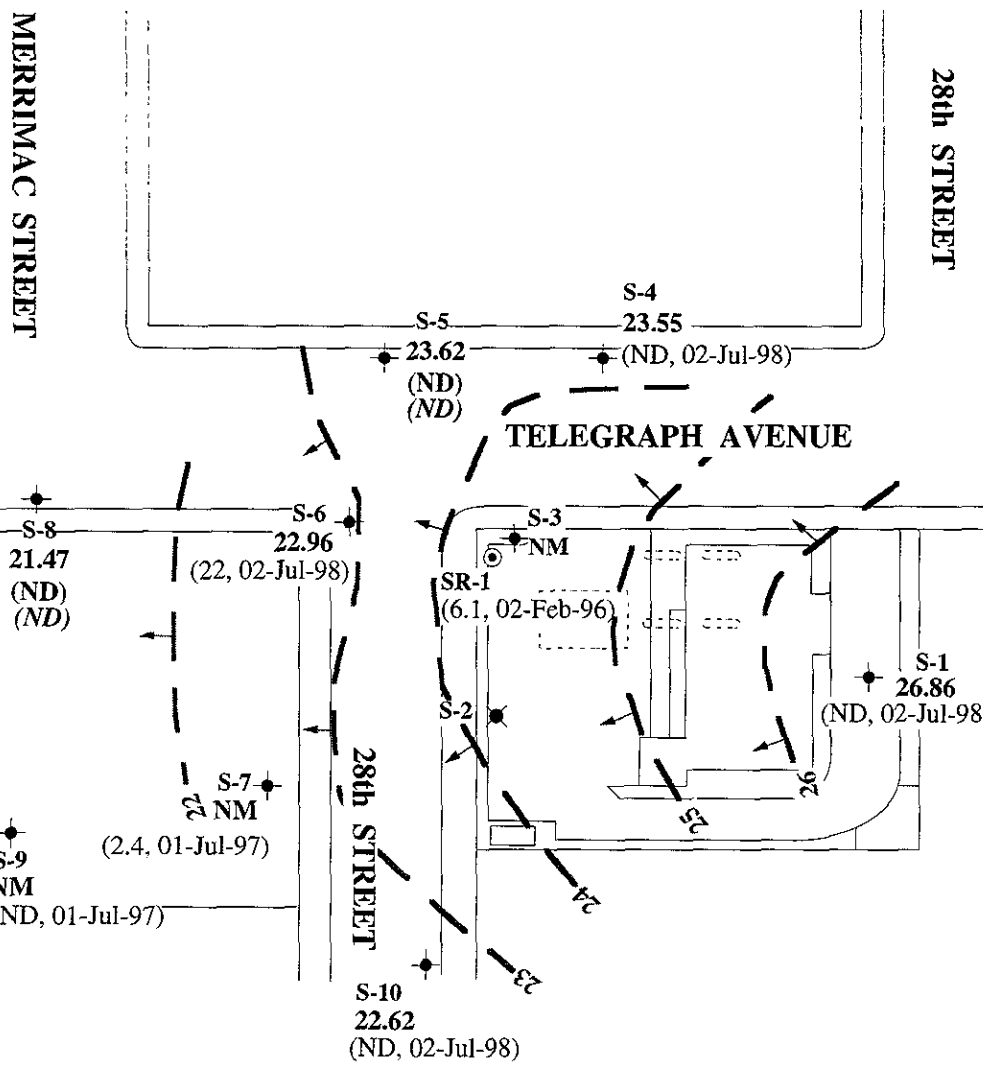
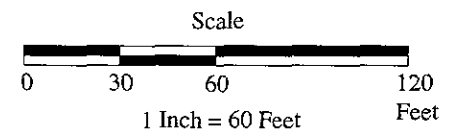
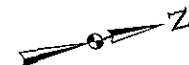


Note: Vicinity Map taken from California State AAA map.

<p>PLATE <b>1</b></p>	<p><b>SITE VICINITY MAP</b> Former Shell Service Station 2800 Telegraph Avenue Oakland, California</p>	<p><b>CAMBRIA</b> 290</p>
<p>Drawn By: JLP      Date: 5-15-95</p>	<p>Approved By: <i>[Signature]</i>      Date: 3-15-99</p>	

### EXPLANATION

- ⊕ Ground water monitoring well
- ⊗ Destroyed Ground Water Monitoring Well
- ↘ Ground water elevation contour in feet referenced to mean sea level (MSL). Arrows indicate approximate ground water flow direction.
- 21.89 Ground water elevation in feet above MSL
- (0.76) Benzene concentration in ppb  
 ND = Not Detected  
 <X = Not detected at detection limit X
- (ND) MTBE concentration in ppb
- NM Not Monitored
- Approximate hydraulic gradient = 0.02
- Notes: Monitoring and sampling performed on 12-Jan-99 unless otherwise indicated.



Base map taken from Weiss Associates Site Map.

**PLATE**  
**2**

**GROUND WATER CONTOUR/CHEMICAL CONCENTRATION MAP**  
 Former Shell Service Station  
 2800 Telegraph Avenue  
 Oakland, California

**CAMBRIA**  
290

Drawn By: DRC

Date: 15-Mar-99

Approved By:

Date: 3-15-99

**Appendix A**

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

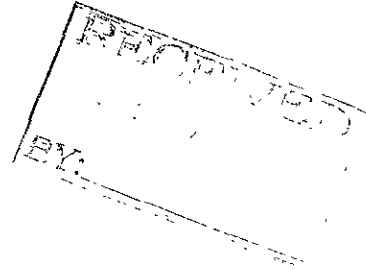
BLAINE  
TECH SERVICES INC.



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

March 8, 1999

Karen Petryna  
Equiva Services LLC  
P.O. Box 6249  
Carson, CA 90749-6249



First Quarter 1999 Groundwater Monitoring at  
Shell -branded Service Station  
2800 Telegraph Avenue  
Oakland, CA

Monitoring performed on January 12, 1999

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Groundwater Monitoring Report **990112-R-2**

This report covers the routine monitoring of groundwater wells at this Shell -branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, appropriate calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "Deidre Kerwin". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Deidre Kerwin  
Operations Manager

DK/mt

attachments: Cumulative Table of WELL CONCENTRATIONS  
Certified Analytical Report  
Field Data Sheets

cc: Joe Neely  
Cambria Environmental Technology, Inc.  
P.O. Box 259  
Sonoma, CA 95476-0259



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**2800 Telegraph Avenue**  
**Oakland, CA**  
**Wic #204-5508-2303**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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S-1	05/04/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	35.31	9.50	25.81	0.00
S-1	08/10/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	35.31	10.85	24.46	0.00
S-1	11/09/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	35.31	10.34	24.97	0.00
S-1	02/23/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	35.31	7.60	27.71	0.00
S-1	06/07/1993	<50	2.8	1.3	0.7	3.0	NA	NA	35.31	8.63	26.68	0.00
S-1	08/13/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	35.31	9.20	26.11	0.00
S-1	11/18/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	35.31	10.58	24.73	0.00
S-1	02/10/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	35.31	8.41	26.90	0.00
S-1	05/03/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	35.31	9.09	26.22	0.00
S-1	08/01/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	35.31	8.81	26.50	0.00
S-1	11/08/1994	NA	NA	NA	NA	NA	NA	NA	35.31	9.32	25.99	0.00
S-1	02/03/1995	NA	NA	NA	NA	NA	NA	NA	35.31	6.98	28.33	0.00
S-1	08/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	35.31	9.35	25.96	0.00
S-1	02/02/1996	NA	NA	NA	NA	NA	NA	NA	35.31	7.45	27.86	0.00
S-1	05/04/1996	NA	NA	NA	NA	NA	NA	NA	35.31	8.91	26.40	0.00
S-1	08/02/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	35.31	9.33	25.98	0.00
S-1	10/02/1996	NA	NA	NA	NA	NA	NA	NA	35.31	10.11	25.20	0.00
S-1	01/08/1997	NA	NA	NA	NA	NA	NA	NA	35.31	7.93	27.38	0.00
S-1	04/17/1997	NA	NA	NA	NA	NA	NA	NA	35.31	8.94	26.37	0.00
S-1	07/01/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	35.31	9.55	25.76	0.00
S-1	10/07/1997	NA	NA	NA	NA	NA	NA	NA	35.31	9.43	25.88	0.00
S-1	01/07/1998	NA	NA	NA	NA	NA	NA	NA	35.31	8.21	27.10	0.00
S-1	04/02/1998	NA	NA	NA	NA	NA	NA	NA	35.31	8.27	27.04	0.00

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**Shell-branded Service Station**  
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S-1	07/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	35.31	8.97	26.34	0.00
S-1	10/01/1998	NA	NA	NA	NA	NA	NA	NA	35.31	9.89	25.42	0.00
S-1	01/12/1999	NA	NA	NA	NA	NA	NA	NA	35.31	8.45	26.86	0.00
S-2	05/04/1992	1600	190	6.0	240	54	NA	NA	33.91	9.44	24.47	0.00
S-2	08/10/1992	<50	4.1	<0.5	<0.5	<0.5	NA	NA	33.91	10.73	23.18	0.00
S-2	09/11/1992	84	19	0.7	2.2	4.3	NA	NA	33.91	NA	NA	NA
S-2	11/09/1992	NA	NA	NA	NA	NA	NA	NA	33.91	10.29	23.62	0.00
S-2	02/23/1993	16000	1600	480	850	1800	NA	NA	33.91	9.04	24.87	0.00
S-2	04/08/1993	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA
S-3	05/04/1992	NA	NA	NA	NA	NA	NA	NA	33.56	9.22	24.34	0.00
S-3	08/10/1992	Well paved over		NA	NA	NA	NA	NA	NA	NA	NA	NA
S-4	05/04/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.08	9.96	24.12	0.00
S-4	08/10/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.08	11.32	22.76	0.00
S-4	11/09/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.08	11.29	22.79	0.00
S-4	02/23/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.08	9.82	24.26	0.00
S-4	06/07/1993	50	9.2	5.5	3.3	14	NA	NA	34.08	10.51	23.57	0.00
S-4	08/13/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.08	11.05	23.03	0.00
S-4	11/18/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.08	11.34	22.74	0.00
S-4	02/10/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.08	9.93	24.15	0.00
S-4	05/03/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.08	10.40	23.68	0.00
S-4	08/01/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.08	10.68	23.40	0.00

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S-4	11/08/1994	NA	NA	NA	NA	NA	NA	NA	34.08	9.44	24.64	NA
S-4	02/03/1995	NA	NA	NA	NA	NA	NA	NA	34.08	9.18	24.90	NA
S-4	08/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.08	10.62	23.46	0.00
S-4	02/02/1996	NA	NA	NA	NA	NA	NA	NA	34.08	9.23	24.85	0.00
S-4	05/04/1996	NA	NA	NA	NA	NA	NA	NA	34.08	10.37	23.71	0.00
S-4	08/02/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	34.08	10.69	23.39	0.00
S-4	10/02/1996	NA	NA	NA	NA	NA	NA	NA	34.08	10.96	23.12	0.00
S-4	01/08/1997	NA	NA	NA	NA	NA	NA	NA	34.08	9.37	24.71	0.00
S-4	04/17/1997	NA	NA	NA	NA	NA	NA	NA	34.08	10.25	23.83	0.00
S-4	07/01/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	34.08	10.60	23.48	0.00
S-4	10/07/1997	NA	NA	NA	NA	NA	NA	NA	34.08	10.52	23.56	0.00
S-4	01/07/1998	NA	NA	NA	NA	NA	NA	NA	34.08	9.79	24.29	0.00
S-4	04/02/1998	NA	NA	NA	NA	NA	NA	NA	34.08	9.56	24.52	0.00
S-4	07/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	34.08	10.51	23.57	0.00
S-4	10/01/1998	NA	NA	NA	NA	NA	NA	NA	34.08	11.01	23.07	0.00
S-4	01/12/1999	NA	NA	NA	NA	NA	NA	NA	34.08	10.53	23.55	0.00

S-5	05/04/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.42	10.27	23.15	0.00
S-5	08/10/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.42	10.68	22.74	0.00
S-5	11/09/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.42	10.69	22.73	0.00
S-5	02/23/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.42	9.45	23.97	0.00
S-5	06/07/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.42	10.23	23.19	0.00
S-5	08/13/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.42	10.58	22.84	0.00
S-5	11/18/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.42	10.70	22.72	0.00

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S-5	02/10/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.42	9.75	23.67	0.00
S-5	05/03/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.42	10.19	23.23	0.00
S-5	08/01/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.42	10.30	23.12	0.00
S-5	11/08/1994	NA	NA	NA	NA	NA	NA	NA	33.42	9.64	23.78	NA
S-5	02/03/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.42	9.59	23.83	0.00
S-5	08/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.42	10.23	23.90	0.00
S-5	02/02/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.42	9.51	23.91	0.00
S-5	05/04/1996	NA	NA	NA	NA	NA	NA	NA	33.42	10.15	23.27	0.00
S-5	08/02/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	33.42	10.30	23.12	0.00
S-5	10/02/1996	NA	NA	NA	NA	NA	NA	NA	33.42	10.54	22.88	0.00
S-5	01/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	33.42	9.56	23.86	0.00
S-5	04/17/1997	NA	NA	NA	NA	NA	NA	NA	33.42	10.03	23.39	0.00
S-5	07/01/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	33.42	10.23	23.19	0.00
S-5	10/07/1997	NA	NA	NA	NA	NA	NA	NA	33.42	10.25	23.17	0.00
S-5	01/07/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	33.42	9.83	23.59	0.00
S-5	04/02/1998	NA	NA	NA	NA	NA	NA	NA	33.42	9.73	23.69	0.00
S-5	07/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	33.42	10.04	23.38	0.00
S-5	10/01/1998	NA	NA	NA	NA	NA	NA	NA	33.42	10.91	22.51	0.00
S-5	01/12/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	33.42	9.80	23.62	0.00

S-6	05/04/1992	3100	640	22	23	97	NA	NA	32.59	9.42	23.17	0.00
S-6	08/10/1992	3400	430	27	26	120	NA	NA	32.59	10.40	22.19	0.00
S-6	11/09/1992	2000	320	15	15	100	NA	NA	32.59	10.16	22.43	0.00
S-6	02/23/1993	14000	780	180	380	1300	NA	NA	32.59	7.60	24.99	0.00

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S-6	06/07/1993	3900	1400	56	83	210	NA	NA	32.59	8.90	23.69	0.00
S-6	08/13/1993	4000a	890	16	<0.5	41	NA	NA	32.59	9.39	23.20	0.00
S-6	11/18/1993	80	5.0	<0.5	<0.5	<0.5	NA	NA	32.59	10.32	22.27	0.00
S-6	02/10/1994	4100	370	23	21	90	NA	NA	32.59	8.68	23.91	0.00
S-6	05/03/1994	4700	550	28	85	340	NA	NA	32.59	9.20	23.39	0.00
S-6	08/01/1994	2900	370	11	11	43	NA	NA	32.59	8.90	23.69	0.00
S-6	11/08/1994	NA	NA	NA	NA	NA	NA	NA	32.59	8.32	23.69	0.00
S-6	02/03/1995	NA	NA	NA	NA	NA	NA	NA	32.59	8.04	23.69	0.00
S-6	08/02/1995	1400	160	<5	<5	<5	NA	NA	32.59	9.26	23.19	0.00
S-6	02/02/1996	NA	NA	NA	NA	NA	NA	NA	32.59	7.90	24.69	0.00
S-6	05/04/1996	NA	NA	NA	NA	NA	NA	NA	32.59	8.98	23.61	0.00
S-6	08/02/1996	1600	150	9.2	13	23	17	NA	32.59	9.34	23.25	0.00
S-6	10/02/1996	NA	NA	NA	NA	NA	NA	NA	32.59	9.96	22.63	0.00
S-6	01/08/1997	NA	NA	NA	NA	NA	NA	NA	32.59	7.38	25.21	0.00
S-6	04/17/1997	NA	NA	NA	NA	NA	NA	NA	32.59	9.16	23.43	0.00
S-6	07/01/1997	<50	1.5	<0.50	<0.50	<0.50	<2.5	NA	32.59	9.60	22.99	0.00
S-6	10/07/1997	NA	NA	NA	NA	NA	NA	NA	32.59	9.64	22.95	0.00
S-6	01/07/1998	NA	NA	NA	NA	NA	NA	NA	32.59	8.34	24.25	0.00
S-6	04/02/1998	NA	NA	NA	NA	NA	NA	NA	32.59	7.93	24.66	0.00
S-6	07/02/1998	370	22	0.62	<0.50	<0.50	5.60	NA	32.59	9.85	22.74	0.00
S-6	10/01/1998	NA	NA	NA	NA	NA	NA	NA	32.59	10.48	22.11	0.00
S-6	01/12/1999	NA	NA	NA	NA	NA	NA	NA	32.59	9.63	22.96	0.00
S-6 (D)	08/01/1994	2600	340	8.8	7.7	33	NA	NA	32.59	NA	NA	NA

**WELL CONCENTRATIONS**  
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**2800 Telegraph Avenue**  
**Oakland, CA**  
**Wic #204-5508-2303**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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S-6 (D)	08/02/1995	1400	170	<5	<5	<5	NA	NA	32.59	NA	NA	NA
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S-7	05/04/1992	180	1.6	<0.5	1.5	3.0	NA	NA	33.33	11.21	22.12	0.00
S-7	08/10/1992	190	8.0	1.4	4.7	8.5	NA	NA	33.33	12.28	21.05	0.00
S-7	11/09/1992	280	16	4.0	7.8	21	NA	NA	33.33	11.77	21.56	0.00
S-7	02/23/1993	210	13	2.2	5.4	12	NA	NA	33.33	8.86	24.47	0.00
S-7	06/07/1993	90	1.2	2.5	1.0	<0.5	NA	NA	33.33	10.58	22.75	0.00
S-7	08/13/1993	140	4.0	0.8	<0.5	0.5	NA	NA	33.33	11.34	21.99	0.00
S-7	11/18/1993	440	43	4.9	0.9	4.2	NA	NA	33.33	12.00	21.33	0.00
S-7	02/10/1994	250a	<0.5	<0.5	1.8	<0.5	NA	NA	33.33	9.88	23.45	0.00
S-7	05/03/1994	130	<0.5	<0.5	<0.5	<0.5	NA	NA	33.33	10.75	22.58	0.00
S-7	08/01/1994	250	4.8	<0.5	<0.5	<0.5	NA	NA	33.33	11.05	22.28	0.00
S-7	11/08/1994	NA	NA	NA	NA	NA	NA	NA	33.33	9.64	23.69	NA
S-7	02/03/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.33	8.53	24.80	0.00
S-7	08/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.33	11.10	22.23	0.00
S-7	02/02/1996	480	2.2	2.4	7.9	25	NA	NA	33.33	8.58	24.75	0.00
S-7	05/04/1996	NA	NA	NA	NA	NA	NA	NA	33.33	10.41	22.92	0.00
S-7	08/02/1996	300	20	2.2	3.8	7.9	21	11	33.33	11.18	22.15	0.00
S-7	10/02/1996	NA	NA	NA	NA	NA	NA	NA	33.33	12.12	21.21	0.00
S-7	01/08/1997	850	16	6.3	20	59	<25	NA	33.33	8.23	25.10	0.00
S-7	04/17/1997	NA	NA	NA	NA	NA	NA	NA	33.33	10.75	22.58	0.00
S-7	07/01/1997	120	2.4	<0.50	2.9	2.6	3.5	NA	33.33	11.40	21.93	0.00
S-7	10/07/1997	NA	NA	NA	NA	NA	NA	NA	33.33	11.50	21.83	0.00

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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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S-7 (D)	08/02/1996	340	22	2.2	4.4	8.9	20	NA	33.33	NA	NA	NA
S-7 (D)	01/08/1997	840	15	<5.0	21	63	25	NA	33.33	NA	NA	NA
S-7 (D)	07/01/1997	120	2.4	<0.50	2.9	2.6	<2.5	NA	33.33	NA	NA	NA

S-8	05/04/1992	1600	20	420	96	330	NA	NA	31.97	10.29	21.68	0.00
S-8	08/10/1992	1500	19	37	60	250	NA	NA	31.97	11.12	20.85	0.00
S-8	11/09/1992	710	5.7	24	28	120	NA	NA	31.97	10.71	21.26	0.00
S-8	02/23/1993	3800	40	54	68	260	NA	NA	31.97	6.04	25.93	0.00
S-8	06/07/1993	1200	13	19	65	150	NA	NA	31.97	10.06	21.91	0.00
S-8	08/13/1993	1300	21	23	49	250	NA	NA	31.97	10.56	21.41	0.00
S-8	11/18/1993	870	16	5.3	59	230	NA	NA	31.97	10.90	21.07	0.00
S-8	02/10/1994	2400	11	55	120	530	NA	NA	31.97	9.53	22.44	0.00
S-8	05/03/1994	3100	12	27	130	370	NA	NA	31.97	10.06	21.91	0.00
S-8	08/01/1994	1500	20	18	39	190	NA	NA	31.97	10.32	21.65	0.00
S-8	11/08/1994	2100	22	38	73	390	NA	NA	31.97	9.25	22.72	0.00
S-8	02/03/1995	4800	67	39	130	300	NA	NA	31.97	8.99	22.98	0.00
S-8	05/04/1995	2600	31	23	71	310	NA	NA	31.97	9.22	22.75	0.00
S-8	08/02/1995	1700	10	9.1	48	210	NA	NA	31.97	10.36	21.61	0.00
S-8	11/02/1995	1200	16	13	72	130	NA	NA	31.97	10.72	21.25	0.00
S-8	02/02/1996	7100	29	140	360	1300	NA	NA	31.97	8.92	23.05	0.00
S-8	05/04/1996	3500	13	27	110	400	<25	NA	31.97	9.86	22.11	0.00
S-8	08/02/1996	850	9.6	7.4	30	160	11	NA	31.97	10.30	21.67	0.00
S-8	10/02/1996	980	<5.0	11	13	92	<25	NA	31.97	10.71	21.26	0.00
S-8	01/08/1997	6400	88	48	190	500	<100	NA	31.97	8.88	23.09	0.00

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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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S-8	04/17/1997	1700	23	7.4	34	50	74	NA	31.97	10.00	21.97	0.00
S-8	07/01/1997	140	2.8	<0.50	<0.50	0.58	<2.5	NA	31.97	10.40	21.57	0.00
S-8	10/07/1997	300	2.7	0.63	4.6	8.4	<2.5	NA	31.97	10.50	21.47	0.00
S-8	01/07/1998	110	1.2	<0.50	<0.50	1.6	<2.5	NA	31.97	9.27	22.70	0.00
S-8	04/02/1998	4500	140	77	140	380	<12	NA	31.97	9.31	22.66	0.00
S-8	07/02/1998	330	4.2	0.79	1.7	2.3	4.8	NA	31.97	9.48	22.49	0.00
S-8	10/01/1998	52	0.76	<0.50	<0.50	0.70	<2.5	NA	31.97	10.08	21.89	0.00
S-8	01/12/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	31.97	10.50	21.47	0.00

S-8 (D)	02/10/1994	2400	11	46	100	440	NA	NA	31.97	NA	NA	NA
S-8 (D)	05/03/1994	3000	21	25	120	340	NA	NA	31.97	NA	NA	NA
S-8 (D)	11/08/1994	2100	20	31	75	390	NA	NA	31.97	NA	NA	NA
S-8 (D)	02/03/1995	3700	53	30	100	240	NA	NA	31.97	NA	NA	NA
S-8 (D)	05/04/1995	3300	38	26	89	390	NA	NA	31.97	NA	NA	NA
S-8 (D)	08/02/1995	1200	15	13	70	120	NA	NA	31.97	NA	NA	NA
S-8 (D)	02/02/1996	7800	33	160	400	1500	NA	NA	31.97	NA	NA	NA
S-8 (D)	05/04/1996	5100	19	37	190	690	<25	NA	31.97	NA	NA	NA
S-8 (D)	10/02/1996	1300	<5.0	10	28	180	<25	NA	31.97	NA	NA	NA
S-8 (D)	04/17/1997	1600	25	7.4	30	43	34	NA	31.97	NA	NA	NA
S-8 (D)	01/07/1998	150	1.8	0.6	<0.50	2.2	<2.5	NA	31.97	NA	NA	NA
S-8 (D)	07/02/1998	360	4.3	0.89	1.7	2.3	5.7	NA	31.97	NA	NA	NA

S-9	05/04/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.86	10.45	21.41	0.00
S-9	08/10/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.86	11.52	20.34	0.00



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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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S-9	11/09/1992	<50	<0.5	<0.5	<0.5	0.7	NA	NA	31.86	11.02	20.84	0.00
S-9	02/23/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.86	8.00	23.86	0.00
S-9	06/07/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.86	10.07	21.79	0.00
S-9	08/13/1993	140	<0.5	<0.5	<0.5	<0.5	NA	NA	31.86	10.92	20.94	0.00
S-9	11/18/1993	170	<0.5	<0.5	<0.5	<0.5	NA	NA	31.86	11.19	20.67	0.00
S-9	02/10/1994	140	<0.5	<0.5	<0.5	<0.5	NA	NA	31.86	9.16	22.70	0.00
S-9	05/03/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.86	10.03	21.83	0.00
S-9	08/01/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.86	10.52	21.34	0.00
S-9	11/08/1994	NA	NA	NA	NA	NA	NA	NA	31.86	9.08	22.78	0.00
S-9	02/03/1995	NA	NA	NA	NA	NA	NA	NA	31.86	8.37	23.49	0.00
S-9	08/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.86	9.35	22.51	0.00
S-9	02/02/1996	NA	NA	NA	NA	NA	NA	NA	31.86	7.53	24.33	0.00
S-9	05/04/1996	NA	NA	NA	NA	NA	NA	NA	31.86	9.60	22.26	0.00
S-9	08/02/1996	<50	<0.50	<0.50	<0.50	<0.50	12	NA	31.86	10.46	21.40	0.00
S-9	10/02/1996	NA	NA	NA	NA	NA	NA	NA	31.86	10.66	21.20	0.00
S-9	01/08/1997	NA	NA	NA	NA	NA	NA	NA	31.86	7.20	24.66	0.00
S-9	04/17/1997	NA	NA	NA	NA	NA	NA	NA	31.86	9.96	21.90	0.00
S-9	07/01/1997	<50	<0.50	<0.50	<0.50	<0.50	3.9	NA	31.86	10.64	21.22	0.00
S-9	10/07/1997	NA	NA	NA	NA	NA	NA	NA	31.86	10.63	21.23	0.00

S-10	05/04/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	32.95	8.54	24.41	0.00
S-10	08/10/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	32.95	10.43	22.52	0.00
S-10	11/09/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	32.95	9.14	23.81	0.00
S-10	02/23/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	32.95	6.72	26.23	0.00

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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-10	06/07/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	32.95	8.08	24.87	0.00
S-10	08/13/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	32.95	8.83	24.12	0.00
S-10	11/18/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	32.95	9.46	23.49	0.00
S-10	02/10/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	32.95	7.41	25.54	0.00
S-10	05/03/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	32.95	8.16	24.79	0.00
S-10	08/01/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	32.95	8.29	24.66	0.00
S-10	11/08/1994	NA	NA	NA	NA	NA	NA	NA	32.95	7.02	25.93	0.00
S-10	02/03/1995	NA	NA	NA	NA	NA	NA	NA	32.95	6.79	26.16	0.00
S-10	08/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	32.95	8.30	24.65	0.00
S-10	02/02/1996	NA	NA	NA	NA	NA	NA	NA	32.95	6.49	26.46	0.00
S-10	05/04/1996	NA	NA	NA	NA	NA	NA	NA	32.95	7.55	25.40	0.00
S-10	08/02/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	32.95	9.25	23.70	0.00
S-10	10/02/1996	NA	NA	NA	NA	NA	NA	NA	32.95	10.54	22.41	0.00
S-10	01/08/1997	NA	NA	NA	NA	NA	NA	NA	32.95	6.47	26.48	0.00
S-10	04/17/1997	NA	NA	NA	NA	NA	NA	NA	32.95	7.78	25.17	0.00
S-10	07/01/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	32.95	8.83	24.12	0.00
S-10	10/07/1997	NA	NA	NA	NA	NA	NA	NA	32.95	8.89	24.06	0.00
S-10	01/07/1998	NA	NA	NA	NA	NA	NA	NA	32.95	6.97	25.98	0.00
S-10	04/02/1998	NA	NA	NA	NA	NA	NA	NA	32.95	6.96	25.99	0.00
S-10	07/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	32.95	10.41	22.54	0.00
S-10	10/01/1998	NA	NA	NA	NA	NA	NA	NA	32.95	11.03	21.92	0.00
S-10	01/12/1999	NA	NA	NA	NA	NA	NA	NA	32.95	10.33	22.62	0.00
S-11	05/04/1992	1500	55	32	57	190	NA	NA	30.78	9.99	20.79	0.00

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S-11	08/10/1992	750	29	13	43	120	NA	NA	30.78	10.92	19.86	0.00
S-11	11/09/1992	4100	32	62	120	1100	NA	NA	30.78	10.44	20.34	0.00
S-11	02/23/1993	760	15	13	37	140	NA	NA	30.78	7.30	23.48	0.00
S-11	06/07/1993	1700	40	16	100	360	NA	NA	30.78	9.51	21.27	0.00
S-11	08/13/1993	60	0.9	<0.5	0.8	1.2	NA	NA	30.78	10.39	20.39	0.00
S-11	11/18/1993	150	7.8	1.0	9.0	12	NA	NA	30.78	10.64	20.14	0.00
S-11	02/10/1994	4400	53	19	160	390	NA	NA	30.78	8.50	22.28	0.00
S-11	05/03/1994	65	1.5	<0.5	0.53	0.59	NA	NA	30.78	9.42	21.36	0.00
S-11	08/01/1994	240	18	6.7	6.9	18	NA	NA	30.78	10.12	20.66	0.00
S-11	11/08/1994	490	14	5.2	15	47	NA	NA	30.78	8.84	21.94	0.00
S-11	02/03/1995	380	4.1	0.9	1.4	5.1	NA	NA	30.78	7.12	23.66	0.00
S-11	05/04/1995	110	1.3	<0.5	1.1	1.8	NA	NA	30.78	7.96	22.82	0.00
S-11	08/02/1995	230	22	11	13	35	NA	NA	30.78	9.88	20.90	0.00
S-11	11/02/1995	200	26	10	10	30	NA	NA	30.78	10.10	20.68	0.00
S-11	02/02/1996	110	2.9	1.0	2.6	6.5	NA	NA	30.78	7.33	23.45	0.00
S-11	05/04/1996	<50	0.70	0.54	0.82	2.6	7.5	NA	30.78	8.62	22.16	0.00
S-11	08/02/1996	200	11	4.6	12	38	10	NA	30.78	9.85	20.93	0.00
S-11	10/02/1996	290	20	6.2	16	48	8.4	NA	30.78	11.00	19.78	0.00
S-11	01/08/1997	56	2.0	<0.50	1.0	5.8	5.2	NA	30.78	6.20	24.58	0.00
S-11	04/17/1997	<50	0.88	<0.50	<0.50	<0.50	3.2	NA	30.78	8.81	21.97	0.00
S-11	07/01/1997	610	50	5.9	24	110	3.1	NA	30.78	10.47	20.31	0.00
S-11	10/07/1997	440	43	3.0	13	110	4.9	NA	30.78	10.32	20.46	0.00
S-11 (D)	06/07/1993	1600	51	16	83	300	NA	NA	30.78	NA	NA	NA

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S-11 (D)	08/13/1993	70	2.1	<0.5	0.9	2.1	NA	NA	30.78	NA	NA	NA
S-11 (D)	10/07/1997	360	39	2.0	7.2	74	4.9	NA	30.78	NA	NA	NA

SR-1	05/04/1992	NA	NA	NA	NA	NA	NA	NA	NA	9.02	NA	0.00
SR-1	08/10/1992	NA	NA	NA	NA	NA	NA	NA	NA	10.29	NA	0.00
SR-1	11/09/1992	NA	NA	NA	NA	NA	NA	NA	NA	10.92	NA	0.00
SR-1	02/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	6.64	NA	0.00
SR-1	06/07/1993	NA	NA	NA	NA	NA	NA	NA	NA	7.36	NA	0.00
SR-1	08/13/1993	NA	NA	NA	NA	NA	NA	NA	NA	7.96	NA	0.00
SR-1	11/18/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	10.02	NA	0.00
SR-1	02/10/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR-1	05/03/1994	NA	NA	NA	NA	NA	NA	NA	NA	8.28	NA	0.00
SR-1	08/01/1994	NA	NA	NA	NA	NA	NA	NA	NA	7.98	NA	0.00
SR-1	11/08/1994	NA	NA	NA	NA	NA	NA	NA	NA	7.75	NA	0.00
SR-1	02/03/1995	NA	NA	NA	NA	NA	NA	NA	NA	7.20	NA	0.00
SR-1	05/04/1995	NA	NA	NA	NA	NA	NA	NA	NA	4.10	NA	0.00
SR-1	08/02/1995	NA	NA	NA	NA	NA	NA	NA	NA	5.31	NA	0.00
SR-1	11/02/1995	NA	NA	NA	NA	NA	NA	NA	NA	10.62	NA	0.00
SR-1	02/02/1996	90	6.1	6.7	2.8	8.5	NA	NA	NA	7.30	NA	0.00
SR-1	05/04/1996	NA	NA	NA	NA	NA	NA	NA	NA	8.10	NA	0.00
SR-1	08/02/1996	NA	NA	NA	NA	NA	NA	NA	NA	8.10	NA	0.00
SR-1	10/02/1996	NA	NA	NA	NA	NA	NA	NA	NA	9.25	NA	0.00
SR-1	01/08/1997	NA	NA	NA	NA	NA	NA	NA	NA	7.18	NA	0.00
SR-1	04/17/1997	NA	NA	NA	NA	NA	NA	NA	NA	6.01	NA	0.00

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**2800 Telegraph Avenue**  
**Oakland, CA**  
**Wic #204-5508-2303**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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SR-1	07/01/1997	NA	NA	NA	NA	NA	NA	NA	NA	8.36	NA	0.00
SR-1	10/07/1997	NA	NA	NA	NA	NA	NA	NA	NA	9.22	NA	0.00
SR-1	01/07/1998	NA	NA	NA	NA	NA	NA	NA	NA	7.45	NA	0.00
SR-1	04/02/1998	NA	NA	NA	NA	NA	NA	NA	NA	7.43	NA	0.00
SR-1	07/02/1998	NA	NA	NA	NA	NA	NA	NA	NA	9.87	NA	0.00
SR-1	10/01/1998	NA	NA	NA	NA	NA	NA	NA	NA	10.42	NA	0.00
SR-1	01/12/1999	NA	NA	NA	NA	NA	NA	NA	NA	10.24	NA	0.00

SR-1 (D)	11/18/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA
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**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**2800 Telegraph Avenue**  
**Oakland, CA**  
**Wic #204-5508-2303**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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**Abbreviations:**

TPPH= Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

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

MTBE = methyl-tertiary-butyl ether

TOB = Top of Wellbox Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

**Notes:**

a = Chromatogram pattern indicated the presence of an unidentified hydrocarbon.



Sequoia  
Analytical

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

January 20, 1999

Fran Thie  
Blaine Technical Services, Inc.  
1680 Rogers Ave.  
San Jose, CA 95112

RE: Shell Oil Co./P901162

Dear Fran Thie

Enclosed are the results of analyses for sample(s) received by the laboratory on January 13, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Scott Forbes  
Project Manager

CA ELAP Certificate Number 2245





**Sequoia  
Analytical**

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Blaine Technical Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Shell Oil Co. Project Number: 990112-R2/Oakland Project Manager: Fran Thie	Sampled: 1/12/99 Received: 1/13/99 Reported: 1/20/99
---	---	--

### ANALYTICAL REPORT FOR P901162

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
S-5	P901162-01	Water	1/12/99
S-8	P901162-02	Water	1/12/99





Blaine Technical Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Shell Oil Co. Project Number: 990112-R2/Oakland Project Manager: Fran Thie	Sampled: 1/12/99 Received: 1/13/99 Reported: 1/20/99
---	---	--

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M  
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				<b><u>P901162-01</u></b>			<b><u>Water</u></b>	
<u>S-5</u> Gasoline	9010312	1/19/99	1/19/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		127	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		99.3	"	
				<b><u>P901162-02</u></b>			<b><u>Water</u></b>	
<u>S-8</u> Gasoline	9010312	1/19/99	1/19/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		127	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		101	"	





# Sequoia Analytical

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Blaine Technical Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Shell Oil Co. Project Number: 990112-R2/Oakland Project Manager: Fran Thie	Sampled: 1/12/99 Received: 1/13/99 Reported: 1/20/99
---	---	--

## Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9010312</b>		<b>Date Prepared: 1/19/99</b>			<b>Extraction Method: EPA 5030 waters</b>					
<b>Blank</b>		<b>9010312-BLK1</b>								
Gasoline	1/19/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.00				
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	300		380	"	65.0-135	127			
Surrogate: 4-Bromofluorobenzene	"	300		293	"	65.0-135	97.7			
<b>LCS</b>		<b>9010312-BS1</b>								
Gasoline	1/19/99	1000		999	ug/l	65.0-135	99.9			
Surrogate: 4-Bromofluorobenzene	"	300		306	"	65.0-135	102			
<b>Matrix Spike</b>		<b>9010312-MS1</b>		<b>P901162-01</b>						
Gasoline	1/19/99	1000	ND	969	ug/l	65.0-135	96.9			
Surrogate: 4-Bromofluorobenzene	"	300		292	"	65.0-135	97.3			
<b>Matrix Spike Dup</b>		<b>9010312-MSD1</b>		<b>P901162-01</b>						
Gasoline	1/19/99	1000	ND	948	ug/l	65.0-135	94.8	20.0	2.19	
Surrogate: 4-Bromofluorobenzene	"	300		297	"	65.0-135	99.0			





Blaine Technical Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Shell Oil Co. Project Number: 990112-R2/Oakland Project Manager: Fran Thie	Sampled: 1/12/99 Received: 1/13/99 Reported: 1/20/99
---	---	--

**Notes and Definitions**

#	Note
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference





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

**CHAIN OF CUSTODY RECORD**

Serial No: 990112 R2

Date:

Page 1 of 1

Site Address: 2800 Telegraph Ave., Oakland, CA

WIC#: 204-5508-2303

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: Sim Rosa

**Analysis Required**

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/802)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 / <u>MTBE</u>	Asbestos	Container Size	Preparation Used	Composite Y/N
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LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DI	TURN AROUND TIME
G.W. Monitoring <input checked="" type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	16 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as possible of 24/48 hr. TAT.

UST AGENCY:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/802)	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-5	1/13/99			W		3						X							9901162-01 13 11 35
S-8	1/13/99			W		3						X							↓ -02

Relinquished By (signature): <i>[Signature]</i>	Printed Name: <u>Sim Rosa</u>	Date: <u>1/13/99</u> Time: <u>10:15</u>	Received (signature): <i>[Signature]</i>	Printed Name: <u>Fletcher</u>	Date: <u>1/13/99</u> Time: <u>10:15</u>
Relinquished By (signature): <i>[Signature]</i>	Printed Name:	Date: <u>1/13/99</u> Time:	Received (signature): <i>[Signature]</i>	Printed Name: <u>M (Cory)</u>	Date: <u>1/13/99</u> Time: <u>11:35</u>
Relinquished By (signature): <i>[Signature]</i>	Printed Name: <u>M (Cory)</u>	Date: <u>1/13/99</u> Time: <u>11:35</u>	Received (signature): <i>[Signature]</i>	Printed Name: <u>Paul Becker</u>	Date: <u>1/13/99</u> Time: <u>12:30</u>

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

*[Handwritten notes and signatures]*  
1-13-1430  
Paul Becker 1/13/99 14:30