

C A M B R I A

ENVIRONMENTAL  
PROTECTION

July 14, 1999

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

59 JUL 16 PM 3: 01

Re: **First Quarter 1999 Monitoring Report**  
Shell-branded Service Station  
6039 College Avenue  
Oakland, California  
Incident #98995745  
Cambria Project #241-0503-002



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.

#### **FIRST QUARTER 1999 ACTIVITIES**

**Ground Water Monitoring:** Blaine Tech Services, Inc. (Blaine) of San Jose, California checked for separate-phase hydrocarbons (SPH), gauged water levels, and sampled selected site wells. Blaine emptied the skimmer of approximately 0.24 pounds of SPH and manually bailed an additional 0.08 pounds of SPH from well MW-4; no ground water sample was collected. In addition to the usual constituents, well MW-3 was also analyzed for semivolatile organic compounds by EPA Method 8270B and oil and grease by EPA Method 5520B&F. Only 22.2 parts per billion (ppb) of naphthalene and 19.4 ppb phenol were detected, and all other analytes were below detection limits. Blaine calculated ground water elevations and compiled the analytical data (Table 1). Cambria prepared a ground water elevation contour map (Figure 1). The Blaine report, presenting the laboratory report, is included as Attachment A.

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

**ANTICIPATED SECOND QUARTER 1999 ACTIVITIES**

**Ground Water Monitoring:** Blaine will measure and remove detected SPH, gauge all wells, sample selected site wells if no SPH are present, and tabulate the data. Cambria will prepare a monitoring report.

**CLOSING**



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

Sincerely,

**Cambria Environmental Technology, Inc**

Darryk Ataide, REA I  
Project Manager

Ailsa S. Le May, R.G.  
Senior Geologist

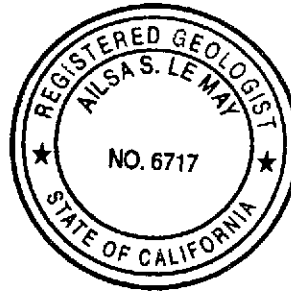


Figure: 1 - Ground Water Elevation Contour Map

Attachment: A - Blaine Ground Water Monitoring Report

cc: Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, California 90749

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**EXPLANATION**

MW-1 ◆

Monitoring well location



Ground water flow direction

XX.XX

Ground water elevation contour, in feet above mean sea level (msl), dashed where inferred

SPH

Separate Phase Hydrocarbons present

Well	Well designation
ELEV	Ground water elevation (msl)
Benzene	Benzene and MTBE concentrations are in parts per billion (ppb); date is most recent sampling unless otherwise noted.
MTBE	

Well designation

Ground water elevation (msl)

Benzene and MTBE concentrations are in parts per billion (ppb); date is most recent sampling unless otherwise noted.



FLORIO STREET

commercial properties

residential and commercial properties

CLAREMONT AVENUE

COLLEGE AVENUE

approximate 1940 pump island and tank locations

approximate 1957 pump island and tank locations

approximate 1940 and 1957 waste oil tank locations

pump island canopy

existing fuel tanks

cashier

garage

fence

entrance to 6023 College

entrance to 6674 Claremont

parking

fence

MW-6	◆
ELEV	340 - 1/20/98
Benzene	<0.50 - 1/20/98
MTBE	<0.50 - 1/20/98

MW-3	◆
ELEV	178.97
Benzene	380 - 1/20/98
MTBE	50,000 - 1/20/98

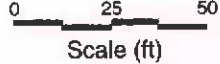
850  
27,600

MW-2	◆
ELEV	179.26
Benzene	<0.50 - 2/20/97
MTBE	<2.5 - 2/20/97

MW-4	◆
ELEV	177.81
Benzene	SPH
MTBE	SPH

MW-5	◆
ELEV	177.36
Benzene	<5.00
MTBE	2.850

MW-1	◆
ELEV	180.27
Benzene	<0.50 - 2/20/97
MTBE	<2.5 - 2/20/97



FIGURE

1

04/15/99

**Shell-branded Service Station**  
6039 College Avenue  
Oakland, California  
Incident #98995745



CAMBRIA

**Ground Water Elevation Contour Map**

February 3, 1999

G:\D\AK6038\FIGURES\11 DM99- MP-A1

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 cursive script, appearing to read "D. Kerwin".

Deidre Kerwin  
Operations Manager

DK/ld

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

cc: Anni Kreml  
Cambria Environmental Technologies, Inc.  
1144 65<sup>th</sup> Street, Suite C  
Oakland, Ca 94608

**ATTACHMENT A**

Blaine Ground Water Monitoring Report

**BLAINE**  
TECH SERVICES INC.



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

March 17, 1999

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

First Quarter 1999 Groundwater Monitoring at  
Shell-branded Service Station  
6039 College Avenue  
Oakland, CA

Monitoring performed on February 3, 1999

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Groundwater Monitoring Report **990203-K-3**

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.

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
**Oakland, CA**  
**Wic #204-5508-3301**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (mg/L)
MW-1	02/15/1990	95	650	ND	0.67	0.37	3.2	NA	NA	195.89	17.73	NA	178.16	0.00	NA
MW-1	04/19/1990	NA	NA	NA	NA	NA	NA	NA	NA	195.89	18.51	NA	177.38	0.00	NA
MW-1	05/14/1990	95	ND	0.7	0.57	0.71	3.5	NA	NA	195.89	18.92	NA	176.97	0.00	NA
MW-1	06/21/1990	NA	NA	NA	NA	NA	NA	NA	NA	195.89	18.21	NA	177.68	0.00	NA
MW-1	09/12/1990	ND	84	ND	ND	ND	ND	NA	NA	195.89	19.81	NA	176.08	0.00	NA
MW-1	11/27/1990	NA	NA	NA	NA	NA	NA	NA	NA	195.89	20.39	NA	175.50	0.00	NA
MW-1	03/08/1991	ND	50	ND	ND	ND	ND	NA	NA	195.89	16.85	NA	179.04	0.00	NA
MW-1	06/03/1991	ND	ND	ND	ND	ND	ND	NA	NA	195.89	17.82	NA	178.07	0.00	NA
MW-1	08/30/1991	16.85	520	ND	ND	ND	ND	NA	NA	195.89	19.87	NA	176.02	0.00	NA
MW-1	11/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	20.58	NA	175.31	0.00	NA
MW-1	03/18/1992	<30	<50	<0.3	<0.3	<0.3	<0.3	NA	NA	195.89	13.55	NA	182.34	0.00	NA
MW-1	05/28/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	17.08	NA	178.81	0.00	NA
MW-1	08/19/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	19.07	NA	176.82	0.00	NA
MW-1	11/17/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	20.11	NA	175.78	0.00	NA
MW-1	02/12/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	12.10	NA	183.79	0.00	NA
MW-1	06/10/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	14.87	NA	181.02	0.00	NA
MW-1	08/18/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	16.90	NA	178.99	0.00	NA
MW-1	11/19/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	19.72	NA	176.17	0.00	NA
MW-1	02/28/1994	<50	NA	<0.5	<0.5	<0.5	1.7	NA	NA	195.89	15.08	NA	180.81	0.00	NA
MW-1	05/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	17.20	NA	178.69	0.00	NA
MW-1	08/10/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	18.76	NA	177.13	0.00	NA
MW-1	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	16.00	NA	179.89	0.00	NA
MW-1	02/01/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	10.18	NA	185.71	0.00	NA
MW-1	05/10/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	11.88	NA	184.01	0.00	NA
MW-1	08/24/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	15.60	NA	180.29	0.00	NA
MW-1	11/10/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	18.24	NA	177.65	0.00	NA
MW-1	02/24/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	9.88	NA	186.01	0.00	NA
MW-1	05/22/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	195.89	12.24	NA	183.65	0.00	NA
MW-1	08/19/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	195.89	15.86	NA	180.03	0.00	NA
MW-1	12/05/1996	160	NA	7.3	8.2	5.5	23	<2.5	NA	195.89	16.21	NA	179.68	0.00	NA
MW-1	01/08/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	195.89	9.73	NA	186.16	0.00	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
**Oakland, CA**  
**Wic #204-5508-3301**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (mg/L)
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MW-1	02/20/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	195.89	11.60	NA	184.29	0.00	NA
MW-1	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	195.89	15.02	NA	180.87	0.00	NA
MW-1	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	195.89	17.20	NA	178.69	0.00	NA
MW-1	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	195.89	16.02	NA	179.87	0.00	NA
MW-1	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	195.89	9.35	NA	186.54	0.00	NA
MW-1	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	195.89	11.75	NA	184.14	0.00	NA
MW-1	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	195.89	13.32	NA	182.57	0.00	NA
MW-1	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	195.89	14.01	NA	181.88	0.00	NA
MW-1	02/03/1999	NA	NA	NA	NA	NA	NA	NA	NA	195.89	15.62	NA	180.27	0.00	NA

MW-2	02/15/1990	ND	560	ND	ND	ND	ND	NA	NA	194.27	16.90	NA	177.37	0.00	NA
MW-2	04/19/1990	NA	NA	NA	NA	NA	NA	NA	NA	194.27	17.69	NA	176.58	0.00	NA
MW-2	05/14/1990	ND	ND	ND	ND	ND	ND	NA	NA	194.27	18.01	NA	176.26	0.00	NA
MW-2	06/21/1990	NA	NA	NA	NA	NA	NA	NA	NA	194.27	17.39	NA	176.88	0.00	NA
MW-2	09/12/1990	ND	ND	ND	ND	ND	ND	NA	NA	194.27	19.00	NA	175.27	0.00	NA
MW-2	11/27/1990	ND	ND	ND	ND	ND	ND	NA	NA	194.27	19.44	NA	174.83	0.00	NA
MW-2	03/08/1991	ND	ND	ND	ND	ND	ND	NA	NA	194.27	15.96	NA	178.31	0.00	NA
MW-2	06/03/1991	ND	ND	ND	ND	ND	ND	NA	NA	194.27	17.00	NA	177.27	0.00	NA
MW-2	08/30/1991	ND	ND	ND	ND	ND	ND	NA	NA	194.27	18.95	NA	175.32	0.00	NA
MW-2	11/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	19.55	NA	174.72	0.00	NA
MW-2	03/18/1992	<30	NA	<0.3	<0.3	<0.3	<0.3	NA	NA	194.27	12.91	NA	181.36	0.00	NA
MW-2	05/28/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	16.25	NA	178.02	0.00	NA
MW-2	08/19/1992	<50	NA	<0.5	2	1.2	1.9	NA	NA	194.27	18.21	NA	176.06	0.00	NA
MW-2	11/17/1992	<50	NA	<0.5	2	1.2	1.9	NA	NA	194.27	19.15	NA	175.12	0.00	NA
MW-2	02/12/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	11.60	NA	182.67	0.00	NA
MW-2	06/10/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	14.14	NA	180.13	0.00	NA
MW-2	08/18/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	16.10	NA	178.17	0.00	NA
MW-2	11/19/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	18.77	NA	175.50	0.00	NA
MW-2	02/28/1994	<50	NA	<0.5	<0.5	<0.5	1.6	NA	NA	194.27	14.35	NA	179.92	0.00	NA
MW-2	05/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	16.34	NA	177.93	0.00	NA
MW-2	08/10/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	15.79	NA	178.48	0.00	NA



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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (mg/L)
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MW-2	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	15.04	NA	179.23	0.00	NA
MW-2	02/01/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	10.08	NA	184.19	0.00	NA
MW-2	05/10/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	11.68	NA	182.59	0.00	NA
MW-2	08/24/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	14.94	NA	179.33	0.00	NA
MW-2	11/10/1995	<50	NA	1.7	0.8	1.4	4.9	NA	NA	194.27	13.36	NA	180.91	0.00	NA
MW-2	02/24/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	9.90	NA	184.37	0.00	NA
MW-2	05/22/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	194.27	11.80	NA	182.47	0.00	NA
MW-2	08/19/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	194.27	15.08	NA	179.19	0.00	NA
MW-2	12/05/1996	<50	NA	1.5	1.6	1.2	5.2	<2.5	NA	194.27	15.16	NA	179.11	0.00	NA
MW-2	01/08/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	194.27	9.76	NA	184.51	0.00	NA
MW-2	02/20/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	194.27	11.47	NA	182.80	0.00	NA
MW-2	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	194.27	14.30	NA	179.97	0.00	NA
MW-2	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	194.27	16.33	NA	177.94	0.00	NA
MW-2	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	194.27	15.54	NA	178.73	0.00	NA
MW-2	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	194.27	9.43	NA	184.84	0.00	NA
MW-2	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	194.27	11.45	NA	182.82	0.00	NA
MW-2	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	194.27	12.71	NA	181.56	0.00	NA
MW-2	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	194.27	13.98	NA	180.29	0.00	NA
MW-2	02/03/1999	NA	NA	NA	NA	NA	NA	NA	NA	194.27	15.01	NA	179.26	0.00	NA

MW-3	02/15/1990	4,700	3,100	320	29	110	33	NA	NA	192.52	15.81	NA	176.71	0.00	NA
MW-3	04/19/1990	NA	NA	NA	NA	NA	NA	NA	NA	192.52	16.57	NA	175.95	0.00	NA
MW-3	05/14/1990	1,400	60	130	8.6	40	17	NA	NA	192.52	16.97	NA	175.55	0.00	NA
MW-3	06/21/1990	NA	NA	NA	NA	NA	NA	NA	NA	192.52	16.27	NA	176.25	0.00	NA
MW-3	09/12/1990	2,000	1500	58	5.8	16	15	NA	NA	192.52	18.78	NA	173.74	0.00	NA
MW-3	11/27/1990	540	240	18	1.5	8.7	2.5	NA	NA	192.52	18.27	NA	174.25	0.00	NA
MW-3	03/08/1991	3,400	2100	630	33	270	18	NA	NA	192.52	14.86	NA	177.66	0.00	NA
MW-3	06/03/1991	1,700	690a	260	13	98	24	NA	NA	192.52	15.84	NA	176.68	0.00	NA
MW-3	08/30/1991	870	370a	44	6.1	10	2.9	NA	NA	192.52	17.79	NA	174.73	0.00	NA
MW-3	11/22/1991	310	140	18	1.2	3.3	2.9	NA	NA	192.52	18.40	NA	174.12	0.00	NA
MW-3	03/18/1992	67,100	1900	620	28	220	38	NA	NA	192.52	12.03	NA	180.49	0.00	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (mg/L)
MW-3	05/28/1992	2,300	1100a	200	9	71	17	NA	NA	192.52	15.16	NA	177.36	0.00	NA
MW-3	08/19/1992	5,700	1000a	71	77	52	130	NA	NA	192.52	17.03	NA	175.49	0.00	NA
MW-3	11/17/1992	3,600	160a	16	8.6	24	50	NA	NA	192.52	17.94	NA	174.58	0.00	NA
MW-3	02/12/1993	4,700	560a	820	58	130	77	NA	NA	192.52	9.16	NA	183.36	0.00	NA
MW-3	06/10/1993	2,200	NA	310	23	89	23	NA	NA	192.52	13.20	NA	179.32	0.00	NA
MW-3	08/18/1993	260	NA	27	2	7	2.2	NA	NA	192.52	14.93	NA	177.59	0.00	NA
MW-3	11/19/1993	1,500a	NA	24	54	37	17	NA	NA	192.52	17.58	NA	174.94	0.00	NA
MW-3	02/28/1994	2,700	NA	65	5.2	16	6.3	NA	NA	192.52	13.30	NA	179.22	0.00	NA
MW-3	05/04/1994	780	NA	120	7.5	21	6.9	NA	NA	192.52	15.25	NA	177.27	0.00	NA
MW-3	08/10/1994	920	NA	20	2.3	3	2.2	NA	NA	192.52	16.63	NA	175.89	0.00	NA
MW-3	11/08/1994	1,300	NA	180	16	7	12	NA	NA	192.52	13.88	NA	178.64	0.00	NA
MW-3	02/01/1995	1,400	NA	210	8.5	11	8.7	NA	NA	192.52	9.25	NA	183.27	0.00	NA
MW-3	05/10/1995	460	NA	97	10	1	19	NA	NA	192.52	10.76	NA	181.74	0.00	NA
MW-3	08/24/1995	640	NA	68	21	14	19	NA	NA	192.52	13.90	NA	178.62	0.00	NA
MW-3	11/10/1995	350	NA	15	2.3	1.2	2.5	NA	NA	192.52	16.20	NA	176.32	0.00	NA
MW-3	02/24/1996	3,300	NA	240	53	38	55	NA	NA	192.52	8.93	NA	183.59	0.00	NA
MW-3	05/22/1996	1,300	NA	110	15	<10	<10	3,500	NA	192.52	10.86	NA	181.66	0.00	NA
MW-3	08/19/1996	350	NA	15	3.3	3.4	3.3	340	NA	192.52	13.97	NA	178.55	0.00	NA
MW-3	12/05/1996	290	NA	12	7.6	5.4	16	370	NA	192.52	14.06	NA	178.46	0.00	NA
MW-3	02/20/1997	980	NA	69	7.9	14	15	3,200	NA	192.52	10.60	NA	181.92	0.00	NA
MW-3	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	192.52	13.26	NA	179.26	0.00	NA
MW-3	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	192.52	15.21	NA	177.31	0.00	NA
MW-3	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	192.52	14.49	NA	178.03	0.00	NA
MW-3	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	192.52	8.43	NA	184.09	0.00	NA
MW-3	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	192.52	10.55	NA	181.97	0.00	NA
MW-3	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	192.52	11.80	NA	180.72	0.00	NA
MW-3	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	192.52	11.97	NA	180.55	0.00	NA
MW-3	02/03/1999	<10000	NA	840	131	<100	316	27600	NA	192.52	13.55	NA	178.97	0.00	2.3
MW-4	02/15/1990	ND	1200	ND	ND	ND	ND	NA	NA	193.37	16.73	NA	176.65	0.00	NA
MW-4	04/19/1990	NA	NA	NA	NA	NA	NA	NA	NA	193.37	17.48	NA	175.89	0.00	NA

*annual*  
*Wic #204-5508-3301*

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
**Oakland, CA**  
**Wic #204-5508-3301**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (mg/L)
MW-4	05/14/1990	650	350	160	7	1.9	3.1	NA	NA	193.37	17.88	NA	175.49	0.00	NA
MW-4	06/21/1990	NA	NA	NA	NA	NA	NA	NA	NA	193.37	17.18	NA	176.19	0.00	NA
MW-4	09/12/1990	440	280	91	1.1	0.75	0.79	NA	NA	193.37	17.85	NA	175.52	0.00	NA
MW-4	11/27/1990	470	2400	64	1.2	0.8	2.7	NA	NA	193.37	19.16	NA	174.21	0.00	NA
MW-4	03/08/1991	1,100	2600	330	3.5	88	5.8	NA	NA	193.37	15.77	NA	177.60	0.00	NA
MW-4	06/03/1991	670	1100	240	2.3	1.6	2.3	NA	NA	193.37	16.77	NA	176.60	0.00	NA
MW-4	08/30/1991	570	280	64	1.8	0.9	0.9	NA	NA	193.37	18.71	NA	174.66	0.00	NA
MW-4	11/22/1991	NA	NA	NA	NA	NA	NA	NA	NA	193.37	NA	NA	NA	0.00	NA
MW-4	01/15/1992	NA	NA	NA	NA	NA	NA	NA	NA	193.37	NA	NA	NA	NA	NA
MW-4	02/15/1992	NA	NA	NA	NA	NA	NA	NA	NA	193.37	NA	NA	NA	NA	NA
MW-4	03/18/1992	NA	NA	NA	NA	NA	NA	NA	NA	193.37	13.15	NA	180.41	0.24	NA
MW-4	04/29/1992	NA	NA	NA	NA	NA	NA	NA	NA	193.37	NA	NA	NA	NA	NA
MW-4	05/28/1992	NA	NA	NA	NA	NA	NA	NA	NA	193.37	16.22	NA	177.25	0.12	NA
MW-4	08/19/1992	NA	NA	NA	NA	NA	NA	NA	NA	193.37	18.05	NA	175.39	0.09	NA
MW-4	11/17/1992	NA	NA	NA	NA	NA	NA	NA	NA	193.37	18.89	NA	174.48	NA	NA
MW-4	02/12/1993	NA	NA	NA	NA	NA	NA	NA	NA	193.37	11.78	NA	181.59	<0.01	NA
MW-4	06/10/1993	NA	NA	NA	NA	NA	NA	NA	NA	193.37	14.20	NA	179.17	0.02	NA
MW-4	08/18/1993	NA	NA	NA	NA	NA	NA	NA	NA	193.37	15.95	NA	177.43	0.01	NA
MW-4	11/19/1993	NA	NA	NA	NA	NA	NA	NA	NA	193.37	18.48	NA	174.90	0.01	NA
MW-4	02/28/1994	NA	NA	NA	NA	NA	NA	NA	NA	193.37	14.60	NA	178.77	0.01	NA
MW-4	05/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	193.37	16.15	NA	177.22	<0.01	NA
MW-4	08/10/1994	NA	NA	NA	NA	NA	NA	NA	NA	193.37	17.58	NA	175.81	0.02	NA
MW-4	11/10/1994	NA	NA	NA	NA	NA	NA	NA	NA	193.37	15.05	NA	178.36	0.05	NA
MW-4	02/01/1995	NA	NA	NA	NA	NA	NA	NA	NA	193.37	10.71	NA	182.69	0.04	NA
MW-4	05/10/1995	NA	NA	NA	NA	NA	NA	NA	NA	193.37	11.90	NA	181.52	0.06	NA
MW-4	08/24/1995	NA	NA	NA	NA	NA	NA	NA	NA	193.37	14.97	NA	178.42	0.02	NA
MW-4	11/10/1995	4,700	NA	100	22	23	38	NA	NA	193.37	17.27	NA	176.10	<0.01	NA
MW-4	02/24/1996	NA	NA	NA	NA	NA	NA	NA	NA	193.37	10.44	NA	182.95	0.03	NA
MW-4	05/22/1996	NA	NA	NA	NA	NA	NA	NA	NA	193.37	11.88	NA	181.51	0.03	NA
MW-4	08/19/1996	NA	NA	NA	NA	NA	NA	NA	NA	193.37	15.23	NA	178.16	0.02	NA
MW-4	12/05/1996	NA	NA	NA	NA	NA	NA	NA	NA	193.37	14.70	NA	178.69	0.02	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
**Oakland, CA**  
**Wic #204-5508-3301**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (mg/L)
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MW-4	01/08/1997	<10,000	NA	<100	<100	<100	<100	24,000	NA	193.37	11.60	NA	181.79	0.02	NA
MW-4	02/20/1997	<10,000	NA	490	<100	<100	<100	59,000	NA	193.37	11.91	NA	181.46	0.00	NA
MW-4	05/30/1997	<2,000	NA	72	<20	<20	<20	6,100	NA	193.37	14.68	NA	178.69	0.00	NA
MW-4	08/18/1997	<5,000	NA	150	570	<50	130	31,000	NA	193.37	15.07	NA	178.30	0.00	NA
MW-4	11/03/1997	32,000	NA	1,100	6,100	640	3,600	78,000	NA	193.37	15.87	NA	177.50	0.00	NA
MW-4	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	193.37	10.25	NA	183.62	0.62	NA
MW-4	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	193.37	11.62	NA	181.80	0.06	NA
MW-4	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	193.37	13.93	NA	179.51	0.09	NA
MW-4	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	193.37	14.07	14.03	179.33	0.04	NA
MW-4	12/09/1998	NA	NA	NA	NA	NA	NA	NA	NA	193.37	15.84	15.81	177.55	0.03	NA
MW-4	02/03/1999	NA	NA	NA	NA	NA	NA	NA	NA	193.37	15.58	15.55	177.81	0.03	NA

MW-5	08/30/1991	ND	80	ND	ND	ND	ND	NA	NA	190.35	16.74	NA	173.61	0.00	NA
MW-5	11/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	17.27	NA	173.08	0.00	NA
MW-5	03/18/1992	<30	<50	<0.3	<0.3	<0.3	<0.3	NA	NA	190.35	11.28	NA	179.07	0.00	NA
MW-5	05/28/1992	Well Inaccessible		NA	NA	NA	NA	NA	NA	190.35	NA	NA	NA	0.00	NA
MW-5	08/19/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	15.99	NA	174.36	0.00	NA
MW-5	11/17/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	16.84	NA	173.51	0.00	NA
MW-5	02/12/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	10.30	NA	180.05	0.00	NA
MW-5	06/10/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	12.36	NA	177.99	0.00	NA
MW-5	08/18/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	14.02	NA	176.33	0.00	NA
MW-5	11/19/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	16.50	NA	173.85	0.00	NA
MW-5	02/28/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	12.55	NA	177.80	0.00	NA
MW-5	05/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	14.27	NA	176.08	0.00	NA
MW-5	08/10/1994	70a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	15.60	NA	174.75	0.00	NA
MW-5	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	12.85	NA	177.50	0.00	NA
MW-5	02/01/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	8.98	NA	181.37	0.00	NA
MW-5	05/10/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	10.16	NA	180.19	0.00	NA
MW-5	08/24/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	12.98	NA	177.37	0.00	NA
MW-5	11/10/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	15.12	NA	175.23	0.00	NA
MW-5	02/24/1996	NA	NA	NA	NA	NA	NA	NA	NA	190.35	NA	NA	NA	0.00	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
**Oakland, CA**  
**Wic #204-5508-3301**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (mg/L)
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MW-5	05/22/1996	<2,000	NA	<20	<20	<20	<20	9,800	9,800	190.35	10.10	NA	180.25	0.00	9,800
MW-5	08/19/1996	<2,500	NA	<25	<25	<25	<25	13,000	13,000	190.35	13.09	NA	177.26	0.00	13,000
MW-5	12/05/1996	<500	NA	<5.0	<5.0	<5.0	<5.0	2,800	2,800	190.35	13.31	NA	177.04	0.00	2,800
MW-5	02/20/1997	<1,000	NA	<10	<10	<10	<10	5,600	5,600	190.35	9.55	NA	180.80	0.00	5,600
MW-5	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	190.35	12.40	NA	177.95	0.00	NA
MW-5	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	190.35	14.19	NA	176.16	0.00	NA
MW-5	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	190.35	13.66	NA	176.69	0.00	NA
MW-5	01/20/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	1,600	NA	190.35	8.06	NA	182.29	0.00	NA
MW-5	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	190.35	9.95	NA	180.40	0.00	NA
MW-5	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	190.35	11.10	NA	179.25	0.00	NA
MW-5	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	190.35	12.21	NA	178.14	0.00	NA
MW-5	02/03/1999	<500	NA	<5.00	<5.00	<5.00	<5.00	2,800	NA	190.35	12.99	NA	177.36	0.00	2,4

MW-6	09/21/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	189.05	14.64	NA	174.41	0.00	NA
MW-6	11/19/1993	NA	NA	NA	NA	NA	NA	NA	NA	189.05	NA	NA	NA	0.00	NA
MW-6	02/28/1994	98a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	189.05	12.18	NA	176.87	0.00	NA
MW-6	05/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	189.05	13.62	NA	175.43	0.00	NA
MW-6	08/10/1994	80a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	189.05	14.98	NA	174.07	0.00	NA
MW-6	11/08/1994	NA	NA	NA	NA	NA	NA	NA	NA	189.05	12.20	NA	176.85	0.00	NA
MW-6	02/01/1995	120	NA	3.5	21	3.4	22	NA	NA	189.05	8.70	NA	180.35	0.00	NA
MW-6	05/10/1995	NA	NA	NA	NA	NA	NA	NA	NA	189.05	9.86	NA	179.19	0.00	NA
MW-6	08/24/1995	80	NA	<0.5	<0.5	1.8	2.4	NA	NA	189.05	12.46	NA	176.59	0.00	NA
MW-6	11/10/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	189.05	14.56	NA	174.49	0.00	NA
MW-6	11/10/1995	60	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	189.05	14.56	NA	174.49	0.00	NA
MW-6	02/24/1996	NA	NA	NA	NA	NA	NA	NA	NA	189.05	NA	NA	NA	0.00	NA
MW-6	05/22/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	290	NA	189.05	10.23	NA	178.82	0.00	NA
MW-6	08/19/1996	<1,250	NA	<12	<12	<12	<12	1,100	NA	189.05	12.61	NA	176.44	0.00	NA
MW-6	12/05/1996	<125	NA	<1.2	<1.2	<1.2	<1.2	440	NA	189.05	12.47	NA	176.58	0.00	NA
MW-6	02/20/1997	<100	NA	<1.0	<1.0	<1.0	<1.0	480	NA	189.05	9.85	NA	179.20	0.00	NA
MW-6	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	189.05	11.96	NA	177.09	0.00	NA
MW-6	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	189.05	13.65	NA	175.40	0.00	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
**Oakland, CA**  
**Wic #204-5508-3301**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (mg/L)
MW-6	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	189.05	NA	NA	NA	0.00	NA
MW-6	01/20/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	340	NA	189.05	7.76	NA	181.29	0.00	NA
MW-6	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	189.05	9.85	NA	179.20	0.00	NA
MW-6	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	189.05	10.99	NA	178.06	0.00	NA
MW-6	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	189.05	11.36	NA	177.69	0.00	NA
MW-6	02/03/1999	Well Inaccessible		NA	NA	NA	NA	NA	NA	189.05	NA	NA	NA	NA	NA
T-1	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	02/03/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	02/03/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
BH-A	09/09/1993	4,900	2,900a	18	<5	54	11	NA	NA	NA	16.50	NA	NA	NA	NA
BH-B	09/09/1993	<50	150	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	15.85	NA	NA	NA	NA
BH-C	09/10/1993	640a	100	3.5	<0.5	0.6	<0.5	NA	NA	NA	15.80	NA	NA	NA	NA

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (mg/L)
BH-D	09/10/1993	24,000a	25,000a	720	86	44	11	NA	NA	NA	14.20	NA	NA	NA	NA

Abbreviations:

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

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

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

MTBE = methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

a = Chromatogram patterns indicate an unidentified hydrocarbon.



Sequoia  
Analytical

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite B  
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

February 24, 1999

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

RE: Shell Oil Co./P902146

Dear Fran Thie

Enclosed are the results of analyses for sample(s) received by the laboratory on February 5, 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

680 Chesapeake Drive  
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819 Striker Avenue, Suite 8  
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
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Blaine Technical Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Shell Oil Co. Project Number: 6039 College Ave., Oakland/990203-K3 Project Manager: Fran Thie	Sampled: 2/3/99 Received: 2/5/99 Reported: 2/24/99
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## ANALYTICAL REPORT FOR P902146

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-3	P902146-01	Water	2/3/99
MW-5	P902146-02	Water	2/3/99





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404 N. Wiget Lane  
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Walnut Creek, CA 94598  
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Blaine Technical Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Shell Oil Co. Project Number: 6039 College Ave., Oakland/990203-K3 Project Manager: Fran Thie	Sampled: 2/3/99 Received: 2/5/99 Reported: 2/24/99
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## 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>MW-3</b>				<b>P902146-01</b>			<b>Water</b>	
Gasoline	9020379	2/17/99	2/17/99		10000	ND	ug/l	
Benzene	"	"	"		100	840	"	
Toluene	"	"	"		100	131	"	
Ethylbenzene	"	"	"		100	ND	"	
Xylenes (total)	"	"	"		100	316	"	
Methyl tert-butyl ether	"	"	"		400	27600	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		103	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		101	"	
<b>MW-5</b>				<b>P902146-02</b>			<b>Water</b>	
Gasoline	9020379	2/17/99	2/17/99		500	ND	ug/l	
Benzene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		5.00	ND	"	
Methyl tert-butyl ether	"	"	"		20.0	2850	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		109	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		99.3	"	





Blaine Technical Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Shell Oil Co. Project Number: 6039 College Ave., Oakland/990203-K3 Project Manager: Fran Thie	Sampled: 2/3/99 Received: 2/5/99 Reported: 2/24/99
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**Semivolatile Organic Compounds by EPA Method 8270B  
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>MW-3</b>				<b>P902146-01</b>			<b>Water</b>	
Acenaphthene	9020211	2/9/99	2/22/99		10.0	ND	ug/l	
Acenaphthylene	"	"	"		10.0	ND	"	
Anthracene	"	"	"		10.0	ND	"	
Benzidine	"	"	"		50.0	ND	"	
Benzoic acid	"	"	"		50.0	ND	"	
Benzo (a) anthracene	"	"	"		10.0	ND	"	
Benzo (b) fluoranthene	"	"	"		10.0	ND	"	
Benzo (k) fluoranthene	"	"	"		10.0	ND	"	
Benzo (g,h,i) perylene	"	"	"		10.0	ND	"	
Benzo (a) pyrene	"	"	"		10.0	ND	"	
Benzyl alcohol	"	"	"		20.0	ND	"	
Bis(2-chloroethoxy)methane	"	"	"		10.0	ND	"	
Bis(2-chloroethyl)ether	"	"	"		10.0	ND	"	
Bis(2-chloroisopropyl)ether	"	"	"		10.0	ND	"	
Bis(2-ethylhexyl)phthalate	"	"	"		10.0	ND	"	
4-Bromophenyl phenyl ether	"	"	"		10.0	ND	"	
Butyl benzyl phthalate	"	"	"		10.0	ND	"	
4-Chloroaniline	"	"	"		20.0	ND	"	
4-Chloro-3-methylphenol	"	"	"		20.0	ND	"	
2-Chloronaphthalene	"	"	"		10.0	ND	"	
2-Chlorophenol	"	"	"		10.0	ND	"	
4-Chlorophenyl phenyl ether	"	"	"		10.0	ND	"	
Chrysene	"	"	"		10.0	ND	"	
Dibenz (a,h) anthracene	"	"	"		10.0	ND	"	
Dibenzofuran	"	"	"		10.0	ND	"	
Di-n-butyl phthalate	"	"	"		10.0	ND	"	
1,2-Dichlorobenzene	"	"	"		10.0	ND	"	
1,3-Dichlorobenzene	"	"	"		10.0	ND	"	
1,4-Dichlorobenzene	"	"	"		10.0	ND	"	
3,3'-Dichlorobenzidine	"	"	"		20.0	ND	"	
2,4-Dichlorophenol	"	"	"		10.0	ND	"	
Diethyl phthalate	"	"	"		10.0	ND	"	
2,4-Dimethylphenol	"	"	"		10.0	ND	"	
Dimethyl phthalate	"	"	"		10.0	ND	"	
4,6-Dinitro-2-methylphenol	"	"	"		50.0	ND	"	
2,4-Dinitrophenol	"	"	"		50.0	ND	"	
2,4-Dinitrotoluene	"	"	"		10.0	ND	"	
2,6-Dinitrotoluene	"	"	"		10.0	ND	"	
Di-n-octyl phthalate	"	"	"		10.0	ND	"	
1,2-Diphenylhydrazine	"	"	"		20.0	ND	"	
Fluoranthene	"	"	"		10.0	ND	"	





Blaine Technical Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Shell Oil Co. Project Number: 6039 College Ave., Oakland/990203-K3 Project Manager: Fran Thie	Sampled: 2/3/99 Received: 2/5/99 Reported: 2/24/99
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**Semivolatile Organic Compounds by EPA Method 8270B  
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>MW-3 (continued)</b>				<b>P902146-01</b>			<b>Water</b>	
Fluorene	9020211	2/9/99	2/22/99		10.0	ND	ug/l	
Hexachlorobenzene	"	"	"		10.0	ND	"	
Hexachlorobutadiene	"	"	"		10.0	ND	"	
Hexachlorocyclopentadiene	"	"	"		10.0	ND	"	
Hexachloroethane	"	"	"		10.0	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		10.0	ND	"	
Isophorone	"	"	"		10.0	ND	"	
2-Methylnaphthalene	"	"	"		10.0	ND	"	
2-Methylphenol	"	"	"		10.0	ND	"	
4-Methylphenol	"	"	"		10.0	ND	"	
<b>Naphthalene</b>	"	"	"		10.0	<b>22.2</b>	"	
2-Nitroaniline	"	"	"		50.0	ND	"	
3-Nitroaniline	"	"	"		50.0	ND	"	
4-Nitroaniline	"	"	"		50.0	ND	"	
Nitrobenzene	"	"	"		10.0	ND	"	
2-Nitrophenol	"	"	"		10.0	ND	"	
4-Nitrophenol	"	"	"		50.0	ND	"	
N-Nitrosodimethylamine	"	"	"		20.0	ND	"	
N-Nitrosodiphenylamine	"	"	"		10.0	ND	"	
N-Nitrosodi-n-propylamine	"	"	"		10.0	ND	"	
Pentachlorophenol	"	"	"		50.0	ND	"	
Phenanthrene	"	"	"		10.0	ND	"	
<b>Phenol</b>	"	"	"		10.0	<b>19.4</b>	"	
Pyrene	"	"	"		10.0	ND	"	
Pyridine	"	"	"		10.0	ND	"	
1,2,4-Trichlorobenzene	"	"	"		10.0	ND	"	
2,4,5-Trichlorophenol	"	"	"		10.0	ND	"	
2,4,6-Trichlorophenol	"	"	"		10.0	ND	"	
Surrogate: 2-Fluorophenol	"	"	"	21.0-100		39.8	%	
Surrogate: Phenol-d6	"	"	"	10.0-94.0		48.6	"	
Surrogate: Nitrobenzene-d5	"	"	"	35.0-114		52.5	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	43.0-116		53.8	"	
Surrogate: 2,4,6-Tribromophenol	"	"	"	10.0-123		92.0	"	
Surrogate: Terphenyl-d14	"	"	"	34.0-141		77.1	"	





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680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8  
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  
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FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

Blaine Technical Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Shell Oil Co. Project Number: 6039 College Ave., Oakland/990203-K3 Project Manager: Fran Thie	Sampled: 2/3/99 Received: 2/5/99 Reported: 2/24/99
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**Conventional Chemistry Parameters by APHA/EPA Methods  
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
<u>MW-3</u> TRPH	9020432	2/19/99	2/22/99	<u>P902146-01</u> SM 5520B&F	5.00	ND	<u>Water</u> mg/l	





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

Project: Shell Oil Co.  
Project Number: 6039 College Ave., Oakland/990203-K3  
Project Manager: Fran Thie

Sampled: 2/3/99  
Received: 2/5/99  
Reported: 2/24/99

**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: 9020379</b>		<b>Date Prepared: 2/17/99</b>		<b>Extraction Method: EPA 5030 waters</b>						
<b>Blank</b>		<b>9020379-BLK1</b>								
Gasoline	2/17/99			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: a,a,a-Trifluorotoluene	"	300		317	"	65.0-135	106			
Surrogate: 4-Bromofluorobenzene	"	300		303	"	65.0-135	101			
<b>LCS</b>		<b>9020379-BS1</b>								
Gasoline	2/17/99	1000		1080	ug/l	65.0-135	108			
Surrogate: 4-Bromofluorobenzene	"	300		305	"	65.0-135	102			
<b>Matrix Spike</b>		<b>9020379-MS1</b>		<b>P902116-05</b>						
Gasoline	2/17/99	1000	ND	1030	ug/l	65.0-135	103			
Surrogate: 4-Bromofluorobenzene	"	300		288	"	65.0-135	96.0			
<b>Matrix Spike Dup</b>		<b>9020379-MSD1</b>		<b>P902116-05</b>						
Gasoline	2/17/99	1000	ND	1080	ug/l	65.0-135	108	20.0	4.74	
Surrogate: 4-Bromofluorobenzene	"	300		306	"	65.0-135	102			





Blaine Technical Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Shell Oil Co. Project Number: 6039 College Ave., Oakland/990203-K3 Project Manager: Fran Thie	Sampled: 2/3/99 Received: 2/5/99 Reported: 2/24/99
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Semivolatile Organic Compounds by EPA Method 8270B/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: 9020211</b>	<b>Date Prepared: 2/9/99</b>			<b>Extraction Method: EPA 3520B</b>						
<b>Blank</b>	<b>9020211-BLK1</b>									
Acenaphthene	2/22/99			ND	ug/l	10.0				
Acenaphthylene	"			ND	"	10.0				
Anthracene	"			ND	"	10.0				
Benzidine	"			ND	"	50.0				
Benzoic acid	"			ND	"	50.0				
Benzo (a) anthracene	"			ND	"	10.0				
Benzo (b) fluoranthene	"			ND	"	10.0				
Benzo (k) fluoranthene	"			ND	"	10.0				
Benzo (g,h,i) perylene	"			ND	"	10.0				
Benzo (a) pyrene	"			ND	"	10.0				
Benzyl alcohol	"			ND	"	20.0				
Bis(2-chloroethoxy)methane	"			ND	"	10.0				
Bis(2-chloroethyl)ether	"			ND	"	10.0				
Bis(2-chloroisopropyl)ether	"			ND	"	10.0				
Bis(2-ethylhexyl)phthalate	"			ND	"	10.0				
4-Bromophenyl phenyl ether	"			ND	"	10.0				
Butyl benzyl phthalate	"			ND	"	10.0				
4-Chloroaniline	"			ND	"	20.0				
4-Chloro-3-methylphenol	"			ND	"	20.0				
2-Chloronaphthalene	"			ND	"	10.0				
2-Chlorophenol	"			ND	"	10.0				
4-Chlorophenyl phenyl ether	"			ND	"	10.0				
Chrysene	"			ND	"	10.0				
Dibenz (a,h) anthracene	"			ND	"	10.0				
Dibenzofuran	"			ND	"	10.0				
Di-n-butyl phthalate	"			ND	"	10.0				
1,2-Dichlorobenzene	"			ND	"	10.0				
1,3-Dichlorobenzene	"			ND	"	10.0				
1,4-Dichlorobenzene	"			ND	"	10.0				
3,3'-Dichlorobenzidine	"			ND	"	20.0				
2,4-Dichlorophenol	"			ND	"	10.0				
Diethyl phthalate	"			ND	"	10.0				
2,4-Dimethylphenol	"			ND	"	10.0				
Dimethyl phthalate	"			ND	"	10.0				
4,6-Dinitro-2-methylphenol	"			ND	"	50.0				
2,4-Dinitrophenol	"			ND	"	50.0				
2,4-Dinitrotoluene	"			ND	"	10.0				
2,6-Dinitrotoluene	"			ND	"	10.0				
Di-n-octyl phthalate	"			ND	"	10.0				
1,2-Diphenylhydrazine	"			ND	"	20.0				





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Walnut Creek, CA 94598  
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(916) 921-9600 FAX (916) 921-0100  
(707) 792-1865 FAX (707) 792-0342

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

Project: Shell Oil Co.  
Project Number: 6039 College Ave., Oakland/990203-K3  
Project Manager: Fran Thie

Sampled: 2/3/99  
Received: 2/5/99  
Reported: 2/24/99

## Semivolatile Organic Compounds by EPA Method 8270B/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>Blank (continued)</b>										
<b>9020211-BLK1</b>										
Fluoranthene	2/22/99			ND	ug/l	10.0				
Fluorene	"			ND	"	10.0				
Hexachlorobenzene	"			ND	"	10.0				
Hexachlorobutadiene	"			ND	"	10.0				
Hexachlorocyclopentadiene	"			ND	"	10.0				
Hexachloroethane	"			ND	"	10.0				
Indeno (1,2,3-cd) pyrene	"			ND	"	10.0				
Isophorone	"			ND	"	10.0				
2-Methylnaphthalene	"			ND	"	10.0				
2-Methylphenol	"			ND	"	10.0				
4-Methylphenol	"			ND	"	10.0				
Naphthalene	"			ND	"	10.0				
2-Nitroaniline	"			ND	"	50.0				
3-Nitroaniline	"			ND	"	50.0				
4-Nitroaniline	"			ND	"	50.0				
Nitrobenzene	"			ND	"	10.0				
2-Nitrophenol	"			ND	"	10.0				
4-Nitrophenol	"			ND	"	50.0				
N-Nitrosodimethylamine	"			ND	"	20.0				
N-Nitrosodiphenylamine	"			ND	"	10.0				
N-Nitrosodi-n-propylamine	"			ND	"	10.0				
Pentachlorophenol	"			ND	"	50.0				
Phenanthrene	"			ND	"	10.0				
Phenol	"			ND	"	10.0				
Pyrene	"			ND	"	10.0				
Pyridine	"			ND	"	10.0				
1,2,4-Trichlorobenzene	"			ND	"	10.0				
2,4,5-Trichlorophenol	"			ND	"	10.0				
2,4,6-Trichlorophenol	"			ND	"	10.0				
Surrogate: 2-Fluorophenol	"	150		67.9	"	21.0-100	45.3			
Surrogate: Phenol-d6	"	150		80.0	"	10.0-94.0	53.3			
Surrogate: Nitrobenzene-d5	"	100		58.1	"	35.0-114	58.1			
Surrogate: 2-Fluorobiphenyl	"	100		59.8	"	43.0-116	59.8			
Surrogate: 2,4,6-Tribromophenol	"	150		96.9	"	10.0-123	64.6			
Surrogate: Terphenyl-d14	"	100		86.4	"	34.0-141	86.4			
<b>LCS</b>										
<b>9020211-BS1</b>										
Acenaphthene	2/22/99	100		85.4	ug/l	24.0-114	85.4			
4-Chloro-3-methylphenol	"	100		88.2	"	27.0-100	88.2			
2-Chlorophenol	"	100		82.2	"	19.0-94.0	82.2			
1,4-Dichlorobenzene	"	100		67.2	"	14.0-95.0	67.2			







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Blaine Technical Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Shell Oil Co. Project Number: 6039 College Ave., Oakland/990203-K3 Project Manager: Fran Thie	Sampled: 2/3/99 Received: 2/5/99 Reported: 2/24/99
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## Semivolatile Organic Compounds by EPA Method 8270B/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>LCS (continued)</b>										
<b>9020211-BS1</b>										
2,4-Dinitrotoluene	2/22/99	100		104	ug/l	29.0-116	104			
Hexachlorobenzene	"	100		99.0	"	34.0-120	99.0			
Hexachlorobutadiene	"	100		71.8	"	16.0-102	71.8			
Hexachloroethane	"	100		62.5	"	20.0-90.0	62.5			
Nitrobenzene	"	100		74.8	"	21.0-113	74.8			
4-Nitrophenol	"	100		ND	"	14.0-121	0			
N-Nitrosodi-n-propylamine	"	100		90.3	"	18.0-104	90.3			
Pentachlorophenol	"	100		111	"	11.0-117	111			
Phenol	"	100		78.4	"	7.00-100	78.4			
Pyrene	"	100		90.7	"	22.0-127	90.7			
1,2,4-Trichlorobenzene	"	100		77.2	"	18.0-98.0	77.2			
2,4,6-Trichlorophenol	"	100		92.7	"	28.0-107	92.7			
Surrogate: 2-Fluorophenol	"	150		92.6	"	21.0-100	61.7			
Surrogate: Phenol-d6	"	150		106	"	10.0-94.0	70.7			
Surrogate: Nitrobenzene-d5	"	100		76.8	"	35.0-114	76.8			
Surrogate: 2-Fluorobiphenyl	"	100		84.5	"	43.0-116	84.5			
Surrogate: 2,4,6-Tribromophenol	"	150		137	"	10.0-123	91.3			
Surrogate: Terphenyl-d14	"	100		93.3	"	34.0-141	93.3			
<b>LCS Dup</b>										
<b>9020211-BSD1</b>										
Acenaphthene	2/22/99	100		69.5	ug/l	24.0-114	69.5	21.0	20.5	
4-Chloro-3-methylphenol	"	100		67.0	"	27.0-100	67.0	14.0	27.3	1
2-Chlorophenol	"	100		58.8	"	19.0-94.0	58.8	40.0	33.2	
1,4-Dichlorobenzene	"	100		49.6	"	14.0-95.0	49.6	19.0	30.1	1
2,4-Dinitrotoluene	"	100		100	"	29.0-116	100	7.00	3.92	
Hexachlorobenzene	"	100		92.4	"	34.0-120	92.4		6.90	
Hexachlorobutadiene	"	100		52.3	"	16.0-102	52.3		31.4	1
Hexachloroethane	"	100		46.9	"	20.0-90.0	46.9		28.5	1
Nitrobenzene	"	100		57.7	"	21.0-113	57.7		25.8	1
4-Nitrophenol	"	100		ND	"	14.0-121	0	23.0		1
N-Nitrosodi-n-propylamine	"	100		66.3	"	18.0-104	66.3	32.0	30.7	
Pentachlorophenol	"	100		66.6	"	11.0-117	66.6	16.0	50.0	1
Phenol	"	100		57.7	"	7.00-100	57.7	21.0	30.4	1
Pyrene	"	100		88.2	"	22.0-127	88.2	20.0	2.79	
1,2,4-Trichlorobenzene	"	100		56.5	"	18.0-98.0	56.5	14.0	31.0	1
2,4,6-Trichlorophenol	"	100		64.9	"	28.0-107	64.9		35.3	1
Surrogate: 2-Fluorophenol	"	150		64.8	"	21.0-100	43.2			
Surrogate: Phenol-d6	"	150		76.1	"	10.0-94.0	50.7			
Surrogate: Nitrobenzene-d5	"	100		58.4	"	35.0-114	58.4			
Surrogate: 2-Fluorobiphenyl	"	100		63.2	"	43.0-116	63.2			
Surrogate: 2,4,6-Tribromophenol	"	150		127	"	10.0-123	84.7			





Sequoia  
Analytical

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8  
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

Blaine Technical Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Shell Oil Co. Project Number: 6039 College Ave., Oakland/990203-K3 Project Manager: Fran Thie	Sampled: 2/3/99 Received: 2/5/99 Reported: 2/24/99
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**Semivolatile Organic Compounds by EPA Method 8270B/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>LCS Dup (continued)</b>	<b>9020211-BSD1</b>									
Surrogate: Terphenyl-d14	2/22/99	100		89.6	ug/l	34.0-141	89.6			





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---	--	--

**Conventional Chemistry Parameters by APHA/EPA Methods/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: 9020432</b>	<b>Date Prepared: 2/19/99</b>		<b>Extraction Method: 5520B&amp;F</b>							
<b>Blank</b>	<b>9020432-BLK1</b>									
TRPH	2/22/99			ND	mg/l	5.00				
<b>LCS</b>	<b>9020432-BS1</b>									
TRPH	2/22/99	20.0		18.6	mg/l	80.0-120	93.0			
<b>LCS Dup</b>	<b>9020432-BSD1</b>									
TRPH	2/22/99	20.0		18.7	mg/l	80.0-120	93.5	20.0	0.536	





Blaine Technical Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Shell Oil Co. Project Number: 6039 College Ave., Oakland/990203-K3 Project Manager: Fran Thie	Sampled: 2/3/99 Received: 2/5/99 Reported: 2/24/99
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### Notes and Definitions

#	Note
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- 1 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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: 990103-K3

Date: \_\_\_\_\_  
 Page 1 of 1

Site Address: 6039 College Ave., Oakland

WIC#: \_\_\_\_\_  
204-5508-3301

Shell Engineer: Alex Perez  
 Phone No.: (510) 575-6168  
 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

Commons: \_\_\_\_\_

Sampled by: [Signature]  
 Printed Name: \_\_\_\_\_

**Analysis Required**

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	RTEX (EPA 8020/502)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 / <u>MSB</u>	<u>EPA 8270</u>	<u>Oil &amp; Grease</u>	Asbestos	Container Size	Preparation Used	Composite Y/N
					X	X	X				
					X						

LAB: Sequoia

CHECK ONE (1) BOX ONLY	C1/D1	TURN AROUND TIME
Quantity Monitoring <input checked="" type="checkbox"/>	8481	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	8441	24 hours <input type="checkbox"/>
Soil Classfy/Disposal <input type="checkbox"/>	8442	16 days <input checked="" type="checkbox"/> (Normal)
Water Classfy/Disposal <input type="checkbox"/>	8445	Other <input type="checkbox"/>
Soil/Air Sam. or Sys. O & M <input type="checkbox"/>	8462	
Water Sam. or Sys. O & M <input type="checkbox"/>	8443	
Other <input type="checkbox"/>		

NOTE: Holiday Lab soon as possible at 24/48 hr. Lab.

Sample ID	Date	Sludge	Soil	Water	Air	No. of confs.	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
<u>2-11-99</u>	<u>2/11/99</u>			<u>1</u>		<u>1</u>	<u>"Oil &amp; Grease"</u>	<u>Cancel DL 2/11/99</u>
<u>2-11-99</u>	<u>2/11/99</u>			<u>3</u>		<u>1</u>	<u>"Oil &amp; Grease"</u>	<u>Cancel DL 2/11/99</u>

Relinquished by (signature): <u>[Signature]</u>	Printed Name: <u>Mark Spadler</u>	Date: <u>2/11/99</u>	Time: <u>1100</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>Fletcher</u>	Date: <u>2/11/99</u>	Time: <u>11:00</u>
Relinquished by (signature): _____	Printed Name: _____	Date: _____	Time: _____	Received (signature): _____	Printed Name: _____	Date: _____	Time: _____
Relinquished by (signature): _____	Printed Name: _____	Date: _____	Time: _____	Received (signature): _____	Printed Name: _____	Date: _____	Time: _____

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

FEB - 11 1999 (THU) 10:54  
 BLAINE TECH SERVICES, INC  
 TEL: 408 573 7771  
 P. 002