

C A M B R I A

ENVIRONMENTAL  
PROTECTION

October 8, 1999

Mr. Larry Seto  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

99 OCT 13 PM 3:18

Re: **Third Quarter 1999 Monitoring Report**  
Former Shell Service Station  
461 8th Street  
Oakland, California  
Incident #97093399  
Cambria Project #241-1501-002



Dear Mr. Seto:

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.

### THIRD QUARTER 1999 ACTIVITIES

**Ground Water Monitoring:** Blaine Tech Services, Inc. (Blaine) of San Jose, California checked for separate-phase (SPH) and gauged and sampled the site wells. **No SPH was detected this quarter.** Blaine calculated ground water elevations and compiled the analytical data. Cambria prepared a site location map (Figure 1) and ground water elevation contour map (Figure 2). The Blaine report, presenting the laboratory report and including supporting field documents, is presented as Attachment A.

**Monitoring Well Purging:** Due to subcontractor oversight, no ground water was purged from monitoring wells S-5 and S-6 this quarter.

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

### ANTICIPATED FOURTH QUARTER 1999 ACTIVITIES

Cambria  
Environmental  
Technology, Inc.

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

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

**Monitoring Well Purging:** Blaine will purge ground water from wells S-5 and S-6.

**CLOSING**

We appreciate the opportunity to work with you on this project. Please call Troy Buggle at (510) 420-3333 if you have any questions or comments.

Sincerely,

**Cambria Environmental Technology, Inc**



Troy A. Buggle  
Senior Staff Scientist

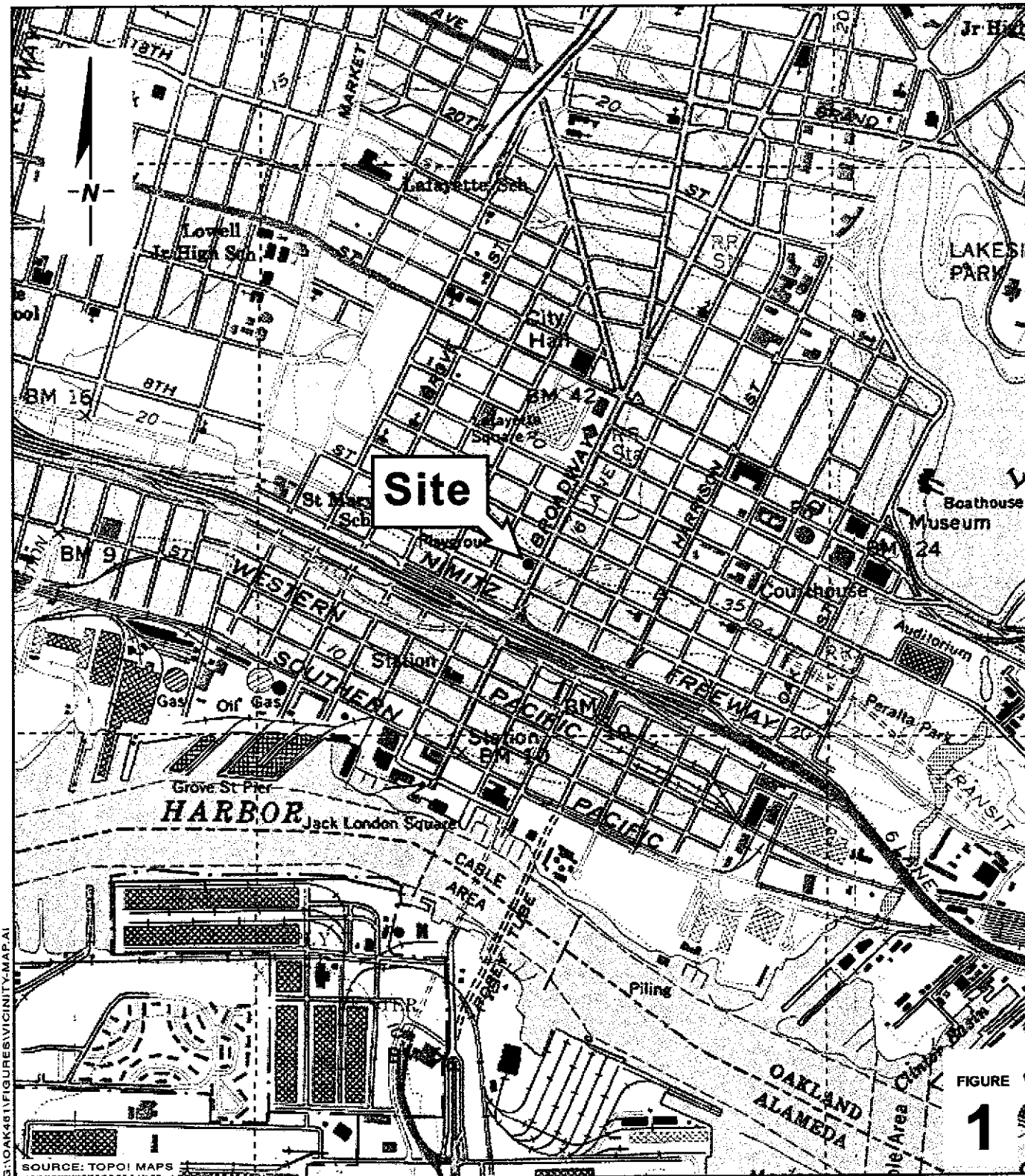
Ailsa S. Le May, R.G.  
Senior Geologist



- Figure: 1 - Vicinity Map  
2 - Ground Water Elevation Contour Map  
Table: 1 - Separate-phase Hydrocarbon Recovery  
Attachment: A - Blaine Ground Water Monitoring Report and Field Notes

- cc: Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, California 90749-6249  
Rory Campbell, Hanson, Bridgett, Marcus, Vlahos, & Rudy, 333 Market Street, Suite 2300, San Francisco, California 94105-2173  
R. Casteel & Co., P.O. Box 6839, Moraga, California 94570  
Leroy Griffin, City of Oakland Fire Department, 505 14th Street, Suite 702, Oakland, CA 94612

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G:\OAK481\FIGURES\VICINITY-MAP.A1

SOURCE: TOPOI MAPS

0 1/8 1/4 1/2 1  
SCALE 1:1/4 MILE

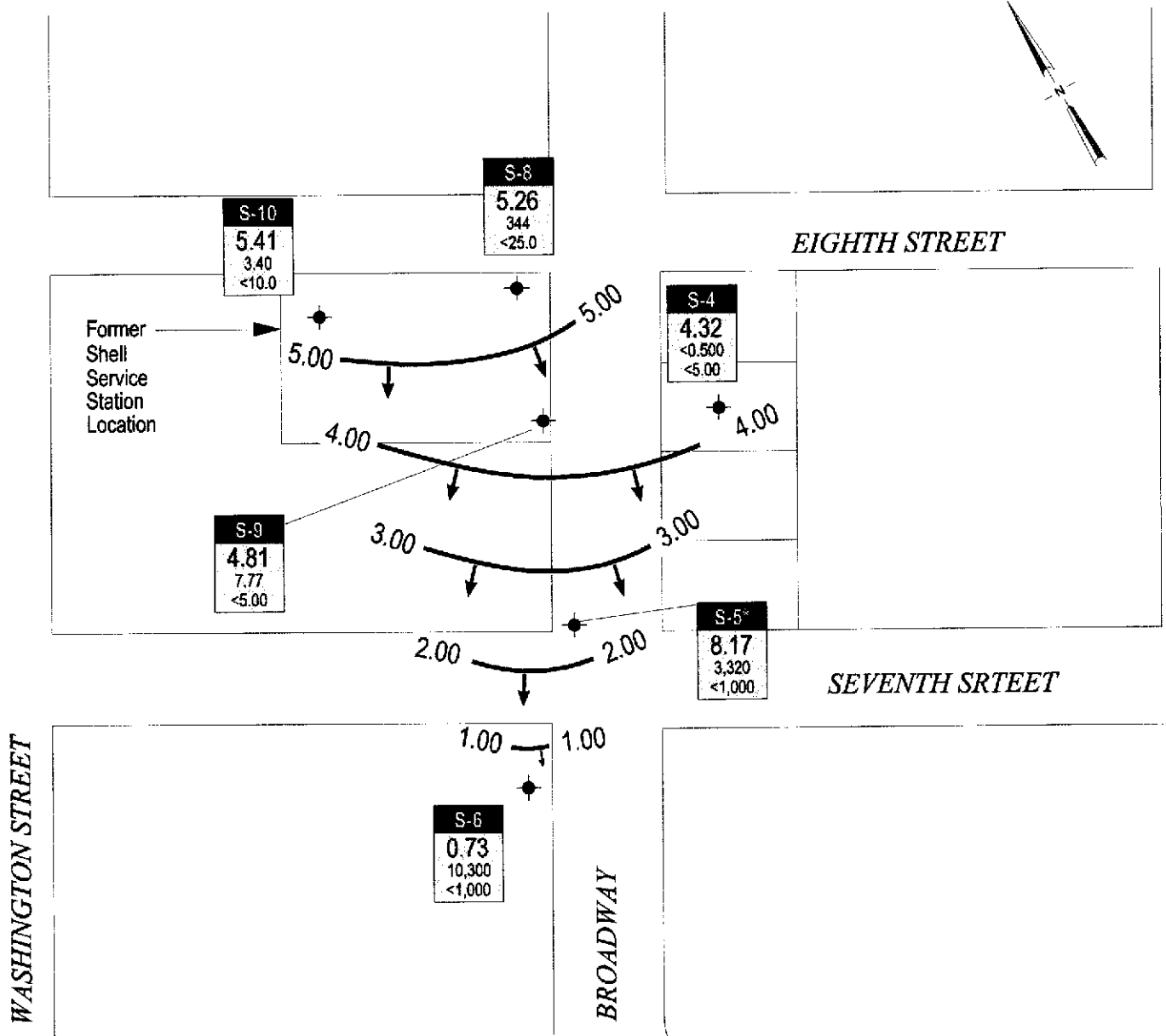
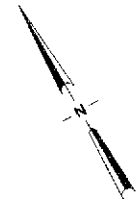
### Shell-branded Service Station

461 Eighth Street  
Oakland, California  
Incident #97093399



C A M B R I A

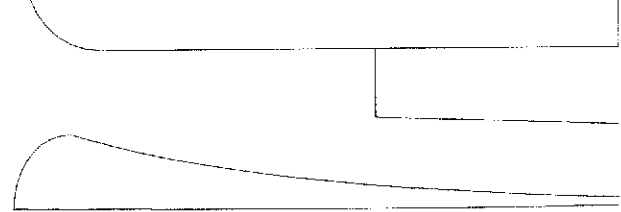
### Vicinity Map



**EXPLANATION**

- S-1 ● Monitoring well location
- \* Data anomalous; well not contoured
- Ground water flow direction
- XX.XX Ground water elevation contour, in feet above mean sea level (msl); dashed where inferred

Well	Well designation
ELEV	Ground water elevation (msl)
Benzene	Benzene and MTBE concentrations are in parts per billion (ppb)
MTBE	



INTERSTATE 880

FIGURE 2

G:\OAK461\FIGURE6\30M99-MP.DWG

**Former Shell Service Station**  
 461 Eighth Street  
 Oakland, California  
 Incident #97093399



C A M B R I A

**Ground Water Elevation Contour Map**

July 29, 1999

# CAMBRIA

**Table 1. Separate-phase Hydrocarbon Recovery - Former Shell Station - Incident #97093399 - 461 Eighth Street, Oakland, California**

Well	Monitoring Date	Product Thickness (feet)	Volume Removed (gal)	Recovery To Date (gal)
S-5	05/13/93	0.27	0	0
	07/22/93	0.25	200	200
	10/20/93	0.23	200	400
	01/25/94	0.18	150	550
	04/25/94	0.35	36	586
	05/26/94	0.35	130	716
	06/16/94	0.32	50	766
	07/21/94	0.47	50	816
	08/25/94	0.44	80	896
	09/22/94	0.15	45	941
	10/24/94	0.56	40	981
	11/29/94	1.13	85	1066
	12/22/94	0.99	0	1066
	01/03/95	1.21	40	1,106
	02/22/95	0.60	60	1,166
	03/31/95	0.02	40	1,206
	04/20/95	0.33	60	1,266
	05/26/95	0.28	50	1,316
	06/30/95	0.02	60	1,376
	10/04/95	0.00	0	1,376
	01/03/96	0.83	0	1,376
	04/11/96	0.67	0	1,376
	07/11/96	0.90	0	1,376
	10/02/96	0.64	0	1,376
	01/22/97	0.16	0	1,376
	07/21/97	0.05	75	1,451
	10/29/97	0.03	60	1,511
	01/22/98	0.04	60	1,571
	05/01/98	0.06	50	1,621
	07/08/98	0.00	100	1,721
10/26/98	0.00	100	1,821	
01/28/99	0.00	100	1,921	
04/23/99	0.00	100	2,021	
	<b>07/22/99</b>	<b>0.00</b>	<b>0</b>	<b>2,021</b>
S-6	05/13/93	0.27	0	0
	07/22/93	0.25	0	0
	10/20/93	0.23	0	0
	01/25/94	0.18	0	0
	04/25/94	0.35	0	0
	05/26/94	0.35	na	0
	06/16/94	0.32	na	0
	07/21/94	0.47	0	0
	08/25/94	0.44	na	0

# CAMBRIA

**Table 1. Separate-phase Hydrocarbon Recovery - Former Shell Station - Incident #97093399 - 461 Eighth Street, Oakland, California**

Well	Monitoring Date	Product Thickness (feet)	Volume Removed (gal)	Recovery To Date (gal)
	09/22/94	0.15	na	0
	10/24/94	0.56	0	0
	11/29/94	1.13	na	0
	12/22/94	0.99	0	0
	01/03/95	1.21	na	0
	02/22/95	0.60	na	0
	03/31/95	0.02	na	0
	04/20/95	0.33	0	0
	05/26/95	0.28	na	0
	06/30/95	0.02	na	0
	10/04/95	0.00	0	0
	01/03/96	0.83	0	0
	04/11/96	0.67	0	0
	07/11/96	0.90	0	0
	10/02/96	0.64	0	0
	01/22/97	0.16	0	0
	07/21/97	0.00	0	0
	10/29/97	0.00	40	40
	01/22/98	0.00	60	100
	05/01/98	0.00	200	300
	07/08/98	0.00	150	450
	10/26/98	0.00	100	550
	01/28/99	0.00	150	700
	04/23/99	0.00	150	850
	07/22/99	0.00	0	850
			<b>Total</b>	<b>2,871</b>

**Notes:**

1. "Volume Removed" and "Recovery to Date" refer to the volume of liquid removed by a vacuum truck or submersible pump. This includes ground water and separate-phase hydrocarbons, if present.
2. Product recovery booms were installed from 3Q95 to 4Q96.

**ATTACHMENT A**

Blaine Ground Water Monitoring Report  
and Field Notes

**BLAINE**  
TECH SERVICES INC.



1880 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE

August 24, 1999

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

Third Quarter 1999 Groundwater Monitoring at  
Shell-branded Service Station  
461 8<sup>th</sup> Street  
Oakland, CA

Monitoring performed on July 29, 1999

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Groundwater Monitoring Report **990729-M-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", with a long horizontal flourish extending to the right.

Deidre Kerwin  
Operations Manager

DK/ew

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

cc: Anni Kreml  
Cambria Environmental Technology, Inc.  
1144 65<sup>th</sup> Street, Suite C  
Oakland, CA 94608-2411

**ATTACHMENT A**

Blaine Ground Water Monitoring Report  
and Field Notes



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

August 24, 1999

Karen Petryna  
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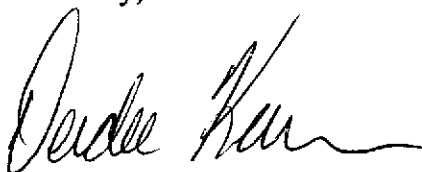
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Oakland, CA 94608-2411

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**461 8th Street**  
**Oakland, CA**  
**Wic #204-5508-6200**

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-4	10/26/1988	130	3.8	13	4.0	30	NA	NA	93.51 (TOC)	NA	NA	NA
S-4	02/14/1989	<50	0.5	<1	<1	3.0	NA	NA	93.51 (TOC)	12.82	80.69	0.00
S-4	05/01/1989	Well dry	NA	NA	NA	NA	NA	NA	93.51 (TOC)	16.48	77.03	0.00
S-4	07/27/1989	Well dry	NA	NA	NA	NA	NA	NA	93.51 (TOC)	15.84	77.67	0.00
S-4	10/05/1989	Well dry	NA	NA	NA	NA	NA	NA	93.51 (TOC)	15.98	77.53	0.00
S-4	01/09/1990	Well dry	NA	NA	NA	NA	NA	NA	93.51 (TOC)	15.86	77.65	0.00
S-4	04/30/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	93.51 (TOC)	14.48	79.03	0.00
S-4	07/31/1990	Well dry	NA	NA	NA	NA	NA	NA	93.51 (TOC)	NA	NA	NA
S-4	10/30/1990	Well dry	NA	NA	NA	NA	NA	NA	93.51 (TOC)	NA	NA	NA
S-4	05/06/1991	Well dry	NA	NA	NA	NA	NA	NA	93.51 (TOC)	15.23	78.28	0.00
S-4	06/27/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	93.51 (TOC)	13.54	79.97	0.00
S-4	09/24/1991	Well dry	NA	NA	NA	NA	NA	NA	93.51 (TOC)	15.85	77.66	0.00
S-4	11/07/1991	Well dry	NA	NA	NA	NA	NA	NA	93.51 (TOC)	15.60	77.91	0.00
S-4	02/13/1992	<50	<0.5	<0.5	<0.5	3.0	NA	NA	93.51 (TOC)	14.27	79.24	0.00
S-4	05/11/1992	Well dry	NA	NA	NA	NA	NA	NA	93.51 (TOC)	NA	NA	NA
S-4	12/03/1992	Well inaccessible		NA	NA	NA	NA	NA	93.51 (TOC)	NA	NA	NA
S-4	05/13/1993	Well inaccessible		NA	NA	NA	NA	NA	93.51 (TOC)	14.81	78.70	0.00
S-4	07/22/1993	Well inaccessible		NA	NA	NA	NA	NA	93.51 (TOC)	14.42	79.09	0.00
S-4	10/20/1993	Well inaccessible		NA	NA	NA	NA	NA	93.51 (TOC)	NA	NA	NA
S-4	01/25/1994	Well inaccessible		NA	NA	NA	NA	NA	93.51 (TOC)	14.60	78.91	0.00
S-4	04/25/1994	Well inaccessible		NA	NA	NA	NA	NA	93.51 (TOC)	14.39	79.12	0.00
S-4	07/21/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	93.51 (TOC)	22.29	71.22	0.00
S-4	10/24/1994	<500	<0.3	<0.3	<0.3	<0.6	NA	NA	93.51 (TOC)	22.72	70.79	0.00
S-4	12/22/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	25.77*	22.25	3.52	0.00
S-4	04/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	25.77	21.16	4.61	0.00

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**461 8th Street**  
**Oakland, CA**  
**Wic #204-5508-6200**

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-4	10/04/1995	<50	1.2	0.7	<0.5	<0.5	NA	NA	25.77	22.25	3.52	0.00
S-4	01/03/1996	<50	0.6	<0.5	<0.5	1.7	NA	NA	25.77	23.28	2.49	0.00
S-4	04/11/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	25.77	21.58	4.19	0.00
S-4	07/11/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	25.77	21.60	4.17	0.00
S-4	10/02/1996	<50	<0.50	<0.50	<0.50	<0.50	2.6	NA	25.77	22.46	3.31	0.00
S-4	01/22/1997	<50	0.73	<0.50	<0.50	0.63	<2.5	NA	25.77	20.06	5.71	0.00
S-4	07/21/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	25.77	22.10	3.67	0.00
S-4	01/22/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	25.77	20.50	5.27	0.00
S-4	07/08/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	25.77	20.86	4.91	0.00
S-4	10/26/1998	NA	NA	NA	NA	NA	NA	NA	25.77	21.41	4.36	0.00
S-4	01/28/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	25.77	22.34	3.43	0.00
S-4	04/23/1999	NA	NA	NA	NA	NA	NA	NA	25.77	21.43	4.34	0.00
S-4	07/29/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	25.77	21.45	4.32	0.00

S-5	04/16/1987	130000	15000	16000	NA	14000a	NA	NA	99.36 (TOC)	NA	NA	NA
S-5	10/26/1988	110000	20000	25000	2300	10000	NA	NA	99.36 (TOC)	NA	NA	NA
S-5	02/14/1989	94000	16000	21000	1800	10000	NA	NA	99.36 (TOC)	19.87	79.49	0.00
S-5	05/01/1989	120000	29000	35000	3100	15000	NA	NA	99.36 (TOC)	21.23	78.13	0.00
S-5	07/27/1989	110000	20000	29000	2400	14000	NA	NA	99.36 (TOC)	20.41	78.95	0.00
S-5	10/05/1989	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	20.43	78.94	0.01
S-5	01/09/1990	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.16	78.21	0.01
S-5	04/30/1990	100000	13000	22000	2100	11000	NA	NA	99.36 (TOC)	20.96	78.40	0.00
S-5	07/31/1990	53000	8300	14000	1200	7400	NA	NA	99.36 (TOC)	20.88	78.48	0.00
S-5	10/30/1990	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.96	77.42	0.03
S-5	05/06/1991	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	23.00	76.46	0.13
S-5	06/27/1991	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	20.53	78.85	0.03

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S-5	09/24/1991	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.40	78.01	0.06
S-5	11/07/1991	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.33	78.23	0.25
S-5	02/13/1992	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	22.52	77.09	0.31
S-5	05/11/1992	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	22.46	77.36	0.58
S-5	12/03/1992	Well inaccessible		NA	NA	NA	NA	NA	99.36 (TOC)	NA	NA	NA
S-5	05/13/1993	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	22.22	77.36	0.27
S-5	07/22/1993	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.68	77.88	0.25
S-5	10/20/1993	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	20.51	79.03	0.23
S-5	01/25/1994	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.93	77.57	0.18
S-5	04/25/1994	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.97	77.67	0.35
S-5	05/26/1994	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	20.84	78.80	0.35
S-5	06/10/1994	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.01	78.61	0.32
S-5	07/21/1994	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	22.18	77.56	0.47
S-5	08/25/1994	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	22.01	77.70	0.44
S-5	09/22/1994	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	22.00	77.48	0.15
S-5	10/24/1994	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	22.28	77.53	0.56
S-5	12/22/1994	NA	NA	NA	NA	NA	NA	NA	22.94*	22.88	0.85	0.99
S-5	04/20/1995	NA	NA	NA	NA	NA	NA	NA	22.94	21.66	1.54	0.33
S-5	10/04/1995	NA	NA	NA	NA	NA	NA	NA	22.94	22.18	0.76	0.00
S-5	01/03/1996	NA	NA	NA	NA	NA	NA	NA	22.94	22.80	0.80	0.83
S-5	04/11/1996	NA	NA	NA	NA	NA	NA	NA	22.94	21.15	2.33	0.67
S-5	07/11/1996	NA	NA	NA	NA	NA	NA	NA	22.94	22.62	1.04	0.90
S-5	10/02/1996	NA	NA	NA	NA	NA	NA	NA	22.94	23.07	0.38	0.64
S-5	01/22/1997	NA	NA	NA	NA	NA	NA	NA	22.94	20.83	2.24	0.16
S-5	07/21/1997	NA	NA	NA	NA	NA	NA	NA	22.94	21.16	1.82	0.05
S-5	01/22/1998	NA	NA	NA	NA	NA	NA	NA	22.94	20.04	2.93	0.04

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**461 8th Street**  
**Oakland, CA**  
**Wic #204-5508-6200**

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-5	07/08/1998	220	14	40	5.8	34	3.3	NA	22.94	18.61	4.33	0.00
S-5	10/26/1998	NA	NA	NA	NA	NA	NA	NA	22.94	17.31	5.63	0.00
S-5	01/28/1999	51000	13000	1200	1200	2400	2400	NA	22.94	20.11	2.83	0.00
S-5	04/23/1999	65600	2540	7300	1790	9840	<1000	NA	22.94	19.21	3.73	0.00
S-5	07/29/1999	61400	3320	6980	1520	7700	<1000	NA	22.94	14.77	8.17	0.00

S-6	04/16/1987	81000	16000	9000	NA	6400a	NA	NA	100.58 (TOC)	NA	NA	0.00
S-6	10/26/1988	110000	29000	18000	2500	8200	NA	NA	100.58 (TOC)	NA	NA	0.00
S-6	02/14/1989	54000	18000	4500	1400	4000	NA	NA	100.58 (TOC)	20.87	79.71	0.00
S-6	05/01/1989	93000	43000	9900	3000	8000	NA	NA	100.58 (TOC)	20.49	80.09	0.00
S-6	07/27/1989	52000	20000	3200	1700	5500	NA	NA	100.58 (TOC)	21.01	79.57	0.00
S-6	10/05/1989	55000	20000	2900	1600	5500	NA	NA	100.58 (TOC)	21.24	79.34	0.00
S-6	01/09/1990	76000	35000	9100	2300	8600	NA	NA	100.58 (TOC)	22.62	77.96	SHEEN
S-6	04/30/1990	39000	13000	2300	900	2800	NA	NA	100.58 (TOC)	22.10	78.48	0.00
S-6	07/31/1990	48000	20000	4600	1500	4900	NA	NA	100.58 (TOC)	22.00	78.58	0.00
S-6	10/30/1990	27000	7400	900	600	1400	NA	NA	100.58 (TOC)	22.14	78.44	0.00
S-6	05/06/1991	35000	3900	2700	2300	3500	NA	NA	100.58 (TOC)	22.40	78.18	0.00
S-6	06/27/1991	51000	19000	5600	1700	6300	NA	NA	100.58 (TOC)	21.21	79.37	0.00
S-6	09/24/1991	42000	14000	4300	1200	4000	NA	NA	100.58 (TOC)	22.26	78.32	0.00
S-6	11/07/1991	39000	11000	2000	800	2300	NA	NA	100.58 (TOC)	22.35	78.23	0.00
S-6	02/13/1992	64000	21000	6200	1600	5100	NA	NA	100.58 (TOC)	22.28	78.30	0.00
S-6	05/11/1992	57000	22000	7600	2200	7700	NA	NA	100.58 (TOC)	22.10	78.48	0.00
S-6	12/03/1992	110000	26000	9400	2100	8700	NA	NA	100.58 (TOC)	22.14	78.44	0.00
S-6	05/13/1993	58000	21000	6800	2500	9800	NA	NA	100.58 (TOC)	22.16	78.42	0.00
S-6	07/22/1993	70000	31000	14000	3000	13000	NA	NA	100.58 (TOC)	21.64	78.94	0.00
S-6	10/20/1993	48000	28000	9800	3200	12000	NA	NA	100.58 (TOC)	21.62	78.96	0.00



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**461 8th Street**  
**Oakland, CA**  
**Wic #204-5508-6200**

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-6	01/25/1994	70000	23000	7500	2500	8000	NA	NA	100.58 (TOC)	21.80	78.78	0.00
S-6	04/25/1994	61000	16000	4000	1800	5100	NA	NA	100.58 (TOC)	21.68	78.90	0.00
S-6	07/21/1994	44000	8200	3600	1400	3900	NA	NA	100.58 (TOC)	21.78	78.80	0.00
S-6 (D)	07/21/1994	32000	7800	3400	1300	3700	NA	NA	22.08	NA	NA	NA
S-6	10/24/1994	2936	1184	440.6	163	648.4	NA	NA	100.58 (TOC)	22.06	78.52	0.00
S-6 (D)	10/24/1994	2968	770.8	325.3	144	622	NA	NA	22.08	NA	NA	NA
S-6	12/22/1994	32000	7000	2900	790	2400	NA	NA	22.08*	21.91	0.17	0.00
S-6 (D)	12/22/1994	32000	8000	3800	1100	3400	NA	NA	22.08	NA	NA	NA
S-6	04/20/1995	56000	15000	3800	1900	4900	NA	NA	22.08	21.38	0.70	0.00
S-6 (D)	04/20/1995	49000	13000	3500	1800	4700	NA	NA	22.08	NA	NA	NA
S-6	10/04/1995	49000	8400	4700	1800	4800	NA	NA	22.08	21.80	0.28	0.00
S-6 (D)	10/04/1995	41000	8400	4100	1400	4400	NA	NA	22.08	NA	NA	NA
S-6	01/03/1996	52000	9100	7100	1800	5800	NA	NA	22.08	21.70	0.38	0.00
S-6	04/11/1996	59000	11000	7100	2100	6400	<500	NA	22.08	21.62	0.46	0.00
S-6 (D)	04/11/1996	59000	11000	6800	1900	6400	<500	NA	22.08	NA	NA	NA
S-6	07/11/1996	72000	18000	6600	2500	8400	<1000	NA	22.08	21.65	2.78	0.00
S-6	10/02/1996	57000	11000	6500	1500	5100	<500	NA	22.08	21.80	2.63	0.00
S-6	01/22/1997	67000	15000	5000	1800	5400	<1000	NA	22.08	19.95	2.13	0.00
S-6 (D)	01/22/1997	63000	15000	4800	1800	5200	<1000	NA	22.08	NA	NA	NA
S-6	07/21/1997	61000	15000	2100	1100	3500	1900	NA	22.08	20.61	1.47	0.00
S-6	01/22/1998	46000	14000	3200	1300	3400	<500	NA	22.08	19.82	2.26	0.00
S-6	07/08/1998	74000	26000	7500	2200	6200	<1000	NA	22.08	18.20	3.88	0.00
S-6	10/26/1998	NA	NA	NA	NA	NA	NA	NA	22.08	18.81	3.27	0.00
S-6	01/28/1999	120000	9000	14000	2700	14000	3700	NA	22.08	19.73	2.35	0.00
S-6	04/23/1999	58500	15900	1360	1640	3030	<2500	NA	22.08	17.58	4.50	0.00
S-6	07/29/1999	36200	10300	760	930	1360	<1000	NA	22.08	21.35	0.73	0.00

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**461 8th Street**  
**Oakland, CA**  
**Wic #204-5508-6200**

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	12/22/1994	600	120	32	5.2	34	NA	NA	27.21	24.87	2.34	0.00
S-8	04/20/1995	460	180	23	5.2	21	NA	NA	27.21	23.90	3.31	0.00
S-8	10/04/1995	830	210	38	11	42	NA	NA	27.21	24.48	2.73	0.00
S-8	01/03/1996	350	61	12	2.5	12	NA	NA	27.21	24.62	2.59	0.00
S-8 (D)	01/03/1996	340	54	12	2.4	12	NA	NA	27.21	NA	NA	NA
S-8	04/11/1996	570	140	37	12	47	<6.2	NA	27.21	24.32	2.89	0.00
S-8	07/11/1996	980	98	32	9.1	160	<12	NA	27.21	24.10	3.11	0.00
S-8	10/02/1996	280	62	13	3.3	25	15	NA	27.21	25.38	1.83	0.00
S-8 (D)	10/02/1996	490	110	24	7.0	45	22	<2.0	27.21	NA	NA	NA
S-8	01/22/1997	400	90	13	4.9	25	12	NA	27.21	23.91	3.30	0.00
S-8	07/21/1997	2900	380	110	26	260	85	NA	27.21	23.62	3.59	0.00
S-8 (D)	07/21/1997	3200	420	120	32	300	130	NA	27.21	NA	NA	NA
S-8	01/22/1998	3800	790	140	42	330	160	NA	27.21	23.52	3.69	0.00
S-8 (D)	01/22/1998	3500	780	120	33	300	160	NA	27.21	NA	NA	NA
S-8	07/08/1998	3600	1800	<25	<25	<25	<125	NA	27.21	21.52	5.69	0.00
S-8 (D)	07/08/1998	4000	1800	<25	<25	31	<125	NA	27.21	NA	NA	NA
S-8	10/26/1998	NA	NA	NA	NA	NA	NA	NA	27.21	22.01	5.20	0.00
S-8	01/28/1999	2000	630	6.2	24	51	43	NA	27.21	23.03	4.18	0.00
S-8	04/23/1999	1050	408	<5.00	<5.00	6.65	<50.0	NA	27.21	22.15	5.06	0.00
S-8	07/29/1999	955	344	<2.50	6.90	16.2	<25.0	NA	27.21	21.95	5.26	0.00

S-9	12/22/1994	2600	400	150	42	310	NA	NA	26.06	24.37	1.69	0.00
S-9	04/20/1995	1900	400	130	51	200	NA	NA	26.06	23.49	2.57	0.00
S-9	10/04/1995	3200	590	260	68	280	NA	NA	26.06	24.01	2.05	0.00
S-9	01/03/1996	Well inaccessible		NA	NA	NA	NA	NA	26.06	NA	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**461 8th Street**  
**Oakland, CA**  
**Wic #204-5508-6200**

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	04/11/1996	2100	440	1500	42	210	<25	NA	26.06	23.61	2.45	0.00
S-9	07/11/1996	5200	940	450	120	520	<50	NA	26.06	23.78	2.28	0.00
S-9 (D)	07/11/1996	4800	890	430	110	500	<50	NA	26.06	NA	NA	NA
S-9	10/02/1996	3000	680	220	56	270	<62	NA	26.06	24.31	1.75	0.00
S-9	01/22/1997	1500	230	71	36	130	<12	NA	26.06	23.08	2.98	0.00
S-9	07/21/1997	3400	590	57	19	210	96	NA	26.06	22.83	3.23	0.00
S-9	01/22/1998	2600	300	46	<10	270	62	NA	26.06	21.96	4.10	0.00
S-9	07/08/1998	820	150	6.2	8	57	<10	NA	26.06	20.85	5.21	0.00
S-9	10/26/1998	NA	NA	NA	NA	NA	NA	NA	26.06	21.39	4.67	0.00
S-9	01/28/1999	<50	1.0	<0.50	<0.50	<0.50	<2.5	NA	26.06	22.32	3.74	0.00
S-9	04/23/1999	NA	NA	NA	NA	NA	NA	NA	26.06	21.41	4.65	0.00
S-9	07/29/1999	117	7.77	0.817	0.683	5.05	<5.00	NA	26.06	21.25	4.81	0.00

S-10	12/22/1994	420	27	8.0	18	45	NA	NA	28.04	25.84	2.20	0.00
S-10	04/20/1995	820	49	3.7	97	52	NA	NA	28.04	24.92	3.12	0.00
S-10	10/04/1995	240	6.5	1.1	16	12	NA	NA	28.04	25.47	2.57	0.00
S-10	01/03/1996	1100	27	4.9	110	70	NA	NA	28.04	25.60	2.44	0.00
S-10	04/11/1996	530	19	1.6	82	52	<5.0	NA	28.04	25.27	2.77	0.00
S-10	07/11/1996	570	16	3.2	53	53	<2.5	NA	28.04	25.46	2.58	0.00
S-10	10/02/1996	270	8.2	0.77	24	23	3.3	NA	28.04	25.81	2.23	0.00
S-10	01/22/1997	160	4.8	0.73	16	11	<2.5	NA	28.04	24.74	3.30	0.00
S-10	07/21/1997	530	5.7	0.70	29	69	<2.5	NA	28.04	24.50	3.54	0.00
S-10	01/22/1998	1500	15	<5.0	88	130	<25	NA	28.04	24.44	3.60	0.00
S-10	07/08/1998	530	4.8	1.1	47	51	<2.5	NA	28.04	22.36	5.68	0.00
S-10	10/26/1998	NA	NA	NA	NA	NA	NA	NA	28.04	22.81	5.23	0.00
S-10	01/28/1999	630	4.6	0.98	<0.50	59	<2.5	NA	28.04	23.82	4.22	0.00

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**461 8th Street**  
**Oakland, CA**  
**Wic #204-5508-6200**

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	04/23/1999	NA	NA	NA	NA	NA	NA	NA	28.04	22.96	5.08	0.00
S-10	07/29/1999	* 728	3.40	<1.00	41.8	38.0	<10.0	NA	28.04	22.63	5.41	0.00

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

TOC = Top of Casing Elevation

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:

\* = Prior to December 22, 1994, well elevations taken from Top of Casing.

a = Ethylbenzene and xylenes combined



# Sequoia Analytical

885 Jarvis Drive  
Morgan Hill, CA 95037  
(408) 776-9600  
FAX (408) 782-6308

August 17, 1999

Ann Pember  
Blaine Tech Services (Shell)  
1680 Rogers Avenue  
San Jose, CA 95112

RE: Equiva 461 8th Street, Oakland/9070177

Dear Ann Pember

Enclosed are the results of analyses for sample(s) received by the laboratory on July 29, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kayvan Kimyai  
Project Manager D.M.

CA ELAP Certificate Number 1210





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 461 8th Street, Oakland Project Manager: Ann Pember	Sampled: 7/29/99 Received: 7/29/99 Reported: 8/17/99
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**ANALYTICAL REPORT FOR 9070177**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
S-4	9070177-01	Water	7/29/99
S-5	9070177-02	Water	7/29/99
S-6	9070177-03	Water	7/29/99
S-8	9070177-04	Water	7/29/99
S-9	9070177-05	Water	7/29/99
S-10	9070177-06	Water	7/29/99





# Sequoia Analytical

1551 Industrial Road  
San Carlos, CA 94070-4111  
(650) 232-9600  
FAX (650) 232-9612

August 12, 1999

Kayvan Kimyai  
Sequoia - Morgan Hill  
885 Jarvis Drive  
Morgan Hill, CA 95037

RE: 1/L908040

Dear Kayvan Kimyai:

Enclosed are the results of analyses for sample(s) received by the laboratory on August 9, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson  
Project Manager

CA ELAP Certificate Number I-2360





Sequoia - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: 1 Project Number: 9070177(Blaine-Equiva) Project Manager: Kayvan Kimyai	Sampled: 7/29/99 Received: 8/9/99 Reported: 8/12/99
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**ANALYTICAL REPORT FOR L908040**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
9070177-01/S-4	L908040-01	Water	7/29/99
9070177-02/S-5	L908040-02	Water	7/29/99
9070177-03/S-6	L908040-03	Water	7/29/99
9070177-04/S-8	L908040-04	Water	7/29/99
9070177-05/S-9	L908040-05	Water	7/29/99
9070177-06/S-10	L908040-06	Water	7/29/99







Sequoia - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: 1 Project Number: 9070177(Blaine-Equiva) Project Manager: Kayvan Kimyai	Sampled: 7/29/99 Received: 8/9/99 Reported: 8/12/99
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**Sample Description:** 9070177-01/S-4  
**Laboratory Sample Number:** L908040-01

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - San Carlos

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

Purgeable Hydrocarbons as Gasoline	9080038	8/9/99	8/9/99		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	"	"	"		5.00	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		93.4	%	





Sequoia - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: 1 Project Number: 9070177(Blaine-Equiva) Project Manager: Kayvan Kimyai	Sampled: 7/29/99 Received: 8/9/99 Reported: 8/12/99
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**Sample Description:** 9070177-02/S-5  
**Laboratory Sample Number:** L908040-02

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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**Sequoia Analytical - San Carlos**

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

Purgeable Hydrocarbons as Gasoline	9080048	8/10/99	8/10/99		10000	61400	ug/l	1
Benzene	"	"	"		100	3320	"	
Toluene	"	"	"		100	6980	"	
Ethylbenzene	"	"	"		100	1520	"	
Xylenes (total)	"	"	"		100	7700	"	
Methyl tert-butyl ether	"	"	"		1000	ND	"	
Surrogate: <i>a,a</i> -Trifluorotoluene	"	"	"	70.0-130		91.3	%	





Sequoia - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: 1 Project Number: 9070177(Blaine-Equiva) Project Manager: Kayvan Kimyai	Sampled: 7/29/99 Received: 8/9/99 Reported: 8/12/99
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Sample Description: **9070177-03/S-6**  
 Laboratory Sample Number: **L908040-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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**Sequoia Analytical - San Carlos**

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

Purgeable Hydrocarbons as Gasoline	9080048	8/10/99	8/10/99		10000	36200	ug/l	1
Benzene	"	"	"		100	10300	"	
Toluene	"	"	"		100	760	"	
Ethylbenzene	"	"	"		100	930	"	
Xylenes (total)	"	"	"		100	1360	"	
Methyl tert-butyl ether	"	"	"		1000	ND	"	
Surrogate: <i>a,a</i> -Trifluorotoluene	"	"	"	70.0-130		94.8	%	





Sequoia - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: 1 Project Number: 9070177(Blaine-Equiva) Project Manager: Kayvan Kimyai	Sampled: 7/29/99 Received: 8/9/99 Reported: 8/12/99
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**Sample Description:** 9070177-04/S-8  
**Laboratory Sample Number:** L908040-04

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - San Carlos

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

Purgeable Hydrocarbons as Gasoline	9080048	8/10/99	8/10/99		250	955	ug/l	1
Benzene	"	"	"		2.50	344	"	
Toluene	"	"	"		2.50	ND	"	
Ethylbenzene	"	"	"		2.50	6.90	"	
Xylenes (total)	"	"	"		2.50	16.2	"	
Methyl tert-butyl ether	"	"	"		25.0	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		99.5	%	





Sequoia - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: 1 Project Number: 9070177(Blaine-Equiva) Project Manager: Kayvan Kimyai	Sampled: 7/29/99 Received: 8/9/99 Reported: 8/12/99
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**Sample Description:** 9070177-05/S-9  
**Laboratory Sample Number:** L908040-05

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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**Sequoia Analytical - San Carlos**

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

Purgeable Hydrocarbons as Gasoline	9080038	8/9/99	8/9/99		50.0	117	ug/l	
Benzene	"	"	"		0.500	7.77	"	
Toluene	"	"	"		0.500	0.817	"	
Ethylbenzene	"	"	"		0.500	0.683	"	
Xylenes (total)	"	"	"		0.500	5.05	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		90.4	%	





Sequoia - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: I Project Number: 9070177(Blaine-Equiva) Project Manager: Kayvan Kimyai	Sampled: 7/29/99 Received: 8/9/99 Reported: 8/12/99
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**Sample Description:** 9070177-06/S-10  
**Laboratory Sample Number:** L908040-06

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9080048	8/10/99	8/10/99		100	728	ug/l	i
Benzene	"	"	"		1.00	3.40	"	
Toluene	"	"	"		1.00	ND	"	
Ethylbenzene	"	"	"		1.00	41.8	"	
Xylenes (total)	"	"	"		1.00	38.0	"	
Methyl tert-butyl ether	"	"	"		10.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		94.2	%	





Sequoia - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: 1 Project Number: 9070177(Blaine-Equiva) Project Manager: Kayvan Kimyai	Sampled: 7/29/99 Received: 8/9/99 Reported: 8/12/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control**  
**Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
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<b>Batch: 9080038</b>	<b>Date Prepared: 8/9/99</b>		<b>Extraction Method: EPA 5030B (P/T)</b>							
<b>Blank</b>	<b>9080038-BLK1</b>									
Purgeable Hydrocarbons as Gasoline	8/9/99			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	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.58	"	70.0-130	95.8			

<b>LCS</b>	<b>9080038-BS1</b>									
Purgeable Hydrocarbons as Gasoline	8/9/99	250		268	ug/l	70.0-130	107			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.1	"	70.0-130	101			

<b>Matrix Spike</b>	<b>9080038-MS1</b>	<b>L908040-01</b>								
Purgeable Hydrocarbons as Gasoline	8/9/99	250	ND	286	ug/l	60.0-140	114			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.5	"	70.0-130	105			

<b>Matrix Spike Dup</b>	<b>9080038-MSD1</b>	<b>L908040-01</b>								
Purgeable Hydrocarbons as Gasoline	8/9/99	250	ND	275	ug/l	60.0-140	110	25.0	3.57	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.7	"	70.0-130	107			

<b>Batch: 9080048</b>	<b>Date Prepared: 8/10/99</b>		<b>Extraction Method: EPA 5030B (P/T)</b>							
<b>Blank</b>	<b>9080048-BLK1</b>									
Purgeable Hydrocarbons as Gasoline	8/10/99			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	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.78	"	70.0-130	97.8			

<b>LCS</b>	<b>9080048-BS1</b>									
Benzene	8/10/99	10.0		7.44	ug/l	70.0-130	74.4			
Toluene	"	10.0		7.55	"	70.0-130	75.5			
Ethylbenzene	"	10.0		7.66	"	70.0-130	76.6			
Xylenes (total)	"	30.0		22.9	"	70.0-130	76.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.25	"	70.0-130	92.5			

<b>Matrix Spike</b>	<b>9080048-MS1</b>	<b>L908051-05</b>								
Benzene	8/11/99	10.0	ND	8.04	ug/l	60.0-140	80.4			
Toluene	"	10.0	ND	8.07	"	60.0-140	80.7			





Sequoia - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: 1 Project Number: 9070177(Blaine-Equiva) Project Manager: Kayvan Kimyai	Sampled: 7/29/99 Received: 8/9/99 Reported: 8/12/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control**  
**Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Matrix Spike (continued)</b>		<b>9080048-MS1</b>	<b>L908051-05</b>							
Ethylbenzene	8/11/99	10.0	ND	8.18	ug/l	60.0-140	81.8			
Xylenes (total)	"	30.0	ND	24.2	"	60.0-140	80.7			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.40	"	70.0-130	94.0			
<b>Matrix Spike Dup</b>		<b>9080048-MSD1</b>	<b>L908051-05</b>							
Benzene	8/11/99	10.0	ND	7.40	ug/l	60.0-140	74.0	25.0	8.29	
Toluene	"	10.0	ND	7.44	"	60.0-140	74.4	25.0	8.12	
Ethylbenzene	"	10.0	ND	7.46	"	60.0-140	74.6	25.0	9.21	
Xylenes (total)	"	30.0	ND	22.2	"	60.0-140	74.0	25.0	8.66	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.61	"	70.0-130	86.1			







Sequoia - Morgan Hill	Project: 1	Sampled: 7/29/99
885 Jarvis Drive	Project Number: 9070177(Blaine-Equiva)	Received: 8/9/99
Morgan Hill, CA 95037	Project Manager: Kayvan Kimyai	Reported: 8/12/99

**Notes and Definitions**

#	Note
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- 1 Chromatogram Pattern: Gasoline C6-C12
- 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



# BLAINE

TECH SERVICES, INC.

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

## CONDUCT ANALYSIS TO DETECT

LAB

Sequoia

DHS #

ALL ANALYSIS MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA
- LIA
- OTHER

RWQCB REGION \_\_\_\_\_

907 0177

CHAIN OF 990729-m2

CLIENT Equiva - Karen Petryna

SITE 461 8th Street  
Oakland, CA

C = COMPOSITE ALL CONTAINERS

### SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 97093399

Sent report to Blaine Tech Services, Inc.

ATTN: Ann Pember

SAMPLE I.D.	DATE	TIME	MATRIX		TOTAL	C = COMPOSITE ALL CONTAINERS	TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			% SOIL	W=H <sub>2</sub> O											
S-4	7-29-99	10:42	W		3		X	X							01
S-5		10:27			3		X	X							02
S-6		11:02			3		X	X							03
S-8		11:22			3		X	X							04
S-9		11:08			3		X	X							05
S-10	✓	11:17	✓		3		X	X							06

SAMPLING COMPLETED 7-29-99 DATE 11:22 TIME PERFORMED BY Mark Jamison RESULTS NEEDED NO LATER THAN

RELEASED BY Mark Jamison DATE 7/29/99 TIME 5:55 RECEIVED BY [Signature] DATE 7/29/99 TIME 5:55

RELEASED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ RECEIVED BY [Signature] DATE 7/29 TIME 15:39

RELEASED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ RECEIVED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

SHIPPED VIA \_\_\_\_\_ DATE SENT \_\_\_\_\_ TIME SENT \_\_\_\_\_ COOLER # \_\_\_\_\_



## EQUIVA WELL MONITORING DATA SHEET

Project #: 990729-m2	Job # 2041-5508-0200
Sampler: M7	Date: 7-29-99
Well I.D.: 5-4	Well Diameter: 2 3 <u>6</u> 8
Total Well Depth: 29.05	Depth to Water: 21.45
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer  Middleburg  Electric Submersible  Extraction Pump  Other: \_\_\_\_\_

Sampling Method:  Bailer  Extraction Port  Other: \_\_\_\_\_

1 Case Volume (Gals.)	X	Specified Volumes	=	Calculated Volume	Gals.
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Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
10:40	64.9	6.8	664	38		

Did well dewater? Yes  No  Gallons actually evacuated: \_\_\_\_\_

Sampling Time: 10:42 Sampling Date: 7-29-99

Sample I.D.: 5-4 Laboratory: Sequoia BC Other: \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## EQUIVA WELL MONITORING DATA SHEET

Project #: 990729-M2	Job # 204-5508-6200
Sampler: M7	Date: 7-29-89
Well I.D.: 5-5	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 41.20	Depth to Water: 14.77
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer  Middleburg  Electric Submersible  Extraction Pump

Other: \_\_\_\_\_

Sampling Method:  Bailer  Extraction Port

Other: \_\_\_\_\_

_____	X	_____	=	_____ Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
10:25	66.7	6.2	1082	23	—	

Did well dewater? Yes  No  Gallons actually evacuated: \_\_\_\_\_

Sampling Time: 10:27 Sampling Date: 7-29-89

Sample I.D.: ~~M7~~ 5-5 Laboratory:  Sequoia  BC Other: \_\_\_\_\_

Analyzed for:  TPH-G  BTEX  MTBE  TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## EQUIVA WELL MONITORING DATA SHEET

Project #: 990729-m2	Job # 204-5508-6200
Sampler: MT	Date: 7-29-99
Well I.D.: 56	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 36.64	Depth to Water: 21.35
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer  Middleburg  Electric Submersible  Extraction Pump

Other: \_\_\_\_\_

Sampling Method:  Bailer  Extraction Port

Other: \_\_\_\_\_

_____	X	_____	=	_____	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
11:00	68.0	6.5	811	39	—	

Did well dewater? Yes  No  Gallons actually evacuated: \_\_\_\_\_

Sampling Time: 11:02 Sampling Date: 7-29-99

Sample I.D.: 56 Laboratory: Sequoia BC Other: \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## EQUIVA WELL MONITORING DATA SHEET

Project #: 990729-m2	Job # 204-5508-620
Sampler: MT	Date: 7-29-99
Well I.D.: S-8	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 29.36	Depth to Water: 21.95
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer  Middleburg  Electric Submersible  Extraction Pump

Other: \_\_\_\_\_

Sampling Method:  Bailer  Extraction Port

Other: \_\_\_\_\_

_____	X	_____	=	_____ Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
11:20	67.3	6.5	788	21		

Did well dewater? Yes  No  Gallons actually evacuated: \_\_\_\_\_

Sampling Time: 11:22      Sampling Date: 7-29-99

Sample I.D.: S-8      Laboratory: Sequoia BC Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## EQUIVA WELL MONITORING DATA SHEET

Project #: 990729-m2	Job #: 204-5808-6200
Sampler: MT	Date: 7-29-99
Well I.D.: 5-9	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 30.20	Depth to Water: 21.25
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer  Middleburg  Electric Submersible Extraction Pump  Other: \_\_\_\_\_

Sampling Method:  Bailer  Extraction Port  Other: \_\_\_\_\_

_____	X	_____	=	_____	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
11:06	66.7	6.6	630	22		

Did well dewater? Yes  No  Gallons actually evacuated: \_\_\_\_\_

Sampling Time: 11:08 Sampling Date: 7-29-99

Sample I.D.: 5-9 Laboratory: Sequoia BC Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV



## EQUIVA WELL MONITORING DATA SHEET

Project #: 990729-w2	Job # 204-5508-6200
Sampler: m7	Date: 7-29-99
Well I.D.: 5-10	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 36.65	Depth to Water: 22.63
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer  Middleburg  Electric Submersible  Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method:  Bailer  Extraction Port  
 Other: \_\_\_\_\_

_____	X	_____	=	_____ Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
11:15	66.8	6.3	1058	27		

Did well dewater? Yes  No  Gallons actually evacuated: \_\_\_\_\_

Sampling Time: 11:17 Sampling Date: 7-29-99

Sample I.D.: 5-10 Laboratory: Sequoia BC Other: \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV