

C A M B R I A

ENVIRONMENTAL  
PROTECTION

March 3, 2000

00 MAR 10 PM 1: 01

eva chu  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, California 94502

Re: **Fourth Quarter 1999 Monitoring Report**  
Shell-branded Service Station  
8930 Bancroft Avenue  
Oakland, California  
Incident #98995742  
Cambria Project #242-1408-002



Dear Ms.chu:

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

#### **FOURTH QUARTER 1999 ACTIVITIES**

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

**Alameda County Health Care Services Agency (ACHCSA) Letter Response:** In response to ACHSCA's letter dated November 1, 1999, Cambria is performing a ~~conduit study and well survey~~ in order to begin developing a site conceptual model for the site. This information will be included in the first quarter 2000 monitoring report.

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

#### **ANTICIPATED FIRST QUARTER 2000 ACTIVITIES**

**Cambria  
Environmental  
Technology, Inc.**

**Ground Water Monitoring:** Blaine will gauge and sample all site 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

**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

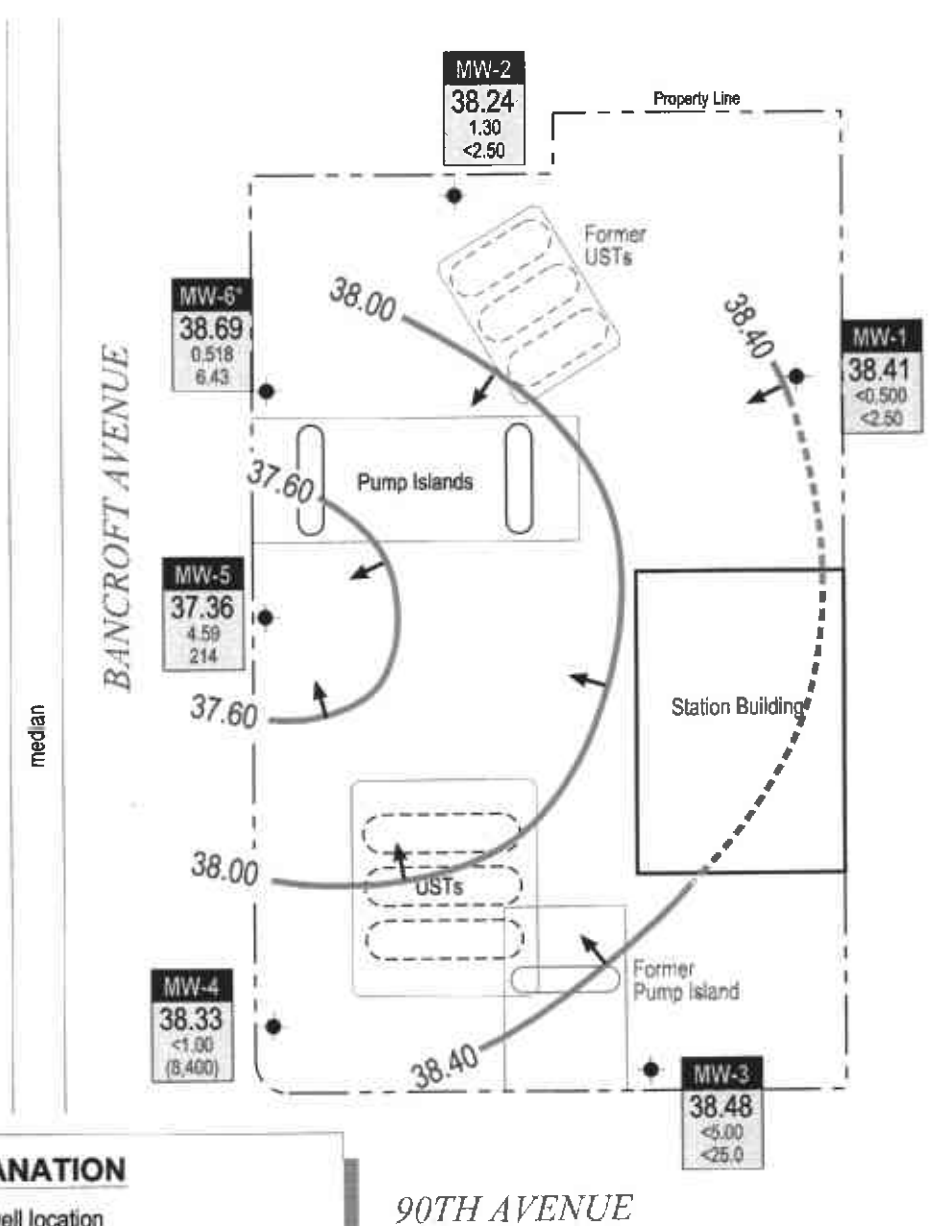
Ailsa Le May, R.G.  
Senior Geologist



Figure: 1 - Ground Water Elevation Contour Map  
Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91501-7869  
Leroy Griffin, City of Oakland Fire Department, 505 14<sup>th</sup> Street. Suite 702, Oakland, CA 94612

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**EXPLANATION**

- MW-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), approximately located; dashed where inferred

- Well — Well designation
- ELEV — Ground water elevation, in feet above msl
- Benzene — Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8020; MTBE results in parentheses are analyzed by EPA Method 8260
- MTBE —

90TH AVENUE

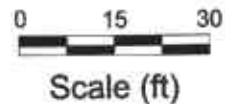


FIGURE 1

G:\CAG\6930\FIGURES\40M99-MP.DWG

**Shell-branded Service Station**  
 8930 Bancroft Avenue  
 Oakland, California  
 Incident #98995742



C A M B R I A

**Ground Water Elevation Contour Map**

December 23, 1999

**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

January 27, 2000

Karen Petryna  
Equiva Services LLC  
P.O. Box 7869  
Burbank, CA 91510-7869

Fourth Quarter 1999 Groundwater Monitoring at  
Shell-branded Service Station  
8930 Bancroft Avenue  
Oakland, CA

Monitoring performed on December 23, 1999

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Groundwater Monitoring Report **991223-I-1**

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, 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. Purge water (if applicable) is, likewise, collected and transported to the Shell Martinez Manufacturing Complex.

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/jh

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

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

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**8930 Bancroft Avenue**  
**Oakland, CA**  
**Wic #204-5508-1305**

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.)	GW Elevation (MSL)
MW-1	12/17/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	53.19	11.87	41.32
MW-1	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	8.21	44.98
MW-1	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	15.04	38.15
MW-1	09/30/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	16.02	37.17
MW-1	12/23/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	14.78	38.41
MW-2	12/17/1998	9,900	NA	<5.0	37	22	47	48	<20	52.66	11.65	41.01
MW-2	03/09/1999	2,760	NA	12.3	7.50	85.4	444	<50.0	NA	52.66	8.07	44.59
MW-2	06/16/1999	2,570	NA	36.3	11.6	6.19	10.8	<50.0	NA	52.66	14.63	38.03
MW-2	09/30/1999	1,960	NA	19.1	3.20	4.55	26.9	<25.0	NA	52.66	15.63	37.03
MW-2	12/23/1999	145	NA	1.30	<0.500	<0.500	0.899	<2.50	NA	52.66	14.42	38.24
MW-3	12/17/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	10	11	51.30	11.85	39.45
MW-3	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.30	6.53	44.77
MW-3	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.30	12.71	38.59
MW-3	09/30/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	5.14	NA	51.30	14.07	37.23
MW-3	12/23/1999	<500	NA	<5.00	<5.00	<5.00	<5.00	<25.0	NA	51.30	12.82	38.48
MW-4	12/17/1998	700	NA	4.3	0.88	<0.50	<0.50	21,000	26,000	50.73	10.80	39.93
MW-4	03/09/1999	83.9	NA	<0.500	<0.500	<0.500	<0.500	17,900	23,700	50.73	6.91	43.82
MW-4	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	10,600	19,200	50.73	12.84	37.89
MW-4	09/30/1999	51.2	NA	<0.500	<0.500	<0.500	<0.500	12,200	12,300	50.73	13.74	36.99
MW-4	12/23/1999	<100	NA	<1.00	<1.00	<1.00	<1.00	7,990	8,400	50.73	12.40	38.33
MW-5	12/17/1998	750	NA	<0.50	17	1.8	3.5	33	32	51.43	11.51	39.92
MW-5	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.43	7.15	44.28
MW-5	06/16/1999	646	NA	9.26	1.05	<1.00	<1.00	<10.0	NA	51.43	13.47	37.96

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**8930 Bancroft Avenue**  
**Oakland, CA**  
**Wic #204-5508-1305**

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.)	GW Elevation (MSL)
MW-5	09/30/1999	484	NA	1.93	0.511	<0.500	<0.500	159	NA	51.43	14.41	37.02
MW-5	12/23/1999	944	NA	4.59	17.7	3.79	16.7	214	NA	51.43	14.07	37.36
MW-6	12/17/1998	940	NA	27	0.32	2.4	2.3	3.0	3.2	51.88	11.37	40.51
MW-6	03/09/1999	336	NA	7.78	1.60	2.40	6.36	<10.0	NA	51.88	8.10	43.78
MW-6	06/16/1999	308	NA	2.45	<0.500	<0.500	<0.500	7.39	NA	51.88	14.49	37.39
MW-6	09/30/1999	80.2	NA	<0.500	<0.500	<0.500	<0.500	24.8	NA	51.88	15.30	36.58
MW-6	12/23/1999	149	NA	0.518	<0.500	<0.500	<0.500	6.43	NA	51.88	13.19	38.69

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 by EPA Method 8020

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

NA = Not applicable





# Sequoia Analytical

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

January 10, 2000

Leah Davis  
Blaine Tech Services (Shell)  
1680 Rogers Avenue  
San Jose, CA 95112

RE: Equiva 8930 Bancroft Ave., Oakland/M912888

Dear Leah Davis

Enclosed are the results of analyses for sample(s) received by the laboratory on December 23, 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: 8930 Bancroft Ave.  
Project Manager: Leah Davis

Sampled: 12/23/99  
Received: 12/23/99  
Reported: 1/10/00

**ANALYTICAL REPORT FOR M912888**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	M912888-01	Water	12/23/99
MW-2	M912888-02	Water	12/23/99
MW-3	M912888-03	Water	12/23/99
MW-4	M912888-04	Water	12/23/99
MW-5	M912888-05	Water	12/23/99
MW-6	M912888-06	Water	12/23/99





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 8930 Bancroft Ave. Project Manager: Leah Davis	Sampled: 12/23/99 Received: 12/23/99 Reported: 1/10/00
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT  
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>MW-1</b>				<b>M912888-01</b>		<b>Water</b>		
Purgeable Hydrocarbons	0010012	1/2/00	1/2/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		99.5	%	
<b>MW-2</b>				<b>M912888-02</b>		<b>Water</b>		
Purgeable Hydrocarbons	0010012	1/2/00	1/2/00		50.0	145	ug/l	1
Benzene	"	"	"		0.500	1.30	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	0.899	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		70.7	%	
<b>MW-3</b>				<b>M912888-03</b>		<b>Water</b>		
Purgeable Hydrocarbons	0010012	1/2/00	1/2/00		500	ND	ug/l	D
Benzene	"	"	"		5.00	ND	"	D
Toluene	"	"	"		5.00	ND	"	D
Ethylbenzene	"	"	"		5.00	ND	"	D
Xylenes (total)	"	"	"		5.00	ND	"	D
Methyl tert-butyl ether	"	"	"		25.0	ND	"	D
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		97.8	%	
<b>MW-4</b>				<b>M912888-04</b>		<b>Water</b>		
Purgeable Hydrocarbons	0010012	1/2/00	1/2/00		100	ND	ug/l	D
Benzene	"	"	"		1.00	ND	"	D
Toluene	"	"	"		1.00	ND	"	D
Ethylbenzene	"	"	"		1.00	ND	"	D
Xylenes (total)	"	"	"		1.00	ND	"	D
Methyl tert-butyl ether	"	"	1/6/00		250	7990	"	2,D
Surrogate: a,a,a-Trifluorotoluene	"	"	1/2/00	70.0-130		94.7	%	
<b>MW-5</b>				<b>M912888-05</b>		<b>Water</b>		
Purgeable Hydrocarbons	0010109	1/5/00	1/5/00		250	944	ug/l	3,D
Benzene	"	"	"		2.50	4.59	"	D
Toluene	"	"	"		2.50	17.7	"	D
Ethylbenzene	"	"	"		2.50	3.79	"	D
Xylenes (total)	"	"	"		2.50	16.7	"	D





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 8930 Bancroft Ave. Project Manager: Leah Davis	Sampled: 12/23/99 Received: 12/23/99 Reported: 1/10/00
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT  
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>MW-5 (continued)</b>				<b>M912888-05</b>			<b>Water</b>	
<b>Methyl tert-butyl ether</b>	0010109	1/5/00	1/5/00		12.5	<b>214</b>	ug/l	D
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		81.2	%	
<b>MW-6</b>				<b>M912888-06</b>			<b>Water</b>	
<b>Purgeable Hydrocarbons</b>	0010018	1/3/00	1/3/00		50.0	<b>149</b>	ug/l	1
<b>Benzene</b>	"	"	"		0.500	<b>0.518</b>	"	
<b>Toluene</b>	"	"	"		0.500	ND	"	
<b>Ethylbenzene</b>	"	"	"		0.500	ND	"	
<b>Xylenes (total)</b>	"	"	"		0.500	ND	"	
<b>Methyl tert-butyl ether</b>	"	"	"		2.50	<b>6.43</b>	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		103	%	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 8930 Bancroft Ave. Project Manager: Leah Davis	Sampled: 12/23/99 Received: 12/23/99 Reported: 1/10/00
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**MTBE by EPA Method 8260A  
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>MW-4</b>				<b>M912888-04</b>			<b>Water</b>	
<b>Methyl tert-butyl ether</b>	0010224	1/6/00	1/8/00		250	8400	ug/l	D
<i>Surrogate: 1,2-Dichloroethane-d4</i>	"	"	"	70.0-130		76.2	%	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 8930 Bancroft Ave. Project Manager: Leah Davis	Sampled: 12/23/99 Received: 12/23/99 Reported: 1/10/00
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 0010012</b>			<b>Date Prepared: 1/2/00</b>			<b>Extraction Method: EPA 5030B [P/T]</b>				
<b>Blank</b>			<b>0010012-BLK1</b>							
Purgeable Hydrocarbons	1/2/00			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	"	2.50				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.75	"	70.0-130	97.5			
<b>LCS</b>			<b>0010012-BS1</b>							
Benzene	1/2/00	10.0		7.45	ug/l	70.0-130	74.5			
Toluene	"	10.0		7.91	"	70.0-130	79.1			
Ethylbenzene	"	10.0		8.03	"	70.0-130	80.3			
Xylenes (total)	"	30.0		25.9	"	70.0-130	86.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.77	"	70.0-130	97.7			
<b>Matrix Spike</b>			<b>0010012-MS1 M912888-01</b>							
Benzene	1/2/00	10.0	ND	7.80	ug/l	60.0-140	78.0			
Toluene	"	10.0	ND	8.52	"	60.0-140	85.2			
Ethylbenzene	"	10.0	ND	8.51	"	60.0-140	85.1			
Xylenes (total)	"	30.0	ND	26.3	"	60.0-140	87.7			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.2	"	70.0-130	102			
<b>Matrix Spike Dup</b>			<b>0010012-MSD1 M912888-01</b>							
Benzene	1/2/00	10.0	ND	7.83	ug/l	60.0-140	78.3	25.0	0.384	
Toluene	"	10.0	ND	8.51	"	60.0-140	85.1	25.0	0.117	
Ethylbenzene	"	10.0	ND	8.42	"	60.0-140	84.2	25.0	1.06	
Xylenes (total)	"	30.0	ND	26.3	"	60.0-140	87.7	25.0	0	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.89	"	70.0-130	98.9			
<b>Batch: 0010018</b>			<b>Date Prepared: 1/3/00</b>			<b>Extraction Method: EPA 5030B [P/T]</b>				
<b>Blank</b>			<b>0010018-BLK1</b>							
Purgeable Hydrocarbons	1/3/00			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	"	2.50				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.0	"	70.0-130	110			





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 8930 Bancroft Ave. Project Manager: Leah Davis	Sampled: 12/23/99 Received: 12/23/99 Reported: 1/10/00
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>LCS</b>										
<b>0010018-BS1</b>										
Purgeable Hydrocarbons	1/3/00	250		257	ug/l	70.0-130	103			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		10.5	"	70.0-130	105			
<b>Batch: 0010109</b>										
<b>Date Prepared: 1/5/00</b>										
<b>Extraction Method: EPA 5030B [P/T]</b>										
<b>Blank</b>										
<b>0010109-BLK1</b>										
Purgeable Hydrocarbons	1/5/00			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	"	2.50				
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		10.4	"	70.0-130	104			
<b>LCS</b>										
<b>0010109-BS1</b>										
Purgeable Hydrocarbons	1/5/00	250		224	ug/l	70.0-130	89.6			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		7.55	"	70.0-130	75.5			
<b>LCS Dup</b>										
<b>0010109-BSD1</b>										
Purgeable Hydrocarbons	1/5/00	250		264	ug/l	70.0-130	106	25.0	16.8	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		8.21	"	70.0-130	82.1			





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 8930 Bancroft Ave. Project Manager: Leah Davis	Sampled: 12/23/99 Received: 12/23/99 Reported: 1/10/00
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**MTBE by EPA Method 8260A/Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 0010224</b>			<b>Date Prepared: 1/6/00</b>			<b>Extraction Method: EPA 5030B [P/T]</b>				
<b>Blank</b>			<b>0010224-BLK1</b>							
Methyl tert-butyl ether	1/6/00			ND	ug/l	0.500				
Surrogate: 1,2-Dichloroethane-d4	"	10.0		7.29	"	70.0-130	72.9			
<b>Blank</b>			<b>0010224-BLK2</b>							
Methyl tert-butyl ether	1/7/00			ND	ug/l	0.500				
Surrogate: 1,2-Dichloroethane-d4	"	10.0		8.52	"	70.0-130	85.2			
<b>Blank</b>			<b>0010224-BLK3</b>							
Methyl tert-butyl ether	1/8/00			ND	ug/l	0.500				
Surrogate: 1,2-Dichloroethane-d4	"	10.0		7.80	"	70.0-130	78.0			
<b>LCS</b>			<b>0010224-BS1</b>							
Methyl tert-butyl ether	1/6/00	10.0		8.36	ug/l	70.0-130	83.6			
Surrogate: 1,2-Dichloroethane-d4	"	10.0		7.77	"	70.0-130	77.7			
<b>LCS</b>			<b>0010224-BS2</b>							
Methyl tert-butyl ether	1/7/00	10.0		8.68	ug/l	70.0-130	86.8			
Surrogate: 1,2-Dichloroethane-d4	"	10.0		7.65	"	70.0-130	76.5			
<b>LCS</b>			<b>0010224-BS3</b>							
Methyl tert-butyl ether	1/8/00	10.0		8.00	ug/l	70.0-130	80.0			
Surrogate: 1,2-Dichloroethane-d4	"	10.0		7.68	"	70.0-130	76.8			
<b>Matrix Spike</b>			<b>0010224-MS1 M912773-03</b>							
Methyl tert-butyl ether	1/6/00	1000	1410	1910	ug/l	70.0-130	50.0			4,D
Surrogate: 1,2-Dichloroethane-d4	"	10.0		7.60	"	70.0-130	76.0			
<b>Matrix Spike Dup</b>			<b>0010224-MSD1 M912773-03</b>							
Methyl tert-butyl ether	1/6/00	1000	1410	1890	ug/l	70.0-130	48.0	25.0	4.08	4,D
Surrogate: 1,2-Dichloroethane-d4	"	10.0		7.78	"	70.0-130	77.8			







Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 8930 Bancroft Ave. Project Manager: Leah Davis	Sampled: 12/23/99 Received: 12/23/99 Reported: 1/10/00
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### Notes and Definitions

#	Note
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- D Data reported from a dilution.
- 1 Chromatogram Pattern: Gasoline C6-C12
- 2 Sample was analyzed at a second dilution per clients request.
- 3 Chromatogram Pattern: Weathered Gasoline C6-C12 + Unidentified Hydrocarbons C6-C12□□
- 4 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- 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  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

CHAIN OF CUSTODY

991223 I1  
 CLIENT Equiva - Karen Petryna  
 SITE 8930 Bancroft Ave.  
 Oakland, CA

C - COMPOSITE ALL CONTAINERS

CONDUCT ANALYSIS TO DETECT

TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010
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LAB \_\_\_\_\_ DHS # \_\_\_\_\_  
 ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND  
 EPA  RWOCB REGION \_\_\_\_\_  
 LIA  
 OTHER

SPECIAL INSTRUCTIONS  
 Send invoice to Equiva **1912888**  
 Incident # 98995742  
 Send report to Blaine Tech Services  
 Attn: Ann Pember

SAMPLE I.D.	MATRIX S = SOIL W = H2O	CONTAINERS	
		TOTAL	

SAMPLE I.D.	MATRIX	TOTAL	TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
mw-1	W	3	X	X								01
mw-2	W		X	X					confirm highest MTBE	hit by	GPA	8260 02
mw-3	W		X	X								03
mw-4	W		X	X								04
mw-5	W		X	X								05
mw-6	W		X	X								04

SAMPLING COMPLETED	DATE 12-23	TIME 1010	SAMPLING PERFORMED BY	<i>Patricia</i>	RESULTS NEEDED NO LATER THAN
RELEASED BY	<i>[Signature]</i>	DATE 12/23/99	TIME 7:30	RECEIVED BY	<i>[Signature]</i>
RELEASED BY	<i>[Signature]</i>	DATE	TIME	RECEIVED BY	<i>[Signature]</i>
RELEASED BY	<i>[Signature]</i>	DATE	TIME	RECEIVED BY	<i>[Signature]</i>
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #		



# EQUIVA WELL MONITORING DATA SHEET

Project #: 991223-J1	Job # <del>204-5508-1305</del> 204-5508-1305
Sampler: P.F.	Date: 12-23-99
Well I.D.: mw-1	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth: 16.76	Depth to Water: 14.78
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> 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

Sampling Method:

Bailer  
Extraction Port

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

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

0.7	x	3	=	2.1	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
843	58.8	6.7	460	7200	.75	Slow recharge
844	59.2	6.7	400	7200	1.5	
845	59.4	6.8	380	7200	2.25	

Did well dewater? Yes  No

Gallons actually evacuated: 2.25

Sampling Time: 847

Sampling Date: 12-23-99

Sample I.D.: mw-1

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 #: 991723-21	Job # 704-5508-7305
Sampler: P.F.	Date: 12-23-99
Well I.D.: mw-2	Well Diameter: 2 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="checkbox"/>
Total Well Depth: 19.15	Depth to Water: 14.47
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <input checked="" type="checkbox"/> Grade	D.O. Meter (if req'd): YSI <input type="checkbox"/> HACH <input type="checkbox"/>

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

Sampling Method:

Bailer  
Extraction Port  
Other: \_\_\_\_\_

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

<u>1.7</u>	$\times$	<u>3</u>	$=$	<u>5.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1000	66.6	6.8	410	7200	<del>1.75</del> 1.75	
1003	67.0	6.9	396	7200	3.5	
1006	67.4	6.9	380	7200	5.75	

Did well dewater? Yes  No

Gallons actually evacuated: 5.25

Sampling Time: 1010

Sampling Date: 12-23-99

Sample I.D.: mw-2

Laboratory: Sequoia BC Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MPBE 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 #: 991223-I1	Job # 204-5508-1305
Sampler: P.I.	Date: 12-23-99
Well I.D.: MW-3	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth: 19.73	Depth to Water: 12.82
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PTC</u> 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

Sampling Method:

Bailer  
Extraction Port

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

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

2.5	x	3	=	7.5	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
857	64.0	6.8	570	clear	2.5	slow recharge
901	64.4	6.8	560	clear	5.0	odor
905	64.5	6.9	560	clear	7.5	cap looks like <del>cap</del>
						its leaking
						water inside cap

Did well dewater? Yes No

Gallons actually evacuated: 7.5

Sampling Time: 907

Sampling Date: 12-23-99

Sample I.D.: MW-3

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 #: 991223-1	Job # 204-5508-1305
Sampler: P.F.	Date: 12-23-99
Well I.D.: mw-4	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth: 19.71	Depth to Water: 12.40
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> 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: \_\_\_\_\_

<u>2.7</u>	x	<u>3</u>	=	<u>8.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
913	65.0	7.0	440	7200	2.75	
916	65.5	7.0	440	7200	5.5	
920	65.8	7.0	440	7200	8.25	

Did well dewater? Yes  No

Gallons actually evacuated: 8.25

Sampling Time: 922 Sampling Date: 12-23-99

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

Analyzed for: TPH-G BTEX MPBE 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 #: 991223-51	Job # 204-5508-1305
Sampler: P.F.	Date: 12-23-99
Well I.D.: MW-5	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 19.72	Depth to Water: 14.07
Depth to Free Product: 0	Thickness of Free Product (feet):
Referenced to: <u>PYC</u> 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: \_\_\_\_\_

<u>2.1</u>	X	<u>3</u>	=	<u>6.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
945	67.8	6.8	410	clear	2.25	
948	68.0	6.8	390	clear	4.5	
951	68.1	6.9	380	clear	6.5	

Did well dewater? Yes  No

Gallons actually evacuated: 6.5

Sampling Time: 953 Sampling Date: 12-23-99

Sample I.D.: MW-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 #: 991223-D1	Job # 204-5508-1305
Sampler: P.F.	Date: 12-23-99
Well I.D.: mw-6	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 19.94	Depth to Water: 13.19
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PWC 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

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

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

2.4	x	3	=	7.2	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
928	64.7	6.9	430	7200	2.5	odor
932	65.3	7.0	390	7200	5.0	sheen
936	65.4	7.1	360	7200	7.25	

Did well dewater? Yes  No  Gallons actually evacuated: 7.25

Sampling Time: 940 Sampling Date: 12-23-99

Sample I.D.: mw-6 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