CAMBRIA

June 2, 1999

Site: Oakland 8930

Proj. ☐ Rem. ☐ Rpt. ☑ Bill ☐

1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐

Leroy Griffin
City of Oakland Fire Department
505 14th Street, Suite 702
Alameda, California 94502

Re: **First Quarter 1999 Monitoring Report**
Shell-branded Service Station
8930 Bancroft Avenue
Oakland, California
Incident #98995742
Cambria Project #24-314-199

Dear Mr. Griffin:

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 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, is included as Attachment A.

ANTICIPATED SECOND QUARTER 1999 ACTIVITIES

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

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

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

REGISTERED GEOLOGIST
AILSA S. LE MAY
NO. 6717
STATE OF CALIFORNIA

Ailsa 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 90749-6249

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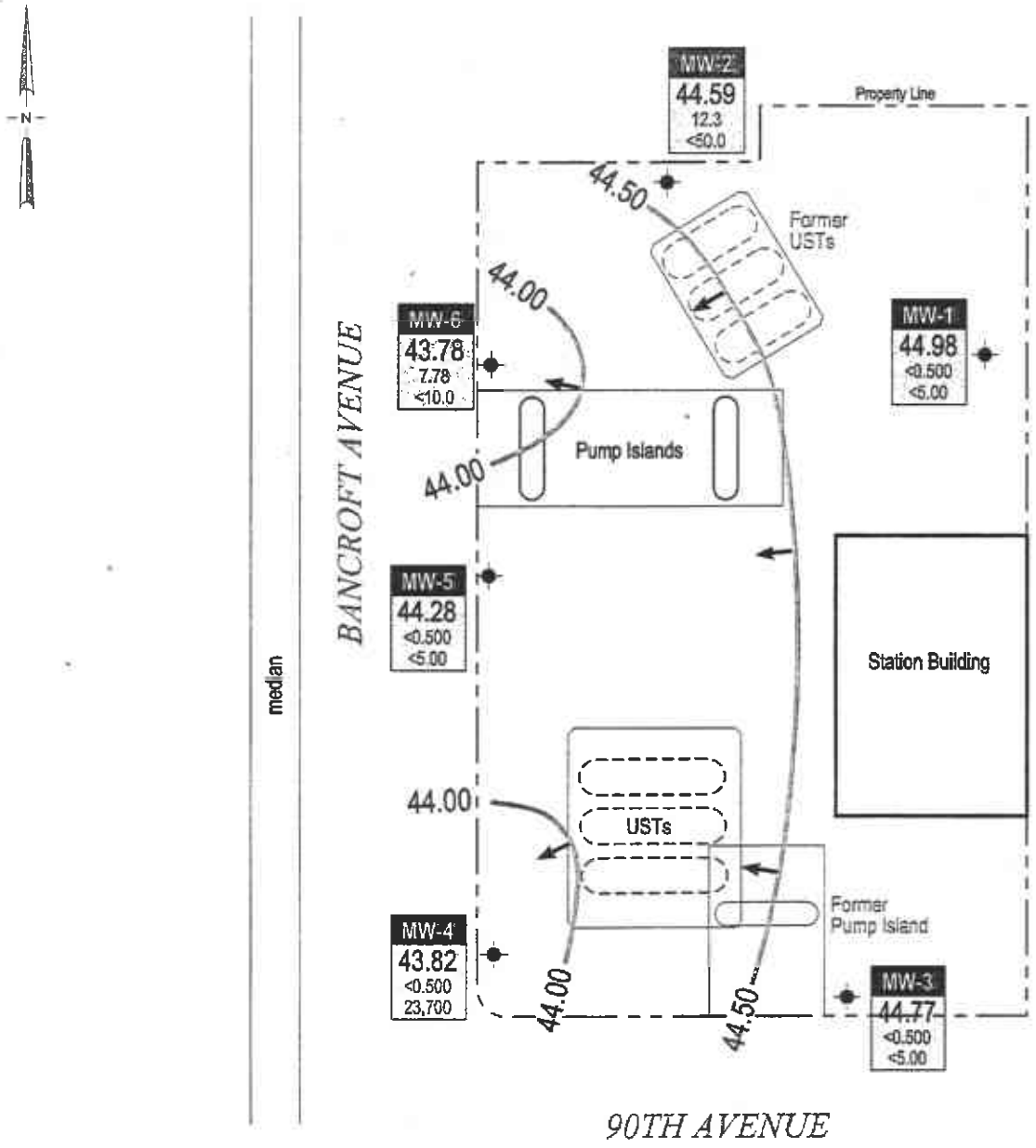

EXPLANATION

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

0 15 30

Scale (ft)

FIGURE 1

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

CAMBRIA

Ground Water Elevation Contour Map

March 9, 1999

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

April 26, 1999

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

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

Monitoring performed on March 9, 1999

Groundwater Monitoring Report **990309-Z-4**

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, apprioriate 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 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,

Deidre Kerwin
Operations Manager

DK/mt

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

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

WELL CONCENTRATIONS
Shell-branded Service Station
8930 Bancroft Avenue
Oakland, California

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-2	12/17/1998	9900	NA	<5.0	37	22	47	48	<20	52.66	11.65	41.01
MW-2	03/09/1999	2760	NA	12.3	7.50	85.4	444	<50.0	NA	52.66	8.07	44.59
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-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-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-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

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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March 30, 1999

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

RE: Shell(2)/L903080

Dear Fran Thie:

Enclosed are the results of analyses for sample(s) received by the laboratory on March 10, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Gregory
Project Manager D.M.

Sequoia Analytical

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

Blaine Tech Services	Project:	Shell(2)	Sampled:	3/9/99
1680 Rogers Avenue	Project Number:	Shell 8930 Bancroft, Oakland	Received:	3/10/99
San Jose, CA 95112	Project Manager:	Fran Thie	Reported:	3/30/99

ANALYTICAL REPORT FOR L903080

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	L903080-01	Water	3/9/99
MW-2	L903080-02	Water	3/9/99
MW-3	L903080-03	Water	3/9/99
MW-4	L903080-04	Water	3/9/99
MW-5	L903080-05	Water	3/9/99
MW-6	L903080-06	Water	3/9/99

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Blaine Tech Services	Project:	Shell(2)	Sampled: 3/9/99
1680 Rogers Avenue	Project Number:	Shell 8930 Bancroft, Oakland	Received: 3/10/99
San Jose, CA 95112	Project Manager:	Fran Thie	Reported: 3/30/99

Sample Description: **MW-1**
Laboratory Sample Number: **L903080-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9030049	3/12/99	3/12/99		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: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*95.9*	%	

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

Blaine Tech Services	Project:	Shell(2)	Sampled: 3/9/99
1680 Rogers Avenue	Project Number:	Shell 8930 Bancroft, Oakland	Received: 3/10/99
San Jose, CA 95112	Project Manager:	Fran Thie	Reported: 3/30/99

Sample Description: **MW-2**
Laboratory Sample Number: **L903080-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9030052	3/12/99	3/12/99		500	**2760**	ug/l	1
Benzene	"	"	"		5.00	**12.3**	"	
Toluene	"	"	"		5.00	**7.50**	"	
Ethylbenzene	"	"	"		5.00	**85.4**	"	
Xylenes (total)	"	"	"		5.00	**444**	"	
Methyl tert-butyl ether	"	"	"		50.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*125*	*%*	

Sequoia Analytical

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

Blaine Tech Services	Project:	Shell(2)	Sampled: 3/9/99
1680 Rogers Avenue	Project Number:	Shell 8930 Bancroft, Oakland	Received: 3/10/99
San Jose, CA 95112	Project Manager:	Fran Thie	Reported: 3/30/99

Sample Description: **MW-3**
Laboratory Sample Number: **L903080-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9030044	3/11/99	3/11/99		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: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*87.4*	%	

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Blaine Tech Services	Project:	Shell(2)	Sampled: 3/9/99
1680 Rogers Avenue	Project Number:	Shell 8930 Bancroft, Oakland	Received: 3/10/99
San Jose, CA 95112	Project Manager:	Fran Thie	Reported: 3/30/99

Sample Description: **MW-4**
Laboratory Sample Number: **L903080-04**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9030049	3/12/99	3/12/99		50.0	**83.9**	ug/l	1
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	9030064	3/16/99	3/16/99		500	**17900**	"	
Surrogate: a,a,a-Trifluorotoluene	9030049	3/12/99	3/12/99	*70.0-130*		*88.6*	%	
MTBE Confirmation by EPA Method 8260A								
Methyl tert-butyl ether	9030124	3/29/99	3/29/99		500	**23700**	ug/l	3
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*100*	%	

Sequoia Analytical

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Blaine Tech Services	Project:	Shell(2)	Sampled: 3/9/99
1680 Rogers Avenue	Project Number:	Shell 8930 Bancroft, Oakland	Received: 3/10/99
San Jose, CA 95112	Project Manager:	Fran Thie	Reported: 3/30/99

Sample Description: **MW-5**
Laboratory Sample Number: **L903080-05**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9030065	3/12/99	3/16/99		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: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*95.9*	%	

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Blaine Tech Services	Project:	Shell(2)	Sampled: 3/9/99
1680 Rogers Avenue	Project Number:	Shell 8930 Bancroft, Oakland	Received: 3/10/99
San Jose, CA 95112	Project Manager:	Fran Thie	Reported: 3/30/99

Sample Description: **MW-6**
Laboratory Sample Number: **L903080-06**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9030049	3/12/99	3/12/99		100	**336**	ug/l	1
Benzene	"	"	"		1.00	**7.78**	"	
Toluene	"	"	"		1.00	**1.60**	"	
Ethylbenzene	"	"	"		1.00	**2.40**	"	
Xylenes (total)	"	"	"		1.00	**6.36**	"	
Methyl tert-butyl ether	"	"	"		10.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*92.9*	%	

Sequoia Analytical

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

Blaine Tech Services	Project:	Shell(2)	Sampled: 3/9/99
1680 Rogers Avenue	Project Number:	Shell 8930 Bancroft, Oakland	Received: 3/10/99
San Jose, CA 95112	Project Manager:	Fran Thie	Reported: 3/30/99

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*
Batch: 9030044	**Date Prepared: 3/11/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9030044-BLK1**									
Purgeable Hydrocarbons as Gasoline	3/11/99			**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*		*10.8*	"	*70.0-130*	*108*			
LCS	**9030044-BS1**									
Benzene	3/11/99	10.0		8.72	ug/l	70.0-130	87.2			
Toluene	"	10.0		8.71	"	70.0-130	87.1			
Ethylbenzene	"	10.0		8.64	"	70.0-130	86.4			
Xylenes (total)	"	30.0		26.0	"	70.0-130	86.7			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.97*	"	*70.0-130*	*99.7*			
Matrix Spike	**9030044-MS1**		**L903025-01**							
Benzene	3/11/99	10.0	ND	8.75	ug/l	60.0-140	**87.5**			
Toluene	"	10.0	ND	8.66	"	60.0-140	**86.6**			
Ethylbenzene	"	10.0	ND	8.58	"	60.0-140	**85.8**			
Xylenes (total)	"	30.0	ND	25.9	"	60.0-140	**86.3**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.13*	"	*70.0-130*	*91.3*			
Matrix Spike Dup	**9030044-MSD1**		**L903025-01**							
Benzene	3/11/99	10.0	ND	8.65	ug/l	60.0-140	**86.5**	25.0	**1.15**	
Toluene	"	10.0	ND	8.56	"	60.0-140	**85.6**	25.0	**1.16**	
Ethylbenzene	"	10.0	ND	8.49	"	60.0-140	**84.9**	25.0	**1.05**	
Xylenes (total)	"	30.0	ND	25.4	"	60.0-140	**84.7**	25.0	**1.87**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.10*	"	*70.0-130*	*91.0*			
Batch: 9030049	**Date Prepared: 3/12/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9030049-BLK1**									
Purgeable Hydrocarbons as Gasoline	3/12/99			**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*		*10.2*	"	*70.0-130*	*102*			

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Blaine Tech Services	Project:	Shell(2)	Sampled: 3/9/99
1680 Rogers Avenue	Project Number:	Shell 8930 Bancroft, Oakland	Received: 3/10/99
San Jose, CA 95112	Project Manager:	Fran Thie	Reported: 3/30/99

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*
LCS	**9030049-BS1**									
Purgeable Hydrocarbons as Gasoline	3/12/99	250		263	ug/l	70.0-130	105			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.51*	"	*70.0-130*	*95.1*			
Matrix Spike	**9030049-MS1**		**L903050-01**							
Purgeable Hydrocarbons as Gasoline	3/12/99	250	ND	275	ug/l	60.0-140	**110**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.2*	"	*70.0-130*	*102*			
Matrix Spike Dup	**9030049-MSD1**		**L903050-01**							
Purgeable Hydrocarbons as Gasoline	3/12/99	250	ND	253	ug/l	60.0-140	**101**	25.0	**8.53**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.34*	"	*70.0-130*	*93.4*			
Batch: 9030052	**Date Prepared: 3/12/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9030052-BLK1**									
Purgeable Hydrocarbons as Gasoline	3/12/99			**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*		*10.2*	"	*70.0-130*	*102*			
LCS	**9030052-BS1**									
Benzene	3/12/99	10.0		10.1	ug/l	70.0-130	101			
Toluene	"	10.0		10.1	"	70.0-130	101			
Ethylbenzene	"	10.0		10.3	"	70.0-130	103			
Xylenes (total)	"	30.0		31.6	"	70.0-130	105			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.7*	"	*70.0-130*	*107*			
Matrix Spike	**9030052-MS1**		**L903050-02**							
Benzene	3/12/99	10.0	ND	10.3	ug/l	60.0-140	**103**			
Toluene	"	10.0	ND	10.3	"	60.0-140	**103**			
Ethylbenzene	"	10.0	ND	10.3	"	60.0-140	**103**			
Xylenes (total)	"	30.0	ND	31.6	"	60.0-140	**105**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.9*	"	*70.0-130*	*109*			
Matrix Spike Dup	**9030052-MSD1**		**L903050-02**							
Benzene	3/12/99	10.0	ND	10.3	ug/l	60.0-140	**103**	25.0	**0**	
Toluene	"	10.0	ND	10.3	"	60.0-140	**103**	25.0	**0**	
Ethylbenzene	"	10.0	ND	10.2	"	60.0-140	**102**	25.0	**0.976**	
Xylenes (total)	"	30.0	ND	32.2	"	60.0-140	**107**	25.0	**1.89**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.4*	"	*70.0-130*	*104*			

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Blaine Tech Services	Project:	Shell(2)	Sampled: 3/9/99
1680 Rogers Avenue	Project Number:	Shell 8930 Bancroft, Oakland	Received: 3/10/99
San Jose, CA 95112	Project Manager:	Fran Thie	Reported: 3/30/99

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*
Batch: 9030065	**Date Prepared: 3/12/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9030065-BLK1**									
Purgeable Hydrocarbons as Gasoline	3/16/99			**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*		*10.0*	"	*70.0-130*	*100*			
LCS	**9030065-BS1**									
Purgeable Hydrocarbons as Gasoline	3/16/99	250		233	ug/l	70.0-130	93.2			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*11.8*	"	*70.0-130*	*118*			
Matrix Spike	**9030065-MS1**									
Benzene	3/16/99	10.0		8.76	ug/l	60.0-140	**87.6**			
Toluene	"	10.0		8.78	"	60.0-140	**87.8**			
Ethylbenzene	"	10.0		9.21	"	60.0-140	**92.1**			
Xylenes (total)	"	30.0		25.7	"	60.0-140	**85.8**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.25*	"	*70.0-130*	*92.5*			
Matrix Spike Dup	**9030065-MSD1**									
Benzene	3/16/99	10.0		9.14	ug/l	60.0-140	**91.4**	25.0	**4.25**	
Toluene	"	10.0		9.25	"	60.0-140	**92.5**	25.0	**5.21**	
Ethylbenzene	"	10.0		9.62	"	60.0-140	**96.2**	25.0	**4.35**	
Xylenes (total)	"	30.0		28.7	"	60.0-140	**95.7**	25.0	**11.0**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.03*	"	*70.0-130*	*90.3*			

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Blaine Tech Services	Project:	Shell(2)	Sampled: 3/9/99
1680 Rogers Avenue	Project Number:	Shell 8930 Bancroft, Oakland	Received: 3/10/99
San Jose, CA 95112	Project Manager:	Fran Thie	Reported: 3/30/99

MTBE Confirmation by EPA Method 8260A/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*
Batch: 9030124	**Date Prepared: 3/26/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9030124-BLK1**									
Methyl tert-butyl ether	3/26/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*48.9*	"	*76.0-114*	*97.8*			
Blank	**9030124-BLK2**									
Methyl tert-butyl ether	3/29/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*51.7*	"	*76.0-114*	*103*			
LCS	**9030124-BS1**									
Methyl tert-butyl ether	3/26/99	50.0		47.8	ug/l	70.0-130	95.6			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*48.0*	"	*76.0-114*	*96.0*			
LCS	**9030124-BS2**									
Methyl tert-butyl ether	3/29/99	50.0		52.8	ug/l	70.0-130	106			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*52.0*	"	*76.0-114*	*104*			

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Blaine Tech Services	Project:	Shell(2)	Sampled: 3/9/99
1680 Rogers Avenue	Project Number:	Shell 8930 Bancroft, Oakland	Received: 3/10/99
San Jose, CA 95112	Project Manager:	Fran Thie	Reported: 3/30/99

Notes and Definitions

#	Note
1	Chromatogram pattern: C6-C12
3	This analysis was run past hold time. The results should be considered estimates.for th
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: 990309-24

Date:
Page 1 of 1

Site Address: 8930 Bancroft , Oakland

WIC#: 204-5508-1305 L903080

Shell Engineer: Karen Petryna | Phone No.: (510) 236-9139 | Fax #:

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

Consultant Contact: Fran Thie | Phone No.: (408) 5730555 | Fax #: 573-7771

Comments: 990309-24

Sampled by: Jeremy

Printed Name: [signature]

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring ☐	4461	24 hours ☐
Site Investigation ☐	4441	48 hours ☐
Soil Classify/Disposal ☐	4442	16 days ☐ (Normal)
Water Classify/Disposal ☐	4443	Other ☐
Soil/Air Rem. or Sys. O & M ☐	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M ☐	4453	
Other ☐		

UST AGENCY: BTS

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602) / MTBE	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-1	3/9			W		3	X		X										*confirm	highest
MW-2	↓			↓		↓	X		X										MTBE	hit by
MW-3	↓			↓		↓	X		X										8260	
MW-4	↓			↓		↓	X		X											
MW-5	↓			↓		↓	X		X											
MW-6	↓			↓		↓	X		X											

Relinquished By (signature):	Printed Name:	Date/Time:	Received (signature):	Printed Name:	Date/Time:
[signature]	Jeremy	Date: 3/10 Time: [illegible]	[signature]	Lance Davidson	Date: 3-10-99 Time: 9:51
[signature]	Lance Davidson	Date: 3-10-99 Time:	[signature]		Date: Time:
[signature]	GERI	Date: 3/11/99 Time: 0905	[signature]	GERI	Date: 3/11/99 Time: 1315

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

WELL GAUGING DATA

Project # 990309-24 Date 3-9-99 Client —

Shell 204-5508-1347
8930 BANCROFT
OAKLAND

Site _____

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW1	3					8.21	18.36	TOC	
MW2	3					8.07	19.76		
MW3	3					6.53	19.60		
MW4	3					6.91	19.60		
MW5	3					7.15	19.65		
MW6	3					8.10	19.52		

EQUIVA WELL MONITORING DATA SHEET

Project #: 990309-Z4	Job # 204-5508-1305
Sampler: JR	Date: 3-9-99
Well I.D.: MW-1	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth: 18.36	Depth to Water: 8.21
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^2 * 0.163

Purge Method: Bailer / Middleburg * / Electric Submersible / Extraction Pump / Other: ____

Sampling Method: Bailer * / Extraction Port / Other: ____

3.8 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 11.4 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1230	63.6	7.3	352	>200	4	NVSOJ
1234	64.0	7.4	300	>200	8	
1238	64.2	7.4	320	>200	12	

Did well dewater? Yes (No) Gallons actually evacuated: 12

Sampling Time: 1241 Sampling Date: 3-9-99

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 #: 990309-Z4	Job # 204-5508-1305
Sampler: JR	Date: 3-9-99
Well I.D.: MW-2	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 19.76	Depth to Water: 8.07
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^2 * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible X / Extraction Pump / Other: ___

Sampling Method: Bailer X / Extraction Port / Other: ___

4.3 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 12.9 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1343	64.8	7.0	250	7200	4.5	turbid
1344	64.6	7.1	240	7200	9	odor
1345	64.4	7.0	210	7200	13	

Did well dewater? Yes (No)	Gallons actually evacuated: 13
Sampling Time: 1348	Sampling Date: 3-9-99
Sample I.D.: MW-2	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 #: 990309-Z4	Job # 204-5508-1305
Sampler: JR	Date: 3-9-99
Well I.D.: MW-3	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 19.60	Depth to Water: 6.53
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^2 * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / Extraction Port / Other: ___

4.7	x	3	=	14.1 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1249	62.6	7.1	200	>200	5	turbid
1250	63.0	7.0	250	>200	10	
1251	63.2	7.0	270	>200	15	

Did well dewater? Yes (No) Gallons actually evacuated: 15

Sampling Time: 1255 Sampling Date: 3-9-99

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 #: 990309-Z4	Job # 204-5508-1305
Sampler: JR	Date: 3-9-99
Well I.D.: MW-4	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 19.60	Depth to Water: 6.91
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	radius² * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible ✓ / Extraction Pump / Other: ___

Sampling Method: Bailer ✓ / Extraction Port / Other: ___

4.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 14.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1302	65.0	7.0	330	>200	5	turb. J
1303	64.8	6.9	400	>200	10	
1304	65.2	6.9	410	>200	15	

Did well dewater? Yes (No)		Gallons actually evacuated: 15	
Sampling Time: 1307		Sampling Date: 3-9-99	
Sample I.D.: MW-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 #: 990309-Z4	Job # 204-5508-1305
Sampler: JR	Date: 3-9-99
Well I.D.: MW-5	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 19.65	Depth to Water: 7.15
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	radius² * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible (✓) / Extraction Pump / Other: ___

Sampling Method: Bailer (✓) / Extraction Port / Other: ___

4.6 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 13.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1315	63.8	7.1	350	7200	5	turbid
1316	63.6	7.0	300	7200	10	
1317	64.0	7.0	280	7200	14	

Did well dewater? Yes (No) Gallons actually evacuated: 14

Sampling Time: 1320 Sampling Date: 3-9-99

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 #: 990309-Z4	Job # 204-5508-1305
Sampler: JR	Date: 3-9-99
Well I.D.: MW-6	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 19.52	Depth to Water: 8.10
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^2 * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible X / Extraction Pump / Other: ___

Sampling Method: Bailer X / Extraction Port / Other: ___

4.2 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 12.6 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1331	65.0	7.0	380	>200	5	turbid
1332	64.8	6.9	360	7200	10	
1333	65.2	6.8	240	>200	13	

Did well dewater? Yes (No) Gallons actually evacuated: 13

Sampling Time: 1335 Sampling Date: 3-9-99

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

4126

WELL HEAD INSPECTION CHECKLIST AND REPAIR ORDER

Client _____ Shell 204-5508-1347 _____ Inspection date: 3-9-99

Site address ____ 8930 BANCROFT OAKLAND _____ Inspected by: JR

_____ BTS Event # 990309-24

1. Lid on the box? Yes No	5. Water standing in the well box?	7. Can cap be pulled loose?
2. Lid whole?	5a. Standing above well top?	8. Can cap seal out water?
3. Lid secure?	5b. Standing below well top?	9. Padlock present?
4. Lid seal intact?	5c. Water even with top of well cap?	10. Padlock found locked?
	6. Well cap/plug present?	11. Padlock functional?

☒ Check box if *no deficiences* were found. Note below deficiencies you were able to correct.

Well I.D.	Deficiency	Corrective Action Taken

Note below all deficiences that could not be corrected and *still need to be corrected.*

Well I.D.	Persisting Deficiency	BTS Office assigns or defers Correction to:	Date assigned	Date corrected

Office review and assignments made by _____ date _____