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

Re: Fourth Quarter 2000 Monitoring Report

Shell-branded Service Station 4226 First Street Pleasanton, California Incident #98995840 Cambria Project #243-0523-002



Dear Mr. Seery:

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

#### **FOURTH QUARTER 2000 ACTIVITIES**

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled the site wells, calculated the groundwater elevation, and compiled the analytical data. Cambria prepared a site vicinity map (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

#### **ANTICIPATED FIRST QUARTER 2001 ACTIVITIES**

Oakland, CA San Ramon, CA

Sonoma, CA

Portland, OR

Cambria will prepare a monitoring report.

Cambria Environmental Technology, Inc.

1144 65th Street Suite B Oakland, CA 94608 Tel (510) 420-0700 Fax (510) 420-9170 Groundwater Monitoring: Blaine will gauge and sample all site wells and tabulate the data.

#### **CLOSING**

We appreciate the opportunity to work with you on this project. Please call Barbara Jakub at (510) 420-3309 if you have any questions or comments.

Sincerely,

Cambria Environmental Technology, Inc

3

Barbara J. Jakub Project Geologist

Stephen Bork, C.E.G., C. HG. Associate Hydrogeologist

Figures:

1 - Vicinity Map

2 - Groundwater Elevation Contour Map

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

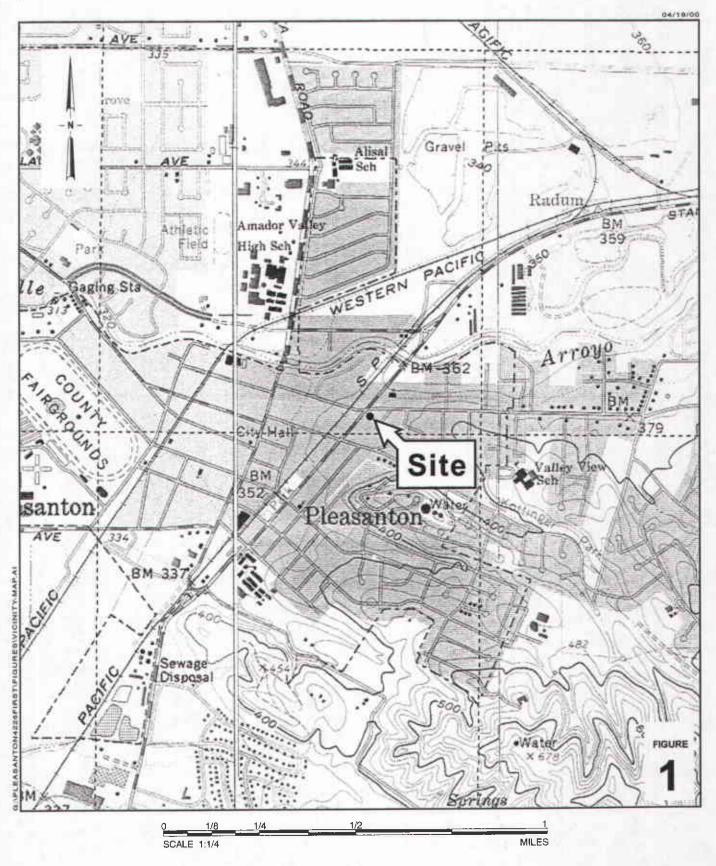
cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869

Douglas E & Mary M Safreno, 1627 Vineyard Avenue, Pleasanton, CA 94566-6389

STEPHAN A. BOR No. EG 2058 CERTIFIED ENGINEERING

**GEOLOGIST** 

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## **Shell-branded Service Station**

4226 First Street Pleasanton, California Incident #98995840



**Vicinity Map** 

CAMBRIA



4226 First Street Pleasanton, California Incident #98995840



Groundwater Elevation Contour Map

CAMBRIA

October 31, 2000

# ATTACHMENT A Blaine Groundwater Monitoring Report and Field Notes



1680 ROGERS AVENUE SAN JOSE, CA 95112-1105 (408) 573-7771 FAX (408) 573-0555 PHONE CONTRACTOR'S LICENSE #746684 www.blainetech.com

December 16, 2000

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

> Fourth Quarter 2000 Groundwater Monitoring at Shell-branded Service Station 4226 First Street Pleasanton, CA

Monitoring performed on October 31, 2000

#### Groundwater Monitoring Report 001031-X-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, 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,

Deidre Kerwin Operations Manager

DK/jt

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

## WELL CONCENTRATIONS Shell-branded Service Station 4226 First Street Pleasanton, CA

		70011	-	_	_	v	**************************************	MTDE 0360	тос	Depth to Water	GW Elevation
Well ID	Date	TPPH	B (ug/L)	/ug/L)	E (ug/L)	X (ug/L)	(ug/L)	MTBE 8260 (ug/L)	(MSL)	(ft.)	(MSL)
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L/	(IVIOL)	(10)	(IVIOL)
MW-1	06/16/1999	NA	NA	NA	NA	NA	NA	NA	371.20	37.81	333.39
MW-1	06/30/1999	89.0	5.89	<0.500	<0.500	0.652	<5.00	NA	371.20	33.65	337.55
MW-1	09/24/1999	1,560	473	<10.0	<10.0	22.8	<2.50	NA	371.20	37.04	334.16
MW-1	12/08/1999	1,020	375	<5.00	<5.00	15.2	<50.0	NA	371.20	36.79	334.41
MW-1	02/10/2000	523	106	<5.00	<5.00	31.8	2.90	NA	371.20	34.90	336.30
MW-1	05/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	37.0	29.5	371.20	32.55	338.65
MW-1	08/03/2000	808	290	<2.50	<2.50	8.90	<12.5	NA	371.20	39.13	332.07
MW-1	10/31/2000	507	250	0.962	<0.500	23.5	3.76	NA	371.20	37.91	333.29
	-			_							
MW-2	02/03/2000	NA	NA	NA	NA	NA	NA	NA	372.40	32.65	339.75
MW-2	02/07/2000	NA	NA	NA	NA	NA	NA	NA	372.40	35.51	336.89
MW-2	02/10/2000	<50.0	<0.500	<0.500	<0.500	<0.500	2.61	NA	372.40	36.62	335.78
MW-2	05/17/2000	120	4.09	<0.500	<0.500	<0.500	29.0	NA	372.40	32.14	340.26
MW-2	08/03/2000	<50.0	0.692	<0.500	<0.500	<0.500	40.5	36.6b	372.40	32.42	339.98
MW-2	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	57.4	44.8c	372.40	33.02	339.38
MW-3	02/03/2000	NA	NA	NA	NA	NA	NA	NA	375.05	32.06	342.99
MW-3	02/07/2000	NA	NA	NA	NA	NA	NA	NA	375.05	32.57	342.48
MW-3	02/10/2000	180	5.12	<0.500	<0.500	0.714	26.8	21.5a	375.05	32.77	342.28
MW-3	05/17/2000	1,360	414	<5.00	<5.00	17.6	<25.0	NA	375.05	31.00	344.05
MW-3	08/03/2000	<50.0	0.536	<0.500	<0.500	<0.500	22.0	NA	375.05	31.03	344.02
MW-3	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	31.1	NA	375.05	31.28	343.77

#### **WELL CONCENTRATIONS**

### Shell-branded Service Station 4226 First Street Pleasanton, CA

										Depth to	GW
Well ID	Date	TPPH	В	Т	E	x	MTBE 8020	MTBE 8260	TOC	Water	Elevation
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(MSL)	(ft.)	(MSL)

#### 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

GW = Groundwater

ug/L ≈ parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

NA = Not applicable

#### Notes:

Well MW-1 surveyed on May 4, 1999 by Virgil Chavez Land Surveying of Vallejo, California.

Site surveyed on March 19, 2000 by Virgil Chavez Land Surveying of Vallejo, California.

a = Sample was analyzed outside of the EPA recommended holding time.

b = Concentration is an estimate value above the linear quantitation range.

c = The result reported was generated out of time. The sample was originally run within hold time, but needed to be re-analyzed.





16 November, 2000

Nick Sudano Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112

RE: 4226 First Street Sequoia Report: MJK0170

Enclosed are the results of analyses for samples received by the laboratory on 11/01/00 12:19. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson Client Services Manager

CA ELAP Certificate #1210





1680 Rogers Avenue San Jose CA, 95112 Project: 4226 First Street

Project Number: 4226 First St./ Pleasanton

Project Manager: Nick Sudano

**Reported:** 11/16/00 17:28

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MJK0170-01	Water	10/31/00 16:57	11/01/00 12:19
MW-2	MJK0170-02	Water	10/31/00 16:27	11/01/00 12:19
MW-3	MJK0170-03	Water	10/31/00 16:03	11/01/00 12:19

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wayne Stevenson, Client Services Manager







1680 Rogers Avenue San Jose CA, 95112 Project: 4226 First Street

Project Number: 4226 First St./ Pleasanton Project Manager: Nick Sudano Reported: 11/16/00 17:28

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

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MJK0170-01) Water	Sampled: 10/31/00 16:57	Received:	11/01/00	12:19					
Purgeable Hydrocarbons	507	50.0	u <b>g</b> /l	1	0K08005	11/08/00	11/08/00	DHS LUFT	P-03
Benzene	250	5.00	**	10	11	11	11/10/00	II	
Toluene	0.962	0.500	*	l	II .	и	11/08/00	**	
Ethylbenzene	ND	0.500	**	**	u	п	**	•	
Xylenes (total)	23.5	0.500	#	"	ff.	ŧτ	**	n	
Methyl tert-butyl ether	3.76	2.50	"			**	**		
Surrogate: a,a,a-Trifluorotolue	ne	145 %	70-	-130	rr .	"	"	n	S-02
MW-2 (MJK0170-02) Water	Sampled: 10/31/00 16:27	Received:	11/01/00	12:19	<u>.</u>				
Purgeable Hydrocarbons	ND	50.0	u <b>g</b> /l	1	0K08005	11/08/00	11/08/00	DHS LUFT	
Benzene	ND	0.500	#	•	tt	11	**	*	
Toluene	ND	0.500	**	"	и	п	**		
Ethylbenzeпe	ND	0.500	11	*	н	u	"	**	
Xylenes (total)	ND	0.500	н	**	*	*	*	#	
Methyl tert-butyl ether	57.4	2.50		n	н	**			
Surrogate: a,a,a-Trifluorotolue	ene	110 %	70	-130	"	m	"	"	
MW-3 (MJK0170-03) Water	Sampled: 10/31/00 16:03	Received:	11/01/0	0 12:19					
Purgeable Hydrocarbons	ND	50.0	ug/l	1	0K08005	11/08/00	11/08/00	DHS LUFT	
Benzene	ND	0.500	**	"	P.	a	**	**	
Toluene	ND	0.500	**	π-	II .	II .	••	**	
Ethylbenzene	ND	0.500	11	*	(*	H	**	P	
Xylenes (total)	ND	0.500	II.	**	ч	**	#		
Methyl tert-butyl ether	31.1	2.50	**	11	*				
Surrogate: a,a,a-Trifluorotolue	ene	98.8 %	70	-130	ď	n	"	"	





1680 Rogers Avenue San Jose CA, 95112 Project: 4226 First Street

Project Number: 4226 First St./ Pleasanton

Project Manager: Nick Sudano

Reported:

11/16/00 17:28

## MTBE Confirmation by EPA Method 8260A

#### Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (MJK0170-02) Water	Sampled: 10/31/00 16:27	Received:	11/01/00	12:19					
Methyl tert-butyl ether	44.8	4.00	ug/l	4	0K16001	11/15/00	11/15/00	EPA 8260A	H-06
Surrogate: 1,2-Dichloroethane-	d4	71.8 %	70-	-130	"	"	"	"	H-06





Project: 4226 First Street

1680 Rogers Avenue San Jose CA, 95112 Project Number: 4226 First St./ Pleasanton

Project Manager: Nick Sudano

Reported: 11/16/00 17:28

#### **Notes and Definitions**

H-06 The result reported was generated out of hold time. The sample was originally run within hold time, but needed to be re-analyzed.

P-03 Chromatogram Pattern: Unidentified Hydrocarbons C6-C12

Q-01 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.

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds

present in the sample.

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

RPD Relative Percent Difference

•				_								LAB	SEQUOIA		DHS#
DEWINE	SAN JOSE, CAL	IFORNIA FAX (40	RS AVENU \ 95112-110 08) 573-777 08) 573-055	5 '1		CONE	DUCT A	NALY	SIS TO	DETECT		ALL ANALYSES MUST LIMITS SET BY CALIFO EPA LIA	MEET SPECIFIC	!	DETECTION
TECH SERVICES, INC.			<u> </u>	1								OTHER	μ.	1K0170	
SITE 4226 First Pleasanton  SAMPLE I.D. DATE TO MW-C 194100 1	aren Petryna Street		TAINERS	C = COMPOSITE ALL CONTAINERS	ストメ TPH - gas, BTEX	XX MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260			Send invoice to Send report to I ADD'L INFORMATION CONFIRM HIGHE	Equiva Incident # Blaine Tech S ATTN: Nic	989958 Services, In	40 c.
IOMAII LIITO I	TIME SAMP	LING	ву Ноу	D/  (   D/	AŢE	00	TIM  TIM  TIM	1 <b>:</b> 		RECEIVE	D BY	as M (A	nH)	DATE   DATE  DATE   I   I   OU	TIME   1048  TIME   1249 F

## WELL GAUGING DATA

Project #	0010	3/-×4	Date	10/31/00	Client _	EQUIVA	· ·
Site	4226	First	<b>\$</b> 7	Plasanton (	:4		

				Thickness	Volume of	<del></del>		1	y·
	Well		Depth to	of	Immiscibles			Commen	
	Size	Sheen /	Immiscible	Immiscible	Removed	Depth to water	Depth to well	Survey	
Well ID	(in.)	Odor	Liquid (ft.)	Liquid (ft.)	(ml)	(ft.)	bottom (ft.)	or/10C	
IA.c.	2			-	_			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
14W-1		1	1			57,91	56.70		
MW-Z	4		-			33.02	45.61		
MW-1 MW-2 MW-3	14					37.91 33.02 31.28	23.95		
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Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

EQUIVA WELL MONITORING DATA SHEET

				<del></del>	_ <del></del>					
BTS #:	00/03/	- x 4		Site: 980	995840	3				
Sampler:	Hor	7		Date: /0 /	131/60					
Well I.D.	: MW	-/		Well Diameter	r: 2 3 4	6 8				
Total We	il Depth:	56.70	<i>&gt;</i>	Depth to Wate	er: 37,9/					
_	Free Produ	uct:		Thickness of Free Product (feet):						
Reference	ed to:	PVC	Grade	D.O. Meter (if req'd): YSI HACH						
Purge Meth	od: Bailer Disposable B Middleburg Electric Subn	ン	Waterra Peristaltic Extraction Pump Other	Sampling Method:  Disposable Bailer  Extraction Port  Dedicated Tubing  Other:  Well Diameter Multiplier Well Diameter Multiplier						
3.0	(Gals.) X	3	- 9	1"	0.04 4" 0.16 6"	0.65 1.47				
l Case Volun	'	pecified Volum	mes Calculated Vo	Gals.	0.37 Other	,				
Time	Temp (°F)	рН	Cond.	Turbidity	Gals. Removed	Observations				
1649	68,2	7.48	1675	103	3					
1651	67.4	7,09	1710	119	6					
1653	66.4	7.68	1716	142	9					
Did well o	lewater?	Yes (	No	Gallons actuall	y evacuated:	9				
Sampling	Time:	1657		Sampling Date:	: /0/3//	60				
Sample I.I	D.: MI	ω-/		Laboratory:	Sequoia Colum	bia Other				
Analyzed	for: TPH-0	G BTEX	MTBE TPH-D	Other:						
EB I.D. (i	f applicabl	e):	@ Time	Duplicate I.D. (	(if applicable):					
Analyzed	for: TPH-C	G BTEX	МТВЕ ТРН-D	Other:		4				
O.O. (if re	q'd):		Pre-purge:	mg/ <sub>L</sub>	Post-purge:	<sup>™g</sup> /L				
O.R.P. (if	req'd):	· <del>-</del>	Pre-purge:	тV	Post-purge:	mV				

EQUIVA WELL MONITORING DATA SHEET

		9:1101011	DATA SILEE	<u>L</u>			
BTS #: 60/031-x4		Site: 9899 5840					
Sampler: HoyT		Date: 10/	31/00				
Well I.D.: Mu-2		Well Diameter: 2 3 4 6 8					
Total Well Depth: 45,61		Depth to Water: 33.02					
Depth to Free Product:	_	Thickness of Free Product (feet):					
Referenced to:	Grade	D.O. Meter (i		YSI HACH			
/		Weil Diame	Disposable Bailer Extraction Port Dedicated Tubing	– 1 Diameter Multiplier 0.65 1.47			
Time Temp (°F) pH	Cond.	Turbidity	Gals. Removed	Observations			
1620 69.1 6.67 1	840	46	8				
1622 70.3 666 1	882	59	76				
1624 70.7 6.65 1	919	93	25				
Did well dewater? Yes No		Gallons actuall	y evacuated:	75			
Sampling Time: (6 27		Sampling Date		0			
Sample I.D.: MW-Z		Laboratory: C	Sequoia Colum	-			
Analyzed for TPH-G BTEX MTB	TPH-D	Other:					
EB I.D. (if applicable):	Time	Duplicate I.D. (if applicable):					
Analyzed for: TPH-G BTEX MTBE	E TPH-D	Other:	<del> </del>				
D.O. (if req'd):	Pre-purge:	mg/Li	Post-purge:	mg/ <sub>L</sub>			
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV			
			·				

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

EQUIVA WELL MONITORING DATA SHEET

рте 4.					Ditti Shee	L 				
1	60103	1-x4		Site: 98	995840	<u>)</u>				
Sampler:	<del></del>			Date: 10/	3//00					
Well I.D	: Mw.	<u>.3</u>		Well Diamete	er: 2 3 <b>4</b>	6 8				
Total We	ell Depth:	33.9	5	Depth to Wate	er: 31.28					
	Free Produ	uct:		1	Free Product (fe	eer):				
Reference	ed to:	PVC	Grade	D.O. Meter (if	<del></del>	YSI HACH				
Purge Meth-	Bailer  Disposable Bailer  Middleburg  Electric Subm		Waterra Peristaltic Extraction Pump Other	Sampling Method Other						
1.7 I Case Volum	·	3 pecified Volum	= 5,2 mes Calculated V	Gals. Olume  Well Diame  1" 2" 3"	Multiplier   Well   0.04   4"   0.16   6"   0.37   Othe	<u>Diameter</u> <u>Multiplier</u> 0.65 1.47  radius <sup>2</sup> • 0.163				
Time	Temp (°F)	рH	Cond.	Turbidity	Gals. Removed	Observations				
1549	690	6.72	1403	755	2					
1554	67.8	6,69	1397	62	4					
15.59	67.4	6.68	1393	69	6	odov				
N:4 all d	1 -40									
Did well d	<del></del>		(No)	Gallons actuall	y evacuated:	6				
Sampling '	Time:	1603		Sampling Date:	: 10/31	100				
Sample I.I	).: M	16-3		Laboratory:	Sequoia Colum	bia Other				
unalyzed f	for: TPH-G	G BTEX	мтва трн-D	Other:						
B I.D. (if	fapplicable	e):	@ Time	Duplicate I.D. (	if applicable):					
ınalyzed f	for: трн-G	BTEX	МТВЕ ТРН-D	Other:						
0.O. (if red	ب'd):		Pre-purge:	mg/L	Post-purge:	mg/ L				
.R.P. (if r	eq'd):	·	Pre-purge:	mV	Post-purge:	mV				