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

Re: Third Quarter 1999 Monitoring Report

Shell-branded Service Station 11989 Dublin Boulevard Dublin, California Incident #98995328 Cambria Project #241-0548-002



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.

THIRD QUARTER 1999 ACTIVITIES

Monitoring Well Installation: Cambria installed three monitoring wells on June 8 and 9, 1999. A report detailing well installation activities is forthcoming.

Ground Water Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California developed, gauged and sampled the 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 including supporting field documents, is included as Attachment A. Virgil Chavez Land Surveying (Chavez) of Vallejo, California surveyed the wells to top of casing. Survey results are included as Attachment B.

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

CLOSING

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

Sincerely,

Cambria Environmental Technology, Inc



Darryk Ataide, REA I

Project Manager

Ailsa S. Le May, R.G.

Senior Geologist

Figure: 1 - Ground Water Elevation Contour Map

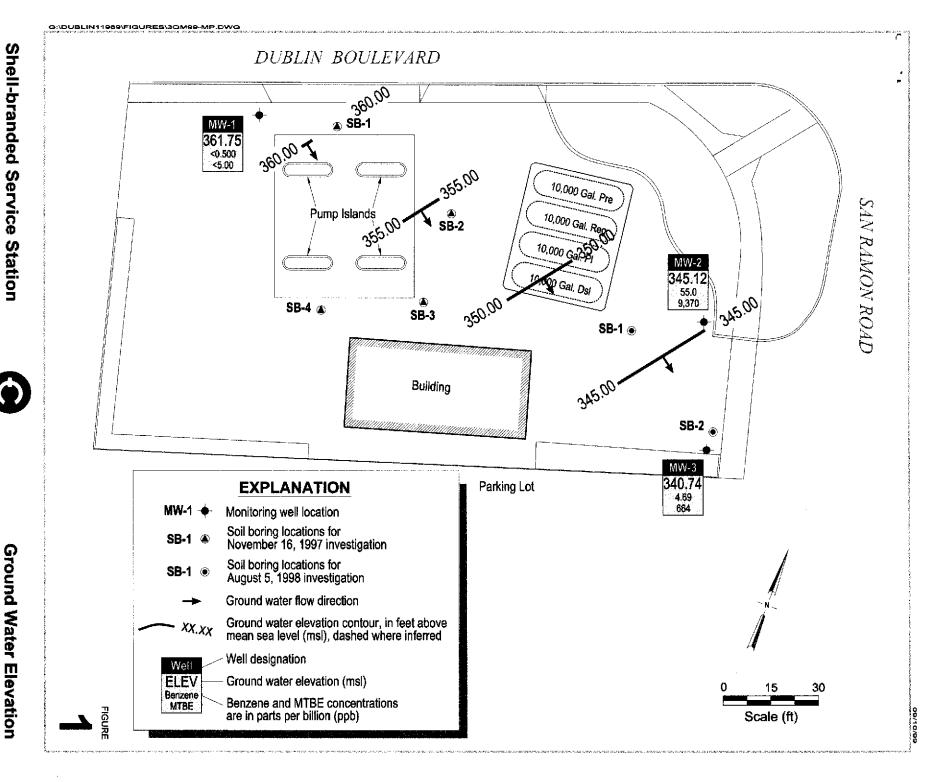
Attachment: A - Blaine Ground Water Monitoring Report and Field Notes

B - Chavez Survey Results

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

NO. 6717

g:\dublin 11989\qm\3q99qm.doc



July 20, 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

August 30, 1999

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

> Third Quarter 1999 Groundwater Monitoring at Shell-branded Service Station 11989 Dublin Boulevard Dublin, CA

Monitoring performed on July 20, 1999

Groundwater Monitoring Report 990720-R-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, 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 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/ld

attachments: Cumulative Table of WELL CONCENTRATIONS

Certified Analytical Report

Field Data Sheets

cc: Anni Kreml

Cambria Environmental Technology, Inc.

1144 65th Street

Oakland, Ca 94608-2411

WELL CONCENTRATIONS

Shell-branded Service Station 11989 Dublin Boulevard Dublin, CA

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

MW-11 07/20/1999 <50.0 <50.0 <0.500 <0.500 <0.500 <0.500 <5.00 NAU 367/99 6.24 361.75
MW-2 07/20/1999 2600 699 55.0 <2.50 59.5 <2.50 9370 NA 365.43 20:31 345.12
MW-3 07/20/1999 208 177 4.69 <0.500 <0.500 <0.500 664 NA 36497 24.23 340.74

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

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

Notes:

Wells surveyed on June 21, 1999 by Virgil Chavez Land Surveying of Vallejo, CA.

WELL CONCENTRATIONS Shell-branded Service Station 11989 Dublin Boulevard

Dublin, CA

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

MWe	07/20/1999	<50.0 <50.0	<0.500 <0.5	00 <0.500	<0.500	.00 NA	367.99	6.24	361.75
11MW 211	07/20/1999	2600 699	55.0 <2.	50 59 5	<2.50 93	70 NA	365.43	20.31	345.12
MW-3	07/20/1999	208 177	4.69 <0.5	600 <0.500	<0.500	54 NA	364.97	24.23	340.74

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

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

ug/L = parts per billion

msi = Mean sea level

ft = Feet

<n = Below detection limit

Notes:

Wells surveyed on June 21, 1999 by Virgil Chavez Land Surveying of Vallejo, CA.



August 11, 1999

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

RE: Equiva 11989 Dublin Blvd./M907992

Dear Ann Pember

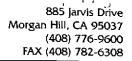
Enclosed are the results of analyses for sample(s) received by the laboratory on July 21, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kayvan Kiriyai

Project Manager D.M.

CA ELAP Certificate Number 1210

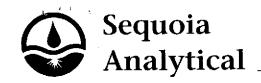




Blaine Tech Services (Shell)
Project: Equiva
Sampled: 7/20/99
1680 Rogers Avenue
Project Number: 11989 Dublin Blvd.
Received: 7/21/99
San Jose, CA 95112
Project Manager: Ann Pember
Reported: 8/11/99

ANALYTICAL REPORT FOR M907992

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	M907992-01	Water	7/20/99
MW-2	M907992-02	Water	7/20/99
MW-3	M907992-03	Water	7/20/99



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

Project: Equiva

Project Number: 11989 Dublin Blvd.

Sampled: 7/20/99

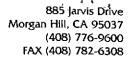
Project Manager: Ann Pember

Received: 7/21/99

Reported: 8/11/99

Diesel Hydrocarbons (C9-C24) by DHS LUFT Sequoia Analytical - Morgan Hill

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
MW-1			M9079	92-01			Water	
Diesel Range Hydrocarbons	9080047	8/3/99	8/5/99		0.0500	ND	mg/l	
Surrogate: n-Pentacosane	"	"	"	50 0-150		92.1	%	
MW-2			M9079	92-0 <u>2</u>			<u>Water</u>	
Diesel Range Hydrocarbons	9080047	8/3/99	8/5/99		0.0500	0.699	mg/l	1
Surrogate: n-Pentacosane	"	"	"	50.0-150		88.4	%	
<u>MW-3</u>			M9079	92-03			<u>Water</u>	
Diesel Range Hydrocarbons	9080047	8/3/99	8/5/99		0.0500	0.177	mg/l	1
Surrogate: n-Pentacosane	,,	J	"	50.0-156		99.3	%	

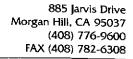




Blaine Tech Services (Shell)	Project: Equiva	Sampled: 7/20/99
1680 Rogers Avenue	Project Number: 11989 Dublin	Blvd. Received: 7/21/99
San Jose, CA 95112	Project Manager: Ann Pember	Reported: 8/11/99

Diesel Hydrocarbons (C9-G24) by DHS LUFT/Quality Control Sequoia Analytical - Morgan Hill

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	ŀ
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	% N	otes*
Batch: 9080047		red: 8/3/99	2		Extrac	tion Method: EPA	3510B			
Blank	<u>9080047-B</u> 8/4/99	<u>LK1</u>		ND	mg/l	0.0500				
Diesel Range Hydrocarbons Surrogate: n-Pentacosane	0/4/99	0.100		0.108	" "	50.0-150	108			
<u>LCS</u>	90800 <u>47-B</u>	<u>S1</u>								
Diesel Range Hydrocarbons	8/4/99	1.00		0.779	mg/l	60.0-140	77.9			
Surrogate: n-Pentacosane	и	0.100	· · · · · · · · · · · · · · · · · · ·	0.0929	#	50.0-150	92.9			
LCS Dup	9080047-B	SD1								
Diesel Range Hydrocarbons	8/4/99	1.00		0.760	mg/l	60.0-140	76.0	50.0	2.47	
Surrogate: n-Pentacosane	п	0.100		0.0903	<i>n</i>	50.0-150	90.3			





Blaine Tech Services (Shell)

Project: Equiva

Sampled:

7/20/99

1680 Rogers Avenue San Jose, CA 95112

Project Number: Project Manager:

11989 Dublin Blvd. Ann Pember

Reported: 8/11/99

Received: 7/21/99

Notes and Definitions

Note

Chromatogram Pattern: Unidentified Hydrocarbons C9-C24

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





August 4, 1999

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

RE: 1/L907265

Dear Kayvan Kimyai:

Enclosed are the results of analyses for sample(s) received by the laboratory on July 28, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Wayne Stevenson Project Manager

CA ELAP Certificate Number I-2360



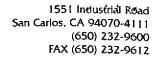


Sequoia - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037 Project: 1
Project Number: M907992
Project Manager: Kayvan Kimyai

Sampled: 7/20/99 Received: 7/28/99 Reported: 8/4/99

ANALYTICAL REPORT FOR L907265

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
M907992-01/MW-1	L907265-01	Water	7/20/99
M907992-02/MW-2	L907265-02	Water	7/20/99
M907992-03/MW-3	L907265-03	Water	7/20/99





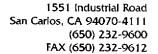
Sequoia - Morgan HillProject:ISampled:7/20/99885 Jarvis DriveProject Number:M907992Received:7/28/99Morgan Hill, CA 95037Project Manager:Kayvan KimyaiReported:8/4/99

Sample Description:

Laboratory Sample Number:

M907992-01/MW-1 L907265-01

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
		Sequo	ia Analytical	- San Carlos				
Total Purgeable Hydrocarbons (C6-C1	2), BTEX an	d MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	9080002	8/2/99	8/3/99		50.0	ND	ug/l	
Benzene	11	Ħ	11		0.500	ND	11	
Toluene	1 1		ŧı		0.500	ND	11	
Ethylbenzene	11	•	11		0.500	ND	**	
Xylenes (total)	п	n	11		0.500	ND	*1	
Methyl tert-butyl ether	11	1 1	II		5.00	ND	**	
Surrogate: a,a,a-Trifluorotoluene	"	"	п	70.0-130		98.8	%	





Sequoia - Morgan HillProject:1Sampled:7/20/99885 Jarvis DriveProject Number:M907992Received:7/28/99Morgan Hill, CA 95037Project Manager:Kayvan KimyaiReported:8/4/99

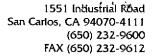
Sample Description:

M907992-02/MW-2 L907265-02

Laboratory Sample Number: L907

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
		Seque	oia Analytical	l - San Carlos				
Total Purgeable Hydrocarbons (C6-C1	2), BTEX an	d MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	9080002	8/2/99	8/3/99		250	2600	ug/l	1
Benzene	Ħ	***	11		2.50	55.0	81	
Toluene	*1	**	11		2.50	ND	H	
Ethylbenzene	н	H	Ħ		2.50	59.5	Ħ	
Xylenes (total)	11	**	#1		2.50	ND	"	
Methyl tert-butyl ether	9080010	8/3/99	*1		500	9370	11	
Surrogate: a,a,a-Trifluorotoluene	9080002	8/2/99	п	70.0-130		145	%	2

Sequoia Analytical - San Carlos





Sequoia - Morgan HillProject:ISampled:7/20/99885 Jarvis DriveProject Number:M907992Received:7/28/99Morgan Hill, CA 95037Project Manager:Kayvan KimyaiReported:8/4/99

Sample Description:

Laboratory Sample Number:

M907992-03/MW-3 L907265-03

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
		Seque	oia Analytica	l - San Carlos				
Total Purgeable Hydrocarbons (C6-C1	2), BTEX an	d MTBE by	DHS LUFT	•				
Purgeable Hydrocarbons as Gasoline	9080002	8/2/99	8/3/99		50.0	208	ug/l	3
Benzene	lf.	11	11		0.500	4.69	11	
Toluene	ш	н	п		0.500	ND	11	
Ethylbenzene	It	н	II		0.500	ND	11	
Xylenes (total)	IF	Ħ	П		0.500	ND	11	
Methyl tert-butyl ether	9080010	8/3/99	п		50.0	664	п	
Surrogate: a,a,a-Trifluorotoluene	9080002	8/2/99	rr .	70.0-130		107	%	

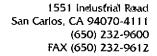


Sequoia - Morgan Hill Project: 1
885 Jarvis Drive Project Number: M907992
Morgan Hill, CA 95037 Project Manager: Kayvan Kimyai

Sampled: 7/20/99 Received: 7/28/99 Reported: 8/4/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control Sequoia Analytical - San Carlos

Batch: 9080002 Date Prepared: 8/2/99 D80002-BLK1 Purgeable Hydrocarbons as Gasoline Benzene 100 10.500 10.		Date	Spike	Sample	QC		Reporting Limit		RPD	RPD	_
Blank 908002-BLK1 82/99	Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Blank 908002-BLK1 82/99	Batch: 9080002	Date Prepare	:d; 8/2/9	9		Extraction Method: EPA 5030B [P/T]					
Benzene	Blank			_							
Benzene	Purgeable Hydrocarbons as Gasoline	8/2/99			ND	ug/l	50.0				
ND	Benzene	rr			ND		0.500				
ND	Toluene	н			ND	11	0.500				
Methyl tert-butyl ether " 10.0 10.2 " 70.0-130 102 LCS 9080002-BS1 Benzene 8/2/99 10.0 9.08 ug/l 70.0-130 90.8 Toluene " 10.0 8.64 " 70.0-130 86.4 Ethylbenzene " 10.0 8.44 " 70.0-130 91.3 Surrogate: a,a,a-Trifluorotoluene " 10.0 10.5 " 70.0-130 91.3 Surrogate: a,a,a-Trifluorotoluene " 10.0 10.5 " 70.0-130 91.3 Surrogate: a,a,a-Trifluorotoluene " 10.0 ND 8.69 ug/l 60.0-140 86.9 Toluene " 10.0 ND 8.36 " 60.0-140 83.6 Ethylbenzene " 10.0 ND 7.54 " 60.0-140 83.6 Ethylbenzene " 10.0 ND 7.54 " 60.0-140 89.7 Surrogate: a,a,a-Trifluorotoluene " 10.0 ND 8.69 ug/l 60.0-140 89.7 Surrogate: a,a,a-Trifluorotoluene " 10.0 ND 8.69 " 70.0-130 98.6 Matrix Spike " 60.0-140 89.7 Surrogate: a,a,a-Trifluorotoluene " 10.0 ND 8.69 " 60.0-140 89.7 Surrogate: a,a,a-Trifluorotoluene " 10.0 ND 8.69 " 60.0-140 89.7 Surrogate: a,a,a-Trifluorotoluene " 10.0 ND 8.56 ug/l 60.0-140 85.6 25.0 1.51 Toluene " 10.0 ND 8.29 " 60.0-140 82.9 25.0 0.841 Ethylbenzene " 10.0 ND 8.29 " 60.0-140 82.9 25.0 0.841 Ethylbenzene " 10.0 ND 7.73 " 60.0-140 77.3 25.0 2.49 Xylenes (total) " 30.0 ND 26.2 " 60.0-140 77.3 25.0 2.49 Xylenes (total) " 30.0 ND 26.2 " 60.0-140 87.3 25.0 2.71	Ethylbenzene	**			ND	#1	0.500				
Description Surrogate: a,a,a-Trifluorotoluene 10.0 10.2 70.0-130 102	Xylenes (total)	tt			ND	*1	0.500				
LCS Senzene St. 299 10.0 9.08 ug/l 70.0-130 90.8 10.0 9.08 ug/l 70.0-130 90.8 10.0 9.08 ug/l 70.0-130 90.8 10.0 90.8 10.0 8.64 10.0 10.0 8.64 10.0	Methyl tert-butyl ether	n			ND	Ħ	5.00				
Benzene 8/2/99 10.0 9.08 ug/l 70.0-130 90.8	Surrogate: a,a,a-Trifluorotoluene	rr .	10.0		10.2	"	70.0-130	102			
Benzene 8/2/99 10.0 9.08 ug/l 70.0-130 90.8	LCS	9080002-BS1									
Toluene " 10.0 8.64 " 70.0-130 86.4 Ethylbenzene " 10.0 8.44 " 70.0-130 84.4	Benzene		-		9.08	ug/l	70.0-130	90.8			
Ethylbenzene " 10.0 8.44 " 70.0-130 84.4 Xylenes (total) " 30.0 27.4 " 70.0-130 91.3 Surrogate: a,a,a-Trifluorotoluene " 10.0 10.5 " 70.0-130 105	Toluene	11	10.0		8.64		70.0-130	86.4			
30.0 27.4 " 70.0-130 91.3	Ethylbenzene	H				PT .		84.4			
Matrix Spike 9080002-MS1 L907219-01 Benzene 8/2/99 10.0 ND 8.69 ug/1 60.0-140 86.9 Toluene " 10.0 ND 8.36 " 60.0-140 83.6 Ethylbenzene " 10.0 ND 7.54 " 60.0-140 89.7 Xylenes (total) " 30.0 ND 26.9 " 60.0-140 89.7 Surrogate: a,a,a-Trifluorotoluene " 10.0 9.86 " 70.0-130 98.6 Matrix Spike Dup 908002-MSD1 L907219-01 Benzene 8/2/99 10.0 ND 8.56 ug/1 60.0-140 85.6 25.0 1.51 Toluene " 10.0 ND 8.29 " 60.0-140 82.9 25.0 0.841 Ethylbenzene " 10.0 ND 7.73 " 60.0-140 87.3 25.0 2.49 Xylenes (total) " 30.0 ND 26.2 <td>-</td> <td>Ħ</td> <td></td> <td></td> <td></td> <td>H</td> <td>70.0-130</td> <td>91.3</td> <td></td> <td></td> <td></td>	-	Ħ				H	70.0-130	91.3			
Benzene 8/2/99 10.0 ND 8.69 ug/l 60.0-140 86.9 Toluene " 10.0 ND 8.36 " 60.0-140 83.6 Ethylbenzene " 10.0 ND 7.54 " 60.0-140 89.7 Xylenes (total) " 30.0 ND 26.9 " 60.0-140 89.7 Surrogate: a,a,a-Trifluorotoluene " 10.0 9.86 " 70.0-130 98.6 Matrix Spike Dup Benzene 8/2/99 10.0 ND 8.56 ug/l 60.0-140 85.6 25.0 1.51 Toluene " 10.0 ND 8.29 " 60.0-140 82.9 25.0 0.841 Ethylbenzene " 10.0 ND 7.73 " 60.0-140 77.3 25.0 2.49 Xylenes (total) " 30.0 ND 26.2 " 60.0-140 87.3 25.0 2.71	Surrogate: a,a,a-Trifluorotoluene	н			10.5	"	70.0-130	105			
Benzene 8/2/99 10.0 ND 8.69 ug/l 60.0-140 86.9 Toluene " 10.0 ND 8.36 " 60.0-140 83.6 Ethylbenzene " 10.0 ND 7.54 " 60.0-140 89.7 Xylenes (total) " 30.0 ND 26.9 " 60.0-140 89.7 Surrogate: a,a,a-Trifluorotoluene " 10.0 9.86 " 70.0-130 98.6 Matrix Spike Dup Benzene 8/2/99 10.0 ND 8.56 ug/l 60.0-140 85.6 25.0 1.51 Toluene " 10.0 ND 8.29 " 60.0-140 82.9 25.0 0.841 Ethylbenzene " 10.0 ND 7.73 " 60.0-140 77.3 25.0 2.49 Xylenes (total) " 30.0 ND 26.2 " 60.0-140 87.3 25.0 2.71	Matrix Spike	9080002-MS1	l L	907219-01							
Toluene " 10.0 ND 8.36 " 60.0-140 83.6 Ethylbenzene " 10.0 ND 7.54 " 60.0-140 75.4 Xylenes (total) " 30.0 ND 26.9 " 60.0-140 89.7 Surrogate: a,a,a-Trifluorotoluene " 10.0 9.86 " 70.0-130 98.6 Matrix Spike Dup Po80002-MSD1 L907219-01 Benzene 8/2/99 10.0 ND 8.56 ug/l 60.0-140 85.6 25.0 1.51 Toluene " 10.0 ND 8.29 " 60.0-140 82.9 25.0 0.841 Ethylbenzene " 10.0 ND 7.73 " 60.0-140 77.3 25.0 2.49 Xylenes (total) " 30.0 ND 26.2 " 60.0-140 87.3 25.0 2.71	Benzene	8/2/99		•	8.69	ug/l	60,0-140	86.9			
Xylenes (total) " 30.0 ND 26.9 " 60.0-140 89.7 Surrogate: a,a,a-Trifluorotoluene " 10.0 9.86 " 70.0-130 98.6 Matrix Spike Dup 9080002-MSD1 L907219-01 Enzene 8/2/99 10.0 ND 8.56 ug/l 60.0-140 85.6 25.0 1.51 Toluene " 10.0 ND 8.29 " 60.0-140 82.9 25.0 0.841 Ethylbenzene " 10.0 ND 7.73 " 60.0-140 77.3 25.0 2.49 Xylenes (total) " 30.0 ND 26.2 " 60.0-140 87.3 25.0 2.71	Toluene	Ħ	10.0	ND	8.36	_	60.0-140	83.6			
Matrix Spike Dup 9080002-MSD1 L907219-01 Benzene 8/2/99 10.0 ND 8.56 ug/l 60.0-140 85.6 25.0 1.51 Toluene " 10.0 ND 8.29 " 60.0-140 82.9 25.0 0.841 Ethylbenzene " 10.0 ND 7.73 " 60.0-140 77.3 25.0 2.49 Xylenes (total) " 30.0 ND 26.2 " 60.0-140 87.3 25.0 2.71	Ethylbenzene	Ħ	10.0	ND	7.54	II	60.0-140	75.4			
Matrix Spike Dup 9080002-MSD1 L907219-01 Benzene 8/2/99 10.0 ND 8.56 ug/l 60.0-140 85.6 25.0 1.51 Toluene " 10.0 ND 8.29 " 60.0-140 82.9 25.0 0.841 Ethylbenzene " 10.0 ND 7.73 " 60.0-140 77.3 25.0 2.49 Xylenes (total) " 30.0 ND 26.2 " 60.0-140 87.3 25.0 2.71	Xylenes (total)	11	30.0	ND	26.9	Ц	60.0-140	89.7			
Benzene 8/2/99 10.0 ND 8.56 ug/l 60.0-140 85.6 25.0 1.51 Toluene " 10.0 ND 8.29 " 60.0-140 82.9 25.0 0.841 Ethylbenzene " 10.0 ND 7.73 " 60.0-140 77.3 25.0 2.49 Xylenes (total) " 30.0 ND 26.2 " 60.0-140 87.3 25.0 2.71	Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.86	"	70.0-130	98.6			
Benzene 8/2/99 10.0 ND 8.56 ug/l 60.0-140 85.6 25.0 1.51 Toluene " 10.0 ND 8.29 " 60.0-140 82.9 25.0 0.841 Ethylbenzene " 10.0 ND 7.73 " 60.0-140 77.3 25.0 2.49 Xylenes (total) " 30.0 ND 26.2 " 60.0-140 87.3 25.0 2.71	Matrix Spike Dup	9080002-MSI	D1 I.	907219-01							
Toluene " 10.0 ND 8.29 " 60.0-140 82.9 25.0 0.841 Ethylbenzene " 10.0 ND 7.73 " 60.0-140 77.3 25.0 2.49 Xylenes (total) " 30.0 ND 26.2 " 60.0-140 87.3 25.0 2.71	Benzene				8.56	ug/l	60.0-140	85.6	25.0	1.51	
Ethylbenzene " 10.0 ND 7.73 " 60.0-140 77.3 25.0 2.49 Xylenes (total) " 30.0 ND 26.2 " 60.0-140 87.3 25.0 2.71	Toluene						60.0-140	82.9	25.0	0.841	
Xylenes (total) " 30.0 ND 26.2 " 60.0-140 87.3 25.0 2.71	Ethylbenzene	Ħ				#1	60.0-140	77.3			
	· ·	н				11	60.0-140	87.3	25.0	2.71	
	Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.92	rr					





Sequoia - Morgan HillProject:ISampled:7/20/99885 Jarvis DriveProject Number:M907992Received:7/28/99Morgan Hill, CA 95037Project Manager:Kayvan KimyaiReported:8/4/99

Notes and Definitions

#	Note
1	Chromatogram Pattern: Gasoline C6-C12
2	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
3	Chromatogram Pattern: Unidentified Hydrocarbons 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

1680 ROGERS AVENUE CONDUCT ANALYSIS TO DETECT Sequoia **BLAINE** AN JOSE, CALIFORNIA 95112-1105 ALL ANALYSIS MUST MEET SPECIFICATIONS AND DETECTION FAX (408) 573-7771 LIMITS SET BY CALIFORNIA DHS AND TECH SERVICES, INC. PHONE (408) 573-0555 ☐ EPA RWQCB REGION ☐ LIA CHAIN OF ☐ OTHER 990720 R-2 SPECIAL INSTRUCTIONS CLIENT M907992 Equiva - Karen Petryna 8260 SITE Send invoice to Equiva 11989 Dublin Blvd. TPH - gas, BTEX 8260 MTBE by 8020 Incident # 98995328 Oxygenates by Dublin, CA Sent report to Blaine Tech Services, Inc. **CONTAINERS** ATTN: Ann Pember S= SOIL SOIL TOTAL TIME ADD'L INFORMATION SAMPLE I.D. DATE STATUS CONDITION LAB SAMPLE # worth 13:// 15:09 MW-2 NPArber 14:16 194-3 글 21 3 11 RESULTS NEEDED SAMPLING SAMPLING IME PERFORMED BY NO LATER THAN COMPLETED 1-21-99 RECEIVED BY DATE RELEASED BY TIME RECEIVED BY TIME RECEIVED BY DATE TIME SENT COOLER# DATE SENT SHIPPED VIA

WELL GAUGING DATA

Project # 99072012-2 Date 7-20-99 Client Shell/ Equiller
Site 1/989 Publin Blod. Publin, CA

		_		Thickness	Volume of				
	Well		Depth to	of	Immiscibles			Survey	
	Size	Sheen /		Immiscible	Removed	Depth to water	Depth to well	Point: TOB	
Well ID	(in.)	Odor	Liquid (fL)	Liquid (ft.)	(ml)	(ft.)	bottom (ft.)	or TOC	
						6.24	19.20		
MW-1 MW-2 MW-3	4	ocor				6.24 20.31 24.23	3250		
mv-3	4					24.23	32.70		

						*	-	7	

				# # # # # # # # # # # # # # # # # # #					

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			6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	***					

EQUIVA WELL MONITORING DATA SHEET

Project #	990	720R	-2	Job# 98995328						
Sampler:	5/m			Date: 7 - 20 - 99						
Well I.D.	: MW-1	<u> </u>		Well Diameter: 2 3 (4) 6 8						
Total We	ll Depth:	19.70		Depth to V	Depth to Water: 6.29					
Depth to	Free Produ	ıct:	·	Thickness	Thickness of Free Product (feet):					
Reference	ed to:	PVC	Grade	D.O. Mete	r (if	req'd):	YSI	НАСН		
	Well Diamet 2" 3" 4"	ter	<u>Multiplier</u> 0.16 0.37 0.65	Well Diameter 5" 6" Other		<u>Multiplier</u> 1.02 1.47 ius ² * 0.163				
Purge Metho	Ele	Bailer Middleburg ctric Submers xtraction Pun		Sampling Me		Bailer Extraction Port				
	9. 1 Case Volu	O ume (Gals.)	x 13			Gals.				
Time	Temp (°F)	pН	Cond.	Turbidit	y	Gals. Removed	Obse	rvations		
13:02	70.0	6-7	1190	7200	,	99	Hard	30 16 m		
13:04	69.3	6-6	1189	142.	7	108	Felt/			
13:06	68.9	6.7	1183	98.7		117	Clear	ha		
		:					, -	hag Recharge 2" per hin		
Did well d	lewater?	Yes (No)	Gallons act	tuall	y evacuated: //				
Sampling	Time: /	3://		Sampling I)ate	: 7-20	-99			
Sample I.I	Sample I.D.: Mw-/ Laboratory: Sequoia BC Other									
Analyzed	for: TPH-0	G BTEX	МТВЕ ТРН-D	Other:						
D.O. (if re	q'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 #:	9907	220R-	2	Job# 989	95328				
Sampler:	Jim		, , <u>, , , , , , , , , , , , , , , , , </u>	Date: 7-20-99					
Well I.D.	: Mu-2	2		Well Diameter: 2 3 4 6 8					
Total We	ll Depth:	32-50	1.000	Depth to Wate	Depth to Water: 20.3/				
Depth to	Free Produ			Thickness of Free Product (feet):					
Reference	ed to:	(PVC)	Grade	D.O. Meter (if	req'd):	YSI HACH			
Purge Metho	Ele	Bailer Middleburg ctric Submers xtraction Pun	0.16 0.37 0.65	5" 6" Other radi	Multiplier 1.02 1.47 ius² * 0.163 Bailer Extraction Port				
	8.	O ume (Gals.)	x /3 Specified Vo	elumes Cal	Gals.				
Time	Temp (°F)	pН	Cond.	Turbidity	Gals. Removed	Observations			
14:51	67.9	6.6	1056	2200	88	Agitated Sub			
14:53	69.2	6-6	/033	/38.6	96	Agitated Sub Pumpin well			
14:55	70.1	6.5	1027	98.3	164	tarbil/but			
						dearing notas			
				-		Howay Lectorge 2.3" por m			
Did well o	lewater?	Yes (No)	Gallons actuall	y evacuated: (
Sampling	Time: /	5:09		Sampling Date	: 7-20-	29			
Sample I.I	D.: MC	·-2		Laboratory:	Sequoia BC	Other			
Analyzed	for: TPH-	G BTEX	мтве трн-р	Other:					
D.O. (if re	eq'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 #	: 990	720	R-2	Job# 98995328						
Sampler:	Sim			Date: 7	-20-99					
Well I.D.	: Mu-	3		Well Diameter	: 2 3 4	6 8				
Total We	ll Depth:	32.7	O	Depth to Wate	r: 24.23					
Depth to	Free Produ	ıct:		Thickness of F	Thickness of Free Product (feet):					
Reference	ed to:	AVC)	Grade	D.O. Meter (if	req'd):	YSI HACH				
Duran Made	Well Diame 2" 3" 4"		Multiplier 0.16 0.37 0.65	5" 6" Other radi	Multiplier 1.02 1.47 us ² * 0.163					
Purge Metho	Ele	Bailer Middleburg ctric Submers extraction Pun		Sampling Method: Other:	Extraction Port					
	1 Case Vol	ume (Gals.)	x /3 Specified Vo	= clumes Cal	Gals.					
Time	Temp (°F)	pН	Cond.	Turbidity	Gals. Removed	Observations				
13:51	68-7	6.7	1.590	115.3	88	Cloudy				
13:53	68-9	6.7	1566	99.1	96	but clearing.				
13:55	68.2	6.7	1542	89.6	104	but clearing				
						1.9" per min.				
Did well o	dewater?	Yes (No)	Gallons actuall	y evacuated: /	04				
Sampling	Time:	14:10		Sampling Date	: 7-20	-99				
Sample I.	Sample I.D.: Mw-3 Laboratory: Sequoia BC Other									
Analyzed for: TPH-G BTEX MTBE TPH-D Other:										
D.O. (if re	eq'd):		Pre-purge:	mg/L	Post-purge:	mg _{/L}				
O.R.P. (if	req'd):		Pre-purge:	mV	Post-purge:	mV				

		WEL	L DI	EV]	EL	OPMENT	DATA SI	HEET
Project #:	9907	-20 R-				Client: E	Equiva	
Developer	: 5/h					Date Deve	loped: 7	-20-99
Well I.D.	MW-1					Well Dian	neter: (circle	one) 2 3 <u>4</u> 6
Total Wel	-					Depth to V	Vater:	
Before 1	1.70	After / 9.	80			Before >	-74 Aft	er /5./2
Reason no	t develop	ed:				If Free Pro	duct, thickn	ess:
Additiona	l Notation	s:						
	exsion Factor (VCF) ² /4) x π} /231	: :	Well dia 2"	-=	VC			
where 12 = in / f	inat		3" 4"	=	0.37 0.65			
d = dian	eter (în.)		6 "	=	1.47			
$x \approx 3.14$ $231 = \text{in } 3/3$	=		10" 12"	=	4.08 6.87			
9	-0	X		7	3		·	117
1 Case	Volume			Spec	ified	l Volumes	=	gallons
Purging De	vice:	Bailer				Electric Subi	nersible	
		Middleburg				Suction Pum	p	
		Type of Insta	lled F) umj	, _			
		Other equipn	ient u	ısed		Surdge Bi	lock	
TIME	TEMP (F)	pН		OND		THE TO DESCRIPT	VOLUME	NOT (TONG)
	69.5	/ -				TURBIDITY	REMOVED:	NOTATIONS:
12:35	9.7	6.+		20		7200	9	Twatted 5 minutes
12:37	70./	6.7	/ 2	2/7	<u></u>	7200	18	Swabbed 5 monutes Park silt/no sand
12:39	70.4	6.7	1	19:	3_	7200	27	leave turbility

TIME	TEMP (F)	pН	COND.	TURBIDITY	VOLUME	MOTATIONS.
					REMOVED:	NOTATIONS:
12:35	69.5	6.7	1206	7200	9	Swabbed 5 monutes
12:37	70./	6.7	1217	7200	18	Park silt/no sand
12:39	70.4	6.7	1/93	7200	27	leave turbility
12:41	70.2	6.7	1196	7200	36	Agitated Sub. Dunp
12:43	70.9	6.7	1192	7206	45	Swabbed 5 minutes
12148	70.3	6-7	1189	7200	54	Still Ham
12:50	69.6	6.7	1202	7200	63	Hit Bottom
12:52	69.0	6.7	1212	7200	72 .	Dark
12:54	70.1	6-7	1/94	7200	81	Swabbed well s
12:59	70.2	6.7	1/83	7200	90	Minnes
		·	·			
D: JW-II D-	-1-0-160	T.C	!			
Did Mell Dem	ater: NO	If yes, note abov	/e.	Gallons Actuall	y Evacuated:	((+

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WELL DEVELOPMENT DATA SHEET

		احادظ ۷۷	- DE 4 ED	OPIVICINI	DATASE	iee i			
Project #:	9907	20 R-2		Client:	Equiva				
Develope					loped: 2.	20-99			
Well I.D.	MW-	2_			eter: (circle				
Total Wel	ll Depth:		·	Depth to V	Vater:				
Before 32.35 After Before /9.9/ After									
Reason not developed: If Free Product, thickness:									
Additiona	l Notation	s:							
{ 12 x (d where 12 = in / 1	neter (in.) 116		Well dia. VC 2" = 0.16 0.37 3" = 0.37 4" = 0.65 6" = 1.47 10" = 4.08 12" = 6.87	5 7 5 7					
8	,0	X		3		104			
1 Case	Volume		Specified	d Volumes	=	gallons			
Purging De	vice:	Bailer Middleburg Type of Insta Other equipm	-	Electric Subr Suction Purn					
TIME	TEMP (F)	pН	COND.	TURBIDITY	VOLUME	NOT A TIONIC.			
14:25	68.9	/ 2 _	109/	7200	REMOVED:	NOTATIONS:			
	70.3	6.7			8	Swabbed Wells Minutes,			
14:27	10.5	6.6	1/23	7200	16				
14:29	67.1	6.6	1084	7200	24	ocor/turbid			
14:31	68.7	6-6	1079	7200	32	Swabbel well 5			
14:36	68.3	6-6	1064	7200	40	Mirales			
14:38	68.5	6-6	1059	148.6	48	Odor/clearing			
14:40	68.4	6-6	1103	122.6	56	Hot Hard Bottom			
14:42	68,0	6.5	1/20	112.1	64	Swabbal Gells			
14:117	69.5	66	1104	7200	72	marles			

Did Well Dewater? //O If yes, note above.

80

Gallons Actually Evacuated:

persishent

WELL DEVELOPMENT DATA SHEET

		W ELI		_ V J		OPMEN	I DA	ia or	ice i	
Project #:	990	7-20 R-	2	_		Client:	She	//		
Developer	: Jim					Date Dev	eloped	: 7	20-89	
Well I.D.	Well I.D. $M\omega - 3$ Well Diameter: (circle one) 2 3 (4) 6									
Total Wel	Total Well Depth: Depth to Water:									
Before 3	Before 32./O After Before 20,98 After									
Reason no	t develop	ed:		-		If Free Pr	oduct,	thickn	ess:	
Additiona	Additional Notations:									
12 x (d' where 12 = in / f d = diam π = 3.14 231 = in 3/6	2	X	Well dia 2" 3" 4" 6" 10" 12"	= = =	VCI 0.16 0.37 0.65 1.47 4.08 6.87	3	-		93.6	
1 Case V	votume			spec	rriec	i Volumes		=	gallons	
Purging Device: Bailer										
TIME	TEMP (F)	pН	C	OND		TURBIDIT	4	LUME (OVED:	NOTATIONS:	
13:25	68.2	6.7	/	80	/	7200	8	7	Swallbed Lell	
13:27	69.5	6.7		87		7200	16	5	Justil Grey -	
13:29	68.7	6-7	17	27	9	7200	2		S1/T	

ì]	i		Ì	VOLUME	
TIME	TEMP (F)	pН	COND.	TURBIDITY	REMOVED:	NOTATIONS:
13:25	68.2	6.7	1801	7200	8	Swallbed Lell
13:27	69.5	6.7	1823	7200	16	Turbid Grey -
13:29	68.7	6-7	1779	7200	24	SILT
13:31	68.4	6-7	1783	7200	32	swalled well for
13:36	67.8	6.8	1755	157.8	40	5 Minutes
13:38	67.9	6-8	1763	163.0	48	clearing / he odor
13:40	67.6	6-7	1721	139.6	\$ 6	Cloudy
13:42	67.1	6-7	1683	134.2	64	swabbed hells
13:47	67.8	6-8	1651	139.8	72	minutes/ 5+511
13:49	68.5	6-7	1623	127.6	80	Silty but becoming
						lite.
Did Well Dew	vater?//O	If yes, note above	re.	Gallons Actuall	y Evacuated: 🖊	04

ATTACHMENT B

Chavez Survey Results

Virgil Chavez Land Surveying

312 Georgia Street, Suite 200 Vallejo, California 94590-5907 (707) 553-2476 • Fax (707) 553-8698

June 30, 1999 Project No. 1703-22

John Riggi Cambria Environmental 1144 65th Street, Suite C Oakland, Ca. 94608

Subject: Monitoring Well Survey

Shell Service Station 11989 Dublin Blvd.

Dublin, Ca.

Dear Mr. Riggi:

This is to confirm that we have proceeded at your request to survey the monitoring wells located at the above referenced location. The survey was performed on June 21, 1999. The benchmark for the survey was a bronze disk establihed by the USGS, located under a manhole cover in the left turn lane in front of Mervyn's on Dublin Blvd. Measurement locations were marked at approximate north side of top of box and top of casings. The stations and offsets are referenced to the face of the existing station building looking easterly. Benchmark Elevation = 347.662 feet, MSL.

Monitoring Well No.	Rim Elevation	TOC Elevation
MW - 1	368.234	367.994
MW - 2	365.78′	365.43'
MW - 3	365.557	364.97'
Well No.	Station	Offset
MW - 1	0-32-22	-71.16(Lt.)
MW - 2	1+14.98	-16.09(Lt.)
MW - 3	1+17.45	21.93(Rt.)
SW Bldg Cor.	0+00.00	0.00
NW Bldg Cor.	0+57.78	0.00



Sincerely,

Virgil D. Chavez, PLS 6328

Post-it® Fax Note 7671	Date 9 3 9 pages
To Leah Davis	From Anni
Co./Dept. Blaine	co. Cambria
Phone# Pls update	Phononi
table - Thanks	Fext