

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

- Increase in MTBE conc by one order of magnitude
- Need to confirm MTBE + other oxygenates w/ 8260

Re: **Fourth 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.

FOURTH QUARTER 1999 ACTIVITIES

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 supporting field documents, is included as Attachment A.

ANTICIPATED FIRST QUARTER 2000 ACTIVITIES

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

Subsurface Investigation: Cambria installed three onsite monitoring wells on June 8 and 9, 1999. Results of the investigation will be submitted in a *Monitoring Well Installation Report* during the first quarter of 2000. *Why has it taken so long?*

Conduit Study: In a January 28, 2000 telephone conversation with Cambria, eva chu of Alameda County Health Care Services Agency requested that a conduit study be performed at the site. Cambria will provide a conduit evaluation in a forthcoming quarterly 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

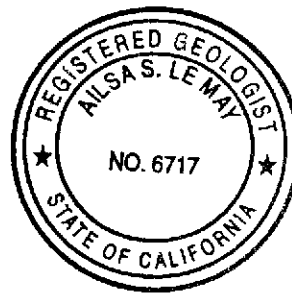
CLOSING

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



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

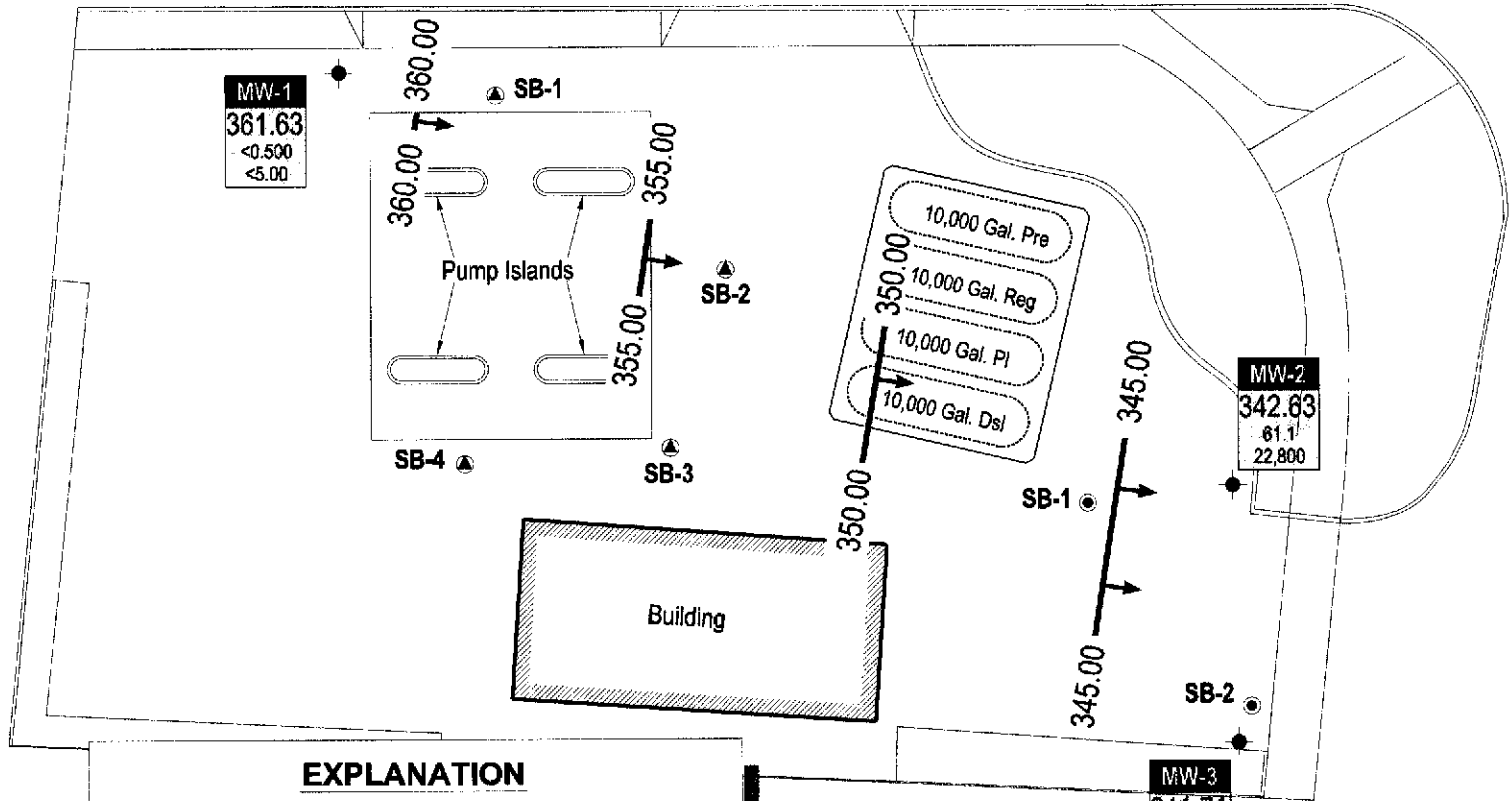
cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91501-7869

g:\dublin 11989\qm\4q99qm.doc

Darryk · dataide@cambria-env.com

DUBLIN BOULEVARD

SAN RAMON ROAD



EXPLANATION

- MW-1 ● Monitoring well location
 - SB-1 ▲ Soil boring locations for November 16, 1997 investigation
 - SB-1 ● Soil boring locations for August 5, 1998 investigation
 - Ground water flow direction
 - XX.XX Ground water elevation contour, in feet above mean sea level (msl), approximately located
- | | |
|---------|--|
| 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 | |

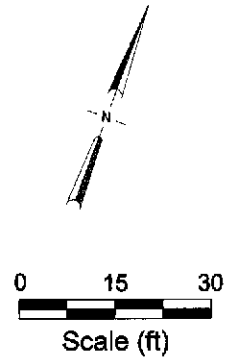


FIGURE 1

Shell-branded Service Station
 11989 Dublin Boulevard
 Dublin, California
 Incident #98995328



C A M B R I A

Ground Water Elevation Contour Map

October 25, 1999

ATTACHMENT A

Blaine Ground Water Monitoring Report
and Field Notes

BLAINE
TECH SERVICES INC.



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

December 6, 1999

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

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

Monitoring performed on October 25, 1999

Groundwater Monitoring Report **991025-M-3**

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 Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "Deidre Kerwin", with a long horizontal flourish extending to the right.

Deidre Kerwin
Operations Manager

DK/ek

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

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	07/20/1999	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	367.99	6.24	361.75
MW-1	10/25/1999	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	367.99	6.36	361.63
MW-2	07/20/1999	2,600	699	55.0	<2.50	59.5	<2.50	9,370	NA	365.43	20.31	345.12
MW-2	10/25/1999	4,710	761	61.1	<10.0	74.6	<10.0	22,800	NA	365.43	22.80	342.63
MW-3	07/20/1999	208	177	4.69	<0.500	<0.500	<0.500	664	NA	364.97	24.23	340.74
MW-3	10/25/1999	378	182	9.49	<0.500	<0.500	<0.500	1,410	NA	364.97	23.26	341.74

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

GW = Groundwater

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

NA = Not applicable

Notes:

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



Sequoia Analytical

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

November 10, 1999

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

RE: Equiva(2)/L910241

Dear Leah Davis:

Enclosed are the results of analyses for sample(s) received by the laboratory on October 26, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson
Project Manager

CA ELAP Certificate Number I-2360





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva(2) Project Number: 11989 Dublin Rd., Dublin/991025-M3 Project Manager: Leah Davis	Sampled: 10/25/99 Received: 10/26/99 Reported: 11/10/99
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ANALYTICAL REPORT FOR L910241

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	L910241-01	Water	10/25/99
MW-2	L910241-02	Water	10/25/99
MW-3	L910241-03	Water	10/25/99





Sequoia Analytical

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

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva(2) Project Number: 11989 Dublin Rd., Dublin/991025-M3 Project Manager: Leah Davis	Sampled: 10/25/99 Received: 10/26/99 Reported: 11/10/99
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Sample Description: MW-1
Laboratory Sample Number: L910241-01

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

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

Purgeable Hydrocarbons as Gasoline	9110034	11/5/99	11/5/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		90.8	%	

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M

Diesel (C10-C24)	9110145	11/5/99	11/8/99		50.0	ND	ug/l	
Surrogate: <i>o-Terphenyl</i>	"	"	"	50.0-150		72.5	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva(2) Project Number: 11989 Dublin Rd., Dublin/991025-M3 Project Manager: Leah Davis	Sampled: 10/25/99 Received: 10/26/99 Reported: 11/10/99
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Sample Description: MW-2
Laboratory Sample Number: L910241-02

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

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

Purgeable Hydrocarbons as Gasoline	9110034	11/5/99	11/5/99		1000	4710	ug/l	1
Benzene	"	"	"		10.0	61.1	"	
Toluene	"	"	"		10.0	ND	"	
Ethylbenzene	"	"	"		10.0	74.6	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Methyl tert-butyl ether	9110047	11/8/99	11/8/99		1000	22800	"	
Surrogate: a,a,a-Trifluorotoluene	9110034	11/5/99	11/5/99	70.0-130		77.1	%	

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M

Diesel (C10-C24)	9110145	11/5/99	11/8/99		50.0	761	ug/l	3
Surrogate: o-Terphenyl	"	"	"	50.0-150		73.5	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva(2) Project Number: 11989 Dublin Rd., Dublin/991025-M3 Project Manager: Leah Davis	Sampled: 10/25/99 Received: 10/26/99 Reported: 11/10/99
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Sample Description: MW-3
Laboratory Sample Number: L910241-03

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

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

Purgeable Hydrocarbons as Gasoline	9110047	11/8/99	11/8/99		50.0	378	ug/l	2
Benzene	"	"	"		0.500	9.49	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		50.0	1410	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		119	%	

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M

Diesel (C10-C24)	9110145	11/5/99	11/8/99		50.0	182	ug/l	4
Surrogate: <i>o</i> -Terphenyl	"	"	"	50.0-150		77.3	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva(2) Project Number: 11989 Dublin Rd., Dublin/991025-M3 Project Manager: Leah Davis	Sampled: 10/25/99 Received: 10/26/99 Reported: 11/10/99
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Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9110034			Date Prepared: 11/5/99			Extraction Method: EPA 5030B [P/T]				
Blank			9110034-BLK1							
Purgeable Hydrocarbons as Gasoline	11/5/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.84	"	70.0-130	98.4			
Blank			9110034-BLK2							
Purgeable Hydrocarbons as Gasoline	11/7/99			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		10.4	"	70.0-130	104			
LCS			9110034-BS1							
Benzene	11/5/99	10.0		8.45	ug/l	70.0-130	84.5			
Toluene	"	10.0		8.53	"	70.0-130	85.3			
Ethylbenzene	"	10.0		8.80	"	70.0-130	88.0			
Xylenes (total)	"	30.0		26.4	"	70.0-130	88.0			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.62	"	70.0-130	86.2			
LCS			9110034-BS2							
Purgeable Hydrocarbons as Gasoline	11/5/99	250		261	ug/l	70.0-130	104			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.72	"	70.0-130	77.2			
LCS			9110034-BS3							
Benzene	11/7/99	10.0		9.47	ug/l	70.0-130	94.7			
Toluene	"	10.0		9.86	"	70.0-130	98.6			
Ethylbenzene	"	10.0		9.90	"	70.0-130	99.0			
Xylenes (total)	"	30.0		29.9	"	70.0-130	99.7			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.3	"	70.0-130	103			
LCS			9110034-BS4							
Purgeable Hydrocarbons as Gasoline	11/7/99	250		262	ug/l	70.0-130	105			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.50	"	70.0-130	95.0			





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva(2) Project Number: 11989 Dublin Rd., Dublin/991025-M3 Project Manager: Leah Davis	Sampled: 10/25/99 Received: 10/26/99 Reported: 11/10/99
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Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike		9110034-MS1	L910241-01							
Purgeable Hydrocarbons as Gasoline	11/5/99	250	ND	259	ug/l	60.0-140	104			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.48	"	70.0-130	84.8			
Matrix Spike Dup		9110034-MSD1	L910241-01							
Purgeable Hydrocarbons as Gasoline	11/5/99	250	ND	256	ug/l	60.0-140	102	25.0	1.94	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.69	"	70.0-130	76.9			
Batch: 9110047	Date Prepared: 11/8/99	Extraction Method: EPA 5030B [P/T]								
Blank		9110047-BLK1								
Purgeable Hydrocarbons as Gasoline	11/8/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.97	"	70.0-130	99.7			
LCS		9110047-BS1								
Benzene	11/8/99	10.0		8.93	ug/l	70.0-130	89.3			
Toluene	"	10.0		8.73	"	70.0-130	87.3			
Ethylbenzene	"	10.0		8.89	"	70.0-130	88.9			
Xylenes (total)	"	30.0		26.5	"	70.0-130	88.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.3	"	70.0-130	103			
LCS		9110047-BS2								
Purgeable Hydrocarbons as Gasoline	11/8/99	250		255	ug/l	70.0-130	102			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.6	"	70.0-130	116			
Matrix Spike		9110047-MS1	L910222-15							
Benzene	11/9/99	10.0	ND	9.46	ug/l	60.0-140	94.6			
Toluene	"	10.0	0.734	10.1	"	60.0-140	93.7			
Ethylbenzene	"	10.0	ND	9.58	"	60.0-140	95.8			
Xylenes (total)	"	30.0	ND	28.9	"	60.0-140	96.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.5	"	70.0-130	105			
Matrix Spike Dup		9110047-MSD1	L910222-15							
Benzene	11/9/99	10.0	ND	9.71	ug/l	60.0-140	97.1	25.0	2.61	
Toluene	"	10.0	0.734	10.1	"	60.0-140	93.7	25.0	0	
Ethylbenzene	"	10.0	ND	9.91	"	60.0-140	99.1	25.0	3.39	
Xylenes (total)	"	30.0	ND	29.0	"	60.0-140	96.7	25.0	0.415	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.7	"	70.0-130	107			





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva(2) Project Number: 11989 Dublin Rd., Dublin/991025-M3 Project Manager: Leah Davis	Sampled: 10/25/99 Received: 10/26/99 Reported: 11/10/99
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**Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M/Quality Control
Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9110145	Date Prepared: 11/5/99			Extraction Method: EPA 3510B						
Blank	9110145-BLK1									
Diesel (C10-C24)	11/8/99			ND	mg/l	0.0500				
Surrogate: o-Terphenyl	"	0.100		0.0876	"	50.0-150	87.6			
LCS	9110145-BS1									
Diesel (C10-C24)	11/8/99	1.00		0.831	mg/l	50.0-150	83.1			
Surrogate: o-Terphenyl	"	0.100		0.0900	"	50.0-150	90.0			
LCS Dup	9110145-BSD1									
Diesel (C10-C24)	11/8/99	1.00		0.880	mg/l	50.0-150	88.0	20.0	5.73	
Surrogate: o-Terphenyl	"	0.100		0.0925	"	50.0-150	92.5			





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva(2) Project Number: 11989 Dublin Rd., Dublin/991025-M3 Project Manager: Leah Davis	Sampled: 10/25/99 Received: 10/26/99 Reported: 11/10/99
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Notes and Definitions

#	Note
1	Chromatogram Pattern: Gasoline C6-C12
2	Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
3	Results in the diesel organics range are elevated due to overlap from lower boiling point hydrocarbons.
4	Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
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



EQUIVA WELL MONITORING DATA SHEET

Project #: <u>991025m-3</u>	Job # <u>9899532P</u>
Sampler: <u>Mark S.</u>	Date: <u>10-25-99</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>20.10</u>	Depth to Water: <u>6.36</u>
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 ² * 0.163

Purge Method: Bailer Sampling Method: Bailer
Middleburg Extraction Port
Electric Submersible Other: _____
 Extraction Pump

<u>8.9</u>	x	<u>3</u>	=	<u>26.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>1345</u>	<u>74.8</u>	<u>7.2</u>	<u>435</u>	<u>>200</u>	<u>9</u>	
<u>1346</u>	<u>75.3</u>	<u>7.2</u>	<u>480</u>	<u>>200</u>	<u>18</u>	
<u>1347</u>	<u>73.2</u>	<u>7.2</u>	<u>1090</u>	<u>>200</u>	<u>27</u>	
<u>1348</u>	<u>73.0</u>	<u>7.2</u>	<u>1080</u>	<u>>200</u>	<u>36</u>	

Did well dewater? Yes No Gallons actually evacuated: 36

Sampling Time: 1355 Sampling Date: 10-25-99

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 #: <u>991025 M-3</u>	Job #: <u>98995328</u>
Sampler: <u>Mark J.</u>	Date: <u>10-25-99</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>32.92</u>	Depth to Water: <u>22.50</u>
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 ² * 0.163

Purge Method: Bailer Sampling Method: Bailer
Middleburg Extraction Port
Electric Submersible Other: _____
Extraction Pump

Other: _____

<u>6.5</u>	x	<u>3</u>	=	<u>19.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1450	71.9	7.3	1400	7200	7	
1451	71.0	7.1	1250	7200	14	
1452	70.9	7.1	1120	140	20	

Did well dewater? Yes No Gallons actually evacuated: 20

Sampling Time: 1455 Sampling Date: 10-25-99

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 #: <u>991025m-3</u>	Job #: <u>98995328</u>
Sampler: <u>Mark S.</u>	Date: <u>10-25-99</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: MW-3 <u>33,20</u>	Depth to Water: <u>23,26</u>
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 ² * 0.163

Purge Method: Bailer Middleburg Electric Submersible Extraction Pump
 Other: _____

Sampling Method: Bailer Extraction Port
 Other: _____

<u>6.4</u>	<u>x</u>	<u>3</u>	<u>=</u>	<u>19.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>1410</u>	<u>72.2</u>	<u>7.3</u>	<u>1200</u>	<u>7200</u>	<u>7</u>	
<u>1411</u>	<u>70.3</u>	<u>7.2</u>	<u>1350</u>	<u>145</u>	<u>14</u>	
<u>1412</u>	<u>69.3</u>	<u>7.2</u>	<u>1390</u>	<u>155</u>	<u>21</u>	

Did well dewater? Yes No Gallons actually evacuated: 21

Sampling Time: 1420 Sampling Date: 10-25-99

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