

February 13, 2002

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

Re: **Fourth Quarter 2001 Monitoring Report**  
Shell-branded Service Station  
4226 First Street  
Pleasanton, California  
Incident #98995840  
Cambria Project #244-0523-002

FEB 19 2002



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 2001 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.

**Additional Oxygenate Analysis:** In addition to the regular quarterly analysis for total petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, xylenes, and methyl-tertiary-butyl ether (MTBE), groundwater samples from monitoring wells MW-2 and MW-3 were analyzed for five additional oxygenates. Analytical results for MTBE, di-isopropyl ether, ethyl tert-butyl ether, tert-amyl methyl ether, tert-butyl alcohol, and ethanol are summarized in Table 1.

Oakland, CA  
San Ramon, CA  
Sonoma, CA

**Cambria  
Environmental  
Technology, Inc.**

1144 65th Street  
Suite B  
Oakland, CA 94608  
Tel (510) 420-0700  
Fax (510) 420-9170

**ANTICIPATED FIRST QUARTER 2002 ACTIVITIES**

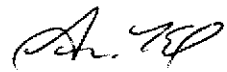
**Groundwater Monitoring:** Blaine will gauge and sample all site wells and tabulate the data. Cambria will prepare a monitoring report.

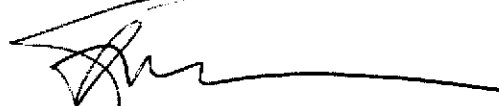
**CLOSING**

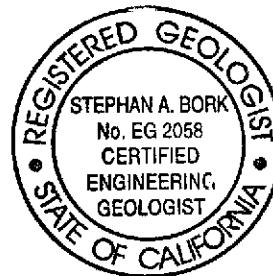


We appreciate the opportunity to work with you on this project. Please call Stephan Bork at (510) 420-3344 if you have any questions or comments.

Sincerely,  
**Cambria Environmental Technology, Inc**

  
Anni Kreml  
Senior Staff Scientist

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



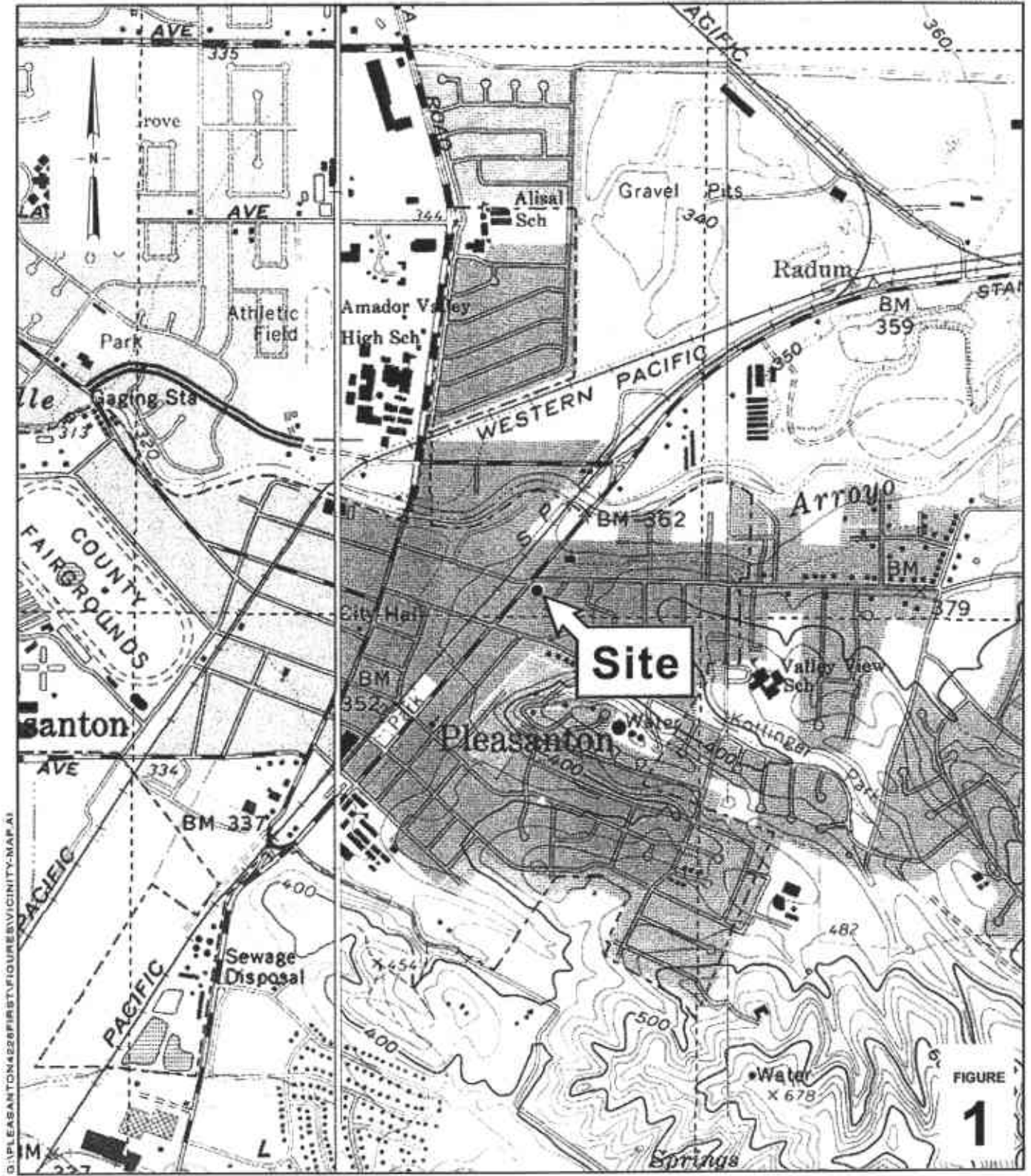
Figures: 1 - Vicinity Map  
2 - Groundwater Elevation Contour Map

Table: 1 - Groundwater Analytical Data – Oxygenates

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, CA 91510-7869  
Douglas E & Mary M Safreno, 1627 Vineyard Avenue, Pleasanton, CA 94566-6389

g:\pleasanton4226first\qm\4q01\4q01qm.doc



**Shell-branded Service Station**  
 4226 First Street  
 Pleasanton, California  
 Incident #98995840



C A M B R I A

**Vicinity Map**

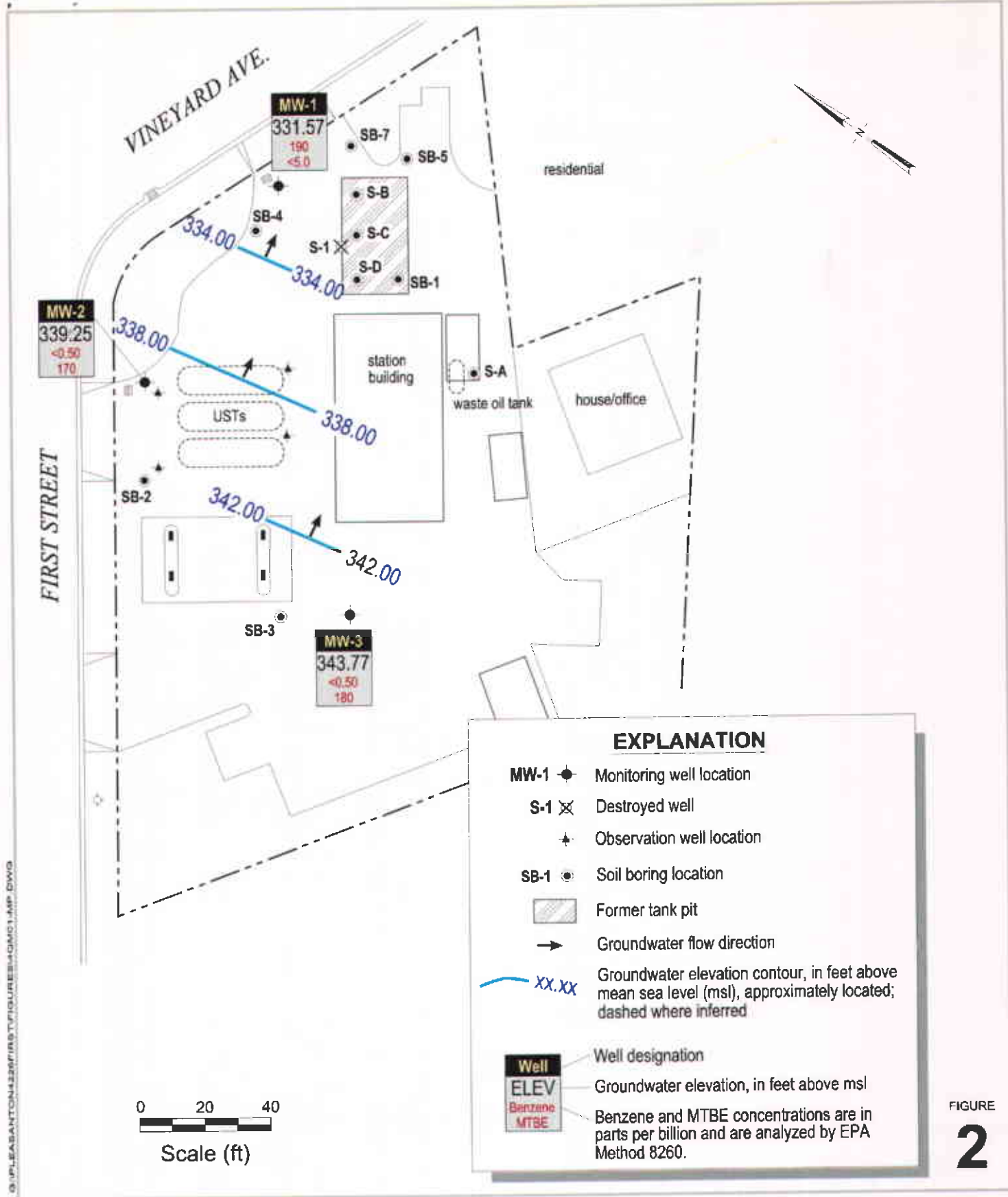


FIGURE 2

### Shell-branded Service Station

4226 First Street  
Pleasanton, California  
Incident #98995840



C A M B R I A

### Groundwater Elevation Contour Map

December 6, 2001

G:\PLEASANTON\4226\FIGURE\FIGURE\MAPS\MAP.DWG

# CAMBRIA

**Table 1. Groundwater Analytical Data - Oxygenates - Shell-branded Service Station, Incident #98995840, 4226 First Street, Pleasanton, California**

Sample ID	Date Sampled	MTBE	DIPE	ETBE	TAME	TBA	Ethanol
		←————— (Concentrations in ppb) —————→					
MW-2	12/06/01	170	<2.0	<2.0	<2.0	<50	<500
MW-3	12/06/01	180	<2.0	<2.0	<2.0	<50	<500

**Abbreviations:**

MTBE = Methyl tert-butyl ether, analyzed by EPA Method 8260

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260

ETBE = Ethyl tert-butyl ether, analyzed by EPA Method 8260

TAME = Tert-amyl methyl ether, analyzed by EPA Method 8260

TBA = Tert-butyl alcohol, analyzed by EPA Method 8260

Ethanol analyzed by EPA Method 8260

ppb = Parts per billion

**ATTACHMENT A**  
**Blaine Groundwater Monitoring Report**  
**and Field Notes**

BLAINE  
TECH SERVICES, INC.



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

December 27, 2001

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

Fourth Quarter 2001 Groundwater Monitoring at  
Shell-branded Service Station  
4226 First Street  
Pleasanton, CA

Monitoring performed on December 6, 2001

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### Groundwater Monitoring Report 011206-CW-1

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. 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. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart  
Project Coordinator

LG/mrb

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**

Well ID	Date	TPPH (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)
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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-1	03/01/2001	<50.0	<0.500	<0.500	<0.500	<0.500	74.6	NA	371.20	39.60	331.60
MW-1	05/30/2001	780	280	<2.0	<2.0	11	NA	<2.0	371.20	39.53	331.67
MW-1	08/02/2001	1,900	580	<2.5	<2.5	12	NA	<25	371.20	39.61	331.59
MW-1	12/06/2001	840	190	<0.50	<0.50	13	NA	<5.0	371.20	39.63	331.57

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-2	03/01/2001	173	1.64	1.65	2.86	3.97	127	167	372.40	32.54	339.86
MW-2	05/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	372.40	32.42	339.98
MW-2	08/02/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	160	372.40	32.55	339.85
MW-2	12/06/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	372.40	33.15	339.25

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**

Well ID	Date	TPPH (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-3	03/01/2001	384	172	0.815	<0.500	8.00	5.16	NA	375.05	31.21	343.84
MW-3	05/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	110	375.05	31.02	344.03
MW-3	08/02/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	93	375.05	30.94	344.11
<b>MW-3</b>	<b>12/06/2001</b>	<b>110</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>2.3</b>	<b>NA</b>	<b>180</b>	<b>375.05</b>	<b>31.28</b>	<b>343.77</b>

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to May 30, 2001, analyzed by EPA Method 8015.

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to May 30, 2001, analyzed 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.



Report Number : 23769

Date : 12/17/2001

Nick Sudano  
Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Subject : 3 Water Samples  
Project Name : 4226 First Street, Pleasanton  
Project Number : 011206-CW1  
P.O. Number : 98995840

Dear Mr. Sudano,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff



Report Number : 23769

Date : 12/17/2001

Project Name : 4226 First Street, Pleasanton

Project Number : 011206-CW1

Sample : MW-1

Matrix : Water

Lab Number : 23769-01

Sample Date :12/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>190</b>	1.0	ug/L	EPA 8260B	12/11/2001
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	12/9/2001
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	12/9/2001
<b>Total Xylenes</b>	<b>13</b>	0.50	ug/L	EPA 8260B	12/9/2001
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	12/9/2001
<b>TPH as Gasoline</b>	<b>840</b>	50	ug/L	EPA 8260B	12/9/2001
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	12/9/2001
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	12/9/2001

Approved By:  Joel Kiff



Report Number : 23769

Date : 12/17/2001

Project Name : 4226 First Street, Pleasanton

Project Number : 011206-CW1

Sample : MW-2

Matrix : Water

Lab Number : 23769-02

Sample Date :12/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/9/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/9/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/9/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/9/2001
Methyl-t-butyl ether (MTBE)	170	5.0	ug/L	EPA 8260B	12/9/2001
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/9/2001
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/9/2001
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/9/2001
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/9/2001
Ethanol	< 500	500	ug/L	EPA 8260B	12/9/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/9/2001
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/9/2001
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/9/2001

Approved By:  Joel Kiff



Report Number : 23769

Date : 12/17/2001

Project Name : 4226 First Street, Pleasanton

Project Number : 011206-CW1

Sample : MW-3

Matrix : Water

Lab Number : 23769-03

Sample Date :12/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/15/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/15/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/15/2001
Total Xylenes	2.3	0.50	ug/L	EPA 8260B	12/15/2001
Methyl-t-butyl ether (MTBE)	180	5.0	ug/L	EPA 8260B	12/15/2001
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/15/2001
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/15/2001
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/15/2001
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/15/2001
Ethanol	< 500	500	ug/L	EPA 8260B	12/15/2001
TPH as Gasoline	110	50	ug/L	EPA 8260B	12/15/2001
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	12/15/2001
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	12/15/2001

Approved By:  Joel Kiff

Report Number : 23769

Date : 12/17/2001

Project Name : **4226 First Street,**

Project Number : **011206-CW1**

23769 Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	12/9/2001
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	12/9/2001
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	12/9/2001
<b>Total Xylenes</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	12/9/2001
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	12/9/2001
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 2.0</b>	2.0	ug/L	EPA 8260B	12/9/2001
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 2.0</b>	2.0	ug/L	EPA 8260B	12/9/2001
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 2.0</b>	2.0	ug/L	EPA 8260B	12/9/2001
<b>Tert-Butanol</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	12/9/2001
<b>Ethanol</b>	<b>&lt; 500</b>	500	ug/L	EPA 8260B	12/9/2001
<b>TPH as Gasoline</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	12/9/2001
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/9/2001
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	12/9/2001

Approved By:  Joel Kiff

Report Number : 23769

Date : 12/17/2001

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 4226 First Street,

Project Number : 011206-CW1

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
Benzene	23704-01	<0.50	40.0	40.0	43.7	42.8	ug/L	EPA 8260B	12/9/2001	109	107	2.06	70-130	25
Toluene	23704-01	<0.50	40.0	40.0	44.5	43.6	ug/L	EPA 8260B	12/9/2001	111	109	2.09	70-130	25
Tert-Butanol	23704-01	<5.0	200	200	203	210	ug/L	EPA 8260B	12/9/2001	102	105	2.97	70-130	25
Methyl-t-Butyl Ether	23704-01	<0.50	40.0	40.0	45.1	44.9	ug/L	EPA 8260B	12/9/2001	113	112	0.378	70-130	25

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff



Report Number : 23769

Date : 12/17/2001

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **4226 First Street,**

Project Number : **011206-CW1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	12/9/2001	104	70-130
Toluene	40.0	ug/L	EPA 8260B	12/9/2001	105	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/9/2001	97.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/9/2001	106	70-130

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:

  
Joel Kiff

Report Number : 23769

Date : 12/17/2001

Project Name : **4226 First Street,**

Project Number : **011206-CW1**

23769 Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.50	0.50	ug/L	EPA 8260B	12/10/2001
<b>Toluene</b>	< 0.50	0.50	ug/L	EPA 8260B	12/10/2001
<b>Ethylbenzene</b>	< 0.50	0.50	ug/L	EPA 8260B	12/10/2001
<b>Total Xylenes</b>	< 0.50	0.50	ug/L	EPA 8260B	12/10/2001
<b>Methyl-t-butyl ether (MTBE)</b>	< 5.0	5.0	ug/L	EPA 8260B	12/10/2001
<b>Diisopropyl ether (DIPE)</b>	< 2.0	2.0	ug/L	EPA 8260B	12/10/2001
<b>Ethyl-t-butyl ether (ETBE)</b>	< 2.0	2.0	ug/L	EPA 8260B	12/10/2001
<b>Tert-amyl methyl ether (TAME)</b>	< 2.0	2.0	ug/L	EPA 8260B	12/10/2001
<b>Tert-Butanol</b>	< 50	50	ug/L	EPA 8260B	12/10/2001
<b>Ethanol</b>	< 500	500	ug/L	EPA 8260B	12/10/2001
<b>TPH as Gasoline</b>	< 50	50	ug/L	EPA 8260B	12/10/2001
<b>Toluene - d8 (Surr)</b>	101		% Recovery	EPA 8260B	12/10/2001
<b>4-Bromofluorobenzene (Surr)</b>	102		% Recovery	EPA 8260B	12/10/2001

Approved By:  Joel Kiff

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 23769

Date : 12/17/2001

Project Name : 4226 First Street,

Project Number : 011206-CW1

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
Benzene	23712-02	<0.50	40.0	40.0	43.2	42.8	ug/L	EPA 8260B	12/10/200108	107	107	0.837	70-130	25
Toluene	23712-02	<0.50	40.0	40.0	42.2	41.9	ug/L	EPA 8260B	12/10/200105	105	105	0.547	70-130	25
Tert-Butanol	23712-02	<5.0	200	200	187	190	ug/L	EPA 8260B	12/10/20093.6	95.2	95.2	1.67	70-130	25
Methyl-t-Butyl Ether	23712-02	<0.50	40.0	40.0	47.9	48.0	ug/L	EPA 8260B	12/10/200120	120	120	0.167	70-130	25

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By: Joel Kiff



Report Number : 23769

Date : 12/17/2001

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **4226 First Street,**

Project Number : **011206-CW1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	12/10/200	105	70-130
Toluene	40.0	ug/L	EPA 8260B	12/10/200	107	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/10/200	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/10/200	106	70-130

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:

  
Joel Kiff

LAB: Kiff

**EQUIVA Services LLC Chain Of Custody Record**

Lab Identification (if necessary):  
Address:  
City, State, Zip:

**Equiva Project Manager to be Invoiced:**

SCIENCE & ENGINEERING  
 TECHNICAL SERVICES  
 QM/ HOUSTON

Karen Petryna  
**23769**

INCIDENT NUMBER (SAE ONLY)  
9 8 9 9 5 8 4 0

DATE: 12-6-01  
PAGE: 1 of 1

**SAMPLING COMPANY:** Blaine Tech Services  
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112  
PROJECT CONTACT (Hardcopy or PDF Report to): Nick Sudano  
TELEPHONE: 408-573-0555 FAX: 408-573-7771 E-MAIL: nsudano@blainetech.com

LOG CODE: BTSS

**SITE ADDRESS (Street and City):** 4226 First Street, Pleasanton  
EDF DELIVERABLE TO (Responsible Party or Destination): Anni Kream  
PHONE NO.: 610-420-3335  
E-MAIL: akream@cambria-env.com  
CONSULTANT PROJECT NO.: BTS # 011206-CW

GLOBAL ID NO.: T0600101259

SAMPLER NAME(S) (Print): Chris Wagner

TURNAROUND TIME (BUSINESS DAYS):  
 10 DAYS  5 DAYS  72 HOURS  48 HOURS  24 HOURS  LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT  UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C° \_\_\_\_\_

**REQUESTED ANALYSIS**

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021 B - 6ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (S) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note					FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
		DATE	TIME																			
	MW-1	12/6	1019	U	3	X	X	X														-01
	MW-2	12/6	936	↓	↓	X	X	X	X	X												-02
	MW-3	12/6	857	↓	↓	X	X	X	X	X												-03

Relinquished by: (Signature) Chris Wagner Received by: (Signature) \_\_\_\_\_ Date: 12/7/01 Time: 11:47

Relinquished by: (Signature) \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: (Signature) \_\_\_\_\_ Received by: (Signature) John C... / Kiff Analytical Date: 120701 Time: 1147

C&O Graphic (714) 958-8702

## WELL GAUGING DATA

Project # 011206-CU-1 Date 12-06-01 Client Equiv

Site 4226 First St., Pleasanton

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	CTD
MW-1	2					39.63	56.75	↓	3
MW-2	4					33.15	45.61	↓	2
MW-3	4					31.28	34.29	↓	1

## EQUIVA WELL MONITORING DATA SHEET

BTS #: 011206-CW-1	Site: 4226 First St. Pleasanton
Sampler: CHRIS W.	Date: 12.06.01
Well I.D.: MW-1	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: 56.75	Depth to Water: 39.63
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

Bailer  
 Disposable Bailer  
 Middleburg  
 Electric Submersible  
 Waterra  
 Peristaltic  
 Extraction Pump  
 Other \_\_\_\_\_

Sampling Method:

Bailer  
 Disposable Bailer  
 Extraction Port  
 Dedicated Tubing  
 Other: \_\_\_\_\_

$2.7 \text{ (Gals.)} \times 3 = 8.1 \text{ Gals.}$   
 1 Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	<u>(0.16)</u>	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1004	64.4	6.4	1550	>200	2.7	cloudy
1007	66.2	6.4	1554	>200	5.4	"
1011	67.0	6.6	1589	>200	8.1	"

Did well dewater? Yes   No      Gallons actually evacuated: 8.1

Sampling Time: 1019      Sampling Date: 12.06.01

Sample I.D.: MW-1      Laboratory: Sequoia Columbia Other (K:FA)

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

EB I.D. (if applicable): @ Time      Duplicate I.D. (if applicable):

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

BTS #: 011206-CW-1	Site: 4226 First St. Pleasanton
Sampler: CHRIS W.	Date: 12.06.01
Well I.D.: MW-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 45.61	Depth to Water: 33.15
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer  
 Disposable Bailer  
 Middleburg  
 Electric Submersible  
 Waterra  
 Peristaltic  
 Extraction Pump  
 Other \_\_\_\_\_

Sampling Method:

- Bailer  
 Disposable Bailer  
 Extraction Port  
 Dedicated Tubing  
 Other: \_\_\_\_\_

8.1	(Gals.) X	3	=	24.3	Gals.
1 Case Volume		Specified Volumes		Calculated Volume	

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	<u>0.63</u>
2"	0.15	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
920	65.3	6.4	1461	77	8.1	
922	67.6	6.4	1405	52	16.2	
924	68.2	6.4	1476	53	24.3	

Did well dewater? Yes  No  Gallons actually evacuated: 24.3

Sampling Time: 936 Sampling Date: 12.06.01

Sample I.D.: MW-2 Laboratory: Sequoia Columbia Other KiFA

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

BTS #: 011206-CW-1	Site: 4226 First St. Pleasanton
Sampler: CHRIS W.	Date: 12.06.01
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 34.29	Depth to Water: 31.28
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other \_\_\_\_\_

Sampling Method:

- Bailer
- ~~Disposable Bailer~~
- Extraction Port
- Dedicated Tubing
- Other: \_\_\_\_\_

(Gals.) X  =  Gals.  
 I Case Volume                      Specified Volumes                      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
0845	65.9	6.9	1060	65	2	
0845	65.8	6.9	1107	7200	4	cloudy
0846	65.2	6.9	1201	7200	6	"

Did well dewater? Yes  No  Gallons actually evacuated: 6

Sampling Time: 0857 Sampling Date: 12.06.01

Sample I.D.: MW-3 Laboratory: Sequoia Columbia Other Kiff

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: (1) 2 3

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
	O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: