RO 360

Shell Oil Products US

January 14, 2003

Alameda County
JAN 22 2003
Environmental Health

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

Subject: **Shell-branded Service Station**
4226 First Street
Pleasanton, California

Dear Mr. Seery:

Attached for your review and comment is a copy of the *Fourth Quarter 2002 Monitoring Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna

Karen Petryna
Sr. Environmental Engineer

P.O. Box 7869 Burbank, CA 91510-7869 Phone (559) 645-9306 Facsimile (559) 645-5643

CAMBRIA

January 14, 2003

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

Re: **Fourth Quarter 2002 Monitoring Report**
Shell-branded Service Station
4226 First Street
Pleasanton, California
Incident #98995840
Cambria Project #245-0523-002

Dear Mr. Seery:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

FOURTH QUARTER 2002 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled the site wells, calculated groundwater elevations, 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-1, MW-2 and MW-3 were analyzed for four additional oxygenates and two lead scavengers. Analytical results for MTBE, di-isopropyl ether, ethyl tert-butyl ether, tert-amyl methyl ether, tert-butyl alcohol, 1,2-di-chloroethane, and ethylene dibromide 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 2003 ACTIVITIES

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

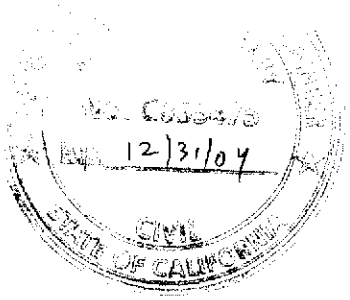
CLOSING

We appreciate the opportunity to work with you on this project. Please call Matt Derby at (510) 420-3332 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Anni Kreml
Senior Staff Scientist

Matthew W. Derby, P.E.
Senior Project Engineer



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

Table: 1 - Groundwater Analytical Data - Oxygenates

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

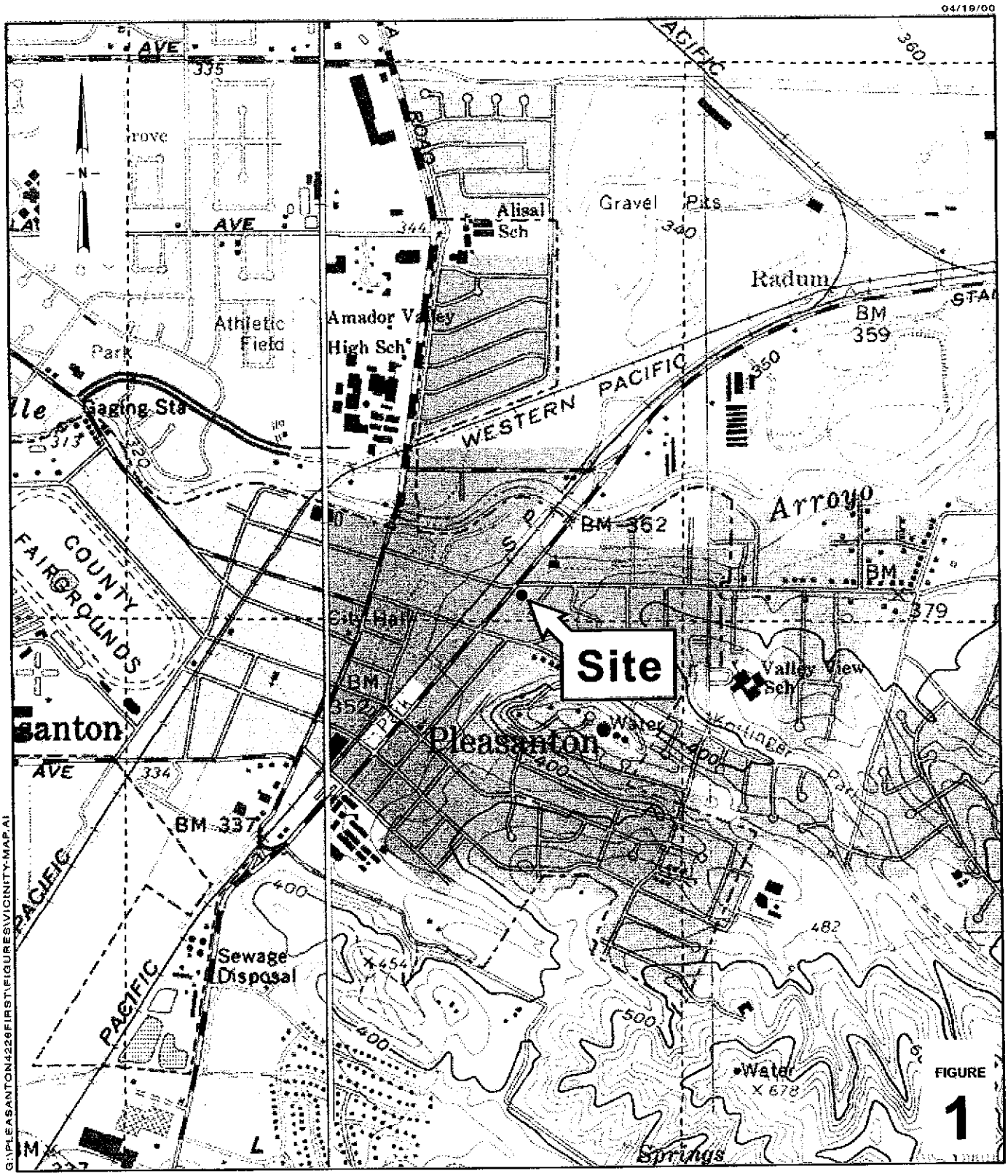
cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869
Douglas E & Mary M Safreno, 1627 Vineyard Avenue, Pleasanton, CA 94566-6389

G:\Pleasanton 4226 First\Qm\4q02\4q02qm.doc

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



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

CAMBRIA

Vicinity Map

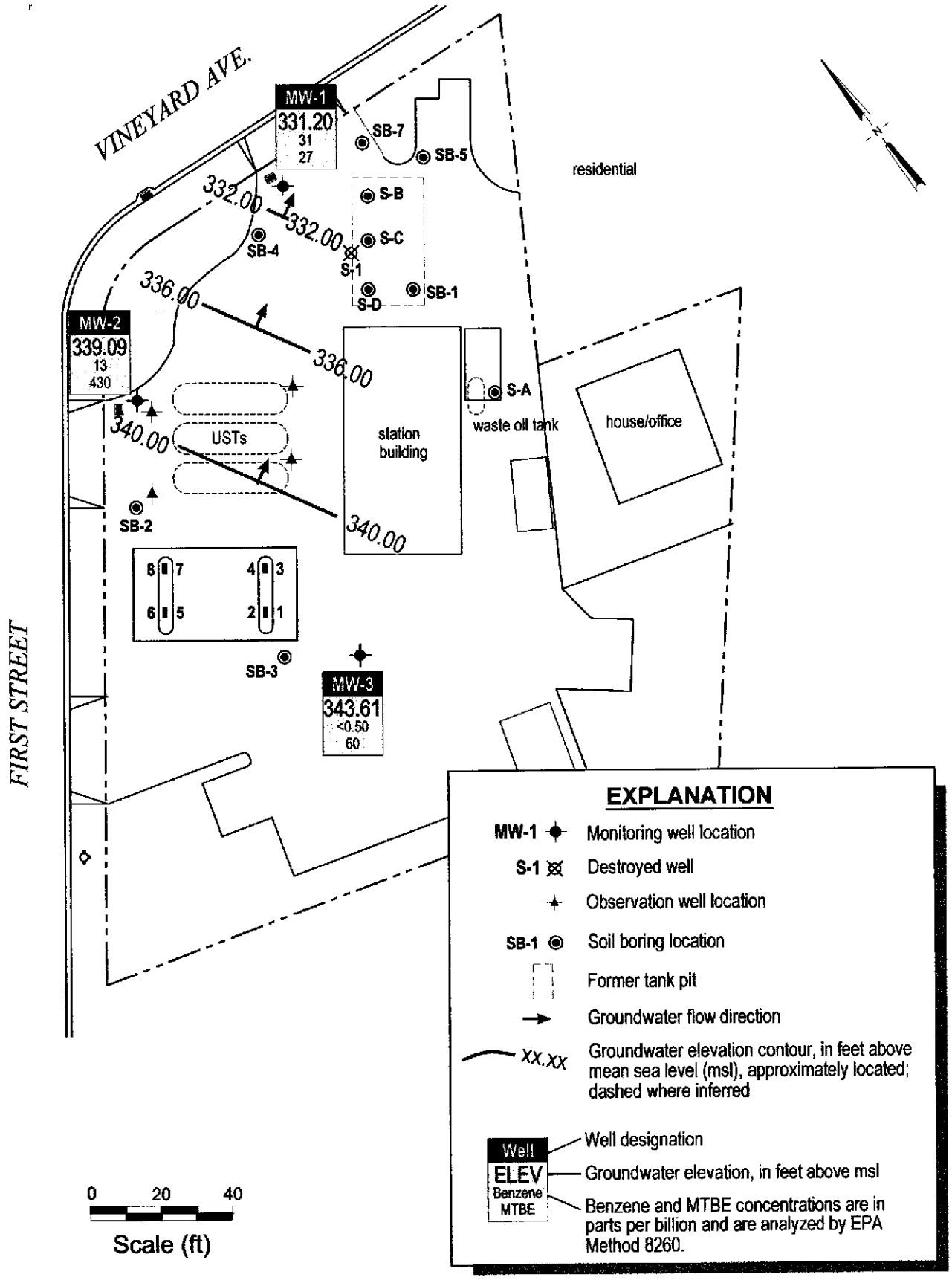


FIGURE
2

G:\PLEASANTON4226FIRST\FIGURES\4QM02-MP.DWG

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

CAMBRIA

Groundwater Elevation Contour Map

November 14, 2002

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	1,2-DCA	EDB
		← (Concentrations in ppb) →							
MW-1	**11/14/02**	**27**	**5.9**	**<2.0**	**<2.0**	**<50**	---	**87**	**<2.0**
MW-2	12/06/01	170	<2.0	<2.0	<2.0	<50	<500	---	---
	11/14/02	**430**	**<2.0**	**<2.0**	**<2.0**	**270**	---	**<2.0**	**<2.0**
MW-3	12/06/01	180	<2.0	<2.0	<2.0	<50	<500	---	---
	11/14/02	**60**	**<2.0**	**<2.0**	**<2.0**	**<50**	---	**<2.0**	**<2.0**

Abbreviations:

MTBE = Methyl tert-butyl ether, analyzed by 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
1,2-DCA = 1,2-dichloroethane, analyzed by EPA Method 8260
EDB = 1,2-dibromomethane or ethlyene dibromide, analyzed by EPA Method 8260
ppb = Parts per billion
--- = Not analyzed

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 11, 2002

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

Fourth Quarter 2002 Groundwater Monitoring at
Shell-branded Service Station
4226 First Street
Pleasanton, CA

Monitoring performed on November 14, 2002

Groundwater Monitoring Report **021114-MT-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, 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/jt

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

cc: Anni Kreml
Cambria Environmental Technology, Inc.
1144 65th 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)
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-1	02/05/2002	2,700	650	<2.5	<2.5	7.2	NA	<25	371.20	35.53	335.67
MW-1	06/17/2002	2,500	550	<2.0	<2.0	5.9	NA	<20	371.20	39.29	331.91
MW-1	07/25/2002	690	130	<0.50	<0.50	4.4	NA	18	371.20	39.39	331.81
MW-1	**11/14/2002**	**400**	**31**	**<0.50**	**<0.50**	**2.7**	**NA**	**27**	**371.20**	**40.00**	**331.20**
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-2	02/05/2002	<50	0.72	<0.50	<0.50	1.7	NA	170	372.40	32.29	340.11
MW-2	06/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	260	372.40	32.63	339.77
MW-2	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	280	372.40	32.80	339.60

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-2	**11/14/2002**	**120**	**13**	**9.0**	**3.8**	**14**	**NA**	**430**	**372.40**	**33.31**	**339.09**
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
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
MW-3	12/06/2001	110	<0.50	<0.50	<0.50	2.3	NA	180	375.05	31.28	343.77
MW-3	02/05/2002	<50	0.89	0.60	<0.50	2.1	NA	130	375.05	31.12	343.93
MW-3	06/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	72	375.05	31.21	343.84
MW-3	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	81	375.05	30.96	344.09
MW-3	**11/14/2002**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**60**	**375.05**	**31.44**	**343.61**

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

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)

Notes:

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.

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.

Site surveyed on January 15, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

KIFF ANALYTICAL LLC

Report Number : 29829
Date : 11/23/02

Leon Gearhart
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 3 Water Samples
Project Name : 4226 First Street, Pleasanton
Project Number : 021114-MT2
P.O. Number : 98995840

Dear Mr. Gearhart,

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,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 29829

Date : 11/23/02

Project Name : **4226 First Street, Pleasanton**

Project Number : **021114-MT2**

Sample : **MW-1** Matrix : Water Lab Number : 29829-01

Sample Date :11/14/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**31**	0.50	ug/L	EPA 8260B	11/20/02
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	11/20/02
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/20/02
Total Xylenes	**2.7**	0.50	ug/L	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**27**	0.50	ug/L	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**5.9**	2.0	ug/L	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 2.0**	2.0	ug/L	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 2.0**	2.0	ug/L	EPA 8260B	11/20/02
Tert-Butanol	**< 50**	50	ug/L	EPA 8260B	11/20/02
TPH as Gasoline	**400**	50	ug/L	EPA 8260B	11/20/02
1,2-Dichloroethane	**87**	2.0	ug/L	EPA 8260B	11/20/02
1,2-Dibromoethane	**< 2.0**	2.0	ug/L	EPA 8260B	11/20/02
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	97.4		% Recovery	EPA 8260B	11/20/02
Dibromofluoromethane (Surr)	97.2		% Recovery	EPA 8260B	11/20/02
1,2-Dichloroethane-d4 (Surr)	99.0		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 29829
Date : 11/23/02

Project Name : **4226 First Street, Pleasanton**
Project Number : **021114-MT2**

Sample : **MW-2** Matrix : Water Lab Number : 29829-02
Sample Date :11/14/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**13**	0.50	ug/L	EPA 8260B	11/20/02
Toluene	**9.0**	0.50	ug/L	EPA 8260B	11/20/02
Ethylbenzene	**3.8**	0.50	ug/L	EPA 8260B	11/20/02
Total Xylenes	**14**	0.50	ug/L	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**430**	2.5	ug/L	EPA 8260B	11/21/02
Diisopropyl ether (DIPE)	**< 2.0**	2.0	ug/L	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 2.0**	2.0	ug/L	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 2.0**	2.0	ug/L	EPA 8260B	11/20/02
Tert-Butanol	**270**	50	ug/L	EPA 8260B	11/20/02
TPH as Gasoline	**120**	50	ug/L	EPA 8260B	11/20/02
1,2-Dichloroethane	**< 2.0**	2.0	ug/L	EPA 8260B	11/20/02
1,2-Dibromoethane	**< 2.0**	2.0	ug/L	EPA 8260B	11/20/02
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	97.8		% Recovery	EPA 8260B	11/20/02
Dibromofluoromethane (Surr)	95.9		% Recovery	EPA 8260B	11/20/02
1,2-Dichloroethane-d4 (Surr)	99.1		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 29829
Date : 11/23/02

Project Name : **4226 First Street, Pleasanton**
Project Number : **021114-MT2**

Sample : **MW-3** Matrix : Water Lab Number : 29829-03
Sample Date :11/14/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/20/02
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	11/20/02
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/20/02
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**60**	0.50	ug/L	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 2.0**	2.0	ug/L	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 2.0**	2.0	ug/L	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 2.0**	2.0	ug/L	EPA 8260B	11/20/02
Tert-Butanol	**< 50**	50	ug/L	EPA 8260B	11/20/02
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	11/20/02
1,2-Dichloroethane	**< 2.0**	2.0	ug/L	EPA 8260B	11/20/02
1,2-Dibromoethane	**< 2.0**	2.0	ug/L	EPA 8260B	11/20/02
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	96.2		% Recovery	EPA 8260B	11/20/02
Dibromofluoromethane (Surr)	94.4		% Recovery	EPA 8260B	11/20/02
1,2-Dichloroethane-d4 (Surr)	98.8		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 29829

Date : 11/23/02

QC Report : Method Blank Data

Project Name : **4226 First Street, Pleasanton**

Project Number : **021114-MT2**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/19/02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/19/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/19/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/19/02
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	11/19/02
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	11/19/02
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	11/19/02
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	11/19/02
Tert-Butanol	< 50	50	ug/L	EPA 8260B	11/19/02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	11/19/02
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	11/19/02
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	11/19/02
Toluene - d8 (Surr)	104		%	EPA 8260B	11/19/02
4-Bromofluorobenzene (Surr)	97.4		%	EPA 8260B	11/19/02
Dibromofluoromethane (Surr)	96.8		%	EPA 8260B	11/19/02
1,2-Dichloroethane-d4 (Surr)	99.4		%	EPA 8260B	11/19/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St. Suite 300 Davis, CA 95616 530-297-4800

Report Number : 29829

Date : 11/23/02

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **4226 First Street,**

Project Number : **021114-MT2**

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
Benzene	29844-07	<0.50	40.0	40.0	42.0	41.9	ug/L	EPA 8260B	11/19/02	105	105	0.334	70-130	25
Toluene	29844-07	<0.50	40.0	40.0	43.6	43.9	ug/L	EPA 8260B	11/19/02	109	110	0.594	70-130	25
Tert-Butanol	29844-07	<5.0	200	200	204	207	ug/L	EPA 8260B	11/19/02	102	104	1.54	70-130	25
Methyl-t-Butyl Ether	29844-07	<0.50	40.0	40.0	41.8	44.0	ug/L	EPA 8260B	11/19/02	105	110	4.94	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 29829

Date : 11/23/02

QC Report : Laboratory Control Sample (LCS)

Project Name : **4226 First Street,**

Project Number : **021114-MT2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	11/19/02	101	70-130
Toluene	40.0	ug/L	EPA 8260B	11/19/02	109	70-130
Tert-Butanol	200	ug/L	EPA 8260B	11/19/02	98.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	11/19/02	104	70-130

KIFF ANALYTICAL, LLC

Approved By: Joel Kiff

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

Karen Petryna

29829

INCIDENT NUMBER (S&E ONLY): 98995840

SAP or CRMT NUMBER (TS/CRMT):

DATE: 11/14/02

PAGE: 1 of 1

SAMPLING COMPANY	LOG CODE:	SITE ADDRESS (Street and City):	GLOBAL ID NO.:
Blaine Tech Services	BTSS	4226 First Street, Pleasanton	T0600101259

ADDRESS:	EDF DELIVERABLE TO (Responsible Party or Designee):	PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
1680 Rogers Avenue, San Jose, CA 95112	Anni Kreml	510-420-3335	ShellOaklandEDF@cambria-env.com	0211A-LNT2

PROJECT CONTACT (Hardcopy or PDF Report to):	TELEPHONE:	FAX:	E-MAIL:	SAMPLER NAME(S) (Print):
Leon Gearhart	408-573-0555	408-573-7771	lgearhart@blainetech.com	Michael Doll

BTS #

LAB USE ONLY

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: CHECK BOX IF EDD IS NOT NEEDED ☐

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)	TEMPERATURE ON RECEIPT C°
	MW-1	11/14/02	1520	W	3	X	X	X	X	X			X	X		-01
	MW-2		1455		3	X	X	X	X	X			X	X		-02
	MW-3		1440		3	X	X	X	X	X			X	X		-03

FIELD NOTES:
Container/Preservative or PID Readings or Laboratory Notes

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Michael Doll		11/15/02	1223
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	John Cuttle/Kiff Analytical	111502	1223

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client

10/16/00 Revision

Q&Q Graphic (714) 898-9702

WELL GAUGING DATA

Project # 021114-MT2 Date 11/14/02 Client 98995840

Site 4226 First St., Pleasanton, CA

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	
MW-1	2					40.00	56.75		
MW-2	4					33.31	45.61		
MW-3	4					31.44	34.91		

SHELL WELL MONITORING DATA SHEET

BTS #: 02114-MTZ	Site: 98995840
Sampler: M. Toll	Date: 11-14-02
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 56.75	Depth to Water (DTW): 40.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 43.35	

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 (Gals.) X	3	= 8.1 Gals.
1 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^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1505	69.0	6.8	920	20	2.75	odor
1508	70.7	6.8	1000	38	5.5	"
1511	71.6	6.7	1036	30	8.25	"

Did well dewater? Yes (No) Gallons actually evacuated: 8.25

Sampling Date: 11-14-02 Sampling Time: 1520 Depth to Water: 43.00

Sample I.D.: MW-1 Laboratory: (Kiff) SPL Other_____

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

SHELL WELL MONITORING DATA SHEET

BTS #: 02114-MT2	Site: 98995840
Sampler: M. TOLL	Date: 11-14-02
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 45.61	Depth to Water (DTW): 33.31
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 35.78	

Purge Method: Bailer; Disposable Bailer; Middleburg; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other:_____

8 (Gals.) X 3 = 24 Gals.
1 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1446	72.5	7.0	1460	11	8	
1440	70.2	7.1	1455	12	16	
1450	70.7	7.1	1450	9	24	

Did well dewater? Yes (No) Gallons actually evacuated: 24

Sampling Date: 11-14-02 Sampling Time: 1455 Depth to Water: 35.75

Sample I.D.: MW-2 Laboratory: (Kiff) SPL Other_____

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

SHELL WELL MONITORING DATA SHEET

BTS #: 02114-MTZ	Site: 98995840
Sampler: M. TOLL	Date: 11-14-02
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 34.91	Depth to Water (DTW): 31.44
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 32.10	

Purge Method: Bailer, Disposable Bailer, (Middleburg), Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

2.3 (Gals.) X	3	=	6.9 Gals.
1 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1430	63.2	7.1	1000	12	2.5	
1433	63.0	7.2	999	23	5	
1436	63.0	7.2	991	11	7	

Did well dewater? Yes (No) Gallons actually evacuated: 7

Sampling Date: 11-14-02 Sampling Time: 1440 Depth to Water: 32.00

Sample I.D.: MW-3 Laboratory: (Kiff) SPL Other_____

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