CAMBRIA

August 21, 2000

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

Re: **Second Quarter 2000 Monitoring Report**
Shell-branded Service Station
105 Fifth Street
Oakland, California
Incident #98995757
Cambria Project #242-0472-002

Dear Mr. Seto:

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.

SECOND QUARTER 2000 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 groundwater elevation contour map (Figure 1). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

Vacuum Tank Truck Operations: Cambria coordinated groundwater extraction from wells MW-2 and MW-3. Vacuum truck operations will be conducted through the second quarter 2000. Groundwater mass removal data is presented in Table 1 and vapor mass removal data is presented in Table 2.

ANTICIPATED THIRD QUARTER 2000 ACTIVITIES

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

Investigation and Monitoring Well Installation: Cambria is currently obtaining an encroachment permit and bond from the City of Oakland to conduct the proposed investigation and monitoring well installation

Oakland, CA
San Ramon, CA
Sonoma, CA
Portland, OR

Cambria Environmental Technology, Inc.

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

Conduit Study and Sensitive Receptor Survey: Cambria will conduct a conduit study in the vicinity of the site and a 2,000-foot radius sensitive receptor survey of the site.

Vacuum Tank Truck Operations: Based on evaluation of MTBE concentration trends in wells MW-2 and MW-3, Cambria will make recommendations regarding continuation of vacuum truck operations at the site.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Darren Croteau at (510) 420-3331 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Darren Croteau
Project Geologist

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

REGISTERED GEOLOGIST
STEPHAN A. BORK
No. EG 20[illegible]
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

Figure: 1 - Groundwater Elevation Contour Map

Tables: 1 - Groundwater Mass Removal Data
2 - Vapor Mass Removal Data

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869
Arthur R. and Mary A. Hansen, Trs., et al, 820 Loyola Drive, Los Altos, CA 94024

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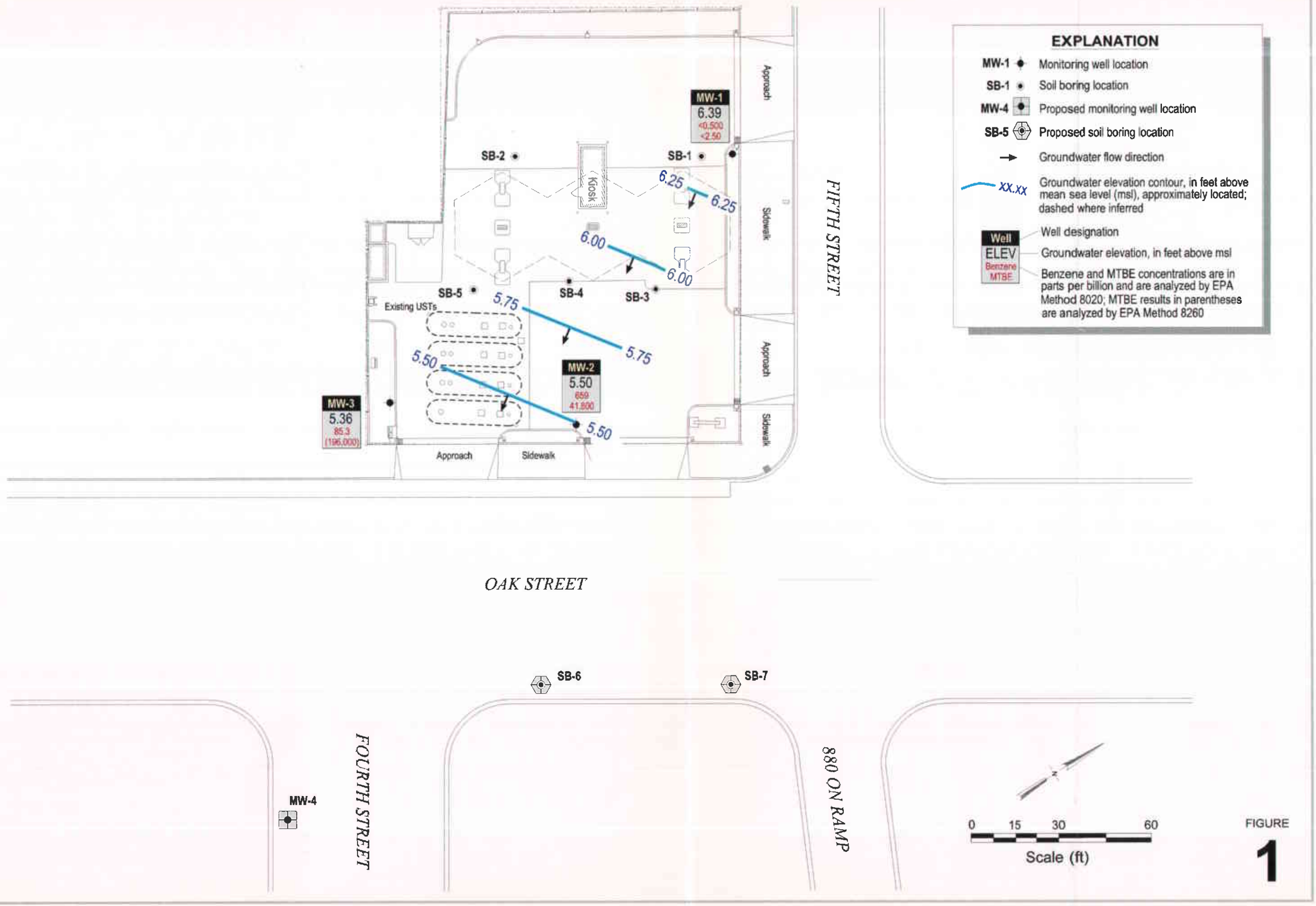

Groundwater Elevation Contour Map

April 7, 2000

CAMBRIA

Shell-branded Service Station
105 Fifth Street
Oakland, California
Incident #98995757

FIGURE
1

Table 1: Groundwater Mass Removal Data - Shell-branded Service Station, Incident #98995757, 105 Fifth Street, Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
04/21/00	MW-2	150	150	04/07/00	4,940	0.00618	0.00618	659	0.00082	0.00082	41,800	0.05232	0.05232
04/28/00	MW-2	100	250	04/07/00	4,940	0.00412	0.01031	659	0.00055	0.00137	41,800	0.03488	0.08720
05/05/00	MW-2	310	560	04/07/00	4,940	0.01278	0.02308	659	0.00170	0.00308	41,800	0.10813	0.19532
05/12/00	MW-2	350	910	04/07/00	4,940	0.01443	0.03751	659	0.00192	0.00500	41,800	0.12208	0.31740
06/02/00	MW-2	257	1,167	04/07/00	4,940	0.01059	0.04811	659	0.00141	0.00642	41,800	0.08964	0.40704
04/21/00	MW-3	100	100	04/07/00	< 1,000	< 0.00083	< 0.00083	85.3	0.00007	0.00007	283,000	0.23615	0.23615
04/28/00	MW-3	100	200	04/07/00	< 1,000	< 0.00083	< 0.00167	85.3	0.00007	0.00014	283,000	0.23615	0.47229
05/05/00	MW-3	50	250	04/07/00	< 1,000	< 0.00042	< 0.00209	85.3	0.00004	0.00018	283,000	0.11807	0.59036
05/12/00	MW-3	150	400	04/07/00	< 1,000	< 0.00125	< 0.00334	85.3	0.00011	0.00028	283,000	0.35422	0.94458
06/02/00	MW-3	550	950	04/07/00	< 1,000	< 0.00459	< 0.00793	85.3	0.00039	0.00068	283,000	1.29880	2.24338
Total Gallons Extracted:		**2,117**		**Total Pounds Removed:**		**< 0.05603**			**0.00709**			**2.65042**	
				Total Gallons Removed:		**< 0.00919**			**0.00097**			**0.42749**	

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline
MtBE = Methyl tert-butyl ether
µg/L = Micrograms per liter
ppb = Parts per billion, equivalent to µg/L
L = Liter
gal = Gallon
g = Gram
Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x (g/10^6µg) x (pound/453.6g) x (3.785 L/gal)
Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)
TPPH, benzene analyzed by EPA Method 8015/8020
MTBE analyzed by EPA Method 8260 in bold font, all other MTBE analyzed by EPA Method 8020
Groundwater extracted by vacuum trucks provided by ACTI. Water disposed of at a Martinez Refinery.

Table 2: Vapor Mass Removal Data - Shell-branded Service Station, Incident #98995757, 105 Fifth Street, Oakland, California

Date	Well ID	Interval Hours of Operation (hours)	System Flow Rate (CFM)	Hydrocarbon Concentrations (Concentrations in ppmv) TPHg	Benzene	MTBE	TPHg Removal Rate (#/hour)	Cumulative TPHg Removed (#)	Benzene Removal Rate (#/hour)	Cumulative Benzene Removed (#)	MTBE Removal Rate (#/hour)	Cumulative MTBE Removed (#)
04/21/00	MW-2	1.00	25	1,949	52	836	0.651	0.651	0.016	0.016	0.286	0.286
06/02/00	MW-2	2.08	6	30	6.51	269.0	0.002	0.656	0.000	0.017	0.022	0.332
04/21/00	MW-3	1.00	20	< 28	< 0.31	594	< 0.007	< 0.007	< 0.000	< 0.000	0.163	0.163
06/02/00	MW-3	4.25	3	< 14.2	0.36	2,656	0.001	0.010	0.000	0.000	0.109	0.626
Total Pounds Removed:							**TPHg = < 0.010**		**Benzene = 0.000**		**MTBE = 0.626**	

Abbreviations and Notes:

CFM = Cubic feet per minute

TPHg = Total petroleum hydrocarbons as gasoline (C6-C12) by modified EPA Method 8015 in 1 liter tedlar bag samples

ppmv = Parts per million by volume

= Pounds

NA = Not available

TPHG, Benzene, and MTBE analyzed by EPA Method 8015/8020 in 1 liter tedlar bag samples

TPHg / Benzene / MTBE removal rate = Rate based on Bay Area Air Quality Management District's Manual of Procedures for Soil Vapor Extraction dated July 17, 1991.

(Rate = Concentration (ppmv) x system flow rate (cfm) x (1lb-mole/386ft3) x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene, 88 lb/lb-mole for MTBE) x 60 min/hour x 1/1,000,000)

Cumulative TPHg / Benzene / MTBE removal = Previous removal rate multiplied by the hour-interval of operation plus the previous total

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

June 9, 2000

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

Second Quarter 2000 Groundwater Monitoring at
Shell-branded Service Station
105 5th Street
Oakland, CA

Monitoring performed on April 7, 2000

Groundwater Monitoring Report **000407-J-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. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

Deidre Kerwin
Operations Manager

DK/jt

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

cc: Anni Kreml
Cambria Environmental Technology, Inc.
1144 65th Street, Suite C
Oakland, CA 94608-2411

WELL CONCENTRATIONS
Shell-branded Service Station
105 5th Street
Oakland, 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)	D.O. Reading mg/L
MW-1	07/20/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.22	17.56	-5.34	NA
MW-1	07/23/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	<2.00	12.22	6.45	5.77	NA
MW-1	11/01/1999	100	NA	15.6	3.12	4.04	12.6	6.69	NA	12.22	6.59	5.63	0.5/0.7
MW-1	01/05/2000	<50.0	<20.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	12.22	6.38	5.84	1.2/1.4
MW-1	04/07/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	12.22	5.83	6.39	1.6/2.4
MW-2	07/20/1999	NA	NA	NA	NA	NA	NA	NA	NA	10.87	18.24	-7.37	NA
MW-2	07/23/1999	13,800	NA	1,790	<100	<100	682	29,900	29,400	10.87	5.98	4.89	NA
MW-2	11/01/1999	2,420	NA	316	10.8	119	44.2	17,000	NA	10.87	6.03	4.84	0.5/0.3
MW-2	01/05/2000	2120a	687	301a	<5.00a	116a	84.4a	14,700	NA	10.87	5.90	4.97	2.1/2.6
MW-2	04/07/2000	4,940b	1,300	659b	<25.0b	214b	314b	41,800b	NA	10.87	5.37	5.50	0.4/0.2
MW-3	07/20/1999	NA	NA	NA	NA	NA	NA	NA	NA	11.27	19.07	-7.80	NA
MW-3	07/23/1999	128	NA	<0.500	<0.500	<0.500	<0.500	404,000	324,000	11.27	6.43	4.84	NA
MW-3	11/01/1999	<1,000	NA	<10.0	<10.0	<10.0	<10.0	169,000	224,000	11.27	6.48	4.79	0.5/0.3
MW-3	01/05/2000	137	322	<1.00	<1.00	<1.00	<1.00	165,000	219,000	11.27	6.35	4.92	2.4/2.2
MW-3	04/07/2000	<1,000	264	85.3	<10.0	<10.0	<10.0	283,000	196,000a	11.27	5.91	5.36	0.4/0.2

WELL CONCENTRATIONS
Shell-branded Service Station
105 5th Street
Oakland, 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)	D.O. Reading mg/L

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

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

n/n = Pre-purge/Post-purge

Notes:

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

b = Result was generated out of hold time.

Sequoia
Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

May 31st, 2000

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

RE: MTBE confirmations for 105 5th St., Sequoia project MJD0243

Dear Mr. Sudano:

Due to changes in analytical personnel and subsequent miscommunications there have been several instances of MTBE confirmations that have not been completed over the past two months for samples that have been brought to the Sequoia Analytical laboratory in Morgan Hill. We have since taken several steps to ratify this situation, involving implementation of new operating procedures for screening projects, which required acquiring a new instrument that will assist in meeting hold times as well as handling a larger volume of samples. All samples will be screened to determine which samples require MTBE analysis by 8260, concurrently with the BTEX analysis.

For the project referenced above, MTBE confirmations were not completed within hold time. It has been requested that we run the MTBE confirmations out of holding time, which will confirm the presence or absence of MTBE in the samples, as well as estimate the concentration already reported by EPA 8020. Shell will not be charged for these results.

We apologize for any inconvenience this has caused and look forward to providing you with improved service as a result of our new screening procedures.

Very Truly Yours,

Sequoia Analytical

Ted Terrasas
Project Manager

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Blaine Tech Services (Shell)	Project: 105 5th St.	
1680 Rogers Avenue	Project Number: 105 5th St.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	05/31/00 17:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MJD0243-01	Water	04/07/00 09:50	04/10/00 11:41
MW-2	MJD0243-02	Water	04/07/00 10:30	04/10/00 11:41
MW-3	MJD0243-03	Water	04/07/00 10:10	04/10/00 11:41

Ted Terrasas, Project Manager

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
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www.sequoialabs.com

Blaine Tech Services (Shell)	Project: 105 5th St.	
1680 Rogers Avenue	Project Number: 105 5th St.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	05/31/00 17:48

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

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MJD0243-01) Water Sampled: 04/07/00 09:50 Received: 04/10/00 11:41									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	0D20003	04/20/00	04/20/00	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*		*70-130*		"	"	"	
MW-2 (MJD0243-02) Water Sampled: 04/07/00 10:30 Received: 04/10/00 11:41									
Purgeable Hydrocarbons	**4940**	2500	ug/l	50	0D24002	04/24/00	04/24/00	DHS LUFT	H-04,P-01
Benzene	**659**	25.0	"	"	"	"	"	"	H-04
Toluene	ND	25.0	"	"	"	"	"	"	H-04
Ethylbenzene	**214**	25.0	"	"	"	"	"	"	H-04
Xylenes (total)	**314**	25.0	"	"	"	"	"	"	H-04
Methyl tert-butyl ether	**41800**	500	"	200	"	"	04/25/00	"	H-04,M-03
Surrogate: a,a,a-Trifluorotoluene		*5410 %*		*70-130*		"	*04/24/00*	"	
MW-3 (MJD0243-03) Water Sampled: 04/07/00 10:10 Received: 04/10/00 11:41									
Purgeable Hydrocarbons	ND	1000	ug/l	20	0D21001	04/21/00	04/21/00	DHS LUFT	
Benzene	**85.3**	10.0	"	"	"	"	"	"	
Toluene	ND	10.0	"	"	"	"	"	"	
Ethylbenzene	ND	10.0	"	"	"	"	"	"	
Xylenes (total)	ND	10.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**283000**	2500	"	1000	"	"	04/24/00	"	M-03
Surrogate: a,a,a-Trifluorotoluene		*99.2 %*		*70-130*		"	*04/21/00*	"	

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
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Blaine Tech Services (Shell)	Project: 105 5th St.	
1680 Rogers Avenue	Project Number: 105 5th St.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	05/31/00 17:48

Diesel Hydrocarbons (C9-C24) by DHS LUFT

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MJD0243-01) Water	**Sampled: 04/07/00 09:50**	**Received: 04/10/00 11:41**							
Diesel Range Hydrocarbons	ND	0.0500	mg/l	1	0D14009	04/14/00	04/17/00	DHS LUFT	
Surrogate: n-Pentacosane		*109 %*	*50-150*		"	"	"	"	
MW-2 (MJD0243-02) Water	**Sampled: 04/07/00 10:30**	**Received: 04/10/00 11:41**							
Diesel Range Hydrocarbons	**1.30**	0.0500	mg/l	1	0D14009	04/14/00	04/17/00	DHS LUFT	D-15
Surrogate: n-Pentacosane		*101 %*	*50-150*		"	"	"	"	
MW-3 (MJD0243-03) Water	**Sampled: 04/07/00 10:10**	**Received: 04/10/00 11:41**							
Diesel Range Hydrocarbons	**0.264**	0.0500	mg/l	1	0D14009	04/14/00	04/17/00	DHS LUFT	D-15
Surrogate: n-Pentacosane		*107 %*	*50-150*		"	"	"	"	

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Blaine Tech Services (Shell)	Project: 105 5th St.	
1680 Rogers Avenue	Project Number: 105 5th St.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	05/31/00 17:48

MTBE by EPA Method 8260A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MJD0243-03) Water Sampled: 04/07/00 10:10 Received: 04/10/00 11:41									**H-02**
Methyl tert-butyl ether	**196000**	10000	ug/l	10000	0E27001	05/26/00	05/26/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		*98.3 %*		*70-130*		"	"	"	"

Sequoia Analytical

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Blaine Tech Services (Shell)	Project: 105 5th St.	
1680 Rogers Avenue	Project Number: 105 5th St.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	05/31/00 17:48

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0D20003 - EPA 5030B [P/T]										
Blank (0D20003-BLK1)				Prepared & Analyzed: 04/20/00						
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
Surrogate: a,a,a-Trifluorotoluene	*11.1*		"	*10.0*		*111*	*70-130*			
LCS (0D20003-BS1)				Prepared & Analyzed: 04/20/00						
Benzene	11.8	0.500	ug/l	10.0		118	70-130			
Toluene	10.5	0.500	"	10.0		105	70-130			
Ethylbenzene	9.73	0.500	"	10.0		97.3	70-130			
Xylenes (total)	29.3	0.500	"	30.0		97.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	*10.9*		"	*10.0*		*109*	*70-130*			
Matrix Spike (0D20003-MS1)		**Source: MJD0224-13**		Prepared & Analyzed: 04/20/00						
Benzene	11.6	0.500	ug/l	10.0	ND	116	60-140			
Toluene	10.1	0.500	"	10.0	ND	101	60-140			
Ethylbenzene	9.47	0.500	"	10.0	ND	94.7	60-140			
Xylenes (total)	28.1	0.500	"	30.0	ND	93.7	60-140			
Surrogate: a,a,a-Trifluorotoluene	*10.4*		"	*10.0*		*104*	*70-130*			
Matrix Spike Dup (0D20003-MSD1)		**Source: MJD0224-13**		Prepared & Analyzed: 04/20/00						
Benzene	10.1	0.500	ug/l	10.0	ND	101	60-140	13.8	25	
Toluene	8.77	0.500	"	10.0	ND	87.7	60-140	14.1	25	
Ethylbenzene	8.06	0.500	"	10.0	ND	80.6	60-140	16.1	25	
Xylenes (total)	23.8	0.500	"	30.0	ND	79.3	60-140	16.6	25	
Surrogate: a,a,a-Trifluorotoluene	*9.30*		"	*10.0*		*93.0*	*70-130*			

Sequoia Analytical

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www.sequoialabs.com

Blaine Tech Services (Shell)	Project: 105 5th St.	
1680 Rogers Avenue	Project Number: 105 5th St.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	05/31/00 17:48

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

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0D21001 - EPA 5030B [P/T]										
Blank (0D21001-BLK1)				Prepared & Analyzed: 04/21/00						
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
Surrogate: a,a,a-Trifluorotoluene	*10.3*		"	*10.0*		*103*	*70-130*			
LCS (0D21001-BS1)				Prepared & Analyzed: 04/21/00						
Purgeable Hydrocarbons	209	50.0	ug/l	250		83.6	70-130			
Surrogate: a,a,a-Trifluorotoluene	*10.5*		"	*10.0*		*105*	*70-130*			
Matrix Spike (0D21001-MS1)	**Source: MJD0245-02**			Prepared: 04/21/00 Analyzed: 04/22/00						
Purgeable Hydrocarbons	213	50.0	ug/l	250	ND	85.2	60-140			
Surrogate: a,a,a-Trifluorotoluene	*10.6*		"	*10.0*		*106*	*70-130*			
Matrix Spike Dup (0D21001-MSD1)	**Source: MJD0245-02**			Prepared: 04/21/00 Analyzed: 04/22/00						
Purgeable Hydrocarbons	217	50.0	ug/l	250	ND	86.8	60-140	1.86	25	
Surrogate: a,a,a-Trifluorotoluene	*10.8*		"	*10.0*		*108*	*70-130*			
Batch 0D24002 - EPA 5030B [P/T]										
Blank (0D24002-BLK1)				Prepared & Analyzed: 04/24/00						
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
Surrogate: a,a,a-Trifluorotoluene	*10.1*		"	*10.0*		*101*	*70-130*			

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1680 Rogers Avenue	Project Number: 105 5th St.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	05/31/00 17:48

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

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0D24002 - EPA 5030B [P/T]										
LCS (0D24002-BS1)				Prepared & Analyzed: 04/24/00						
Purgeable Hydrocarbons	268	50.0	ug/l	250		107	70-130			
Surrogate: a,a,a-Trifluorotoluene	*14.5*		"	*10.0*		*145*	*70-130*			*S-02*

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San Jose CA, 95112	Project Manager: Nick Sudano	05/31/00 17:48

Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0D14009 - EPA 3510B										
Blank (0D14009-BLK1)				Prepared: 04/14/00 Analyzed: 04/17/00						
Diesel Range Hydrocarbons	ND	0.0500	mg/l							
Surrogate: n-Pentacosane	*0.118*		"	*0.100*		*118*	*50-150*			
LCS (0D14009-BS1)				Prepared: 04/14/00 Analyzed: 04/17/00						
Diesel Range Hydrocarbons	0.836	0.0500	mg/l	1.00		83.6	60-140			
Surrogate: n-Pentacosane	*0.107*		"	*0.100*		*107*	*50-150*			
LCS Dup (0D14009-BSD1)				Prepared: 04/14/00 Analyzed: 04/17/00						
Diesel Range Hydrocarbons	0.932	0.0500	mg/l	1.00		93.2	60-140	10.9	50	
Surrogate: n-Pentacosane	*0.106*		"	*0.100*		*106*	*50-150*			

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1680 Rogers Avenue	Project Number: 105 5th St.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	05/31/00 17:48

MTBE by EPA Method 8260A - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0E27001 - EPA 5030B [P/T]										
Blank (0E27001-BLK1)				Prepared & Analyzed: 05/26/00						
Methyl tert-butyl ether	ND	1.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*10.2*		"	*10.0*		*102*	*70-130*			
LCS (0E27001-BS1)				Prepared & Analyzed: 05/26/00						
Methyl tert-butyl ether	8.88	1.00	ug/l	10.0		88.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	*9.87*		"	*10.0*		*98.7*	*70-130*			
Matrix Spike (0E27001-MS1)		**Source: MJD0431-03**		Prepared & Analyzed: 05/26/00						
Methyl tert-butyl ether	1830	100	ug/l	1000	669	116	70-130			
Surrogate: 1,2-Dichloroethane-d4	*9.90*		"	*10.0*		*99.0*	*70-130*			
Matrix Spike Dup (0E27001-MSD1)		**Source: MJD0431-03**		Prepared & Analyzed: 05/26/00						
Methyl tert-butyl ether	1910	100	ug/l	1000	669	124	70-130	4.28	25	
Surrogate: 1,2-Dichloroethane-d4	*10.1*		"	*10.0*		*101*	*70-130*			

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1680 Rogers Avenue	Project Number: 105 5th St.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	05/31/00 17:48

Notes and Definitions

D-15	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
H-02	This sample was analyzed outside of EPA recommended hold time.
H-04	The result reported for this analyte was generated out of hold time. It was originally run within hold time, but exceeded the linear range of the analysis.
M-03	Sample was analyzed at a second dilution per clients request.
P-01	Chromatogram Pattern: Gasoline C6-C12
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

BLAINE TECH SERVICES INC.

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

CHAIN OF CUSTODY 000402-JT

CLIENT: Equiva - Karen Petryna

SITE: 105 5th Street
Oakland, CA

LAB: SEQUOIA

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☒ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER MJD0243

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 98995757

Send report to Blaine Tech Services

Attn: Ann Pember

SAMPLE I.D.	Date	Time	MATRIX S = SOIL W = H2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-1	4-7	950	W	5	40ml VOAs		X	X		X						1
MW-2	"	1030	"	5	"		X	X		X			"Confirm highest			2
MW-3	"	1010	"	5	"		X	X		X			MTBE hit by			3
													EPA 8260"			

SAMPLING COMPLETED	DATE	TIME
	4-7	1030

SAMPLING PERFORMED BY: Josh Kerns

RESULTS NEEDED NO LATER THAN: Standard

		DATE	TIME		DATE	TIME
RELEASED BY		4/10/00	8:40	RECEIVED BY	4/10/00	8:40
RELEASED BY		4/10/00		RECEIVED BY BN (MH)	4/10/00	11:41
RELEASED BY				RECEIVED BY		

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

WELL GAUGING DATA

Project # 000407-J1 Date 4-7-00 Client Equiva #98995757

Site 105 5th St. Oakland, 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	Clean to Dirty
MW-1	4					5.83	23.60	TOC	1
MW-2	4					5.37	23.49	"	3
MW-3	4					5.91	24.90	"	2

(3)

WELL MONITORING DATA SHEET

Project #: 000407-J1	Client: Equiva #98995757
Sampler: Josh	Start Date: 4-7-00
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 23.60	Depth to Water: 5.83
Before: After:	Before: After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible ✓ / Extraction Pump / Other: ___

Sampling Method: Bailer ✓ / Disposable Bailer / Extraction Port / Other: ___

11.6 (Gals.) X 3 = 34.8 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
945	64.8	5.4	902	156	12	odor
947	65.3	6.3	499	>200	24	Turbid
949	66.0	6.5	162	>200	36	1

Did well dewater? Yes (No) Gallons actually evacuated: 36

Sampling Time: 950 Sampling Date: 4-7-00

Sample I.D.: MW-1 Laboratory: Sequoia

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

Equipment Blank I.D.: @ Time Duplicate I.D.:

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

D.O. (if req'd): Pre-purge: 1.6 mg/L Post-purge: 2.-

ORP (if req'd): Pre-purge: mV Post-purge:

WELL MONITORING DATA SHEET

Project #: 000407-T1	Client: Equiva # 9899 5757
Sampler: Josh	Start Date: 4-7-00
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 23.49	Depth to Water: 5.37
Before: After:	Before: After:
Depth to Free Product: ____	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible ✓ / Extraction Pump / Other: ____

Sampling Method: Bailer ✓ / Disposable Bailer / Extraction Port / Other: ____

11.8 (Gals.) X 3 = 35.4 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1023	67.9	6.8	599	173	12	odor
1025	68.6	6.5	667	>200	24	"
1027	68.9	6.5	580	>200	36	"

Did well dewater? Yes (No) Gallons actually evacuated: 36

Sampling Time: 1030 Sampling Date: 4-7-00

Sample I.D.: MW-2 Laboratory: Sequoia

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

Equipment Blank I.D.: @ Time Duplicate I.D.:

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

D.O. (if req'd):	Pre-purge:	0.4 mg/L	Post-purge:	0.2 mg/L
ORP (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 000402-01	Client: Equiva #98995757
Sampler: Josh	Start Date: 4-7-00
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 24.90	Depth to Water: 5.91
Before: After:	Before: After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible ✓ / Extraction Pump / Other: _____

Sampling Method: Bailer ✓ / Disposable Bailer / Extraction Port / Other: _____

12.3 (Gals.) X 3 = 37 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1005	64.0	6.4	896	>200	13	
1007	64.3	6.6	852	>200	26	Turbid
1008	65.1	6.5	861	>200	38	↓

Did well dewater? Yes (No) Gallons actually evacuated: 38

Sampling Time: 1010 Sampling Date: 4-7-00

Sample I.D.: MW-3 Laboratory: Sequoia

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

Equipment Blank I.D.: @ Time Duplicate I.D.:

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

D.O. (if req'd):	Pre-purge:	0.4 mg/L	Post-purge:	0.2 mg/L
ORP (if req'd):	Pre-purge:	mV	Post-purge:	mV