CAMBRIA

August 1, 2000

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

Re: **First Quarter 2000 Monitoring Report**
Shell-branded Service Station
610 Market Street
Oakland, California
Incident #99895750
Cambria Project #242-0594-002

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.

FIRST 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.

Agency Response: In response to the Alameda County Health Care Services Agency correspondence dated March 2, 2000, Cambria has started the encroachment permitting as required by the City of Oakland for drilling activities in the public right of way. Once permits have been obtained, Cambria will notify your office of our scheduled drilling date.

Groundwater Extraction: Volumes and mass removal data for ongoing vacuum extraction activities are summarized in Table 1.

ANTICIPATED SECOND QUARTER 2000 ACTIVITIES

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

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

CLOSING

We appreciate the opportunity to work with you on this project. Please call Troy Buggle at (510) 420-3333 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Troy Buggle
Staff Senior Scientist

REGISTERED GEOLOGIST
STEPHAN A. BORK
No. EG 2058
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

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

Figure: 1 - Groundwater Elevation Contour Map

Table: 1 - 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
Virginia R. Rawson, Tr., 1860 Tice Creek Drive #1353, Walnut Creek, CA 94595
Ronald L. & Cathy L. Labatt, PO Box 462, Kamiah, ID 83536

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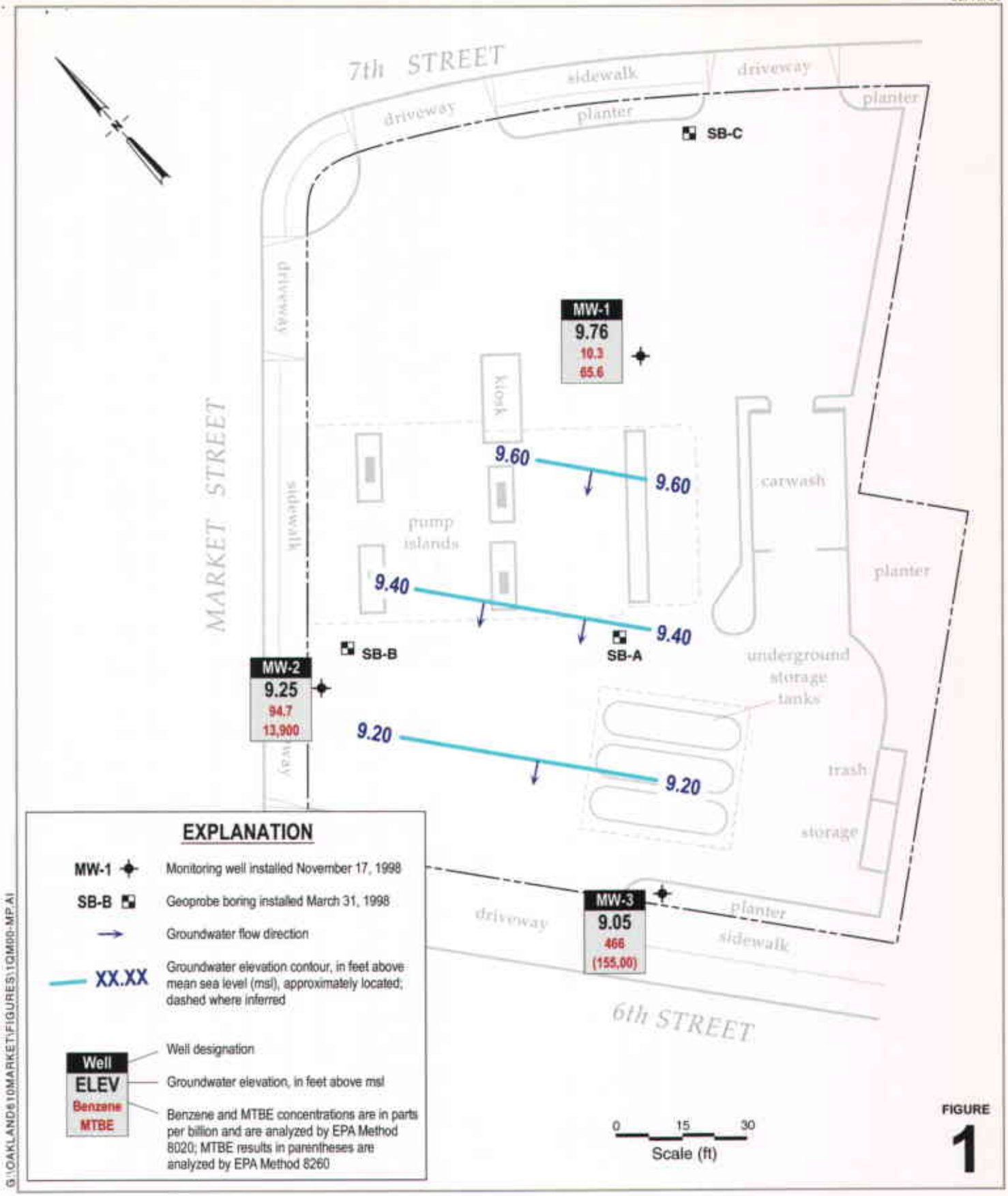

G:\OAKLAND\610MARKET\FIGURES\1QM00-MP.AI

FIGURE
1

Shell-branded Service Station

610 Market Street
Oakland, California
Incident #98995750

CAMBRIA

Groundwater Elevation Contour Map

March 21, 2000

Table 1: Mass Removal Data - Shell-branded Service Station, Incident #98995750, 610 Market Street, Oakland, CA

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH* Concentration (ppb)	TPPH Removed (lb)	TPPH Removed To Date (lb)	Benzene* Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MtBE* Concentration (ppb)	MtBE Removed (lb)	MtBE Removed To Date (lb)
03/15/00	MW-2	0	0	03/21/00	< 5,000	< 0.00000	0.00000	94.7	0.00000	0.00000	13,900	0.00000	0.00000
03/22/00	MW-2	100	100	03/21/00	< 5,000	< 0.00417	0.00417	94.7	0.00008	0.00008	13,900	0.01160	0.01160
03/27/00	MW-2	75	175	03/21/00	< 5,000	< 0.00313	0.00730	94.7	0.00006	0.00014	13,900	0.00870	0.02030
04/03/00	MW-2	100	275	03/21/00	< 5,000	< 0.00417	0.01147	94.7	0.00008	0.00022	13,900	0.01160	0.03190
04/17/00	MW-2	200	475	03/21/00	< 5,000	< 0.00834	0.01982	94.7	0.00016	0.00038	13,900	0.02320	0.05509
04/24/00	MW-2	125	600	03/21/00	< 5,000	< 0.00522	0.02503	94.7	0.00010	0.00047	13,900	0.01450	0.06959
05/15/00	MW-2	75	675	03/21/00	< 5,000	< 0.00313	0.02816	94.7	0.00006	0.00053	13,900	0.00870	0.07829
03/15/00	MW-3	500	500	03/21/00	< 25,000	< 0.02086	0.02086	466	0.00194	0.00194	**155,000**	0.64669	0.64669
03/22/00	MW-3	100	600	03/21/00	< 25,000	< 0.01565	0.03651	466	0.00039	0.00233	**155,000**	0.12934	0.77603
03/27/00	MW-3	75	675	03/21/00	< 25,000	< 0.01565	0.05215	466	0.00029	0.00262	**155,000**	0.09700	0.87303
04/03/00	MW-3	100	775	03/21/00	< 25,000	< 0.02086	0.07301	466	0.00039	0.00301	**155,000**	0.12934	1.00237
04/17/00	MW-3	200	975	03/21/00	< 25,000	< 0.04172	0.11473	466	0.00078	0.00379	**155,000**	0.25868	1.26104
04/24/00	MW-3	125	1,100	03/21/00	< 25,000	< 0.02608	0.14081	466	0.00049	0.00428	**155,000**	0.16167	1.42271
05/15/00	MW-3	75	1,175	03/21/00	< 25,000	< 0.01565	0.15646	466	0.00029	0.00457	**155,000**	0.09700	1.51972
Total Gallons Extracted:		**1,850**		**Total Pounds Removed: < 0.18462**					**0.00510**			**1.59801**	
				Total Gallons Removed: < 0.03027					**0.00070**			**0.25774**	

Table 1: Mass Removal Data - Shell-branded Service Station, Incident #98995750, 610 Market Street, Oakland, CA

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
lb = Pound
SPH = Separate Phase Hydrocarbons
L = Liter
gal = Gallon
g = Gram
* = Concentration based on most recent groundwater monitoring results
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)
MTBE data in bold font by 8260, all other MTBE by 8020

ATTACHMENT A

Blaine Groundwater 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

May 5, 2000

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

First Quarter 2000 Groundwater Monitoring at
Shell-branded Service Station
610 Market Street
Oakland, CA

Monitoring performed on March 21, 2000

Groundwater Monitoring Report **000321-M-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 Shell Martinez Manufacturing Complex.

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 Sheet

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

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA
WIC #204-5508-5702

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	12/17/1998	2,200	20	<10	110	420	<50	NA	21.70	13.71	7.99
MW-1	03/09/1999	4,320	25.8	<10.0	338	474	<100	NA	21.70	13.03	8.67
MW-1	06/16/1999	6,150	107	84.0	615	1,050	<250	NA	21.70	13.82	7.88
MW-1	09/29/1999	3,440	97.3	58.7	433	578	89.1	NA	21.70	14.45	7.25
MW-1	12/22/1999	1,370	34.5	4.38	196	49.1	29.3	NA	21.70	15.39	6.31
MW-1	03/21/2000	2,550	10.3	3.36	164	312	65.6	NA	21.70	11.94	9.76
MW-2	12/17/1998	<5,000	<50	<50	<50	<50	11,000	NA	19.61	12.07	7.54
MW-2	03/09/1999	<250	5.20	<2.50	<2.50	<2.50	9,870	NA	19.61	11.46	8.15
MW-2	06/16/1999	<50.0	0.569	<0.500	<0.500	<0.500	3,440	NA	19.61	12.26	7.35
MW-2	09/29/1999	58.6	2.51	0.978	<0.500	<0.500	3,930	NA	19.61	12.51	7.10
MW-2	12/22/1999	<2,000	50.4	<20.0	<20.0	<20.0	15,000	NA	19.61	13.40	6.21
MW-2	03/21/2000	<5,000	94.7	<50.0	<50.0	<50.0	13,900	NA	19.61	10.36	9.25
MW-3	12/17/1998	30,000	890	110	2,100	4,300	42,000	43,000	19.05	11.65	7.40
MW-3	03/09/1999	22,700	536	<200	1,030	1,510	35,400	38,500	19.05	11.03	8.02
MW-3	06/16/1999	19,300	625	129	805	1,210	42,400	51,600	19.05	11.89	7.16
MW-3	09/29/1999	20,200	727	155	1,000	1,180	84,100	136,000a	19.05	12.35	6.70
MW-3	12/22/1999	44,500	767	64.4	1,810	2,090	191,000	186,000a	19.05	13.45	5.60
MW-3	03/21/2000	<25,000	466	<250	727	2,280	126,000	155,000	19.05	10.00	9.05

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA
WIC #204-5508-5702

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)

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline 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 MW-1, MW-2, and MW-3 surveyed December 9, 1998 by Virgil Chavez Land Surveying of Vallejo, California.

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

Sequoia
Analytical

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

April 5, 2000

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

RE: Shell 610 Market St.

Dear Nick Sudano

Enclosed are the results of analyses for sample(s) received by the laboratory on March 22, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

TED TERRASAS

Kayvan Kimyai
Project Manager D.M.

CA ELAP Certificate Number 1210

Sequoia Analytical

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Morgan Hill, CA 95037
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FAX (408) 782-6308
www.sequoialabs.com

Blaine Tech Services (Shell)	Project:	Shell	Sampled:	3/21/00
1680 Rogers Avenue	Project Number:	610 Market St	Received:	3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported:	4/5/00 13:39

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	MJC0798-01	Water	3/21/00
MW-2	MJC0798-02	Water	3/21/00
MW-3	MJC0798-03	Water	3/21/00

Kayvan Kimyai, Project Manager D.M.

Sequoia Analytical

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Morgan Hill, CA 95037
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FAX (408) 782-6308
www.sequoialabs.com

Blaine Tech Services (Shell)	Project:	Shell	Sampled: 3/21/00
1680 Rogers Avenue	Project Number:	610 Market St	Received: 3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported: 4/5/00 13:39

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1			**MJC0798-01**				**Water**	
Gasoline	0040001	4/1/00	4/1/00		50.0	**2550**	ug/l	
Benzene	"	"	"		0.500	**10.3**	"	
Toluene	"	"	"		0.500	**3.36**	"	QR-04
Ethylbenzene	"	"	"		0.500	**164**	"	
Xylenes (total)	"	"	"		0.500	**312**	"	
Methyl tert-butyl ether	"	"	"		2.50	**65.6**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*104*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*96.0*	"	
MW-2			**MJC0798-02**				**Water**	
Gasoline	0040001	4/1/00	4/1/00		5000	ND	ug/l	
Benzene	"	"	"		50.0	**94.7**	"	
Toluene	"	"	"		50.0	ND	"	
Ethylbenzene	"	"	"		50.0	ND	"	
Xylenes (total)	"	"	"		50.0	ND	"	
Methyl tert-butyl ether	"	"	"		250	**13900**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*102*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*99.3*	"	
MW-3			**MJC0798-03**				**Water**	
Gasoline	0040001	4/1/00	4/1/00		25000	ND	ug/l	
Benzene	"	"	"		250	**466**	"	
Toluene	"	"	"		250	ND	"	
Ethylbenzene	"	"	"		250	**727**	"	
Xylenes (total)	"	"	"		250	**2280**	"	
Methyl tert-butyl ether	"	"	"		1250	**126000**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*102*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*97.0*	"	

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project:	Shell	Sampled: 3/21/00
1680 Rogers Avenue	Project Number:	610 Market St	Received: 3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported: 4/5/00 13:39

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-3			**MJC0798-03**				**Water**	
Methyl tert-butyl ether	0030785	4/4/00	4/4/00		2000	**155000**	ug/l	
Surrogate: Dibromofluoromethane	"	"	"	*86.0-118*		*106*	%	

Sequoia Analytical

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Morgan Hill, CA 95037
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Blaine Tech Services (Shell)	Project:	Shell	Sampled: 3/21/00
1680 Rogers Avenue	Project Number:	610 Market St	Received: 3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported: 4/5/00 13:39

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/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: 0040001	**Date Prepared: 4/1/00**					**Extraction Method: EPA 5030 waters**				
Blank	**0040001-BLK1**									
Gasoline	4/1/00			**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**	"	**2.50**				
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*305*	"	*65.0-135*	*102*			
Surrogate: 4-Bromofluorobenzene	"	*300*		*296*	"	*65.0-135*	*98.7*			
LCS	**0040001-BS1**									
Gasoline	4/1/00	1000		977	ug/l	65.0-135	97.7			
Surrogate: 4-Bromofluorobenzene	"	*300*		*304*	"	*65.0-135*	*101*			
Matrix Spike	**0040001-MS1**		**MJC0798-01**							
Gasoline	4/1/00	1000	2550	3560	ug/l	65.0-135	**101**			
Surrogate: 4-Bromofluorobenzene	"	*300*		*310*	"	*65.0-135*	*103*			
Matrix Spike Dup	**0040001-MSD1**		**MJC0798-01**							
Gasoline	4/1/00	1000	2550	3550	ug/l	65.0-135	**100**	20.0	**0.995**	
Surrogate: 4-Bromofluorobenzene	"	*300*		*313*	"	*65.0-135*	*104*			

Sequoia Analytical

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Blaine Tech Services (Shell)	Project:	Shell	Sampled: 3/21/00
1680 Rogers Avenue	Project Number:	610 Market St	Received: 3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported: 4/5/00 13:39

Volatile Organic Compounds by EPA Method 8260B/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: 0030785	**Date Prepared: 3/31/00**					**Extraction Method: EPA 5030 waters**				
Blank	**0030785-BLK1**									
Methyl tert-butyl ether	3/31/00			**ND**	ug/l	**0.500**				
Surrogate: Dibromofluoromethane	"	*5.00*		*4.72*	"	*86.0-118*	*94.4*			
Blank	**0030785-BLK2**									
Methyl tert-butyl ether	4/3/00			**ND**	ug/l	**0.500**				
Surrogate: Dibromofluoromethane	"	*5.00*		*5.35*	"	*86.0-118*	*107*			
Blank	**0030785-BLK3**									
Methyl tert-butyl ether	4/4/00			**ND**	ug/l	**0.500**				
Surrogate: Dibromofluoromethane	"	*5.00*		*4.96*	"	*86.0-118*	*99.2*			
LCS	**0030785-BS1**									
Methyl tert-butyl ether	3/31/00	5.00		5.05	ug/l	72.7-119	101			
Surrogate: Dibromofluoromethane	"	*5.00*		*4.95*	"	*86.0-118*	*99.0*			
LCS	**0030785-BS2**									
Methyl tert-butyl ether	4/3/00	5.00		5.54	ug/l	72.7-119	111			
Surrogate: Dibromofluoromethane	"	*5.00*		*5.20*	"	*86.0-118*	*104*			
LCS	**0030785-BS3**									
Methyl tert-butyl ether	4/4/00	5.00		5.14	ug/l	72.7-119	103			
Surrogate: Dibromofluoromethane	"	*5.00*		*5.12*	"	*86.0-118*	*102*			
Matrix Spike	**0030785-MS1**		**P003669-08**							
Methyl tert-butyl ether	3/31/00	5.00	ND	4.88	ug/l	72.7-119	**97.6**			
Surrogate: Dibromofluoromethane	"	*5.00*		*4.74*	"	*86.0-118*	*94.8*			
Matrix Spike Dup	**0030785-MSD1**		**P003669-08**							
Methyl tert-butyl ether	3/31/00	5.00	ND	5.52	ug/l	72.7-119	**110**	20.0	**11.9**	
Surrogate: Dibromofluoromethane	"	*5.00*		*4.95*	"	*86.0-118*	*99.0*			

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project:	Shell	Sampled:	3/21/00
1680 Rogers Avenue	Project Number:	610 Market St	Received:	3/22/00
San Jose, CA 95112	Project Manager:	Nick Sudano	Reported:	4/5/00 13:39

Notes and Definitions

#	Note
QR-04	Results between the primary and confirmation columns varied by greater than 40% RPD.
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

BLAINE
TECH SERVICES, INC.

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

CONDUCT ANALYSIS TO DETECT

LAB Sequoia | DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION _____
☐ LIA
☐ OTHER

CHAIN OF

CLIENT Equiva - Karen Petryna

SITE 610 Market Street
Oakland, CA
000321 M-1

SPECIAL INSTRUCTIONS MJC0798
Send invoice to Equiva
Incident # 98995750
Send report to Blaine Tech Services, Inc.
ATTN: Ann Pember

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H_2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-1	3-21-00	830	W	3	HCL		X	X				confirm	highest	MTBE	1
MW-2	↓	850	↓	3	VOA'S		X	X				hit by	EPA 8260.		2
MW-3	↓	910	↓	3			X	X							3

12 34

SAMPLING COMPLETED DATE 3-21-00 TIME 915
SAMPLING PERFORMED BY Mark N. Sorensen
RESULTS NEEDED NO LATER THAN

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Mark N. Sorensen	3/22/00	8:40		3/22/00	8:40
	3/22/00			3/22/00	12:34

SHIPPED VIA | DATE SENT | TIME SENT | COOLER #

WELL GAUGING DATA

Project # 000321 M-1 Date 3-21-00 Client Equiva

Site _____

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	4					11.94	24.70	TOC	
MW-2	4	odor				10.36	19.80	↓	
MW-3	4	odor				10.00	19.60	↓	

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000321/M-1	Site: 204-5508-5702
Sampler: Mark S.	Date: 3-21-00
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 24.70	Depth to Water: 11.94
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~~
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method: (Bailer)

- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

12.29 (Gals.) X 3 = 24.8 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.	Turbidity	Gals. Removed	Observations
815	64.9	6.5	850	15.9	9	
817	66.4	6.6	780	63.9	17	
818	67.0	6.7	740	42.2	25	

Did well dewater? Yes (No) Gallons actually evacuated: 25

Sampling Time: 830 Sampling Date: 3-21-00

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000321m-1	Site: 204- 5508 -5702
Sampler: Mark J.	Date: 3-21-00
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 19.80	Depth to Water: 10.36
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)
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: (Bailer)

Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

6.1 (Gals.) X 3 = 18.4 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.	Turbidity	Gals. Removed	Observations
835	64.2	6.7	970	25.4	7	odor
836	65.9	6.7	1060	66.2	13	↓
837	67.0	6.7	1050	40.0	19	↓

Did well dewater? Yes (No) Gallons actually evacuated: 19

Sampling Time: 850 Sampling Date: 3-21-00

Sample I.D.: MW-2 Laboratory: (Sequoia) Columbia 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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000321M-1	Site: 204-5502-5702
Sampler: Mark S.	Date: 3-21-00
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 19.60	Depth to Water: 10.00
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)
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: (Bailer)

Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

6.24 (Gals.) X 3 = 18.7 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.	Turbidity	Gals. Removed	Observations
852	65.6	7.0	730	25.9	7	odor
853	666	6.8	610	64.8	13	↓
854	67.6	6.8	590	49.0	19	↓
						foamy

Did well dewater? Yes (No) Gallons actually evacuated: 19

Sampling Time: 910 Sampling Date: 3-21-00

Sample I.D.: MW-3 Laboratory: (Sequoia) Columbia 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