CAMBRIA

#3646

February 15, 2000

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

Re: **Third Quarter 1999 Monitoring Report**
~~Shell-branded Service Station~~
540 Hegenberger Road
Oakland, California
Incident #98995752
Cambria Project #242-0414-002

Dear Mr. Chan:

On behalf of Equiva Services LLC (Equiva), Cambria Environmental Technology, Inc. (Cambria) is submitting this ground water monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

THIRD QUARTER 1999 ACTIVITIES

Ground Water Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California collected dissolved oxygen (DO) measurements, gauged water levels, and sampled the monitoring wells using the non-purging method. Blaine calculated ground water elevations and compiled the analytical data. Cambria prepared a ground water elevation contour map (Figure 1). The Blaine report, presenting the laboratory report and including supporting field documents, is included as Attachment A.

Interim Remedial Action: Due to the elevated concentrations of MTBE in site wells, Cambria has initiated weekly high vacuum ground water extraction from the four tank back fill wells (A through D), and monitoring wells MW-1 and MW-3. Approximately 30,651 gallons of ground water has been extracted from site wells since purging began on July 29, 1999. Weekly purge data and hydrocarbon mass removal calculations are presented in Tables 1 and Table 2, respectively. Due to low hydrocarbon mass removal from weekly vacuum truck operations, Cambria reduced weekly purging to wells MW-1 and MW-3 only.

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

Cambria Environmental Technology, Inc.

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

ANTICIPATED FOURTH QUARTER 1999 ACTIVITIES

Ground Water Monitoring: Blaine will collect DO measurements, gauge water levels, sample the monitoring wells using the non-purging method, and tabulate the data. Cambria will prepare a monitoring report.

Interim Remedial Action: As a means of source removal and contaminant migration control, Cambria will continue to coordinate weekly purging of wells MW-1 and MW-3.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Darryk Ataide at (510) 420-3339 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Darryk Ataide, REA I
Project Manager

Ailsa S. Le May, R.G.
Senior Geologist

REGISTERED GEOLOGIST
AILSA S. LE MAY
NO. 6717
STATE OF CALIFORNIA

Figure: 1 - Ground Water Elevation Contour Map
Table: 1 - Purge Data
2 - Hydrocarbon Mass Removal Data
Attachment: A - Blaine Ground Water Monitoring Report and Field Notes

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

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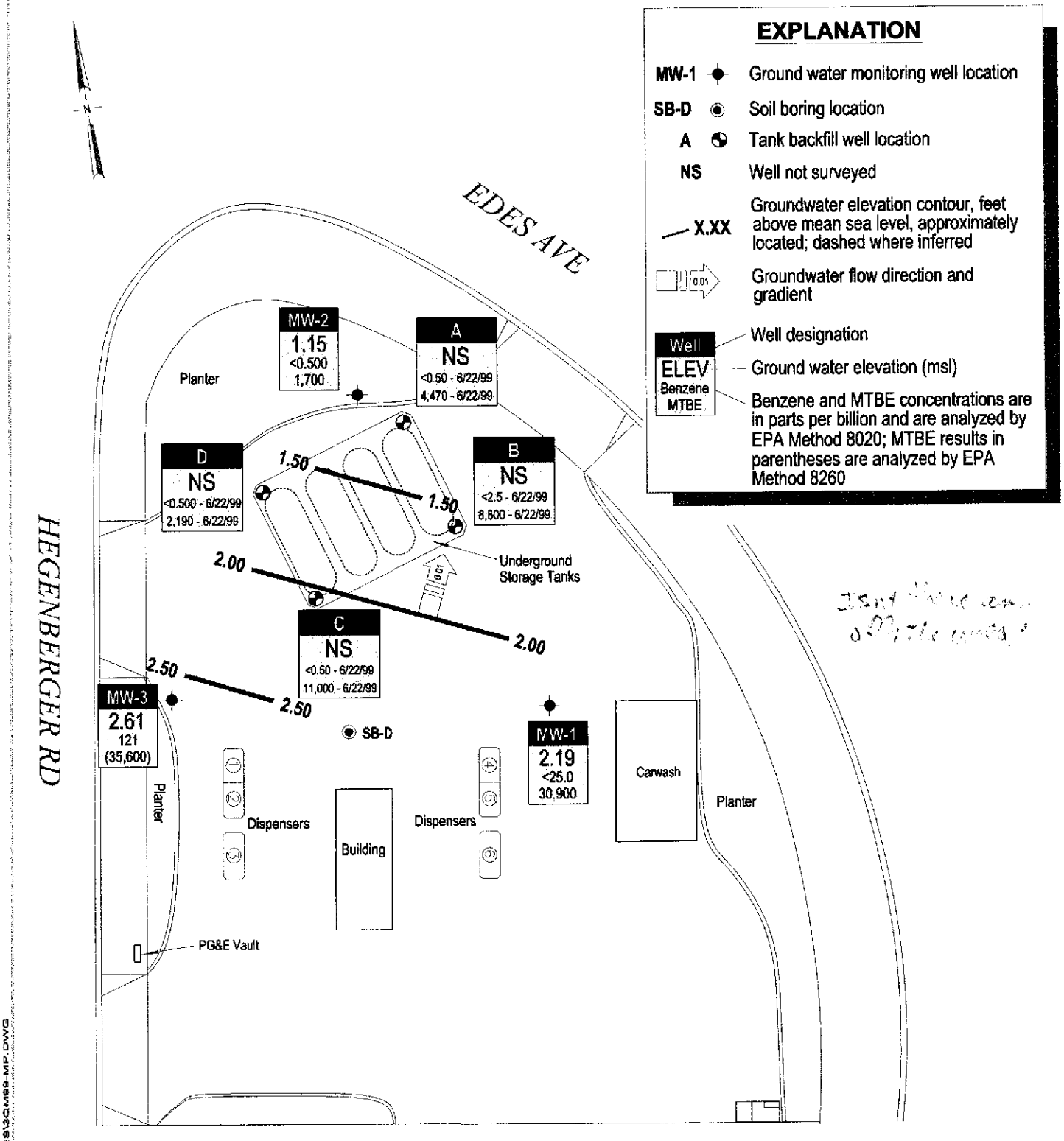

FIGURE 1

Base Map by R.H. Lee & Assoc.

G:\OAK540\FIGURES\3Q99-MP.DWG

Shell-branded Service Station
540 Hegenberger Road
Oakland, California
Incident #98995752

CAMBRIA

Ground Water Elevation Contour Map

September 30, 1999

Table 1. Purge Data - Shell-branded Service Station - Incident #98995752 - 540 Hegenberger Road, Oakland, California

Well ID	Date	Volume (gals)	Total per well (gals)
MW-1	07/29/99	150	100
	08/04/99	150	250
	08/11/99	15	265
	08/20/99	44	309
	08/30/99	218	527
	9/03/99*	125	652
	9/10/99*	75	727
	09/23/99	175	902
	09/29/99	50	952
MW-3	07/29/99	100	100
	08/04/99	100	200
	08/11/99	45	245
	08/20/99	55	300
	08/30/99	77	377
	9/03/99*	50	427
	9/10/99*	40	467
	09/23/99	10	477
	09/29/99	50	527
BW-A	07/29/99	400	100
	08/04/99	2,000	2,100
	08/11/99	2,437	4,537
	08/20/99	1,213	5,750
	08/30/99	2,673	8,423
	9/03/99*	325	8,748
	9/10/99*	425	9,173
	09/23/99	615	9,788
	09/29/99	800	10,588
BW-B	07/29/99	1,000	100
	08/04/99	800	900
	08/11/99	2,213	3,113
	08/20/99	1,213	4,326
	08/30/99	877	5,203
	9/03/99*	325	5,528
	9/10/99*	425	5,953
	09/23/99	750	6,703
	09/29/99	600	7,303
BW-C	07/29/99	300	100
	08/04/99	700	800
	08/11/99	0	800
	08/20/99	1,013	1,813
	08/30/99	375	2,188
	9/03/99*	325	2,513

BW-D ? (over)

Table 1. Purge Data - Shell-branded Service Station - Incident #98995752 - 540 Hegenberger Road, Oakland, California

Well ID	Date	Volume (gals)	Total per well (gals)
	9/10/99*	425	2,938
	09/23/99	750	3,688
	09/29/99	700	4,388
BW-D	07/29/99	1,500	1,500
	08/04/99	250	1,750
	08/11/99	0	1,750
	08/20/99	1,213	2,963
	08/30/99	280	3,243
	9/03/99*	325	3,568
	9/10/99*	425	3,993
	09/23/99	750	4,743
	09/29/99	700	5,443
		Total to date	**30,651**

Abbreviations and Notes:

gals = Gallons
All purging performed by Ecology Control Industries, Inc. of Richmond, California

Table 2: Hydrocarbon Mass Removal Calculations

Shell-branded Service Station, Incident #98995752, 540 Hegenberger Rd. Oakland

Mass Removal Calculations

should be same dates wrong date

Date	Well Number	Volume Groundwater Extracted (gallons)	Sample Date	TPPH (ug/L)	TPPH Removed (pounds)	Benzene (ug/L)	Benzene Removed (pounds)	MTBE (ug/L)	MTBE Removed (pounds)
7/29/99	BW-A	400	6/22/99	318	0.0000	0	0.00000	4,470	0.000
7/29/99	BW-B	1,000	6/22/99	125	0.0000	1	0.00000	8,600	0.000
7/29/99	BW-C	300	6/22/99	25	0.0000	0	0.00000	11,000	0.000
7/29/99	BW-D	1,500	6/22/99	25	0.0000	0	0.00000	2,190	0.000
7/29/99	MW-1	150	6/22/99	20,000	0.0000	100	0.00000	150,000	0.000
7/29/99	MW-3	100	6/22/99	58,000	0.0000	6,600	0.00001	**653,000**	0.001
8/4/99	BW-A	2,000	6/22/99	318	0.0000	0	0.00000	4,470	0.000
8/4/99	BW-B	800	6/22/99	125	0.0000	1	0.00000	8,600	0.000
8/4/99	BW-C	700	6/22/99	25	0.0000	0	0.00000	11,000	0.000
8/4/99	BW-D	250	6/22/99	25	0.0000	0	0.00000	2,190	0.000
8/4/99	MW-1	150	6/22/99	20,000	0.0000	100	0.00000	150,000	0.000
8/4/99	MW-3	100	6/22/99	58,000	0.0000	6,600	0.00001	**653,000**	0.001
8/11/99	BW-A	2,437	6/22/99	318	0.0000	0	0.00000	4,470	0.000
8/11/99	BW-B	2,213	6/22/99	125	0.0000	1	0.00000	8,600	0.000
8/11/99	BW-C	0	6/22/99	25	0.0000	0	0.00000	11,000	0.000
8/11/99	BW-D	0	6/22/99	25	0.0000	0	0.00000	2,190	0.000
8/11/99	MW-1	15	6/22/99	20,000	0.0000	100	0.00000	150,000	0.000
8/11/99	MW-3	45	6/22/99	58,000	0.0000	6,600	0.00000	**653,000**	0.000
8/20/99	BW-A	1,213	6/22/99	318	0.0000	0	0.00000	4,470	0.000
8/20/99	BW-B	1,213	6/22/99	125	0.0000	1	0.00000	8,600	0.000
8/20/99	BW-C	1,013	6/22/99	25	0.0000	0	0.00000	11,000	0.000
8/20/99	BW-D	1,213	6/22/99	25	0.0000	0	0.00000	2,190	0.000
8/20/99	MW-1	44	6/22/99	20,000	0.0000	100	0.00000	150,000	0.000
8/20/99	MW-3	55	6/22/99	58,000	0.0000	6,600	0.00000	**653,000**	0.000
8/30/99	BW-A	2,673	6/22/99	318	0.0000	0	0.00000	4,470	0.000
8/30/99	BW-B	877	6/22/99	125	0.0000	1	0.00000	8,600	0.000
8/30/99	BW-C	375	6/22/99	25	0.0000	0	0.00000	11,000	0.000
8/30/99	BW-D	280	6/22/99	25	0.0000	0	0.00000	2,190	0.000
8/30/99	MW-1	218	6/22/99	20,000	0.0000	100	0.00000	150,000	0.000
8/30/99	MW-3	77	6/22/99	58,000	0.0000	6,600	0.00000	**653,000**	0.000
9/3/99	BW-A	325	6/22/99	318	0.0000	0	0.00000	4,470	0.000
9/3/99*	BW-B	325	6/22/99	125	0.0000	1	0.00000	8,600	0.000
9/3/99*	BW-C	325	6/22/99	25	0.0000	0	0.00000	11,000	0.000
9/3/99*	BW-D	325	6/22/99	25	0.0000	0	0.00000	2,190	0.000
9/3/99*	MW-1	125	6/22/99	20,000	0.0000	100	0.00000	150,000	0.000
9/3/99*	MW-3	50	6/22/99	58,000	0.0000	6,600	0.00000	**653,000**	0.000
9/10/99*	BW-A	425	6/22/99	318	0.0000	0	0.00000	4,470	0.000
9/10/99*	BW-B	425	6/22/99	125	0.0000	1	0.00000	8,600	0.000
9/10/99*	BW-C	425	6/22/99	25	0.0000	0	0.00000	11,000	0.000
9/10/99*	BW-D	425	6/22/99	25	0.0000	0	0.00000	2,190	0.000
9/10/99*	MW-1	75	6/22/99	20,000	0.0000	100	0.00000	150,000	0.000
9/10/99*	MW-3	40	6/22/99	58,000	0.0000	6,600	0.00000	**653,000**	0.000

Date	Well Number	Volume Groundwater Extracted (gallons)
9/23/99	BW-A	615
9/23/99	BW-B	750
9/23/99	BW-C	750
9/23/99	BW-D	750
9/23/99	MW-1	175
9/23/99	MW-3	10
9/29/99	BW-A	800
9/29/99	BW-B	600
9/29/99	BW-C	700
9/29/99	BW-D	700
9/29/99	MW-1	50
9/29/99	MW-3	50
Total Gallons Extracted:		30,651

Sample Date	TPPH (ug/L)	TPPH Removed (pounds)	Benzene (ug/L)	Benzene Removed (pounds)	MTBE (ug/L)	MTBE Removed (pounds)
6/22/99	318	0.0000	0	0.00000	4,470	0.000
6/22/99	125	0.0000	1	0.00000	8,600	0.000
6/22/99	25	0.0000	0	0.00000	11,000	0.000
6/22/99	25	0.0000	0	0.00000	2,190	0.000
6/22/99	20,000	0.0000	100	0.00000	150,000	0.000
6/22/99	58,000	0.0000	6,600	0.00000	**653,000**	0.000
6/22/99	318	0.0000	0	0.00000	4,470	0.000
6/22/99	125	0.0000	1	0.00000	8,600	0.000
6/22/99	25	0.0000	0	0.00000	11,000	0.000
6/22/99	25	0.0000	0	0.00000	2,190	0.000
6/22/99	20,000	0.0000	100	0.00000	150,000	0.000
6/22/99	58,000	0.0000	6,600	0.00000	**653,000**	0.000
Total Pounds Removed:		0.0005		0.00003		0.006

Notes:

* = Ground water extracted per well estimated; subcontractor did not report individual well volumes

1) Mass removal calculations based on quarterly groundwater data.

2) MTBE concentrations based on results by EPA Method 8020, bold results by 8260.

3) Groundwater extracted by vacuum trucks provided by ECI. Water disposed of a Martinez Refinery.

4) Mass removed = Volume extracted (gallons) x Concentration (ug/L) x (1 g/1e9 ug) x (1 pound/453.6 g) x (3.785 L/1 gallon)

ATTACHMENT A

Blaine Ground Water Monitoring Report
and Field Notes

BLAINE
TECH SERVICES INC.

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

October 26, 1999

Karen Petryna
Equiva Services LLC
P.O. Box 6249
Carson, CA 90749-6249

Third Quarter 1999 Groundwater Monitoring at
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Monitoring performed on September 30, 1999

Groundwater Monitoring Report **990930-L-3**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. 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/ek

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

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

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA
WIC #204-5508-5900

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)	DO Reading (ppm)
MW-1 (a)	08/26/1998	2,700	28	55	59	39	33,000	NA	10.54	7.91	2.63	1.8
MW-1 (b)	08/26/1998	<1,000	22	<10	<10	<10	17,000	NA	10.54	7.91	2.63	2.2
MW-1	12/28/1998	<5,000	<50.0	<50.0	<50.0	<50.0	153,000	33,000	10.54	8.75	1.79	1.9
MW-1	03/29/1999	<2,000	<20.0	<20.0	<20.0	<20.0	693,000	NA	10.54	8.32	2.22	2.0
MW-1	06/22/1999	20,000	<200	<200	<200	<200	150,000	NA	10.54	9.05	1.49	1.7
MW-1	09/30/1999	<2,500	<25.0	<25.0	<25.0	<25.0	30,900	NA	10.54	8.35	2.19	2.6
MW-2 (a)	08/26/1998	<250	3.2	<2.5	<2.5	<2.5	4,000	NA	9.21	7.18	2.03	2.4
MW-2 (b)	08/26/1998	<250	3.1	<2.5	<2.5	<2.5	4,800	NA	9.21	7.18	2.03	2.7
MW-2 (D)(b)	08/26/1998	<250	4.8	<2.5	<2.5	6.0	3,300	NA	9.21	7.18	2.03	2.7
MW-2	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	28.8	NA	9.21	7.34	1.87	2.1
MW-2	03/29/1999	235	<0.500	<0.500	<0.500	3.4	101	NA	9.21	6.85	2.36	2.0
MW-2	06/22/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	9.21	7.10	2.11	1.9
MW-2	09/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	17.00	NA	9.21	8.06	1.15	1.0
MW-3 (a)	08/26/1998	2,300	180	330	<0.50	420	44,000	NA	9.45	6.52	2.93	1.8
MW-3 (b)	08/26/1998	<50	<0.50	<0.50	<0.50	<0.50	52,000	75,000	9.45	6.52	2.93	2.3
MW-3	12/28/1998	<5,00	139	<50.0	<50.0	<50.0	15,100	NA	9.45	6.73	2.72	1.7
MW-3	03/29/1999	52,500	5,500	6,900	1,360	6,250	508,000	630,000 (c)	9.45	6.21	3.24	2.1
MW-3	06/22/1999	58,000	6,600	9,850	1,640	6,950	677,000	653,000	9.45	7.00	2.45	1.3
MW-3	09/30/1999	4,360	121	122	36.1	647	33,700	35,600	9.45	6.84	2.61	2.6
A	06/22/1999	318	<0.50	<0.50	0.590	1.48	4,470	NA	NA	4.71	NA	1.1
B	06/22/1999	<250	<2.5	<2.5	<2.5	<2.5	8,600	NA	NA	5.90	NA	1.2

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA
WIC #204-5508-5900

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)	DO Reading (ppm)
C	06/22/1999	<50	<0.50	<0.50	<0.50	0.98	11,000	NA	NA	5.91	NA	1.6
D	06/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2,190	NA	NA	4.78	NA	1.4

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
TOC = Top of Casing Elevation
GW = Groundwater
DO = Dissolved Oxygen
ppm = parts per million
ug/L = parts per billion
msl = Mean sea level
ft = Feet
<n = Below detection limit
D = Duplicate sample
NA = Not applicable

Notes:
a = pre-purge
b = post purge
c = Lab confirmed MTBE by mistake. MTBE value at MW-1 should have been confirmed instead.

Sequoia Analytical

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

October 18, 1999

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

RE: Equiva(2)/L910036

Dear Leah Davis:

Enclosed are the results of analyses for sample(s) received by the laboratory on October 1, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson
Project Manager

CA ELAP Certificate Number I-2360

Sequoia Analytical

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

Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	540 Hegenberger Road, Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

ANALYTICAL REPORT FOR L910036

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	L910036-01	Water	9/30/99
MW-2	L910036-02	Water	9/30/99
MW-3	L910036-03	Water	9/30/99

Sequoia Analytical

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

Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	540 Hegenberger Road, Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

Sample Description: **MW-1**
Laboratory Sample Number: **L910036-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9100061	10/13/99	10/14/99		2500	ND	ug/l	
Benzene	"	"	"		25.0	ND	"	
Toluene	"	"	"		25.0	ND	"	
Ethylbenzene	"	"	"		25.0	ND	"	
Xylenes (total)	"	"	"		25.0	ND	"	
Methyl tert-butyl ether	9100072	10/14/99	10/14/99		1000	**30900**	"	
Surrogate: a,a,a-Trifluorotoluene	9100061	10/13/99	10/14/99	*70.0-130*		*83.1*	%	

Sequoia Analytical

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

Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	540 Hegenberger Road, Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

Sample Description: **MW-2**
Laboratory Sample Number: **L910036-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9100073	10/14/99	10/14/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	9100072	"	"		50.0	**1700**	"	
Surrogate: a,a,a-Trifluorotoluene	9100073	"	"	*70.0-130*		*96.1*	%	

Sequoia Analytical

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

Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	540 Hegenberger Road, Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

Sample Description: **MW-3**
Laboratory Sample Number: **L910036-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - San Carlos					
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9100061	10/13/99	10/14/99		2500	**4360**	ug/l	1
Benzene	"	"	"		25.0	**121**	"	
Toluene	"	"	"		25.0	**122**	"	
Ethylbenzene	"	"	"		25.0	**36.1**	"	
Xylenes (total)	"	"	"		25.0	**647**	"	
Methyl tert-butyl ether	9100072	10/14/99	"		2000	**33700**	"	
Surrogate: a,a,a-Trifluorotoluene	9100061	10/13/99	"	*70.0-130*		*85.0*	%	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9100049	10/15/99	10/15/99		71.4	**35600**	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*70.0-121*		*103*	%	

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
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Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	540 Hegenberger Road, Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9100061	**Date Prepared: 10/13/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9100061-BLK1**									
Purgeable Hydrocarbons as Gasoline	10/13/99			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.55*	"	*70.0-130*	*85.5*			
LCS	**9100061-BS1**									
Benzene	10/13/99	10.0		7.74	ug/l	70.0-130	77.4			
Toluene	"	10.0		7.69	"	70.0-130	76.9			
Ethylbenzene	"	10.0		7.75	"	70.0-130	77.5			
Xylenes (total)	"	30.0		23.3	"	70.0-130	77.7			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*7.73*	"	*70.0-130*	*77.3*			
LCS	**9100061-BS2**									
Purgeable Hydrocarbons as Gasoline	10/13/99	250		248	ug/l	70.0-130	99.2			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*7.89*	"	*70.0-130*	*78.9*			
Matrix Spike	**9100061-MS1**		**L910030-01**							
Purgeable Hydrocarbons as Gasoline	10/13/99	250	ND	253	ug/l	60.0-140	**101**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.30*	"	*70.0-130*	*93.0*			
Matrix Spike Dup	**9100061-MSD1**		**L910030-01**							
Purgeable Hydrocarbons as Gasoline	10/13/99	250	ND	253	ug/l	60.0-140	**101**	25.0	**0**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.09*	"	*70.0-130*	*90.9*			
Batch: 9100073	**Date Prepared: 10/14/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9100073-BLK1**									
Purgeable Hydrocarbons as Gasoline	10/14/99			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.74*	"	*70.0-130*	*87.4*			
LCS	**9100073-BS1**									
Benzene	10/14/99	10.0		8.00	ug/l	70.0-130	80.0			
Toluene	"	10.0		7.51	"	70.0-130	75.1			

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Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	540 Hegenberger Road, Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**9100073-BS1**									
Ethylbenzene	10/14/99	10.0		7.67	ug/l	70.0-130	76.7			
Xylenes (total)	"	30.0		22.5	"	70.0-130	75.0			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.23*	"	*70.0-130*	*82.3*			
LCS	**9100073-BS2**									
Purgeable Hydrocarbons as Gasoline	10/14/99	250		245	ug/l	70.0-130	98.0			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.40*	"	*70.0-130*	*84.0*			
Matrix Spike	**9100073-MS1**		**L910033-03**							
Benzene	10/15/99	10.0	ND	7.83	ug/l	60.0-140	**78.3**			
Toluene	"	10.0	ND	7.51	"	60.0-140	**75.1**			
Ethylbenzene	"	10.0	ND	7.56	"	60.0-140	**75.6**			
Xylenes (total)	"	30.0	ND	22.1	"	60.0-140	**73.7**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.35*	"	*70.0-130*	*83.5*			
Matrix Spike Dup	**9100073-MSD1**		**L910033-03**							
Benzene	10/15/99	10.0	ND	7.14	ug/l	60.0-140	**71.4**	25.0	**9.22**	
Toluene	"	10.0	ND	6.84	"	60.0-140	**68.4**	25.0	**9.34**	
Ethylbenzene	"	10.0	ND	6.97	"	60.0-140	**69.7**	25.0	**8.12**	
Xylenes (total)	"	30.0	ND	20.1	"	60.0-140	**67.0**	25.0	**9.52**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*7.72*	"	*70.0-130*	*77.2*			

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Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	540 Hegenberger Road, Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9100049	**Date Prepared: 10/11/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9100049-BLK1**									
Methyl tert-butyl ether	10/11/99			**ND**	ug/l	**0.500**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*47.2*	"	*76.0-114*	*94.4*			
Blank	**9100049-BLK2**									
Methyl tert-butyl ether	10/15/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*48.0*	"	*76.0-114*	*96.0*			
LCS	**9100049-BS1**									
Methyl tert-butyl ether	10/11/99	50.0		38.6	ug/l	70.0-130	77.2			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*49.5*	"	*76.0-114*	*99.0*			
LCS	**9100049-BS2**									
Methyl tert-butyl ether	10/15/99	50.0		43.9	ug/l	70.0-130	87.8			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*47.8*	"	*76.0-114*	*95.6*			
Matrix Spike	**9100049-MS1**		**L910072-08**							
Methyl tert-butyl ether	10/11/99	50.0	35.0	67.5	ug/l	60.0-140	**65.0**			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*48.4*	"	*76.0-114*	*96.8*			
Matrix Spike Dup	**9100049-MSD1**		**L910072-08**							
Methyl tert-butyl ether	10/11/99	50.0	35.0	68.6	ug/l	60.0-140	**67.2**	25.0	**3.33**	
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*48.1*	"	*76.0-114*	*96.2*			

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Blaine Tech Services	Project:	Equiva(2)	Sampled:	9/30/99
1680 Rogers Avenue	Project Number:	540 Hegenberger Road, Oakland	Received:	10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported:	10/18/99

Notes and Definitions

#	Note
1	Chromatogram Pattern: Gasoline C6-C12
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

CHAIN OF CUSTODY

CLIENT: Equiva - Karen Petryna

SITE: 540 Hegenberger Road
Oakland, CA

LAB: Sequoia

DHS #

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

☐ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION

L910036

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 98995752

Send report to Blaine Tech Services

Attn: Ann Pember

SAMPLE I.D.			MATRIX S = SOIL W = H2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: 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 #
01	MW-1	09/30/99 1645	W	3	VOA 40ml		X	X							Confirm Highest MTBE by 8260			10 50
02	MW-2	1625	W	3			X	X										
03	MW-3	1705	W	3			X	X										

SC

SAMPLING COMPLETED	DATE	TIME
	9-30-99	1705

SAMPLING PERFORMED BY: Lad / Josh

RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	10/1/99	9:20		10/1/99	9:10
	10/1/99			10/1/99	10:57
TJT (MH)	10-5-99	07:50		10/5/99	10 50

SHIPPED VIA

DATE SENT	TIME SENT	COOLER #

WELL GAUGING DATA

Project # 990930-L3 Date 09-30-99 Client Shell

Site ~~5~~ ~~204-5508-55100~~ 540 Hegenberger Rd 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	
MW-1	2					8.35	24.43	TOC	
MW-2	2					8.06	19.30	"	
MW-3	2					6.84	19.55	"	

EQUIVA WELL MONITORING DATA SHEET

Project #: 990930-L3	Job # 204-5508-5900
Sampler: Lad	Date: 09-30-99
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 24.43	Depth to Water: 8.35
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: (Bailer) Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: (Bailer) Extraction Port / Other: ___

2.6 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 7.8 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1631	68.7	7.0	21330.	>200.	3.	
1637	68.5	7.1	19680.	>200.	6.	
1643	69.6	7.1	18040.	>200.	8.	

Did well dewater? Yes (No) Gallons actually evacuated: 8

Sampling Time: 1645 Sampling Date: 09-30-99

Sample I.D.: MW-1 Laboratory: (Sequoia) BC Other ___

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

D.O. (if req'd):	~~2.6~~	Pre-purge:	2.6 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):		Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 990930-L3	Job # 204-5508-5900
Sampler: Lad	Date: 09-30-99
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.30	Depth to Water: 8.06
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: (Bailer) Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: (Bailer) Extraction Port / Other: ___

1.8 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = ___ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1615	74.9	7.2	1096.	>200.	2	
1618	72.2	7.2	1160.	>200.	4	
1622	71.6	7.2	1323	>200.	6	

Did well dewater? Yes (No) Gallons actually evacuated: 6.

Sampling Time: 1625 Sampling Date: 09-30-99

Sample I.D.: ~~0000~~ MW-2 Laboratory: (Sequoia) BC Other ___

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

D.O. (if req'd):	Pre-purge:	1.0 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

Project #: 990930-L3	WIC #: 204-5508-5900
Sampler: Lad	Date: 09-30-99
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.55	Depth to Water: 6.84
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: (Bailer) Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: (Bailer) Extraction Port / Other: ___

00 FEB 17 PM 4:17 ENVIRONMENTAL PROTECTION

2.0 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 6.0 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1653	70.8	7.2	14300.	>200.	2.	ODOR
1656	70.9	7.3	12960.	>200.	4	
1700	69.9	7.4	13580.	>200.	6.	

Did well dewater? Yes (No)	Gallons actually evacuated: 6.
Sampling Time: 1705	Sampling Date: 09-30-99
Sample I.D.: MW-3	Laboratory: (Sequoia) Crosby
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): ~~0.6~~ Pre-purge: 0.6 mg/L	Post-purge: mg/L