

September 16, 1999

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

Re: **Second Quarter 1999 Monitoring Report**
Shell-branded Service Station
610 Market Street
Oakland, California
Incident #99895750
Cambria Project #241-0594-002

ENVIRONMENTAL
PROTECTION
99 SEP 20 PM 1:06



Dear Mr. Seto:

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

SECOND QUARTER 1999 ACTIVITIES

Ground Water Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled the site wells. 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 supporting field documents, is included as Attachment A.

ANTICIPATED THIRD QUARTER 1999 ACTIVITIES

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

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

**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 Brian Busch at (510) 420-3312 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc



Brian Busch
Project Environmental Scientist

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



Figure: 1 - Ground Water Elevation Contour Map

Attachment: A - Blaine Ground Water Monitoring Report

cc: Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, California 90749-6249

g:\oak610\qm\2q99qm.doc

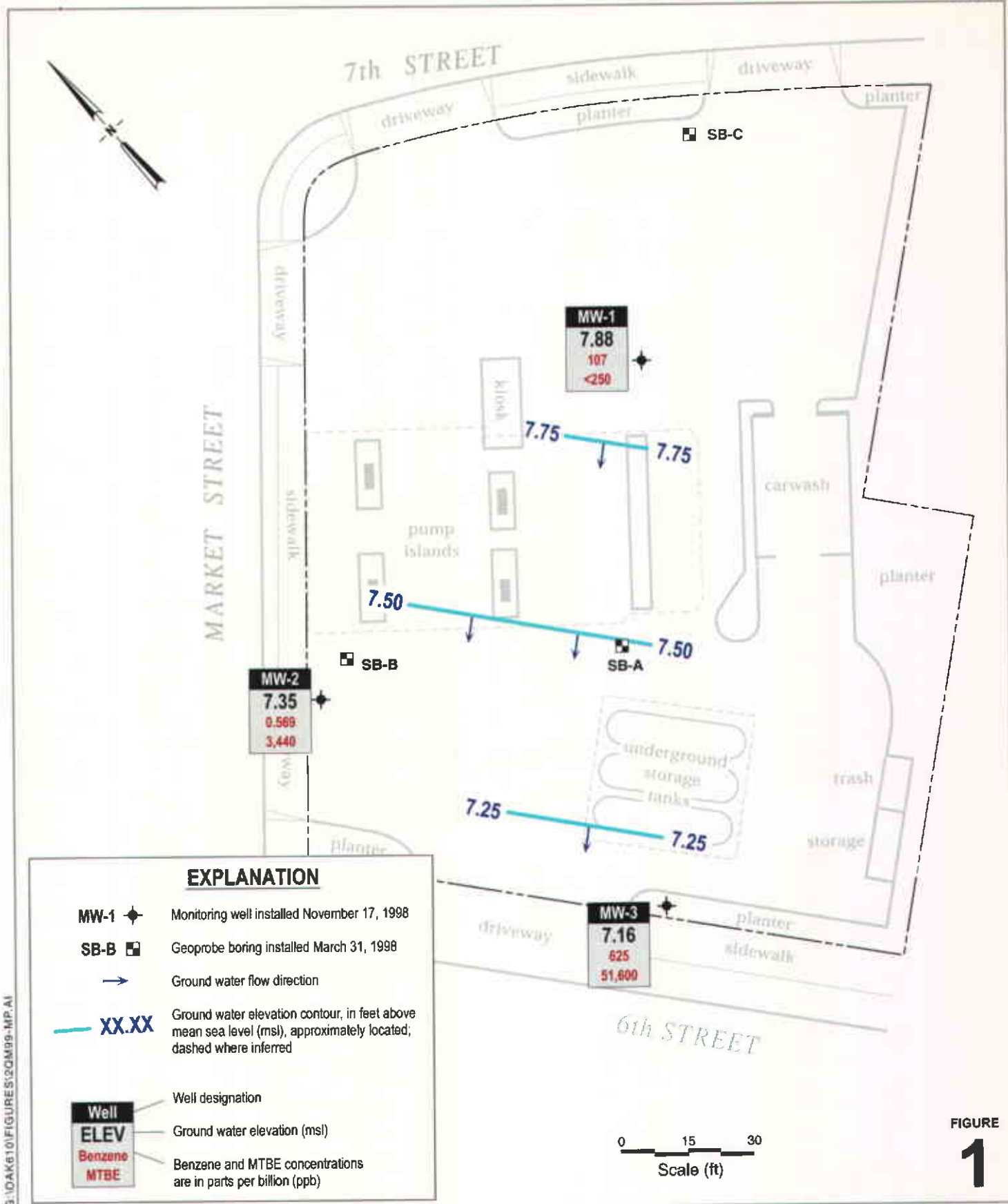


FIGURE 1

Shell-branded Service Station

610 Market Street
 Oakland, California
 Incident #98995750



CAMBRIA

Ground Water Elevation Contour Map

June 16, 1999

C A M B R I A



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

July 29, 1999

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

Second Quarter 1999 Groundwater Monitoring at
Shell-branded Service Station
610 Market Street
Oakland, CA

Monitoring performed on June 16, 1999

Groundwater Monitoring Report **990616-S-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, appropriate 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.

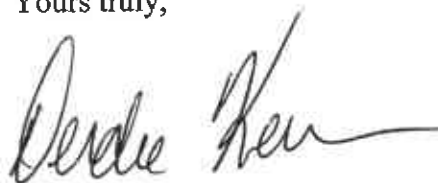
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

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,

A handwritten signature in black ink, appearing to read "Deidre Kerwin", with a long horizontal flourish extending to the right.

Deidre Kerwin
Operations Manager

DK/mt

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 | 2200 | 20 | <10 | 110 | 420 | <50 | NA | 21.70 | 13.71 | 7.99 |
| MW-1 | 03/09/1999 | 4320 | 25.8 | <10.0 | 338 | 474 | <100 | NA | 21.70 | 13.03 | 8.67 |
| MW-1 | 06/16/1999 | 6150 | 107 | 84.0 | 615 | 1050 | <250 | NA | 21.70 | 13.82 | 7.88 |
| MW-2 | 12/17/1998 | <5000 | <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-3 | 12/17/1998 | 30,000 | 890 | 110 | 2100 | 4300 | 42,000 | 43,000 | 19.05 | 11.65 | 7.40 |
| MW-3 | 03/09/1999 | 22,700 | 536 | <200 | 1030 | 1510 | 35,400 | 38,500 | 19.05 | 11.03 | 8.02 |
| MW-3 | 06/16/1999 | 19,300 | 625 | 129 | 805 | 1210 | 42,400 | 51,600 | 19.05 | 11.89 | 7.16 |

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

Notes:

Wells MW-1, MW-2, and MW-3 surveyed December 9, 1998 by Virgil Chavez Land Surveying of Vallejo, California.



Sequoia Analytical

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

July 8, 1999

Ann Pember
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

RE: Shell(2)/L906278

Dear Ann Pember:

Enclosed are the results of analyses for sample(s) received by the laboratory on June 17, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tim Costello
Lab Director

CA ELAP Certificate Number I-2360





| | | |
|--|--|---|
| Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 | Project: Shell(2) Project Number: Equiva 610 Market Street Project Manager: Ann Pember | Sampled: 6/16/99 Received: 6/17/99 Reported: 7/8/99 |
|--|--|---|

ANALYTICAL REPORT FOR L906278

| Sample Description | Laboratory Sample Number | Sample Matrix | Date Sampled |
|--------------------|--------------------------|---------------|--------------|
| MW-1 | L906278-01 | Water | 6/16/99 |
| MW-2 | L906278-02 | Water | 6/16/99 |
| MW-3 | L906278-03 | Water | 6/16/99 |





| | | |
|--|--|---|
| Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 | Project: Shell(2) Project Number: Equiva 610 Market Street Project Manager: Ann Pember | Sampled: 6/16/99 Received: 6/17/99 Reported: 7/8/99 |
|--|--|---|

Sample Description: MW-1
Laboratory Sample Number: L906278-01

| 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 | 9060135 | 6/24/99 | 6/24/99 | | 2500 | 6150 | ug/l | 3 |
| Benzene | " | " | " | | 25.0 | 107 | " | |
| Toluene | " | " | " | | 25.0 | 84.0 | " | |
| Ethylbenzene | " | " | " | | 25.0 | 615 | " | |
| Xylenes (total) | " | " | " | | 25.0 | 1050 | " | |
| Methyl tert-butyl ether | " | " | " | | 250 | ND | " | |
| Surrogate: a,a,a-Trifluorotoluene | " | " | " | 70.0-130 | | 97.1 | % | |





| | | |
|--|--|---|
| Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 | Project: Shell(2) Project Number: Equiva 610 Market Street Project Manager: Ann Pember | Sampled: 6/16/99 Received: 6/17/99 Reported: 7/8/99 |
|--|--|---|

Sample Description: MW-2
Laboratory Sample Number: L906278-02

| 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 | 9060135 | 6/24/99 | 6/24/99 | | 50.0 | ND | ug/l | |
| Benzene | " | " | " | | 0.500 | 0.569 | " | |
| Toluene | " | " | " | | 0.500 | ND | " | |
| Ethylbenzene | " | " | " | | 0.500 | ND | " | |
| Xylenes (total) | " | " | " | | 0.500 | ND | " | |
| Methyl tert-butyl ether | 9060141 | 6/25/99 | 6/25/99 | | 200 | 3440 | " | |
| Surrogate: a,a,a-Trifluorotoluene | 9060135 | 6/24/99 | 6/24/99 | 70.0-130 | | 83.3 | % | |





| | | |
|--|--|---|
| Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 | Project: Shell(2) Project Number: Equiva 610 Market Street Project Manager: Ann Pember | Sampled: 6/16/99 Received: 6/17/99 Reported: 7/8/99 |
|--|--|---|

Sample Description: MW-3
Laboratory Sample Number: L906278-03

| 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 | 9060140 | 6/25/99 | 6/25/99 | | 2500 | 19300 | ug/l | |
| Benzene | " | " | " | | 25.0 | 625 | " | |
| Toluene | " | " | " | | 25.0 | 129 | " | |
| Ethylbenzene | " | " | " | | 25.0 | 805 | " | |
| Xylenes (total) | " | " | " | | 25.0 | 1210 | " | |
| Methyl tert-butyl ether | " | " | " | | 2000 | 42400 | " | |
| Surrogate: <i>a,a,a-Trifluorotoluene</i> | " | " | " | 70.0-130 | | 106 | % | |

MTBE by EPA Method 8260A

| | | | | | | | | |
|---|---------|--------|--------|----------|------|-------|------|---|
| Methyl tert-butyl ether | 9070007 | 7/6/99 | 7/6/99 | | 2000 | 51600 | ug/l | 1 |
| Surrogate: <i>1,2-Dichloroethane-d4</i> | " | " | " | 76.0-114 | | 102 | % | |





| | | |
|--|--|---|
| Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 | Project: Shell(2) Project Number: Equiva 610 Market Street Project Manager: Ann Pember | Sampled: 6/16/99 Received: 6/17/99 Reported: 7/8/99 |
|--|--|---|

**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: 9060135 | | | Date Prepared: 6/24/99 | | | Extraction Method: EPA 5030B [P/T] | | | | |
| Blank | | | 9060135-BLK1 | | | | | | | |
| Purgeable Hydrocarbons as Gasoline | 6/24/99 | | | 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 | | 9.43 | " | 70.0-130 | 94.3 | | | |
| LCS | | | 9060135-BS1 | | | | | | | |
| Purgeable Hydrocarbons as Gasoline | 6/24/99 | 250 | | 258 | ug/l | 70.0-130 | 103 | | | |
| Surrogate: a,a,a-Trifluorotoluene | " | 10.0 | | 14.8 | " | 70.0-130 | 148 | | | 2 |
| Matrix Spike | | | 9060135-MS1 | | | | | | | |
| Purgeable Hydrocarbons as Gasoline | 6/24/99 | 250 | | 229 | ug/l | 60.0-140 | 91.6 | | | |
| Surrogate: a,a,a-Trifluorotoluene | " | 10.0 | | 15.9 | " | 70.0-130 | 159 | | | 2 |
| Matrix Spike Dup | | | 9060135-MSD1 | | | | | | | |
| Purgeable Hydrocarbons as Gasoline | 6/24/99 | 250 | | 241 | ug/l | 60.0-140 | 96.4 | 25.0 | 5.11 | |
| Surrogate: a,a,a-Trifluorotoluene | " | 10.0 | | 12.6 | " | 70.0-130 | 126 | | | 2 |
| Batch: 9060140 | | | Date Prepared: 6/25/99 | | | Extraction Method: EPA 5030B [P/T] | | | | |
| Blank | | | 9060140-BLK1 | | | | | | | |
| Purgeable Hydrocarbons as Gasoline | 6/25/99 | | | 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 | | 10.6 | " | 70.0-130 | 106 | | | |





| | | |
|--|--|---|
| Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 | Project: Shell(2) Project Number: Equiva 610 Market Street Project Manager: Ann Pember | Sampled: 6/16/99 Received: 6/17/99 Reported: 7/8/99 |
|--|--|---|

**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: 9070007 | | Date Prepared: 7/2/99 | | Extraction Method: EPA 5030B [P/T] | | | | | | |
| Blank | | 9070007-BLK1 | | | | | | | | |
| Methyl tert-butyl ether | 7/2/99 | | | ND | ug/l | 2.00 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | " | 50.0 | | 52.4 | " | 76.0-114 | 105 | | | |
| Blank | | 9070007-BLK2 | | | | | | | | |
| Methyl tert-butyl ether | 7/6/99 | | | ND | ug/l | 2.00 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | " | 50.0 | | 53.1 | " | 76.0-114 | 106 | | | |
| Blank | | 9070007-BLK3 | | | | | | | | |
| Methyl tert-butyl ether | 7/7/99 | | | ND | ug/l | 0.500 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | " | 50.0 | | 53.1 | " | 76.0-114 | 106 | | | |
| LCS | | 9070007-BS1 | | | | | | | | |
| Methyl tert-butyl ether | 7/2/99 | 50.0 | | 49.7 | ug/l | 70.0-130 | 99.4 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | " | 50.0 | | 51.0 | " | 76.0-114 | 102 | | | |
| LCS | | 9070007-BS2 | | | | | | | | |
| Methyl tert-butyl ether | 7/6/99 | 50.0 | | 53.7 | ug/l | 70.0-130 | 107 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | " | 50.0 | | 54.5 | " | 76.0-114 | 109 | | | |
| LCS | | 9070007-BS3 | | | | | | | | |
| Methyl tert-butyl ether | 7/7/99 | 50.0 | | 54.7 | ug/l | 70.0-130 | 109 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | " | 50.0 | | 51.9 | " | 76.0-114 | 104 | | | |
| Matrix Spike | | 9070007-MS1 | | L907011-04 | | | | | | |
| Methyl tert-butyl ether | 7/2/99 | 50.0 | 127 | 166 | ug/l | 60.0-140 | 78.0 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | " | 50.0 | | 52.3 | " | 76.0-114 | 105 | | | |
| Matrix Spike Dup | | 9070007-MSD1 | | L907011-04 | | | | | | |
| Methyl tert-butyl ether | 7/2/99 | 50.0 | 127 | 171 | ug/l | 60.0-140 | 88.0 | 25.0 | 12.0 | |
| Surrogate: 1,2-Dichloroethane-d4 | " | 50.0 | | 52.0 | " | 76.0-114 | 104 | | | |





| | | |
|--|--|---|
| Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 | Project: Shell(2) Project Number: Equiva 610 Market Street Project Manager: Ann Pember | Sampled: 6/16/99 Received: 6/17/99 Reported: 7/8/99 |
|--|--|---|

Notes and Definitions

| # | Note |
|---|------|
|---|------|

- 1 MTBE was confirmed pass hold-time.
- 2 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already present in the sample.
- 3 Chromatogram pattern: 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 **9907616-52**

CLIENT Equiva - Karen Petryna

SITE 610 Market Street
Oakland, CA

| SAMPLE I.D. | DATE | TIME | MATRIX | CONTAINERS |
|-------------|---------|-------|-----------------|------------|
| | | | S-SOIL W-H2O | TOTAL |
| MW-1 | 6/16/99 | 15:53 | | 3 |
| MW-2 | | 15:30 | | 3 |
| MW-3 | | 16:19 | | 3 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

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 |
| X | XX | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

LAB _____ DHS # _____

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

EPA RWQCB REGION _____

LIA

OTHER

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 95995750

Send report to Blaine Tech Services

Attn: Ann Pember

L906278

| ADD'L INFORMATION | STATUS | CONDITION | LAB SAMPLE # |
|-------------------|--------|-----------|--------------|
| Confirm Hydro | | | 01 |
| MTBE Hit | | | 02 |
| with EPA | | | 03 |
| 8260 | | | |
| Revised COC | | 6/21/99 | (AP) |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | | | | | |
|--------------------|-----------|-----------|-----------------------|------------------------------|-------|
| SAMPLING COMPLETED | DATE | TIME | SAMPLING PERFORMED BY | RESULTS NEEDED NO LATER THAN | |
| | 6/16/99 | 18:15 | | | |
| RELEASED BY | DATE | TIME | RECEIVED BY | DATE | TIME |
| Kevin Sullivan | 6/17/99 | 19:58 | [Signature] | 6/22/99 | 16:00 |
| RELEASED BY | DATE | TIME | RECEIVED BY | DATE | TIME |
| | | | [Signature] | 6/23/99 | 1600 |
| RELEASED BY | DATE | TIME | RECEIVED BY | DATE | TIME |
| | | | | | |
| SHIPPED VIA | DATE SENT | TIME SENT | COOLER # | | |
| | | | | | |

JUN - 21 99 MON 08:17
BLAINE TECH SERVICES, INC
TEL: 408 573 7771
P. 002

EQUIVA WELL MONITORING DATA SHEET

| | |
|---------------------------------|--|
| Project #: <u>990616-S2</u> | Job # <u>204-SS08-5702</u> |
| Sampler: <u>KPS</u> | Date: <u>6/16/99</u> |
| Well I.D.: <u>MW-1</u> | Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u> |
| Total Well Depth: <u>24.56</u> | Depth to Water: <u>13.82</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> 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 Sampling Method: Bailer
Middleburg Extraction Port
Electric Submersible Other: _____
Extraction Pump

Other: _____

| | | | | |
|-----------------------|---|-------------------|---|-------------------|
| <u>6.9</u> | x | <u>3</u> | = | <u>20.7</u> Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|--------------|-------------|------------|------------|-----------|---------------|--------------|
| <u>15:46</u> | <u>71.0</u> | <u>8.0</u> | <u>900</u> | <u>27</u> | <u>7</u> | |
| <u>15:44</u> | <u>72.2</u> | <u>7.9</u> | <u>850</u> | <u>73</u> | <u>14</u> | <u>odor</u> |
| <u>15:48</u> | <u>72.8</u> | <u>7.8</u> | <u>850</u> | <u>69</u> | <u>21</u> | <u>odor</u> |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: 21

Sampling Time: 15:53 Sampling Date: 6/16/99

Sample I.D.: MW-1 Laboratory: Sequoia BC Other _____

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

| | |
|--------------------------|-----------------------------------|
| Project #: 990616-52 | Job #: 204-5508-5702 |
| Sampler: KPS | Date: 6/16/99 |
| Well I.D.: MW-2 | Well Diameter: 2 3 ④ 6 8 |
| Total Well Depth: 19.55 | Depth to Water: 12.26 |
| 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 Sampling Method: Bailer
Middleburg Extraction Port
Electric Submersible Other: _____
 Extraction Pump

Other: _____

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| 4.7 | x | 3 | = | 14.1 | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|-------|-----------|-----|-------|-----------|---------------|--------------|
| 15:15 | 75.4 | 8.2 | 400 | 12 | 5 | |
| 15:19 | 70.0 | 8.5 | 900 | 84 | 10 | |
| 15:23 | 72.8 | 8.2 | 1000 | 95 | 15 | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: 15

Sampling Time: 15:30 Sampling Date:

Sample I.D.: MW-2 Laboratory: Sequoia BC Other _____

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

| | |
|---------------------------------|--------------------------------------|
| Project #: 990616-SZ | Job # 204-SS08-5702 |
| Sampler: KPS | Date: 6/16/99 |
| Well I.D.: MW-3 | Well Diameter: 2 3 4 6 8 <u> </u> |
| Total Well Depth: 19.45 | Depth to Water: 11.89 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> 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 Sampling Method: Bailer
 Middleburg Extraction Port
Electric Submersible Other: _____
 Extraction Pump

Other: _____

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| 4.9 | x | 3 | = | 14.7 | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|-------|-----------|-----|-------|-----------|---------------|--------------|
| 16:07 | 70.6 | 8.5 | 800 | 134 | 5 | Strong odor |
| 16:10 | 73.4 | 8.2 | 600 | 124 | 10 | Strong Odor |
| 16:14 | 73.5 | 8.6 | 600 | 120 | 15 | Strong odor |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: 15

Sampling Time: 16:19 Sampling Date: 6/16/99

Sample I.D.: MW-3 Laboratory: Sequoia BC Other _____

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 |

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) |
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|

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.