

**RECEIVED**

By dehloptoxic at 8:11 am, Sep 21, 2006



76 Broadway  
Sacramento, California 95818

September 7, 2006

Mr. Jerry Wickham  
Alameda County Health Agency  
1131 Harbor Bay Parkway  
Alameda, California 94502

Re: **Report Transmittal  
Soil Boring Assessment  
76 Service Station #8034  
4700 First Street  
Livermore, CA**

Dear Mr. Wickham:

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please contact

Shelby S. Lathrop (Contractor)  
ConocoPhillips  
Risk Management & Remediation  
76 Broadway  
Sacramento, CA 95818  
Phone: 916-558-7609  
Fax: 916-558-7639

Sincerely,

A handwritten signature in black ink that reads "Thomas H. Kosel".

Thomas Kosel  
Risk Management & Remediation

Attachment



*Solving environment-related business problems worldwide*

[www.deltaenv.com](http://www.deltaenv.com)

3164 Gold Camp Drive • Suite 200  
Rancho Cordova, California 95670 USA

916.638.2085 800.477.7411  
Fax 916.638.8385

September 8, 2006

Mr. Jerry Wickham  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Re: Soil Boring Assessment Report**  
Delta Project No. C106034041  
76 Service Station No. 6034  
4700 First Street  
Livermore, California

Dear Mr. Wickham:

This report has been prepared by Delta Environmental Consultants, Inc. (Delta) on behalf of ConocoPhillips Company (COP) to present the results of the advancement of one soil boring for the above referenced site. Figure 1 shows the location and vicinity of the site. The purpose of drilling the soil boring was to collect and analyze soil samples and discrete grab groundwater samples to delineate the vertical and downgradient extent of contamination at the site. Groundwater samples from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7 were collected in conjunction with the soil and depth-discrete grab groundwater sampling.

Figure 2 shows site facility details and the location of the soil boring.

## **SITE DESCRIPTION**

The subject site is an active gasoline station. The site is located adjacent to and northeast of an intermittent drainage stream. Two other gasoline stations are located in the vicinity of the site.

Current site facilities consist of two dispenser islands, a canopy and a station building, two 12,000-gallon gasoline underground storage tanks (UST)s, one waste-oil UST, and three hoists.

A member of:



## **SITE BACKGROUND AND ACTIVITY**

Two fuel USTs, one waste oil UST, and the product piping were removed from the site in August 1989. Petroleum hydrocarbon concentrations in soil samples collected beneath the fuel USTs were non-detect to moderate. The fuel UST pit was subsequently over-excavated to a depth of 17.5 feet below ground surface (bgs), where groundwater was encountered, to remove hydrocarbon-impacted soil. Petroleum hydrocarbon concentrations in soil samples collected from beneath the waste oil UST were non-detect.

In October 1989, four monitoring wells (MW-1 through MW-4) were installed to depths ranging from 26 to 29 feet bgs. Groundwater was encountered at depths ranging from 14.5 to 17.5 feet bgs.

In April 1991, three additional monitor wells (MW-5 through MW-7) were installed to average depths of 25 feet bgs. Groundwater was initially encountered at approximately 16 feet bgs.

In August 1995, an oxygen-releasing compound (magnesium peroxide) was placed in well MW-2 to enhance biodegradation of petroleum hydrocarbons. Also, a non-attainment zone status was sought from the regulatory agencies.

On October 30, 2003, five soil borings (SB-1 through SB-5) were completed to depths of 20 feet bgs. Adsorbed-phase methyl tertiary butyl ether (MTBE) was detected in two of the four soil samples analyzed at concentrations ranging from 0.042 milligrams per kilogram (mg/kg) (SB-5@5') to 0.064 mg/kg (SB-4@5'), which exceed the applicable Tier 1 environmental screening level (ESL) of the San Francisco Bay Regional Water Quality Control Board of 0.023 mg/kg. In addition, MTBE in the groundwater sample collected from SB-3 was detected at 13 micrograms per liter ( $\mu\text{g/l}$ ), above the applicable ESL of 5.00  $\mu\text{g/l}$ .

Groundwater samples collected from MW-2 over the past two years have detected MTBE concentrations ranging from 1.5 to 5.9  $\mu\text{g/l}$ .

## **SITE GEOLOGY AND HYDROGEOLOGY**

The results of previous subsurface investigations show the subject site is underlain by Quaternary-age alluvium to at least 28.5 feet bgs. The alluvium generally consists of a gravelly unit at the surface varying from 5 to 7 feet thick that is underlain by a clay unit to depths below grade of 11 to 13 feet. A second gravelly unit is recognized beneath the clay unit but varies significantly in thickness from approximately 6.5 to 8 feet thick near MW-1 and MW-2 to approximately 12.5 feet thick in the vicinity of MW-3. The second gravelly unit is underlain by a second clay unit which locally contains sandy and gravelly lenses and extends from depths below grade of 23.5 to 25 feet to the maximum depth explored (26 to 28.5 feet bgs).

Groundwater was initially encountered at depths of 14 to 15.5 feet bgs during drilling at the site. Historical monitoring data show the static depth to water onsite varies from 13 to 18 feet bgs. Historical groundwater flow direction has been predominantly northwest with an average gradient of 0.01 foot per foot (ft/ft). The nearest surface water to the site is an intermittent drainage stream. The stream flows northwest and turns sharply northeast behind the site and then bends toward the northwest again.

## SCOPE OF WORK

The scope of work included the following activities:

- Conducted utility clearance and obtained the appropriate drilling permits;
- Drilled one soil boring to 63 feet bgs with the initial five feet cleared by "air-knife" technology;
- Collected soil samples for laboratory analysis from the borehole;
- Collected depth discrete grab groundwater samples from the borehole;
- Collected groundwater samples from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7 in conjunction with the soil and discrete-grab groundwater sampling; and
- Uploaded analytical laboratory data into the State of California Geotracker System.

### Pre-Field Investigation Activities

A utility survey was completed prior to conducting the field investigation. Underground Services Alert (USA) was notified prior to drilling operations, and a private utility locating company was utilized to reduce the risk of damage to utilities beneath the property. Additionally, the first five feet of each borehole was cleared using air-knife technology before drilling began.

Delta prepared a site-specific Health and Safety (H&S) plan in accordance Title 8, Section 5192 of the California Code of Regulations. The H&S plan contains a list of emergency contacts, as well as a hospital route map to the nearest emergency facility.

A drilling permit was obtained from the Zone 7 Water Agency.

### Soil Boring and Sampling Procedures

The soil boring (Figure 2) was drilled by a licensed contractor using a cone penetrometer (CPT) rig. Three boreholes were advanced for the soil boring location. The initial borehole was drilled to identify water-bearing zones for grab groundwater sampling and provide a CPT log of subsurface lithologies. The second borehole was drilled to collect soil samples for identification and laboratory analysis and to collect a "shallow" depth-discrete groundwater sample. The third borehole was drilled to collect a "deeper" depth-discrete groundwater sample. Soil samples from selected depths were collected for analysis. Each boring was backfilled with grout upon completion.

Soil samples were collected using a direct push piston sampler. A sealed pointed piston was advanced within the core barrel of the CPT to the desired sample depth. The piston was then opened and driven to further depth to collect a soil sample at which time the piston assembly was removed and the soil sample recovered. The sample tube from each interval were sealed with Teflon tape and plastic end caps and placed in an ice chest cooled with ice for delivery to the analytical laboratory for analysis under chain-of-custody protocol. The remaining soil collected from the sample tubes were used for field screening and lithologic description purposes. Soil samples from each sample interval were field screened for the presence of volatile organic compounds (VOCs) using a photoionization detector (PID). Five soil samples were collected for laboratory analysis. Soil samples were submitted for analysis when the PID measurements showed evidence of substantial contamination. The PID

measurements were recorded on the soil boring log by the field geologist. Each soil sample was logged using the Unified Soil Classification System (USCS).

Groundwater samples were collected using a closed screen sampler. The assembly was driven with the outer tube casing in place. When the desired groundwater sample depth was reached, the outer casing was retracted to expose the screen to groundwater. A small-diameter bailer was then lowered through the drill casing and a groundwater sample collected. The expendable drive point was left in place when the drill casing and sampling assembly were removed.

Each groundwater sample was placed into an appropriately labeled container, sealed, and placed in an ice chest cooled with ice and transported to a state-certified laboratory for analysis under chain-of-custody protocol.

### **Subsurface Conditions**

A Delta field geologist examined soil samples from the boring in conjunction with the corresponding CPT log when classifying soil type and thickness. Soil encountered during air-knifing and drilling near the surface consisted primarily of a gravelly unit approximately 5 feet thick underlain by a clay/silt unit to approximately 14 feet below grade. A second gravelly unit beneath the clay/silt unit extends to approximately 24 feet below grade. The second gravelly unit is underlain by a second clay/silt unit which locally contains sandy lenses and extends to approximately 57 feet below grade. A third gravelly unit interpreted by the CPT log extends to the maximum depth explored (63 feet bgs). Groundwater was initially encountered at approximately 15 feet bgs. The CPT Site Investigation is included as Attachment A, and the boring log for SB-6 is presented in Attachment B.

### **Laboratory Analysis and Results**

Soil and groundwater samples were submitted under chain of custody protocol to a California-certified laboratory. The soil and groundwater samples were analyzed for total purgeable petroleum hydrocarbons (TPPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), MTBE, di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBA), tertiary butyl alcohol (TBA), tertiary amyl methyl ether (TAME), and ethanol by United States Environmental Protection Agency (US EPA) Method 8260B. In addition, for waste profiling purposes, one soil sample was analyzed for total lead by EPA Method 6010.

#### **Soil**

Analytical results of soil samples are shown in Table 1. All soil samples were reported as not detected above the applicable laboratory detection limits. The laboratory report is included as Attachment C

#### **Water**

Analytical results of groundwater samples are shown in Table 2. Two groundwater samples were collected from boring SB-6 at depths of 18 feet and 62 feet bgs. TPPH was detected in sample B-6@18' at a concentration of 77 µg/l. Toluene, ethylbenzene and total xylenes were also detected in sample B-6@18' at concentrations of 1.2 µg/l, 0.76 µg/l, and 2.5 µg/l, respectively. Analytical results of groundwater sample B-6@62' showed no constituents detected above the applicable laboratory detection limits. The laboratory report is included as Attachment C

Groundwater samples from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7 were collected in conjunction with the soil boring assessment. Total petroleum hydrocarbons as gasoline (TPH-G) analyzed by EPA Method 8015 (modified) was detected in two of the six groundwater samples at concentrations of 62 µg/l (MW-2) and 140 µg/l (MW-5). Ethylbenzene and total xylenes were detected in the sample from MW-2 at concentrations of 2.1 µg/l and 4.5 µg/l, respectively. All other analyzed constituents were reported as not detected above the laboratory detection limits. The groundwater monitoring well sampling report is included as Attachment D

### **Waste Disposal**

Soil cuttings generated during this investigation were temporarily stored onsite in appropriately labeled 55-gallon Department of Transportation (DOT)-approved drums pending disposal arrangements. The soil was transported offsite by a licensed waste hauler once an approved destination for the waste is found.

### **Conclusions**

Delta concludes the following:

- Soil boring SB-6 was drilled in the vicinity of the USTs to a total depth of 63 feet bgs. Soil samples were collected at 5 feet, 15 feet, 25 feet, 30 feet, and 56 feet bgs. All soil sample analytical results were reported as not detected above the applicable laboratory detection limits.
- Two grab groundwater samples were collected from soil boring SB-6 at 18 feet and 62 feet bgs. Low concentrations of petroleum hydrocarbons were detected in the groundwater sample collected from 18 feet bgs.

### **Remarks/Signatures**

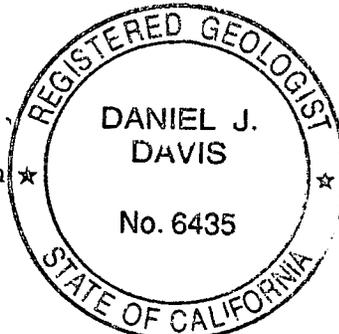
The recommendations contained in this letter/report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This letter/report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This letter/report is intended only for the use of Delta's Client and anyone else specifically listed on this letter/report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this letter/report.

If you have questions regarding this assessment report, please call Daniel Davis at (916) 503-1260.

Sincerely,  
**Delta Environmental Consultants, Inc.**

*Roger Hoffmeyer*  
for Ben Wright  
Staff Geologist

*Daniel J. Davis*  
Daniel J. Davis, R.G.  
Senior Project Manager



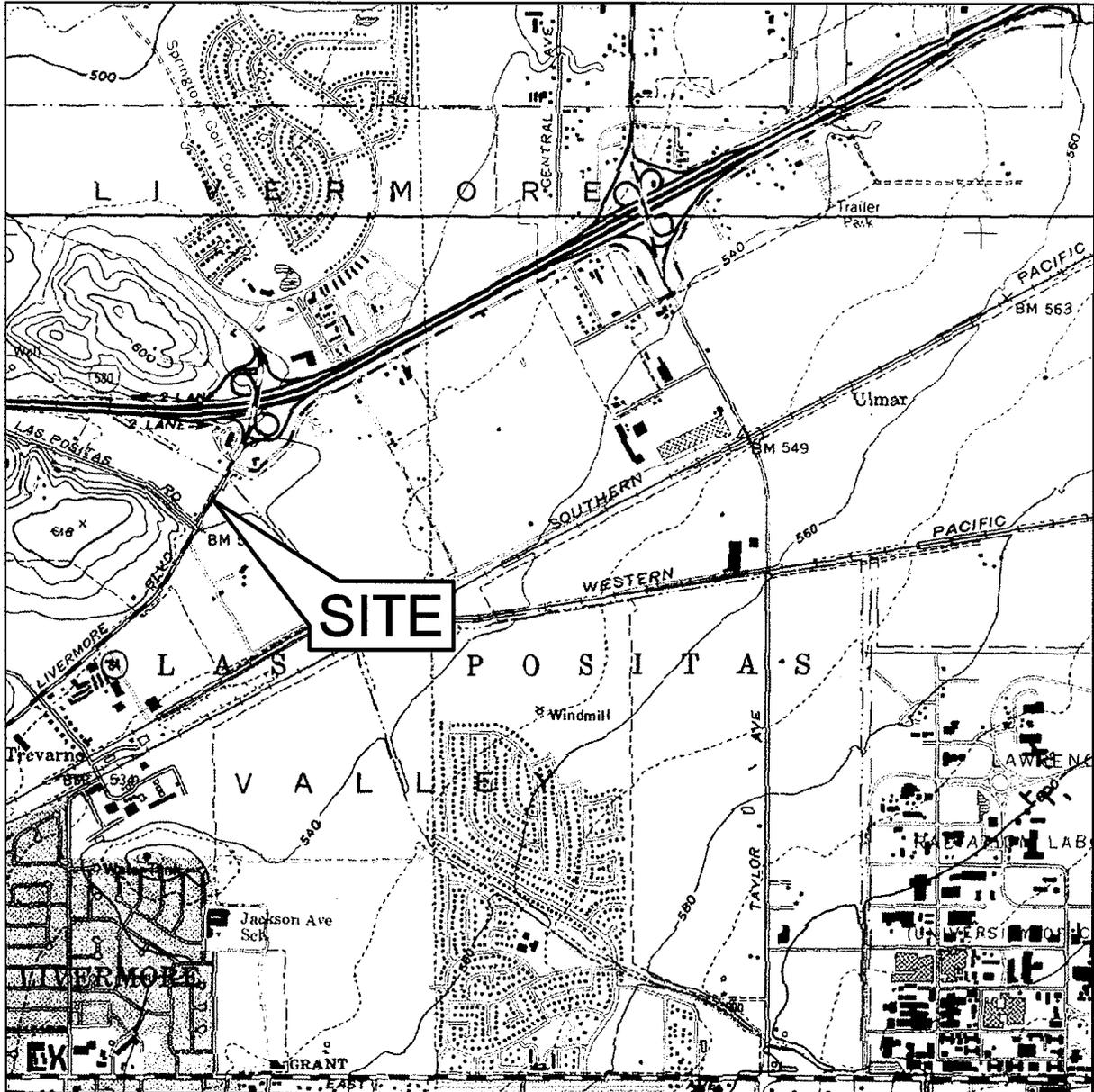
Cc: Shelby Lathrop – ConocoPhillips (electronic copy)  
Asghar Kholdi – Station Owner

Figures: Figure 1 – Site Location Map  
Figure 2 – Site Plan

Tables: Table 1 – Soil Analytical Results  
Table 2 – Groundwater Analytical Results

Attachments: Attachment A – CPT Site Investigation  
Attachment B – Boring Log  
Attachment C – Laboratory Report  
Attachment D – Groundwater Monitoring Well Sampling Report

## Figures



0 1000 FT 2000 FT  
SCALE: 1 : 24,000



FIGURE 1

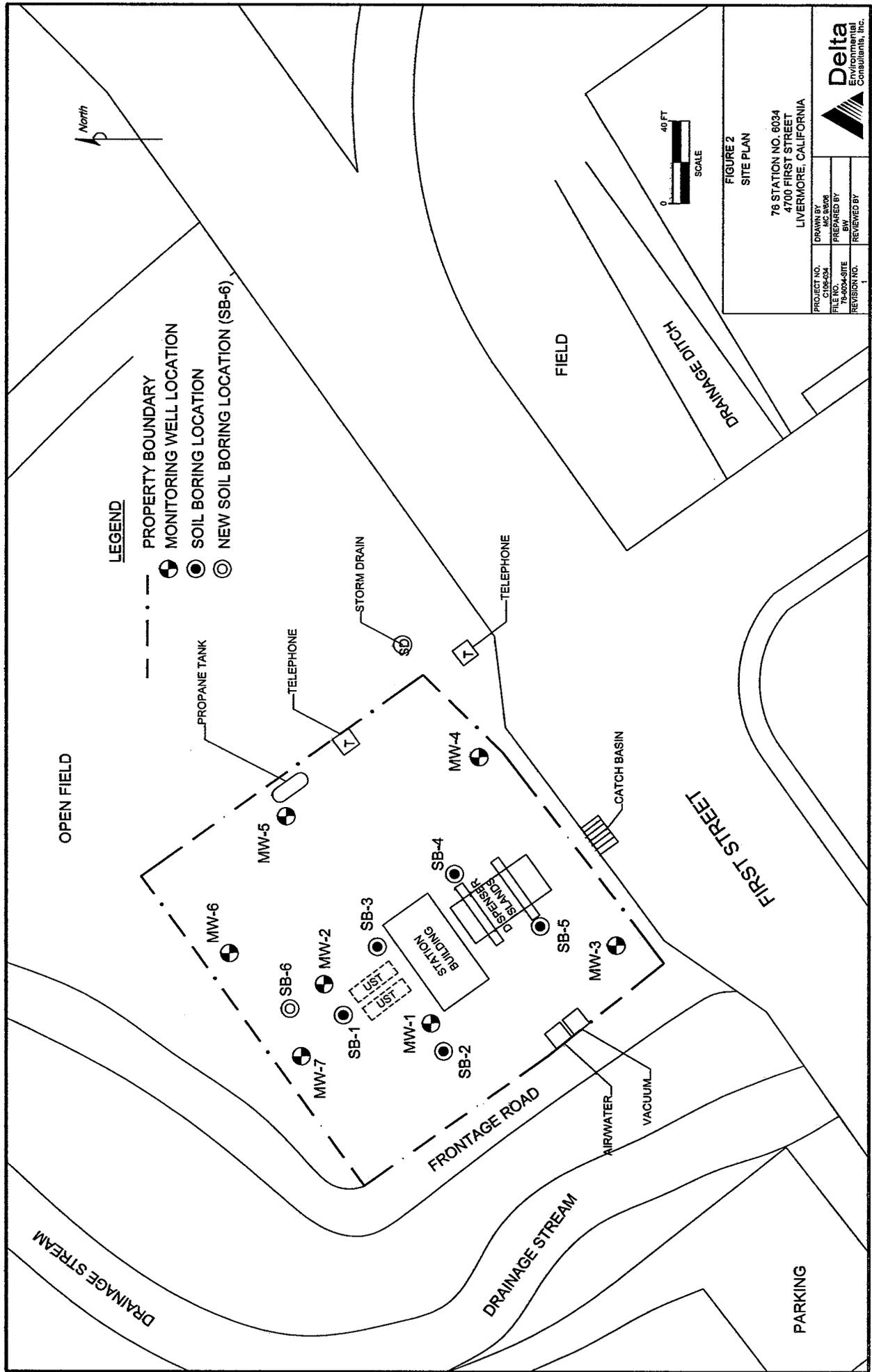
SITE LOCATION MAP

76 STATION NO. 6034  
4700 FIRST STREET  
LIVERMORE, CALIFORNIA

|                               |                        |
|-------------------------------|------------------------|
| PROJECT NO.<br>C106-034       | DRAWN BY<br>MC 3/16/06 |
| FILE NO.<br>Site Locator 4844 | PREPARED BY<br>MC      |
| REVISION NO.<br>1             | REVIEWED BY            |



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, ALTAMONT QUADRANGLE, 1995



**FIGURE 2**  
**SITE PLAN**  
 76 STATION NO. 6034  
 4700 FIRST STREET  
 LIVERMORE, CALIFORNIA

|              |              |
|--------------|--------------|
| PROJECT NO.  | DRAWN BY     |
| FILE NO.     | DATE         |
| 76-0004-SITE | 76-0004-SITE |
| REVISION NO. | REVIEWED BY  |
| 1            |              |



## Tables

Table 1

SOIL ANALYTICAL RESULTS  
 ConocoPhillips Station No. 6034  
 4700 First Street, Livermore California

| Sample ID   | Date      | Depth<br>(feet) | TPPH<br>(mg/Kg) | Benzene<br>(mg/Kg) | Toluene<br>(mg/Kg) | Ethyl-<br>benzene<br>(mg/Kg) | Total Xylenes<br>(mg/Kg) | MTBE<br>(mg/Kg) | TBA<br>(mg/Kg) | ETBE<br>(mg/Kg) | TAME<br>(mg/Kg) | DIPE<br>(mg/Kg) | Ethanol<br>(mg/Kg) | Lead<br>(mg/Kg) |
|-------------|-----------|-----------------|-----------------|--------------------|--------------------|------------------------------|--------------------------|-----------------|----------------|-----------------|-----------------|-----------------|--------------------|-----------------|
| <b>Soil</b> |           |                 |                 |                    |                    |                              |                          |                 |                |                 |                 |                 |                    |                 |
| SB-6@5'     | 7/21/2006 | 5               | ---             | ---                | ---                | ---                          | ---                      | ---             | ---            | ---             | ---             | ---             | ---                | 7.1             |
| SB-6@15'    | 7/21/2006 | 15              | ND<0.50         | ND<0.012           | ND<0.012           | ND<0.012                     | ND<0.025                 | ND<0.012        | ND<0.50        | ND<0.0025       | ND<0.0025       | ND<0.012        | ND<2.5             | ---             |
| SB-6@25'    | 7/21/2006 | 25              | ND<10           | ND<0.25            | ND<0.25            | ND<0.25                      | ND<0.50                  | ND<0.25         | ND<10          | ND<0.050        | ND<0.050        | ND<0.25         | ND<50              | ---             |
| SB-6@30'    | 7/21/2006 | 30              | ND<10           | ND<0.25            | ND<0.25            | ND<0.25                      | ND<0.50                  | ND<0.25         | ND<10          | ND<0.050        | ND<0.050        | ND<0.25         | ND<50              | ---             |
| SB-6@56'    | 7/21/2006 | 56              | ND<10           | ND<0.25            | ND<0.25            | ND<0.25                      | ND<0.50                  | ND<0.25         | ND<10          | ND<0.050        | ND<0.050        | ND<0.25         | ND<50              | ---             |

TPPH = total purgeable petroleum hydrocarbons by EPA Method 8260B  
 BTEX = benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B  
 MTBE = methyl tertiary butyl ether by EPA Method 8260B  
 TBA = tertiary butyl alcohol by EPA Method 8260B  
 ETBE = ethyl tertiary butyl ether by EPA Method 8260B  
 DIPE = di-isopropyl ether by EPA Method 8260B  
 TAME = tertiary amyl methyl ether by EPA Method 8260B

Ethanol was analyzed by EPA Method 8260B  
 Lead was analyzed by EPA Method 6010  
 mg/Kg = milligrams per kilogram  
 --- = not analyzed  
 ND = not detected above the laboratory detection limit  
 Bold = detected compound concentration  
 EPA = US Environmental Protection Agency

Table 2

GROUNDWATER ANALYTICAL RESULTS  
 ConocoPhillips Station No. 6034  
 4700 First Street, Livermore California

| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Date      | Depth<br>(feet) | TPPH<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethyl-<br>benzene<br>(µg/L) | Total Xylenes<br>(µg/L) | MTBE<br>(µg/L) | TBA<br>(µg/L) | ETBE<br>(µg/L) | TAME<br>(µg/L) | DIPE<br>(µg/L) | Ethanol<br>(µg/L) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|----------------|-------------------|-------------------|-----------------------------|-------------------------|----------------|---------------|----------------|----------------|----------------|-------------------|
| <b>Groundwater</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                 |                |                   |                   |                             |                         |                |               |                |                |                |                   |
| SB-6@18'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7/21/2006 | 18              | <b>77</b>      | ND<0.50           | 1.2               | 0.76                        | 2.5                     | ND<0.50        | ND<10         | ND<0.50        | ND<0.50        | ND<0.50        | ND<250            |
| SB-6@62'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7/21/2006 | 62              | ND<50          | ND<0.50           | ND<0.50           | ND<0.50                     | ND<0.50                 | ND<0.50        | ND<10         | ND<0.50        | ND<0.50        | ND<0.50        | ND<250            |
| TPPH = total purgeable petroleum hydrocarbons by EPA Method 8260B<br>BTEX = benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B<br>MTBE = methyl tertiary butyl ether by EPA Method 8260B<br>TBA = tertiary butyl alcohol by EPA Method 8260B<br>ETBE = ethyl tertiary butyl ether by EPA Method 8260B<br>DIPE = di-isopropyl ether by EPA Method 8260B<br>TAME = tertiary amyl methyl ether by EPA Method 8260B<br>Ethanol was analyzed by EPA Method 8260B<br>µg/L = micrograms per liter<br>--- = not analyzed<br>ND = not detected above the laboratory detection limit<br><b>Bold</b> = detected compound concentration<br>EPA = US Environmental Protection Agency |           |                 |                |                   |                   |                             |                         |                |               |                |                |                |                   |

**Attachment A**  
**CPT Site Investigation**



GREGG IN SITU, INC.

GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

July 24, 2006

Delta Environmental  
Attn: Ben Wright  
3164 Gold Camp Road, Suite 200  
Rancho Cordova, California 95670

Subject: CPT Site Investigation  
76 Station #6034  
Livermore, California  
GREGG Project Number: 06-239MA

Dear Mr. Wright:

The following report presents the results of GREGG Drilling & Testing's Cone Penetration Test investigation for the above referenced site. The following testing services were performed:

|    |                                    |            |                                     |
|----|------------------------------------|------------|-------------------------------------|
| 1  | Cone Penetration Tests             | (CPTU)     | <input checked="" type="checkbox"/> |
| 2  | Pore Pressure Dissipation Tests    | (PPD)      | <input checked="" type="checkbox"/> |
| 3  | Seismic Cone Penetration Tests     | (SCPTU)    | <input type="checkbox"/>            |
| 4  | Resistivity Cone Penetration Tests | (RCPTU)    | <input type="checkbox"/>            |
| 5  | UVIF Cone Penetration Tests        | (UVIFCPTU) | <input type="checkbox"/>            |
| 6  | Groundwater Sampling               | (GWS)      | <input checked="" type="checkbox"/> |
| 7  | Soil Sampling                      | (SS)       | <input checked="" type="checkbox"/> |
| 8  | Vapor Sampling                     | (VS)       | <input type="checkbox"/>            |
| 9  | Vane Shear Testing                 | (VST)      | <input type="checkbox"/>            |
| 10 | SPT Energy Calibration             | (SPTE)     | <input type="checkbox"/>            |

A list of reference papers providing additional background on the specific tests conducted is provided in the bibliography following the text of the report. If you would like a copy of any of these publications or should you have any questions or comments regarding the contents of this report, please do not hesitate to contact our office at (925) 313-5800.

Sincerely,  
GREGG Drilling & Testing, Inc.

Mary Walden  
Operations Manager

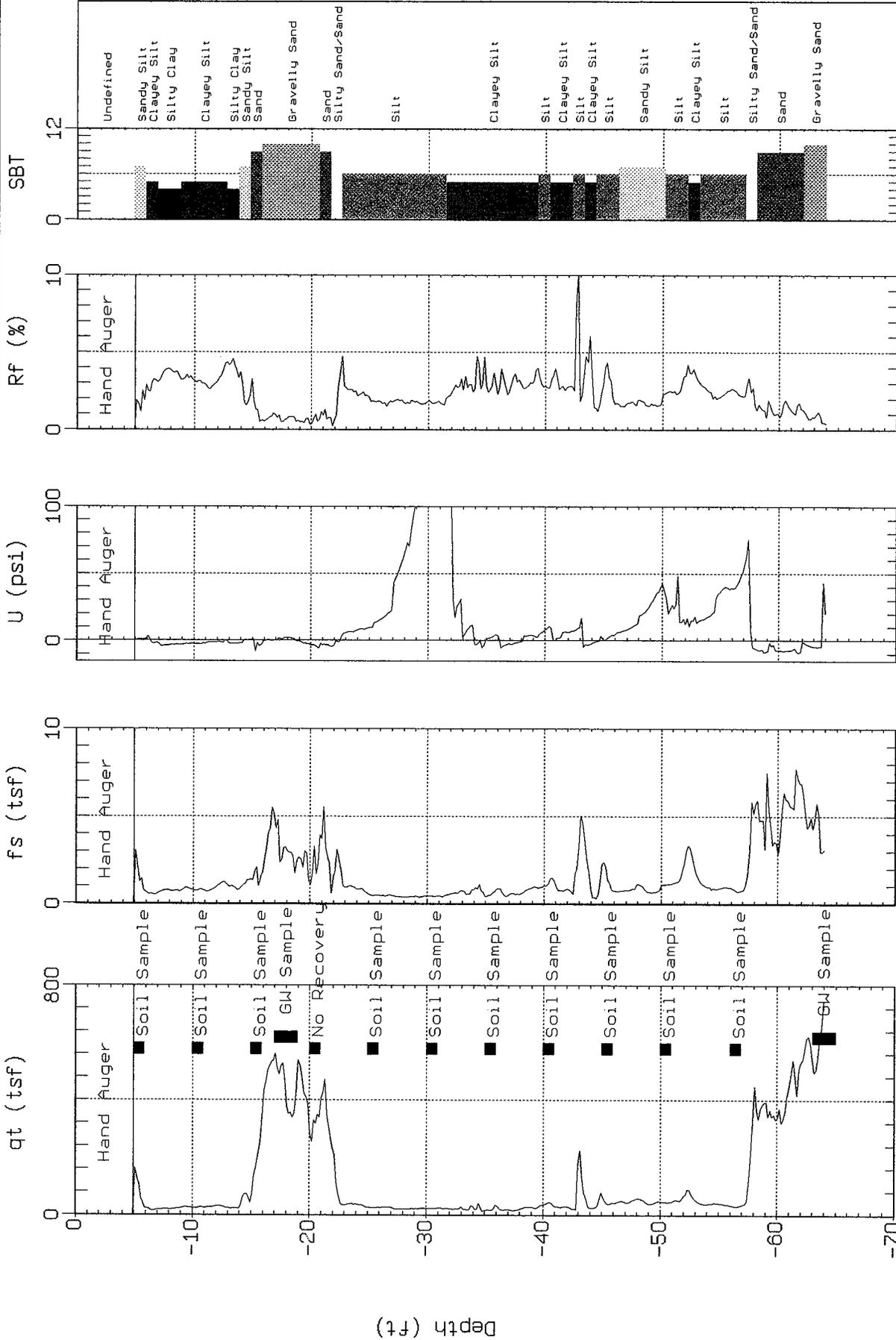




# DELTA ENV.

Site: 76 STATION #6034  
Location: CPT-06

Engineer: B. WRIGHT  
Date: 07:21:06 08:31



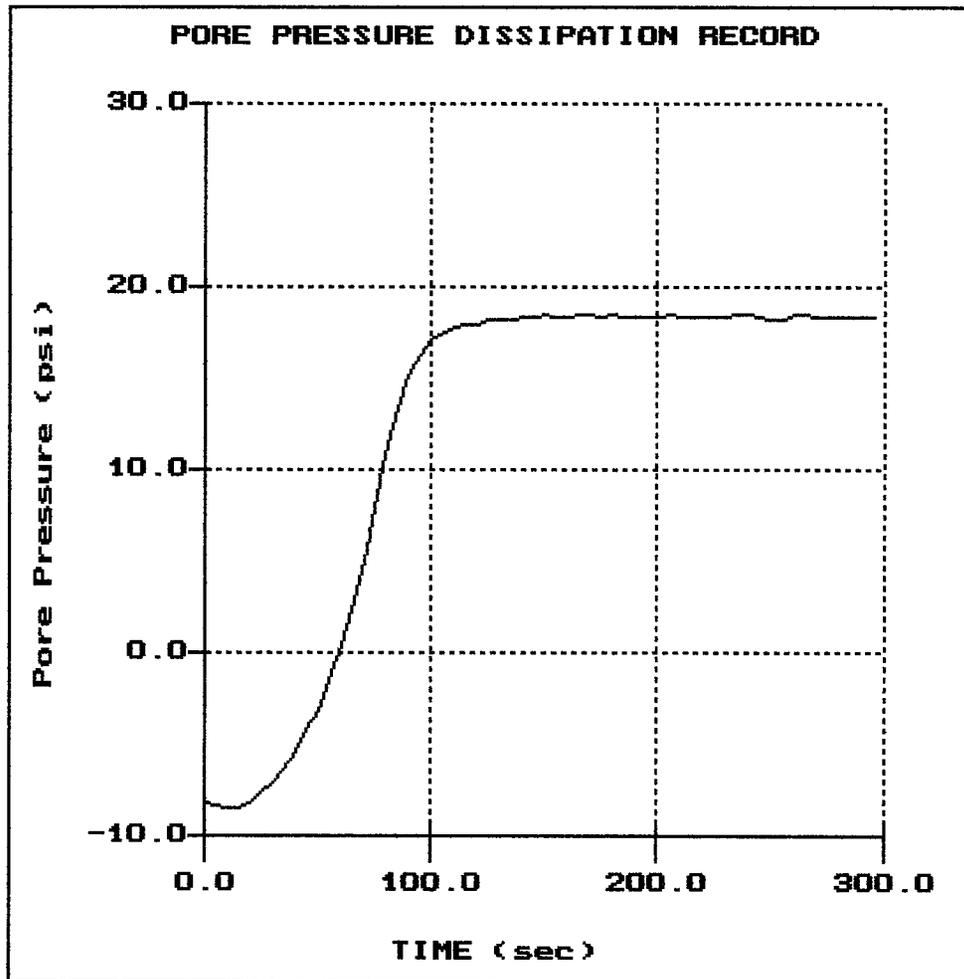
Max. Depth: 63.98 (ft)  
Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

DELTA ENV.

Site: 76 STATION #6034  
Location: CPT-06

Engineer: B. WRIGHT  
Date: 07:21:06 08:31



File: 239C01.PPC  
Depth (m): 18.00  
(ft): 59.06  
Duration : 295.0s  
U-min: -8.42 15.0s  
U-max: 18.49 260.0s

# **APPENDIX CPT**



## Cone Penetration Test Data & Interpretation

Soil behavior type and stratigraphic interpretation is based on relationships between cone bearing ( $q_c$ ), sleeve friction ( $f_s$ ), and pore water pressure ( $u_2$ ). The friction ratio ( $R_f$ ) is a calculated parameter defined by  $100f_s/q_c$  and is used to infer soil behavior type. Generally:

Cohesive soils (clays)

- High friction ratio ( $R_f$ ) due to small cone bearing ( $q_c$ )
- Generate large excess pore water pressures ( $u_2$ )

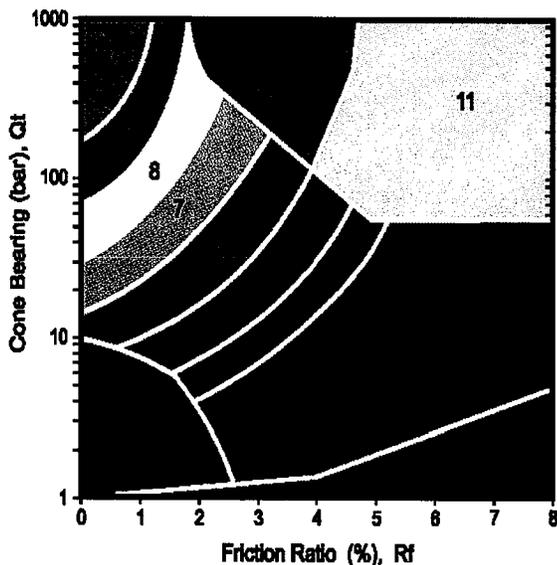
Cohesionless soils (sands)

- Low friction ratio ( $R_f$ ) due to large cone bearing ( $q_c$ )
- Generate very little excess pore water pressures ( $u_2$ )

A complete set of baseline readings are taken prior to and at the completion of each sounding to determine temperature shifts and any zero load offsets. Corrections for temperature shifts and zero load offsets can be extremely important, especially when the recorded loads are relatively small. In sandy soils, however, these corrections are generally negligible.

The cone penetration test data collected from your site is presented in graphical form in Appendix CPT. The data includes CPT logs of measured soil parameters, computer calculations of interpreted soil behavior types (SBT), and additional geotechnical parameters. A summary of locations and depths is available in Table 1. Note that all penetration depths referenced in the data are with respect to the existing ground surface.

Soil interpretation for this project was conducted using recent correlations developed by Robertson, 1990, *Figure SBT*. Note that it is not always possible to clearly identify a soil type based solely on  $q_c$ ,  $f_s$ , and  $u_2$ . In these situations, experience, judgment, and an assessment of the pore pressure dissipation data should be used to infer the soil behavior type.



| ZONE | Qt/N | SBT                       |
|------|------|---------------------------|
| 1    | 2    | Sensitive, fine grained   |
| 2    | 1    | Organic materials         |
| 3    | 1    | Clay                      |
| 4    | 1.5  | Silty clay to clay        |
| 5    | 2    | Clayey silt to silty clay |
| 6    | 2.5  | Sandy silt to clayey silt |
| 7    | 3    | Silty sand to sandy silt  |
| 8    | 4    | Sand to silty sand        |
| 9    | 5    | Sand                      |
| 10   | 6    | Gravelly sand to sand     |
| 11   | 1    | Very stiff fine grained*  |
| 12   | 2    | Sand to clayey sand*      |

\*over consolidated or cemented

Figure SBT

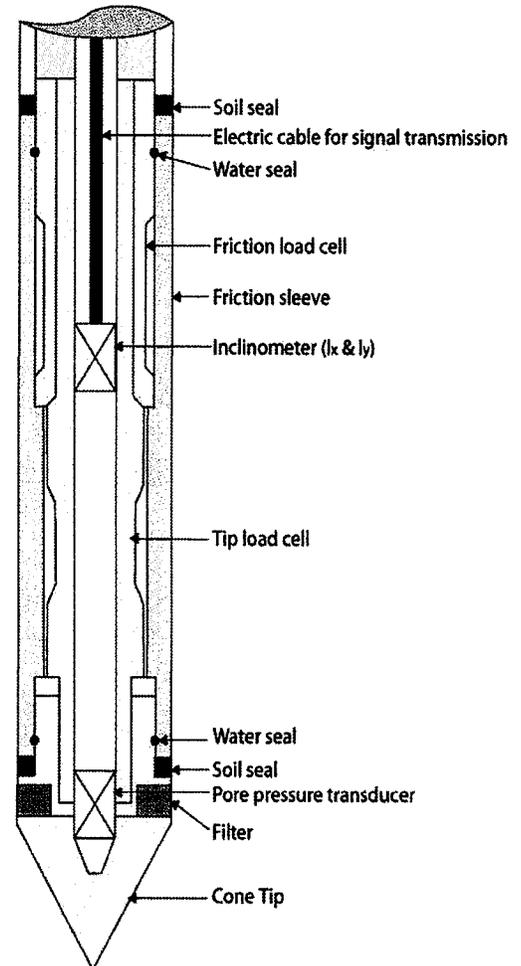


## Cone Penetration Testing Procedure (CPT)

Gregg In Situ, Inc. carries out all Cone Penetration Tests (CPT) using an integrated electronic cone system, *Figure CPT*. The soundings were conducted using a 20 ton capacity cone with a tip area of 15 cm<sup>2</sup> and a friction sleeve area of 225 cm<sup>2</sup>. The cone is designed with an equal end area friction sleeve and a tip end area ratio of 0.85.

The cone takes measurements of cone bearing ( $q_c$ ), sleeve friction ( $f_s$ ) and penetration pore water pressure ( $u_2$ ) at 5-cm intervals during penetration to provide a nearly continuous hydrogeologic log. CPT data reduction and interpretation is performed in real time facilitating on-site decision making. The above mentioned parameters are stored on disk for further analysis and reference. All CPT soundings are performed in accordance with revised (2002) ASTM standards (D 5778-95).

The cone also contains a porous filter element located directly behind the cone tip ( $u_2$ ), *Figure CPT*. It consists of porous plastic and is 5.0mm thick. The filter element is used to obtain penetration pore pressure as the cone is advanced as well as Pore Pressure Dissipation Tests (PPDT's) during appropriate pauses in penetration. It should be noted that prior to penetration, the element is fully saturated with silicon oil under vacuum pressure to ensure accurate and fast dissipation.



*Figure CPT*

When the soundings are complete, the test holes are grouted using a Gregg In Situ support rig. The grouting procedures generally consist of pushing a hollow CPT rod with a "knock out" plug to the termination depth of the test hole. Grout is then pumped under pressure as the tremie pipe is pulled from the hole. Disruption or further contamination to the site is therefore minimized.

# **APPENDIX PPD**



## Pore Pressure Dissipation Tests (PPDT)

Pore Pressure Dissipation Tests (PPDT's) conducted at various intervals measured hydrostatic water pressures and determined the approximate depth of the ground water table. A PPDT is conducted when the cone is halted at specific intervals determined by the field representative. The variation of the penetration pore pressure ( $u$ ) with time is measured behind the tip of the cone and recorded by a computer system.

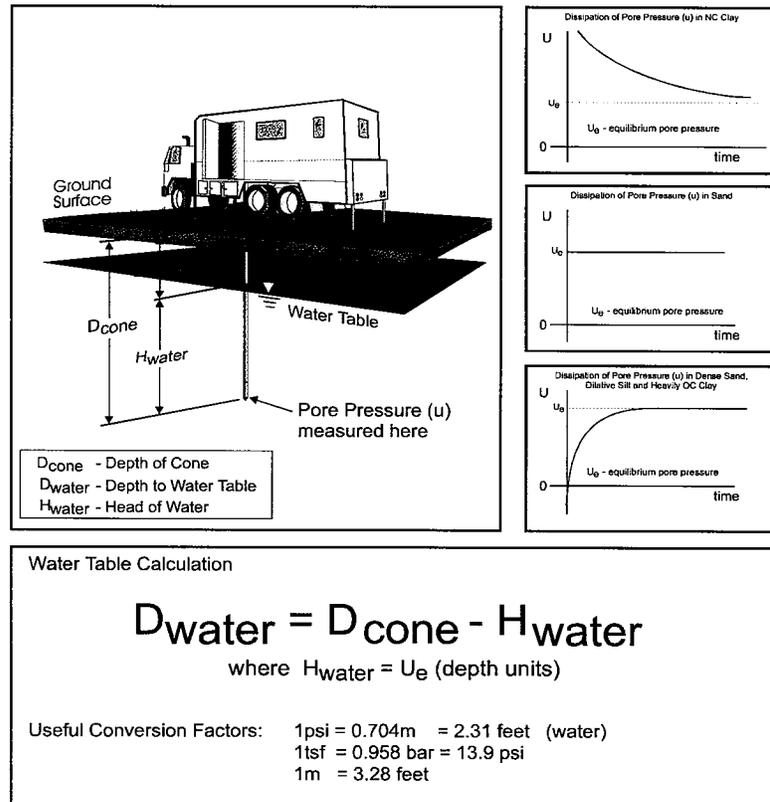
Pore pressure dissipation data can be interpreted to provide estimates of:

- Equilibrium piezometric pressure
- Phreatic Surface
- In situ horizontal coefficient of consolidation ( $c_h$ )
- In situ horizontal coefficient of permeability ( $k_h$ )

In order to correctly interpret the equilibrium piezometric pressure and/or the phreatic surface, the pore pressure must be monitored until such time as there is no variation in pore pressure with time, *Figure PPDT*. This time is commonly referred to as  $t_{100}$ , the point at which 100% of the excess pore pressure has dissipated.

A complete reference on pore pressure dissipation tests is presented by Robertson et al. 1992.

A summary of the pore pressure dissipation tests is summarized in Table 1. Pore pressure dissipation data is presented in graphical form in Appendix PPDT.



*Figure PPDT*

# **APPENDIX GWS**

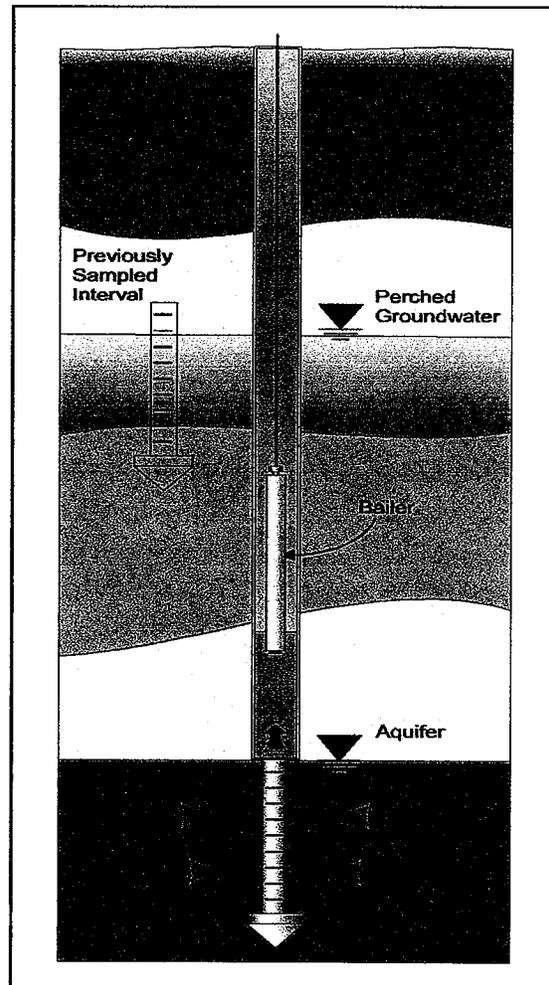


## Groundwater Sampling (GWS)

Gregg In Situ, Inc. conducts groundwater sampling using a Hydropunch® type groundwater sampler, *Figure GWS*. The groundwater sampler has a retrievable stainless steel or disposable PVC screen with steel drop off tip. This allows for samples to be taken at multiple depth intervals within the same sounding location. In areas of slower water recharge, provisions may be made to set temporary PVC well screens during sampling to allow the drill rig to advance to the next sample location while the groundwater is allowed to infiltrate.

The groundwater sampler operates by advancing 1 ¾ inch hollow push rods with the filter tip in a closed configuration to the base of the desired sampling interval. Once at the desired sample depth, the push rods are retracted; exposing the encased filter screen and allowing groundwater to infiltrate hydrostatically from the formation into the inlet screen. A small diameter bailer (approximately ½ or ¾ inch) is lowered through the push rods into the screen section for sample collection. The number of downhole trips with the bailer and time necessary to complete the sample collection at each depth interval is a function of sampling protocols, volume requirements, and the yield characteristics and storage capacity of the formation. Upon completion of sample collection, the push rods and sampler, with the exception of the PVC screen and steel drop off tip are retrieved to the ground surface, decontaminated and prepared for the next sampling event.

A summary of the groundwater samples collected, including the sampling date, depth and location identification, is presented in Table 1 and the corresponding CPT plot.



*Figure GWS*

For a detailed reference on direct push groundwater sampling, refer to Zemo et. al., 1992.

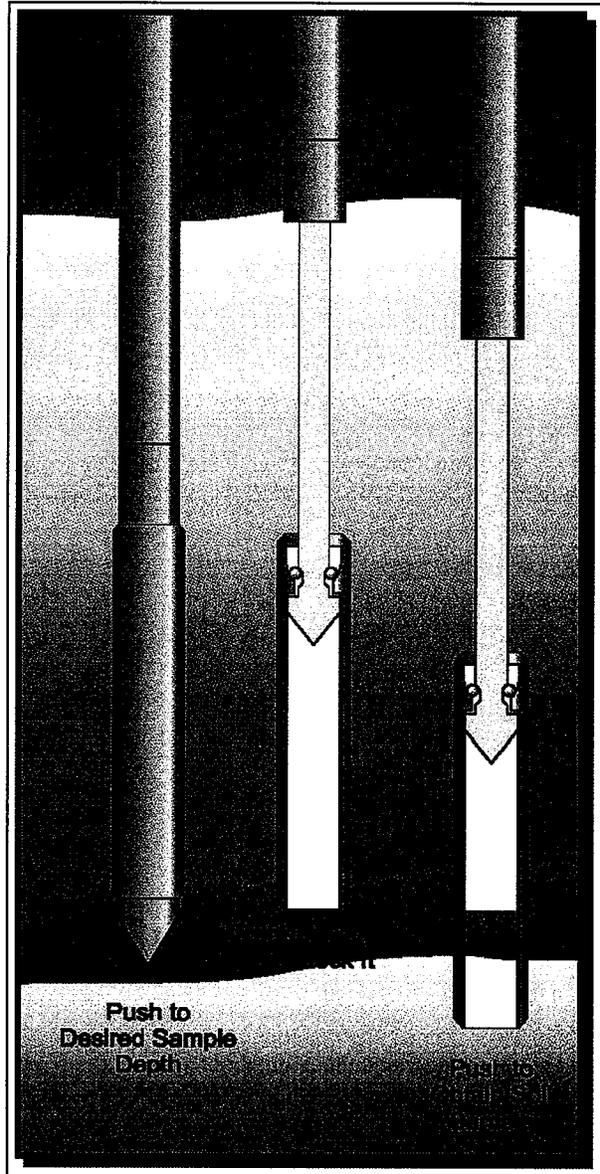
# **APPENDIX SS**



## Soil Sampling (SS)

Gregg In Situ, Inc. uses a piston-type sampler to obtain relatively undisturbed soil samples without generating any soil cuttings, *Figure SS*. Two different types of samplers (12 and 18 inch) are used depending on the soil type and density. The soil sampler is initially pushed in a "closed" position to the desired sampling interval using a hydraulic rig. Keeping the sampler closed minimizes the potential of cross contamination caused by sloughing. The inner tip of the sampler is then retracted 12 inches (or 18 inches if using the longer sampler) leaving a hollow soil sampler with two inner 1¼ inch diameter by 6 inch or four 3 inch long soil sample tubes. If using the 18 inch sampler, two 1½ inch diameter by 6 inch long tubes will be exposed. The hollow sampler is then pushed in a locked "open" position to collect a soil sample. The filled sampler and push rods are then retrieved to the ground surface. Because the soil enters the sampler at a constant rate, the opportunity for 100% recovery is increased. For environmental analysis, the soil sample tube ends are sealed with Teflon and plastic caps. Often, a longer "split tube" can be used for geotechnical sampling.

For a detailed reference on direct push soil sampling, refer to Robertson et al, 1998.



*Figure SS*

A summary of the soil samples collected, including the sampling date, depth and location identification, is presented in Table 1.



## Bibliography

Lunne, T., Robertson, P.K. and Powell, J.J.M., "Cone Penetration Testing in Geotechnical Practice" E & FN Spon. ISBN 0 419 23750, 1997

Robertson, P.K., "Soil Classification using the Cone Penetration Test", Canadian Geotechnical Journal, Vol. 27, 1990 pp. 151-158.

Mayne, P.W., "NHI (2002) Manual on Subsurface Investigations: Geotechnical Site Characterization", available through [www.ce.gatech.edu/~geosys/Faculty/Mayne/papers/index.html](http://www.ce.gatech.edu/~geosys/Faculty/Mayne/papers/index.html), Section 5.3, pp. 107-112.

Robertson, P.K., R.G. Campanella, D. Gillespie and A. Rice, "Seismic CPT to Measure In-Situ Shear Wave Velocity", Journal of Geotechnical Engineering ASCE, Vol. 112, No. 8, 1986 pp. 791-803.

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Robertson, P.K., T. Lunne and J.J.M. Powell, "Geo-Environmental Application of Penetration Testing", Geotechnical Site Characterization, Robertson & Mayne (editors), 1998 Balkema, Rotterdam, ISBN 90 5410 939 4 pp 35-47.

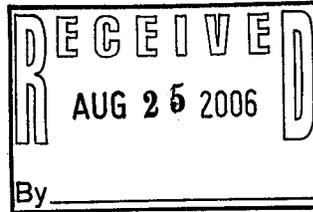
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Woeller, D.J., P.K. Robertson, T.J. Boyd and Dave Thomas, "Detection of Polyaromatic Hydrocarbon Contaminants Using the UVIF-CPT", 53<sup>rd</sup> Canadian Geotechnical Conference Montreal, QC October pp. 733-739, 2000.

Zemo, D.A., T.A. Delfino, J.D. Gallinatti, V.A. Baker and L.R. Hilpert, "Field Comparison of Analytical Results from Discrete-Depth Groundwater Samplers" BAT EnviroProbe and QED HydroPunch, Sixth national Outdoor Action Conference, Las Vegas, Nevada Proceedings, 1992, pp 299-312.

Copies of ASTM Standards are available through [www.astm.org](http://www.astm.org)



August 21, 2006

ConocoPhillips Company  
76 Broadway  
Sacramento, CA 95818

ATTN: MS. SHELBY LATHROP

SITE: 76 STATION 6034  
4700 FIRST STREET  
LIVERMORE, CALIFORNIA

RE: GROUNDWATER MONITORING WELL SAMPLING REPORT  
JULY 19, 2006

Dear Ms. Lathrop:

Please find enclosed our Groundwater Monitoring Well Sampling Report for 76 Station 6034, located at 4700 First Street, Livermore, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

Anju Farfan  
QMS Operations Manager

CC: Mr. Daniel Davis, Delta Environmental Consultants, Inc. (2 copies)

Enclosures  
20-0400/6034R10.QMS





**GROUNDWATER MONITORING WELL SAMPLING REPORT  
JULY 19, 2006**

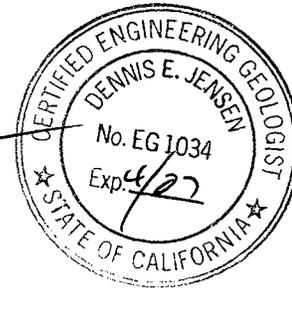
76 STATION 6034  
4700 First Street  
Livermore, California

Prepared For:

Ms. Shelby Lathrop  
CONOCOPHILLIPS COMPANY  
76 Broadway  
Sacramento, California 95818

By:

A handwritten signature in black ink, appearing to read 'Dennis E. Jensen', written over a circular professional seal.

A circular professional seal for Dennis E. Jensen, a Certified Engineering Geologist in the State of California. The seal contains the text: 'CERTIFIED ENGINEERING GEOLOGIST', 'DENNIS E. JENSEN', 'No. EG 1034', and 'Exp. 4/27'. The seal is stamped in black ink.

Senior Project Geologist, Irvine Operations  
August 21, 2006



## LIST OF ATTACHMENTS

|                    |                                                                                                                                                                                                                                                                           |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Summary Sheet      | Summary of Gauging and Sampling Activities                                                                                                                                                                                                                                |
| Tables             | Table Key<br>Contents of Tables<br>Table 1: Current Fluid Levels and Selected Analytical Results<br>Table 1a: Additional Current Analytical Results<br>Table 2: Historic Fluid Levels and Selected Analytical Results<br>Table 2a: Additional Historic Analytical Results |
| Figures            | Figure 1: Vicinity Map<br>Figure 2: Groundwater Elevation Contour Map<br>Figure 3: Dissolved-Phase TPH-G Concentration Map<br>Figure 4: Dissolved-Phase Benzene Concentration Map<br>Figure 5: Dissolved-Phase MTBE Concentration Map                                     |
| Graphs             | Groundwater Elevations vs. Time<br>Benzene Concentrations vs. Time                                                                                                                                                                                                        |
| Field Activities   | General Field Procedures<br>Field Monitoring Data Sheet – 7/19/06<br>Groundwater Sampling Field Notes – 7/19/06                                                                                                                                                           |
| Laboratory Reports | Official Laboratory Reports<br>Quality Control Reports<br>Chain of Custody Records                                                                                                                                                                                        |
| Statements         | Purge Water Disposal<br>Limitations                                                                                                                                                                                                                                       |

**Summary of Gauging and Sampling Activities**  
**July 2006 through September 2006**  
**76 Station 6034**  
**4700 First Street**  
**Livermore, CA**

---

Project Coordinator: **Shelby Lathrop**  
Telephone: **916-558-7609**

Water Sampling Contractor: **TRC**  
Compiled by: **Daniel Lee**

Date(s) of Gauging/Sampling Event: **7/19/06**

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**Sample Points**

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Groundwater wells: **7** onsite, **0** offsite      Wells gauged: **6**      Wells sampled: **6**  
Purging method: **Bailer**  
Purge water disposal: **Onyx/Rodeo Unit 100**  
Other Sample Points: **0**      Type: **n/a**

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**Liquid Phase Hydrocarbons (LPH)**

---

Wells with LPH: **0**      Maximum thickness (feet): **n/a**  
LPH removal frequency: **n/a**      Method: **n/a**  
Treatment or disposal of water/LPH: **n/a**

---

**Hydrogeologic Parameters**

---

Depth to groundwater (below TOC):      Minimum: **13.62 feet**      Maximum: **15.48 feet**  
Average groundwater elevation (relative to available local datum): **505.15 feet**  
Average change in groundwater elevation since previous event: **0.02 feet**  
Interpreted groundwater gradient and flow direction:  
    Current event: **0.01 ft/ft, north**  
    Previous event: **0.008 ft/ft, northwest (6/23/06)**

---

**Selected Laboratory Results**

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Wells with detected **Benzene**: **0**      Wells above MCL (1.0 µg/l): **n/a**  
    Maximum reported benzene concentration: **n/a**  
  
Wells with **TPH-G**      **2**      Maximum: **140 µg/l (MW-5)**  
Wells with **MTBE**      **0**

---

**Notes:**

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# TABLES

## TABLE KEY

### STANDARD ABBREVIATIONS

|       |   |                                                                     |
|-------|---|---------------------------------------------------------------------|
| --    | = | not analyzed, measured, or collected                                |
| LPH   | = | liquid-phase hydrocarbons                                           |
| Trace | = | less than 0.01 foot of LPH in well                                  |
| ug/l  | = | micrograms per liter (approx. equivalent to parts per billion, ppb) |
| mg/l  | = | milligrams per liter (approx. equivalent to parts per million, ppm) |
| ND<   | = | not detected at or above laboratory detection limit                 |
| TOC   | = | top of casing (surveyed reference elevation)                        |

### ANALYTES

|               |   |                                                                                   |
|---------------|---|-----------------------------------------------------------------------------------|
| BTEX          | = | benzene, toluene, ethylbenzene, and (total) xylenes                               |
| DIPE          | = | di-isopropyl ether                                                                |
| ETBE          | = | ethyl tertiary butyl ether                                                        |
| MTBE          | = | methyl tertiary butyl ether                                                       |
| PCB           | = | polychlorinated biphenyls                                                         |
| PCE           | = | tetrachloroethene                                                                 |
| TBA           | = | tertiary butyl alcohol                                                            |
| TCA           | = | trichloroethane                                                                   |
| TCE           | = | trichloroethene                                                                   |
| TPH-G         | = | total petroleum hydrocarbons with gasoline distinction                            |
| TPH-G (GC/MS) | = | total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B |
| TPH-D         | = | total petroleum hydrocarbons with diesel distinction                              |
| TRPH          | = | total recoverable petroleum hydrocarbons                                          |
| TAME          | = | tertiary amyl methyl ether                                                        |
| 1,1-DCA       | = | 1,1-dichloroethane                                                                |
| 1,2-DCA       | = | 1,2-dichloroethane (same as EDC, ethylene dichloride)                             |
| 1,1-DCE       | = | 1,1-dichloroethene                                                                |
| 1,2-DCE       | = | 1,2-dichloroethene (cis- and trans-)                                              |

### NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as:  $\text{Surface Elevation} - \text{Measured Depth to Water} + (\text{Dp} \times \text{LPH Thickness})$ , where Dp is the density of the LPH, if known. A value of 0.75 is used for gasoline and when the density is not known. A value of 0.83 is used for diesel.
3. Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures).
4. Comments shown on tables are general. Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report.
5. A "J" flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory.
6. Other laboratory flags (qualifiers) may have been reported. See the official laboratory report (attached) for a complete list of laboratory flags.
7. Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display. Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report.
8. Groundwater vs. Time graphs may be corrected for apparent level changes due to re-survey.

### REFERENCE

TRC began groundwater monitoring and sampling for 76 Station 6034 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

# Contents of Tables

## Site: 76 Station 6034

### Current Event

| Table 1  | Well/<br>Date | Depth to<br>Water | LPH<br>Thickness   | Ground-<br>water<br>Elevation | Change in<br>Elevation | TPH-G<br>(8015M) | TPH-G<br>(GC/MS) | Benzene | Toluene | Ethyl-<br>benzene | Total<br>Xylenes | MTBE<br>(8021B) | MTBE<br>(8260B) | Comments |
|----------|---------------|-------------------|--------------------|-------------------------------|------------------------|------------------|------------------|---------|---------|-------------------|------------------|-----------------|-----------------|----------|
| Table 1a | Well/<br>Date | TBA               | Ethanol<br>(8260B) | DIPE                          | TAME                   |                  |                  |         |         |                   |                  |                 |                 |          |

### Historic Data

| Table 2  | Well/<br>Date | Depth to<br>Water | LPH<br>Thickness   | Ground-<br>water<br>Elevation   | Change in<br>Elevation | TPH-G<br>(8015M) | TPH-G<br>(GC/MS) | Benzene | Toluene                 | Ethyl-<br>benzene | Total<br>Xylenes              | MTBE<br>(8021B)                   | MTBE<br>(8260B)                  | Comments |
|----------|---------------|-------------------|--------------------|---------------------------------|------------------------|------------------|------------------|---------|-------------------------|-------------------|-------------------------------|-----------------------------------|----------------------------------|----------|
| Table 2a | Well/<br>Date | TBA               | Ethanol<br>(8260B) | Ethylene-<br>dibromide<br>(EDB) | 1,2-DCA<br>(EDC)       | DIPE             | ETBE             | TAME    | Total Oil<br>and Grease | Chloroform        | Trichloro-<br>ethene<br>(TCE) | Post-purge<br>Dissolved<br>Oxygen | Pre-purge<br>Dissolved<br>Oxygen |          |

**Table 1**  
**CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 19, 2006**  
**76 Station 6034**

| Date Sampled | TOC Elevation | Depth to Water                              | LPH Thickness | Ground-water Elevation | Change in Elevation | TPH-G (8015M) | TPH-G (GC/MS) | Benzene | Toluene | Ethyl-benzene | Total Xylenes | MTBE (8021B) | MTBE (8260B) | Comments |
|--------------|---------------|---------------------------------------------|---------------|------------------------|---------------------|---------------|---------------|---------|---------|---------------|---------------|--------------|--------------|----------|
| (feet)       | (feet)        | (feet)                                      | (feet)        | (feet)                 | (feet)              | (µg/l)        | (µg/l)        | (µg/l)  | (µg/l)  | (µg/l)        | (µg/l)        | (µg/l)       | (µg/l)       |          |
| <b>MW-1</b>  |               | <b>(Screen Interval in feet: 11.0-28.5)</b> |               |                        |                     |               |               |         |         |               |               |              |              |          |
| 07/19/06     | 520.64        | 15.48                                       | 0.00          | 505.16                 | 0.01                | ND<50         | --            | ND<0.50 | ND<0.50 | ND<0.50       | ND<0.50       | --           | ND<0.50      |          |
| <b>MW-2</b>  |               | <b>(Screen Interval in feet: 11.0-25.0)</b> |               |                        |                     |               |               |         |         |               |               |              |              |          |
| 07/19/06     | 519.82        | 15.12                                       | 0.00          | 504.70                 | 0.01                | 62            | --            | ND<0.50 | ND<0.50 | 2.1           | 4.5           | --           | ND<0.50      |          |
| <b>MW-3</b>  |               | <b>(Screen Interval in feet: 11.0-25.0)</b> |               |                        |                     |               |               |         |         |               |               |              |              |          |
| 07/19/06     | 519.66        | 13.96                                       | 0.00          | 505.70                 | 0.02                | ND<50         | --            | ND<0.50 | ND<0.50 | ND<0.50       | ND<0.50       | --           | ND<0.50      |          |
| <b>MW-4</b>  |               | <b>(Screen Interval in feet: 11.0-25.0)</b> |               |                        |                     |               |               |         |         |               |               |              |              |          |
| 07/19/06     | 519.61        | 13.62                                       | 0.00          | 505.99                 | 0.06                | ND<50         | --            | ND<0.50 | ND<0.50 | ND<0.50       | ND<0.50       | --           | ND<0.50      |          |
| <b>MW-5</b>  |               | <b>(Screen Interval in feet: 10.0-24.0)</b> |               |                        |                     |               |               |         |         |               |               |              |              |          |
| 07/19/06     | 520.27        | 15.31                                       | 0.00          | 504.96                 | -0.02               | 140           | --            | ND<0.50 | ND<0.50 | ND<0.50       | ND<0.50       | --           | ND<0.50      |          |
| <b>MW-7</b>  |               | <b>(Screen Interval in feet: 10.0-24.0)</b> |               |                        |                     |               |               |         |         |               |               |              |              |          |
| 07/19/06     | 518.83        | 14.46                                       | 0.00          | 504.37                 | 0.03                | ND<50         | --            | ND<0.50 | ND<0.50 | ND<0.50       | ND<0.50       | --           | ND<0.50      |          |

**Table 1 a**  
**ADDITIONAL CURRENT ANALYTICAL RESULTS**  
**76 Station 6034**

| Date<br>Sampled | TBA    | Ethanol<br>(8260B) | DIPE    | TAME    |
|-----------------|--------|--------------------|---------|---------|
|                 | (µg/l) | (µg/l)             | (µg/l)  | (µg/l)  |
| <b>MW-1</b>     |        |                    |         |         |
| 07/19/06        | ND<10  | ND<250             | ND<0.50 | ND<0.50 |
| <b>MW-2</b>     |        |                    |         |         |
| 07/19/06        | ND<10  | ND<250             | ND<0.50 | ND<0.50 |
| <b>MW-3</b>     |        |                    |         |         |
| 07/19/06        | ND<10  | ND<250             | ND<0.50 | ND<0.50 |
| <b>MW-4</b>     |        |                    |         |         |
| 07/19/06        | ND<10  | ND<250             | 2.2     | ND<0.50 |
| <b>MW-5</b>     |        |                    |         |         |
| 07/19/06        | ND<10  | ND<250             | ND<0.50 | ND<0.50 |
| <b>MW-7</b>     |        |                    |         |         |
| 07/19/06        | ND<10  | ND<250             | ND<0.50 | ND<0.50 |

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**November 1989 Through July 2006**  
**76 Station 6034**

| Date Sampled                                     | TOC Elevation<br>(feet) | Depth to Water<br>(feet) | LPH Thickness<br>(feet) | Ground-water Elevation<br>(feet) | Change in Elevation<br>(feet) | TPH-G (8015M)<br>(µg/l) | TPH-G (GC/MS)<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-benzene<br>(µg/l) | Total Xylenes<br>(µg/l) | MTBE (8021B)<br>(µg/l) | MTBE (8260B)<br>(µg/l) | Comments              |
|--------------------------------------------------|-------------------------|--------------------------|-------------------------|----------------------------------|-------------------------------|-------------------------|-------------------------|-------------------|-------------------|-------------------------|-------------------------|------------------------|------------------------|-----------------------|
| <b>MW-1 (Screen Interval in feet: 11.0-28.5)</b> |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                         |                         |                        |                        |                       |
| 11/18/89                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 03/08/90                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 06/05/90                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 09/07/90                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | 1.2               | ND                      | ND                      | --                     | --                     |                       |
| 12/24/90                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | 0.4                     | --                     | --                     |                       |
| 04/10/91                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 07/10/91                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 04/22/93                                         | 520.88                  | 15.47                    | 0.00                    | 505.41                           | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 07/20/93                                         | 520.88                  | 18.04                    | 0.00                    | 502.84                           | -2.57                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/20/93                                         | 520.64                  | 15.69                    | 0.00                    | 504.95                           | 2.11                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 01/20/94                                         | 520.64                  | 15.65                    | 0.00                    | 504.99                           | 0.04                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/21/94                                         | 520.64                  | 15.58                    | 0.00                    | 505.06                           | 0.07                          | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 07/21/94                                         | 520.64                  | 15.62                    | 0.00                    | 505.02                           | -0.04                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Sampled Annually      |
| 10/19/94                                         | 520.64                  | 15.28                    | 0.00                    | 505.36                           | 0.34                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 01/18/95                                         | 520.64                  | 14.56                    | 0.00                    | 506.08                           | 0.72                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/17/95                                         | 520.64                  | 14.82                    | 0.00                    | 505.82                           | -0.26                         | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 07/18/95                                         | 520.64                  | 14.78                    | 0.00                    | 505.86                           | 0.04                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/17/95                                         | 520.64                  | 14.83                    | 0.00                    | 505.81                           | -0.05                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 01/17/96                                         | 520.64                  | 14.96                    | 0.00                    | 505.68                           | -0.13                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/17/96                                         | 520.64                  | 14.47                    | 0.00                    | 506.17                           | 0.49                          | ND                      | --                      | ND                | ND                | ND                      | ND                      | ND                     | --                     |                       |
| 07/16/96                                         | 520.64                  | 14.57                    | 0.00                    | 506.07                           | -0.10                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/16/96                                         | 520.64                  | 14.50                    | 0.00                    | 506.14                           | 0.07                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/08/97                                         | 520.64                  | 15.05                    | 0.00                    | 505.59                           | -0.55                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Sampling Discontinued |

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**November 1989 Through July 2006**  
**76 Station 6034**

| Date Sampled                                     | TOC Elevation<br>(feet) | Depth to Water<br>(feet) | LPH Thickness<br>(feet) | Ground-water Elevation<br>(feet) | Change in Elevation<br>(feet) | TPH-G (8015M)<br>(µg/l) | TPH-G (GC/MS)<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-benzene<br>(µg/l) | Total Xylenes<br>(µg/l) | MTBE (8021B)<br>(µg/l) | MTBE (8260B)<br>(µg/l) | Comments              |
|--------------------------------------------------|-------------------------|--------------------------|-------------------------|----------------------------------|-------------------------------|-------------------------|-------------------------|-------------------|-------------------|-------------------------|-------------------------|------------------------|------------------------|-----------------------|
| <b>MW-1 continued</b>                            |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                         |                         |                        |                        |                       |
| 10/06/97                                         | 520.64                  | 15.00                    | 0.00                    | 505.64                           | 0.05                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/02/98                                         | 520.64                  | 14.80                    | 0.00                    | 505.84                           | 0.20                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/07/98                                         | 520.64                  | 14.72                    | 0.00                    | 505.92                           | 0.08                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/14/99                                         | 520.64                  | 14.89                    | 0.00                    | 505.75                           | -0.17                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/12/99                                         | 520.64                  | 14.79                    | 0.00                    | 505.85                           | 0.10                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/10/00                                         | 520.64                  | 14.93                    | 0.00                    | 505.71                           | -0.14                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/02/00                                         | 520.64                  | 15.18                    | 0.00                    | 505.46                           | -0.25                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/02/01                                         | 520.64                  | 14.72                    | 0.00                    | 505.92                           | 0.46                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/05/01                                         | 520.64                  | 15.51                    | 0.00                    | 505.13                           | -0.79                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/01/02                                         | 520.64                  | 15.40                    | 0.00                    | 505.24                           | 0.11                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/16/02                                         | 520.64                  | 15.54                    | 0.00                    | 505.10                           | -0.14                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/03/03                                         | 520.64                  | 15.41                    | 0.00                    | 505.23                           | 0.13                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/02/03                                         | 520.64                  | 15.58                    | 0.00                    | 505.06                           | -0.17                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored Only        |
| 04/30/04                                         | 520.64                  | 15.65                    | 0.00                    | 504.99                           | -0.07                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored only        |
| 12/01/04                                         | 520.64                  | 15.81                    | 0.00                    | 504.83                           | -0.16                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Sampled Semi-Annually |
| 06/13/05                                         | 520.64                  | 15.49                    | 0.00                    | 505.15                           | 0.32                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored Only        |
| 10/24/05                                         | 520.64                  | 15.63                    | 0.00                    | 505.01                           | -0.14                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored Only        |
| 06/23/06                                         | 520.64                  | 15.49                    | 0.00                    | 505.15                           | 0.14                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored Only        |
| 07/19/06                                         | 520.64                  | 15.48                    | 0.00                    | 505.16                           | 0.01                          | ND<50                   | --                      | ND<0.50           | ND<0.50           | ND<0.50                 | ND<0.50                 | --                     | ND<0.50                |                       |
| <b>MW-2 (Screen Interval in feet: 11.0-25.0)</b> |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                         |                         |                        |                        |                       |
| 11/18/89                                         | --                      | --                       | --                      | --                               | --                            | 53000                   | --                      | 540               | 500               | 130                     | 22000                   | --                     | --                     |                       |
| 03/08/90                                         | --                      | --                       | --                      | --                               | --                            | 26000                   | --                      | 230               | 410               | 1300                    | 2100                    | --                     | --                     |                       |
| 06/05/90                                         | --                      | --                       | --                      | --                               | --                            | 31000                   | --                      | 250               | 460               | 950                     | 9200                    | --                     | --                     |                       |
| 09/07/90                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | 1.5               | ND                      | ND                      | --                     | --                     |                       |

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**November 1989 Through July 2006**  
**76 Station 6034**

| Date Sampled          | TOC Elevation | Depth to Water | LPH Thickness | Ground-water Elevation | Change in Elevation | TPH-G (8015M) | TPH-G (GC/MS) | Benzene | Toluene | Ethyl-benzene | Total Xylenes | MTBE (8021B) | MTBE (8260B) | Comments |
|-----------------------|---------------|----------------|---------------|------------------------|---------------------|---------------|---------------|---------|---------|---------------|---------------|--------------|--------------|----------|
|                       | (feet)        | (feet)         | (feet)        | (feet)                 | (feet)              | (µg/l)        | (µg/l)        | (µg/l)  | (µg/l)  | (µg/l)        | (µg/l)        | (µg/l)       | (µg/l)       |          |
| <b>MW-2 continued</b> |               |                |               |                        |                     |               |               |         |         |               |               |              |              |          |
| 12/24/90              | --            | --             | --            | --                     | --                  | 32000         | --            | 440     | 340     | 460           | 13000         | --           | --           |          |
| 04/10/91              | --            | --             | --            | --                     | --                  | 22000         | --            | 170     | 190     | 490           | 6200          | --           | --           |          |
| 07/10/91              | --            | --             | --            | --                     | --                  | 14000         | --            | 70      | 160     | 570           | 5400          | --           | --           |          |
| 10/14/91              | --            | --             | --            | --                     | --                  | 11000         | --            | 79      | 130     | 660           | 4700          | --           | --           |          |
| 01/14/92              | --            | --             | --            | --                     | --                  | 5600          | --            | 36      | 120     | 450           | 2600          | --           | --           |          |
| 04/06/92              | --            | --             | --            | --                     | --                  | 760           | --            | 6.3     | 2.1     | ND            | 130           | --           | --           |          |
| 07/07/92              | --            | --             | --            | --                     | --                  | 44000         | --            | 160     | 1100    | 1000          | 17000         | --           | --           |          |
| 10/16/92              | --            | --             | --            | --                     | --                  | 290           | --            | 2.3     | ND      | 5.1           | 15            | --           | --           |          |
| 01/14/93              | --            | --             | --            | --                     | --                  | 19000         | --            | 75      | 430     | 900           | 8400          | --           | --           |          |
| 04/22/93              | 520.17        | 14.98          | 0.00          | 505.19                 | --                  | 49000         | --            | 150     | 1000    | 3000          | 18000         | --           | --           |          |
| 07/20/93              | 520.17        | 17.41          | 0.00          | 502.76                 | -2.43               | 25000         | --            | 68      | 94      | 1000          | 6200          | --           | --           |          |
| 10/20/93              | 519.82        | 15.08          | 0.00          | 504.74                 | 1.98                | 12000         | --            | 27      | 10      | 100           | 3000          | --           | --           |          |
| 01/20/94              | 519.82        | 15.02          | 0.00          | 504.80                 | 0.06                | 20000         | --            | ND      | ND      | 270           | 3300          | --           | --           |          |
| 04/21/94              | 519.82        | 14.96          | 0.00          | 504.86                 | 0.06                | 27000         | --            | 85      | 65      | 880           | 5300          | --           | --           |          |
| 07/21/94              | 519.82        | 14.99          | 0.00          | 504.83                 | -0.03               | 31000         | --            | 58      | 29      | 940           | 6200          | --           | --           |          |
| 10/19/94              | 519.82        | 14.80          | 0.00          | 505.02                 | 0.19                | 4100          | --            | 16      | 3.5     | 8.6           | 1100          | --           | --           |          |
| 01/18/95              | 519.82        | 14.10          | 0.00          | 505.72                 | 0.70                | 5100          | --            | 6.8     | 7.3     | 100           | 1500          | --           | --           |          |
| 04/17/95              | 519.82        | 14.13          | 0.00          | 505.69                 | -0.03               | 320           | --            | 1.3     | 0.67    | 6.6           | 74            | --           | --           |          |
| 07/18/95              | 519.82        | 14.11          | 0.00          | 505.71                 | 0.02                | 12000         | --            | 25      | 24      | 550           | 3700          | --           | --           |          |
| 10/17/95              | 519.82        | 14.15          | 0.00          | 505.67                 | -0.04               | 77000         | --            | 60      | 58      | 760           | 8300          | 220          | --           |          |
| 01/17/96              | 519.82        | 14.35          | 0.00          | 505.47                 | -0.20               | 7000          | --            | 15      | ND      | 150           | 1600          | 370          | --           |          |
| 04/17/96              | 519.82        | 13.93          | 0.00          | 505.89                 | 0.42                | 19000         | --            | ND      | ND      | 600           | 4900          | 6100         | --           |          |
| 07/16/96              | 519.82        | 14.00          | 0.00          | 505.82                 | -0.07               | 23000         | --            | 16      | 22      | 900           | 4500          | 410          | --           |          |
| 10/16/96              | 519.82        | 14.12          | 0.00          | 505.70                 | -0.12               | 14000         | --            | 28      | 31      | 1600          | 6900          | 9600         | --           |          |

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**November 1989 Through July 2006**  
**76 Station 6034**

| Date Sampled                                     | TOC Elevation<br>(feet) | Depth to Water<br>(feet) | LPH Thickness<br>(feet) | Ground-water Elevation<br>(feet) | Change in Elevation<br>(feet) | TPH-G (8015M)<br>(µg/l) | TPH-G (GC/MS)<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethylbenzene<br>(µg/l) | Total Xylenes<br>(µg/l) | MTBE (8021B)<br>(µg/l) | MTBE (8260B)<br>(µg/l) | Comments |
|--------------------------------------------------|-------------------------|--------------------------|-------------------------|----------------------------------|-------------------------------|-------------------------|-------------------------|-------------------|-------------------|------------------------|-------------------------|------------------------|------------------------|----------|
| <b>MW-2 continued</b>                            |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                        |                         |                        |                        |          |
| 01/13/97                                         | 519.82                  | --                       | --                      | --                               | --                            | 4300                    | --                      | 12                | 5.0               | 28                     | 890                     | 1300                   | --                     |          |
| 04/08/97                                         | 519.82                  | 14.49                    | 0.00                    | 505.33                           | --                            | 4700                    | --                      | ND                | 6.5               | 170                    | 830                     | 290                    | --                     |          |
| 10/06/97                                         | 519.82                  | 14.41                    | 0.00                    | 505.41                           | 0.08                          | 5800                    | --                      | 14                | ND                | 19                     | 860                     | 570                    | --                     |          |
| 04/02/98                                         | 519.82                  | 14.26                    | 0.00                    | 505.56                           | 0.15                          | 24000                   | --                      | ND                | ND                | 980                    | 5200                    | 6800                   | --                     |          |
| 10/07/98                                         | 519.82                  | 14.35                    | 0.00                    | 505.47                           | -0.09                         | 41000                   | --                      | ND                | ND                | 2100                   | 7800                    | 3700                   | 2700                   |          |
| 04/14/99                                         | 519.82                  | 14.54                    | 0.00                    | 505.28                           | -0.19                         | 720                     | --                      | 1.2               | ND                | 29                     | 260                     | 95                     | 57                     |          |
| 10/12/99                                         | 519.82                  | 14.50                    | 0.00                    | 505.32                           | 0.04                          | 2200                    | --                      | ND                | ND                | 78                     | 480                     | 52                     | 11                     |          |
| 04/10/00                                         | 519.82                  | 14.72                    | 0.00                    | 505.10                           | -0.22                         | ND                      | --                      | ND                | ND                | 0.815                  | 2.99                    | 28.5                   | 40.1                   |          |
| 10/02/00                                         | 519.82                  | 14.91                    | 0.00                    | 504.91                           | -0.19                         | ND                      | --                      | ND                | ND                | 0.71                   | 1.0                     | 9.2                    | 11                     |          |
| 04/02/01                                         | 519.82                  | 14.12                    | 0.00                    | 505.70                           | 0.79                          | ND                      | --                      | ND                | ND                | ND                     | ND                      | ND                     | ND                     |          |
| 10/05/01                                         | 519.82                  | 15.02                    | 0.00                    | 504.80                           | -0.90                         | 1300                    | --                      | 4.4               | ND<2.5            | 29                     | 79                      | ND<25                  | 12                     |          |
| 04/01/02                                         | 519.82                  | 14.94                    | 0.00                    | 504.88                           | 0.08                          | 3500                    | --                      | 5.1               | ND<5.0            | 120                    | 460                     | ND<50                  | 14                     |          |
| 10/16/02                                         | 519.82                  | 15.06                    | 0.00                    | 504.76                           | -0.12                         | 240                     | --                      | ND<0.50           | ND<0.50           | 8.2                    | 15                      | --                     | ND<2.0                 |          |
| 04/03/03                                         | 519.82                  | 14.96                    | 0.00                    | 504.86                           | 0.10                          | 1300                    | --                      | 1.5               | 1.8               | 23                     | 160                     | --                     | 6.6                    |          |
| 10/02/03                                         | 519.82                  | 15.11                    | 0.00                    | 504.71                           | -0.15                         | --                      | 15000                   | ND<13             | ND<13             | 290                    | 1400                    | --                     | ND<50                  |          |
| 04/30/04                                         | 519.82                  | 15.25                    | 0.00                    | 504.57                           | -0.14                         | --                      | 8000                    | ND<13             | ND<13             | 140                    | 550                     | --                     | ND<13                  |          |
| 12/01/04                                         | 519.82                  | 15.37                    | 0.00                    | 504.45                           | -0.12                         | --                      | 4700                    | ND<1.0            | ND<1.0            | 81                     | 240                     | --                     | 5.9                    |          |
| 06/13/05                                         | 519.82                  | 15.12                    | 0.00                    | 504.70                           | 0.25                          | --                      | 3300                    | ND<0.50           | ND<0.50           | 47                     | 200                     | --                     | 2.5                    |          |
| 10/24/05                                         | 519.82                  | 15.23                    | 0.00                    | 504.59                           | -0.11                         | --                      | 270                     | ND<0.50           | ND<0.50           | 4.6                    | 10                      | --                     | 1.5                    |          |
| 06/23/06                                         | 519.82                  | 15.13                    | 0.00                    | 504.69                           | 0.10                          | --                      | 160                     | ND<0.50           | ND<0.50           | 3.1                    | 8.1                     | --                     | 1.1                    |          |
| 07/19/06                                         | 519.82                  | 15.12                    | 0.00                    | 504.70                           | 0.01                          | 62                      | --                      | ND<0.50           | ND<0.50           | 2.1                    | 4.5                     | --                     | ND<0.50                |          |
| <b>MW-3 (Screen Interval in feet: 11.0-25.0)</b> |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                        |                         |                        |                        |          |
| 11/18/89                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | 0.35              | ND                | ND                     | ND                      | --                     | --                     |          |
| 03/08/90                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                     | ND                      | --                     | --                     |          |

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**November 1989 Through July 2006**  
**76 Station 6034**

| Date Sampled          | TOC Elevation<br>(feet) | Depth to Water<br>(feet) | LPH Thickness<br>(feet) | Ground-water Elevation<br>(feet) | Change in Elevation<br>(feet) | TPH-G (8015M)<br>(µg/l) | TPH-G (GC/MS)<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-benzene<br>(µg/l) | Total Xylenes<br>(µg/l) | MTBE (8021B)<br>(µg/l) | MTBE (8260B)<br>(µg/l) | Comments              |
|-----------------------|-------------------------|--------------------------|-------------------------|----------------------------------|-------------------------------|-------------------------|-------------------------|-------------------|-------------------|-------------------------|-------------------------|------------------------|------------------------|-----------------------|
| <b>MW-3 continued</b> |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                         |                         |                        |                        |                       |
| 06/05/90              | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 09/07/90              | --                      | --                       | --                      | --                               | --                            | 1100                    | --                      | 11                | ND                | 6.6                     | 16                      | --                     | --                     |                       |
| 12/24/90              | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 04/10/91              | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 07/10/91              | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 10/14/91              | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 01/14/92              | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 04/06/92              | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 07/07/92              | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 10/16/92              | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 01/14/93              | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 04/22/93              | 519.91                  | 14.33                    | 0.00                    | 505.58                           | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 07/20/93              | 519.91                  | 16.90                    | 0.00                    | 503.01                           | -2.57                         | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 10/20/93              | 519.66                  | 14.42                    | 0.00                    | 505.24                           | 2.23                          | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 01/20/94              | 519.66                  | 14.37                    | 0.00                    | 505.29                           | 0.05                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Sampled Annually      |
| 04/21/94              | 519.66                  | 14.30                    | 0.00                    | 505.36                           | 0.07                          | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 07/21/94              | 519.66                  | 14.34                    | 0.00                    | 505.32                           | -0.04                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Sampled Semi-Annually |
| 10/19/94              | 519.66                  | 14.08                    | 0.00                    | 505.58                           | 0.26                          | ND                      | --                      | ND                | 0.61              | ND                      | 0.51                    | --                     | --                     |                       |
| 01/18/95              | 519.66                  | 13.23                    | 0.00                    | 506.43                           | 0.85                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/17/95              | 519.66                  | 13.20                    | 0.00                    | 506.46                           | 0.03                          | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 07/18/95              | 519.66                  | 13.19                    | 0.00                    | 506.47                           | 0.01                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/17/95              | 519.66                  | 13.24                    | 0.00                    | 506.42                           | -0.05                         | ND                      | --                      | ND                | ND                | ND                      | ND                      | ND                     | --                     | Sampled Annually      |
| 01/17/96              | 519.66                  | 13.68                    | 0.00                    | 505.98                           | -0.44                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/17/96              | 519.66                  | 13.04                    | 0.00                    | 506.62                           | 0.64                          | ND                      | --                      | ND                | ND                | ND                      | ND                      | ND                     | --                     |                       |

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**November 1989 Through July 2006**  
**76 Station 6034**

| Date Sampled                                     | TOC Elevation<br>(feet) | Depth to Water<br>(feet) | LPH Thickness<br>(feet) | Ground-water Elevation<br>(feet) | Change in Elevation<br>(feet) | TPH-G (8015M)<br>(µg/l) | TPH-G (GC/MS)<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-benzene<br>(µg/l) | Total Xylenes<br>(µg/l) | MTBE (8021B)<br>(µg/l) | MTBE (8260B)<br>(µg/l) | Comments              |
|--------------------------------------------------|-------------------------|--------------------------|-------------------------|----------------------------------|-------------------------------|-------------------------|-------------------------|-------------------|-------------------|-------------------------|-------------------------|------------------------|------------------------|-----------------------|
| <b>MW-3 continued</b>                            |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                         |                         |                        |                        |                       |
| 07/16/96                                         | 519.66                  | 13.24                    | 0.00                    | 506.42                           | -0.20                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/16/96                                         | 519.66                  | 13.10                    | 0.00                    | 506.56                           | 0.14                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/08/97                                         | 519.66                  | 13.73                    | 0.00                    | 505.93                           | -0.63                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Sampling Discontinued |
| 10/06/97                                         | 519.66                  | 13.70                    | 0.00                    | 505.96                           | 0.03                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/02/98                                         | 519.66                  | 13.43                    | 0.00                    | 506.23                           | 0.27                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/07/98                                         | 519.66                  | 13.33                    | 0.00                    | 506.33                           | 0.10                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/14/99                                         | 519.66                  | 13.47                    | 0.00                    | 506.19                           | -0.14                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/12/99                                         | 519.66                  | 13.38                    | 0.00                    | 506.28                           | 0.09                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/10/00                                         | 519.66                  | 13.51                    | 0.00                    | 506.15                           | -0.13                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/02/00                                         | 519.66                  | 13.62                    | 0.00                    | 506.04                           | -0.11                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/02/01                                         | 519.66                  | 13.38                    | 0.00                    | 506.28                           | 0.24                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/05/01                                         | 519.66                  | 14.10                    | 0.00                    | 505.56                           | -0.72                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/01/02                                         | 519.66                  | 13.98                    | 0.00                    | 505.68                           | 0.12                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/16/02                                         | 519.66                  | 14.16                    | 0.00                    | 505.50                           | -0.18                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/03/03                                         | 519.66                  | 13.98                    | 0.00                    | 505.68                           | 0.18                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/02/03                                         | 519.66                  | 14.15                    | 0.00                    | 505.51                           | -0.17                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored Only        |
| 04/30/04                                         | 519.66                  | 14.20                    | 0.00                    | 505.46                           | -0.05                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored only        |
| 12/01/04                                         | 519.66                  | 14.37                    | 0.00                    | 505.29                           | -0.17                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Sampled Semi-Annually |
| 06/13/05                                         | 519.66                  | 13.98                    | 0.00                    | 505.68                           | 0.39                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored Only        |
| 10/24/05                                         | 519.66                  | 14.17                    | 0.00                    | 505.49                           | -0.19                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored Only        |
| 06/23/06                                         | 519.66                  | 13.98                    | 0.00                    | 505.68                           | 0.19                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored Only        |
| 07/19/06                                         | 519.66                  | 13.96                    | 0.00                    | 505.70                           | 0.02                          | ND<50                   | --                      | ND<0.50           | ND<0.50           | ND<0.50                 | ND<0.50                 | --                     | ND<0.50                |                       |
| <b>MW-4 (Screen Interval in feet: 11.0-25.0)</b> |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                         |                         |                        |                        |                       |
| 11/18/89                                         | --                      | --                       | --                      | --                               | --                            | 990                     | --                      | 9.8               | 10                | 7.1                     | 4.7                     | --                     | --                     |                       |

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**November 1989 Through July 2006**  
**76 Station 6034**

| Date Sampled          | TOC Elevation<br>(feet) | Depth to Water<br>(feet) | LPH Thickness<br>(feet) | Ground-water Elevation<br>(feet) | Change in Elevation<br>(feet) | TPH-G (8015M)<br>(µg/l) | TPH-G (GC/MS)<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-benzene<br>(µg/l) | Total Xylenes<br>(µg/l) | MTBE (8021B)<br>(µg/l) | MTBE (8260B)<br>(µg/l) | Comments                             |
|-----------------------|-------------------------|--------------------------|-------------------------|----------------------------------|-------------------------------|-------------------------|-------------------------|-------------------|-------------------|-------------------------|-------------------------|------------------------|------------------------|--------------------------------------|
| <b>MW-4 continued</b> |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                         |                         |                        |                        |                                      |
| 03/08/90              | --                      | --                       | --                      | --                               | --                            | 1200                    | --                      | 18                | 8.4               | 37                      | 28                      | --                     | --                     |                                      |
| 06/05/90              | --                      | --                       | --                      | --                               | --                            | 1400                    | --                      | 1.2               | 4.7               | 24                      | 12                      | --                     | --                     |                                      |
| 09/07/90              | --                      | --                       | --                      | --                               | --                            | 15000                   | --                      | 100               | 140               | 210                     | 4600                    | --                     | --                     |                                      |
| 12/24/90              | --                      | --                       | --                      | --                               | --                            | 1400                    | --                      | ND                | 8.7               | 15                      | 10                      | --                     | --                     |                                      |
| 04/10/91              | --                      | --                       | --                      | --                               | --                            | 950                     | --                      | 0.84              | 4.3               | 9.6                     | 5.0                     | --                     | --                     |                                      |
| 07/10/91              | --                      | --                       | --                      | --                               | --                            | 830                     | --                      | 8.4               | 19                | 7.7                     | 7.2                     | --                     | --                     |                                      |
| 10/14/91              | --                      | --                       | --                      | --                               | --                            | 880                     | --                      | 3.8               | 2.2               | 8.6                     | 5.8                     | --                     | --                     |                                      |
| 01/14/92              | --                      | --                       | --                      | --                               | --                            | 1500                    | --                      | 4.2               | 7.1               | 18                      | 9.2                     | --                     | --                     |                                      |
| 04/06/92              | --                      | --                       | --                      | --                               | --                            | 660                     | --                      | 1.3               | 3.8               | 2.9                     | 4.1                     | --                     | --                     |                                      |
| 07/07/92              | --                      | --                       | --                      | --                               | --                            | 340                     | --                      | ND                | 2.2               | 2.4                     | 2.4                     | --                     | --                     |                                      |
| 10/16/92              | --                      | --                       | --                      | --                               | --                            | 300                     | --                      | 2.1               | ND                | 4.8                     | 13                      | --                     | --                     |                                      |
| 01/14/93              | --                      | --                       | --                      | --                               | --                            | 920                     | --                      | ND                | 6.3               | 12                      | 3.9                     | --                     | --                     |                                      |
| 04/22/93              | 520.12                  | 14.30                    | 0.00                    | 505.82                           | --                            | 1100                    | --                      | 8.8               | 1.0               | 7.2                     | 6.0                     | --                     | --                     |                                      |
| 07/20/93              | 520.12                  | 16.35                    | 0.00                    | 503.77                           | -2.05                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Not sampled - Sampling access denied |
| 10/20/93              | 519.61                  | 14.16                    | 0.00                    | 505.45                           | 1.68                          | 640                     | --                      | ND                | 2.5               | 2.3                     | 1.9                     | --                     | --                     |                                      |
| 01/20/94              | 519.61                  | 14.15                    | 0.00                    | 505.46                           | 0.01                          | 1200                    | --                      | ND                | 2.6               | 4.7                     | 7.4                     | --                     | --                     |                                      |
| 04/21/94              | 519.61                  | 14.13                    | 0.00                    | 505.48                           | 0.02                          | 380                     | --                      | 0.83              | 1.2               | 1.2                     | 1.7                     | --                     | --                     |                                      |
| 07/21/94              | 519.61                  | 14.26                    | 0.00                    | 505.35                           | -0.13                         | 320                     | --                      | 0.51              | 1.4               | 1.0                     | 1.6                     | --                     | --                     |                                      |
| 10/19/94              | 519.61                  | 13.95                    | 0.00                    | 505.66                           | 0.31                          | 750                     | --                      | ND                | 3.6               | 4.2                     | 3.4                     | --                     | --                     |                                      |
| 01/18/95              | 519.61                  | 13.16                    | 0.00                    | 506.45                           | 0.79                          | 790                     | --                      | 1.5               | 3.3               | 1.2                     | 2.6                     | --                     | --                     |                                      |
| 04/17/95              | 519.61                  | 13.19                    | 0.00                    | 506.42                           | -0.03                         | 570                     | --                      | 2.8               | ND                | 3.3                     | 3.9                     | --                     | --                     |                                      |
| 07/18/95              | 519.61                  | 13.21                    | 0.00                    | 506.40                           | -0.02                         | 340                     | --                      | 1.0               | 1.9               | 2.8                     | 2.7                     | --                     | --                     |                                      |
| 10/17/95              | 519.61                  | 13.22                    | 0.00                    | 506.39                           | -0.01                         | 260                     | --                      | 1.1               | 0.57              | 0.69                    | 1.6                     | 2.0                    | --                     |                                      |

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**November 1989 Through July 2006**  
**76 Station 6034**

| Date Sampled          | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G (8015M) (µg/l) | TPH-G (GC/MS) (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl-benzene (µg/l) | Total Xylenes (µg/l) | MTBE (8021B) (µg/l) | MTBE (8260B) (µg/l) | Comments              |
|-----------------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------------|----------------------|----------------------|----------------|----------------|----------------------|----------------------|---------------------|---------------------|-----------------------|
| <b>MW-4 continued</b> |                      |                       |                      |                               |                            |                      |                      |                |                |                      |                      |                     |                     |                       |
| 01/17/96              | 519.61               | 13.02                 | 0.00                 | 506.59                        | 0.20                       | --                   | --                   | --             | --             | --                   | --                   | --                  | --                  | Sampled Semi-Annually |
| 04/17/96              | 519.61               | 13.08                 | 0.00                 | 506.53                        | -0.06                      | 720                  | --                   | 3.0            | 2.6            | 6.1                  | 6.9                  | ND                  | --                  |                       |
| 07/16/96              | 519.61               | 12.91                 | 0.00                 | 506.70                        | 0.17                       | --                   | --                   | --             | --             | --                   | --                   | --                  | --                  |                       |
| 10/16/96              | 519.61               | 12.98                 | 0.00                 | 506.63                        | -0.07                      | 1100                 | --                   | 6.6            | 23             | 24                   | 85                   | 15                  | --                  |                       |
| 01/13/97              | 519.61               | --                    | 0.00                 | --                            | --                         | --                   | --                   | --             | --             | --                   | --                   | --                  | --                  |                       |
| 04/08/97              | 519.61               | 13.36                 | 0.00                 | 506.25                        | --                         | 470                  | --                   | 1.2            | 1.9            | 1.2                  | 6.9                  | ND                  | --                  |                       |
| 10/06/97              | 519.61               | 13.42                 | 0.00                 | 506.19                        | -0.06                      | 240                  | --                   | ND             | 0.85           | 0.83                 | 2.3                  | ND                  | --                  |                       |
| 04/02/98              | 519.61               | 12.76                 | 0.00                 | 506.85                        | 0.66                       | 270                  | --                   | ND             | 1.2            | ND                   | 4.5                  | 10                  | --                  |                       |
| 10/07/98              | 519.61               | 13.04                 | 0.00                 | 506.57                        | -0.28                      | 350                  | --                   | ND             | ND             | ND                   | 4.8                  | ND                  | --                  |                       |
| 04/14/99              | 519.61               | 13.21                 | 0.00                 | 506.40                        | -0.17                      | 250                  | --                   | 1.6            | ND             | 3.1                  | 5.6                  | ND                  | 16                  |                       |
| 10/12/99              | 519.61               | 13.16                 | 0.00                 | 506.45                        | 0.05                       | 200                  | --                   | 1.4            | ND             | 2.3                  | 3.9                  | ND                  | --                  |                       |
| 04/10/00              | 519.61               | 13.48                 | 0.00                 | 506.13                        | -0.32                      | 52.8                 | --                   | ND             | ND             | ND                   | ND                   | ND                  | --                  |                       |
| 10/02/00              | 519.61               | 13.25                 | 0.00                 | 506.36                        | 0.23                       | 57                   | --                   | ND             | ND             | 0.50                 | 0.90                 | 30                  | --                  |                       |
| 04/02/01              | 519.61               | 13.11                 | 0.00                 | 506.50                        | 0.14                       | ND                   | --                   | ND             | ND             | ND                   | ND                   | ND                  | --                  |                       |
| 10/05/01              | 519.61               | 14.04                 | 0.00                 | 505.57                        | -0.93                      | 150                  | --                   | ND<0.50        | ND<0.50        | ND<0.50              | ND<0.50              | ND<5.0              | --                  |                       |
| 04/01/02              | 519.61               | 13.76                 | 0.00                 | 505.85                        | 0.28                       | 130                  | --                   | ND<0.50        | ND<0.50        | ND<0.50              | ND<0.50              | ND<5.0              | --                  |                       |
| 10/16/02              | 519.61               | 14.10                 | 0.00                 | 505.51                        | -0.34                      | 130                  | --                   | ND<0.50        | ND<0.50        | ND<0.50              | ND<1.0               | --                  | 3.8                 |                       |
| 04/03/03              | 519.61               | 13.69                 | 0.00                 | 505.92                        | 0.41                       | ND<50                | --                   | ND<0.50        | ND<0.50        | ND<0.50              | ND<1.0               | --                  | 3.6                 |                       |
| 10/02/03              | 519.61               | 14.20                 | 0.00                 | 505.41                        | -0.51                      | --                   | 81                   | ND<0.50        | 0.86           | 4.1                  | 9.4                  | --                  | ND<2.0              |                       |
| 04/30/04              | 519.61               | 14.12                 | 0.00                 | 505.49                        | 0.08                       | --                   | 51                   | ND<0.50        | ND<0.50        | ND<0.50              | ND<1.0               | --                  | 1.5                 |                       |
| 12/01/04              | 519.61               | 14.17                 | 0.00                 | 505.44                        | -0.05                      | --                   | 130                  | ND<0.50        | ND<0.50        | ND<0.50              | ND<1.0               | --                  | 1.6                 |                       |
| 06/13/05              | 519.61               | 13.68                 | 0.00                 | 505.93                        | 0.49                       | --                   | 69                   | ND<0.50        | ND<0.50        | ND<0.50              | ND<1.0               | --                  | 0.60                |                       |
| 10/24/05              | 519.61               | 14.01                 | 0.00                 | 505.60                        | -0.33                      | --                   | 66                   | ND<0.50        | ND<0.50        | ND<0.50              | ND<1.0               | --                  | ND<0.50             |                       |
| 06/23/06              | 519.61               | 13.68                 | 0.00                 | 505.93                        | 0.33                       | --                   | ND<50                | ND<0.50        | ND<0.50        | ND<0.50              | ND<1.0               | --                  | ND<0.50             |                       |

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**November 1989 Through July 2006**  
**76 Station 6034**

| Date Sampled                                     | TOC Elevation<br>(feet) | Depth to Water<br>(feet) | LPH Thickness<br>(feet) | Ground-water Elevation<br>(feet) | Change in Elevation<br>(feet) | TPH-G (8015M)<br>(µg/l) | TPH-G (GC/MS)<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-benzene<br>(µg/l) | Total Xylenes<br>(µg/l) | MTBE (8021B)<br>(µg/l) | MTBE (8260B)<br>(µg/l) | Comments         |
|--------------------------------------------------|-------------------------|--------------------------|-------------------------|----------------------------------|-------------------------------|-------------------------|-------------------------|-------------------|-------------------|-------------------------|-------------------------|------------------------|------------------------|------------------|
| <b>MW-4 continued</b>                            |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                         |                         |                        |                        |                  |
| 07/19/06                                         | 519.61                  | 13.62                    | 0.00                    | 505.99                           | 0.06                          | ND<50                   | --                      | ND<0.50           | ND<0.50           | ND<0.50                 | ND<0.50                 | --                     | ND<0.50                |                  |
| <b>MW-5 (Screen Interval in feet: 10.0-24.0)</b> |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                         |                         |                        |                        |                  |
| 04/10/91                                         | --                      | --                       | --                      | --                               | --                            | 630                     | --                      | 35                | 14                | 47                      | 30                      | --                     | --                     |                  |
| 07/10/91                                         | --                      | --                       | --                      | --                               | --                            | 220                     | --                      | 5.1               | 8.7               | 9.1                     | 9.7                     | --                     | --                     |                  |
| 10/14/91                                         | --                      | --                       | --                      | --                               | --                            | 660                     | --                      | 55                | 4.4               | 50                      | 66                      | --                     | --                     |                  |
| 01/14/92                                         | --                      | --                       | --                      | --                               | --                            | 99                      | --                      | 1.0               | 1.2               | ND                      | 0.32                    | 1.2                    | --                     |                  |
| 04/06/92                                         | --                      | --                       | --                      | --                               | --                            | 240                     | --                      | ND                | ND                | 0.35                    | ND                      | --                     | --                     |                  |
| 07/07/92                                         | --                      | --                       | --                      | --                               | --                            | 76                      | --                      | 0.48              | 1.1               | 0.32                    | 1.3                     | 1.5                    | --                     |                  |
| 10/16/92                                         | --                      | --                       | --                      | --                               | --                            | 180                     | --                      | 7.8               | 1.1               | 17                      | 6.4                     | 2.0                    | --                     |                  |
| 01/14/93                                         | --                      | --                       | --                      | --                               | --                            | 91                      | --                      | ND                | 0.53              | 1.2                     | 11                      | --                     | --                     |                  |
| 04/22/93                                         | 520.58                  | 15.24                    | 0.00                    | 505.34                           | --                            | 94                      | --                      | 1.2               | ND                | ND                      | 1.3                     | 0.82                   | --                     |                  |
| 07/20/93                                         | 520.58                  | 17.38                    | 0.00                    | 503.20                           | -2.14                         | 89                      | --                      | 1.1               | 0.51              | ND                      | 1.8                     | 2.2                    | --                     |                  |
| 10/20/93                                         | 520.27                  | 15.56                    | 0.00                    | 504.71                           | 1.51                          | 110                     | --                      | 0.8               | ND                | ND                      | ND                      | --                     | --                     |                  |
| 01/20/94                                         | 520.27                  | 15.39                    | 0.00                    | 504.88                           | 0.17                          | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                  |
| 04/21/94                                         | 520.27                  | 15.41                    | 0.00                    | 504.86                           | -0.02                         | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                  |
| 07/21/94                                         | 520.27                  | 15.55                    | 0.00                    | 504.72                           | -0.14                         | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                  |
| 10/19/94                                         | 520.27                  | 15.20                    | 0.00                    | 505.07                           | 0.35                          | ND                      | --                      | ND                | 0.71              | ND                      | 0.57                    | --                     | --                     |                  |
| 01/18/95                                         | 520.27                  | 14.52                    | 0.00                    | 505.75                           | 0.68                          | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                  |
| 04/17/95                                         | 520.27                  | 14.50                    | 0.00                    | 505.77                           | 0.02                          | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                  |
| 07/18/95                                         | 520.27                  | 14.41                    | 0.00                    | 505.86                           | 0.09                          | ND                      | --                      | ND                | ND                | ND                      | 1.1                     | --                     | --                     |                  |
| 10/17/95                                         | 520.27                  | 14.46                    | 0.00                    | 505.81                           | -0.05                         | ND                      | --                      | ND                | ND                | ND                      | ND                      | ND                     | --                     |                  |
| 01/17/96                                         | 520.27                  | 14.48                    | 0.00                    | 505.79                           | -0.02                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Sampled Annually |
| 04/17/96                                         | 520.27                  | 14.22                    | 0.00                    | 506.05                           | 0.26                          | ND                      | --                      | ND                | ND                | ND                      | ND                      | ND                     | --                     |                  |
| 07/16/96                                         | 520.27                  | 14.27                    | 0.00                    | 506.00                           | -0.05                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                  |

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**November 1989 Through July 2006**  
**76 Station 6034**

| Date Sampled                                     | TOC Elevation<br>(feet) | Depth to Water<br>(feet) | LPH Thickness<br>(feet) | Ground-water Elevation<br>(feet) | Change in Elevation<br>(feet) | TPH-G (8015M)<br>(µg/l) | TPH-G (GC/MS)<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-benzene<br>(µg/l) | Total Xylenes<br>(µg/l) | MTBE (8021B)<br>(µg/l) | MTBE (8260B)<br>(µg/l) | Comments              |
|--------------------------------------------------|-------------------------|--------------------------|-------------------------|----------------------------------|-------------------------------|-------------------------|-------------------------|-------------------|-------------------|-------------------------|-------------------------|------------------------|------------------------|-----------------------|
| <b>MW-5 continued</b>                            |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                         |                         |                        |                        |                       |
| 10/16/96                                         | 520.27                  | 14.15                    | 0.00                    | 506.12                           | 0.12                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/08/97                                         | 520.27                  | 14.71                    | 0.00                    | 505.56                           | -0.56                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Sampling Discontinued |
| 10/06/97                                         | 520.27                  | 14.71                    | 0.00                    | 505.56                           | 0.00                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/02/98                                         | 520.27                  | 14.28                    | 0.00                    | 505.99                           | 0.43                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/07/98                                         | 520.27                  | 14.40                    | 0.00                    | 505.87                           | -0.12                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/14/99                                         | 520.27                  | 14.63                    | 0.00                    | 505.64                           | -0.23                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/12/99                                         | 520.27                  | 14.48                    | 0.00                    | 505.79                           | 0.15                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/10/00                                         | 520.27                  | 14.76                    | 0.00                    | 505.51                           | -0.28                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/02/00                                         | 520.27                  | 14.65                    | 0.00                    | 505.62                           | 0.11                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/02/01                                         | 520.27                  | 14.20                    | 0.00                    | 506.07                           | 0.45                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/05/01                                         | 520.27                  | 15.47                    | 0.00                    | 504.80                           | -1.27                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/01/02                                         | 520.27                  | 15.18                    | 0.00                    | 505.09                           | 0.29                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/16/02                                         | 520.27                  | 15.50                    | 0.00                    | 504.77                           | -0.32                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/03/03                                         | 520.27                  | 15.14                    | 0.00                    | 505.13                           | 0.36                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/02/03                                         | 520.27                  | 15.66                    | 0.00                    | 504.61                           | -0.52                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored Only        |
| 04/30/04                                         | 520.27                  | 15.55                    | 0.00                    | 504.72                           | 0.11                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored only        |
| 12/01/04                                         | 520.27                  | 15.62                    | 0.00                    | 504.65                           | -0.07                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Sampled Semi-Annually |
| 06/13/05                                         | 520.27                  | 15.31                    | 0.00                    | 504.96                           | 0.31                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored Only        |
| 10/24/05                                         | 520.27                  | 15.51                    | 0.00                    | 504.76                           | -0.20                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored Only        |
| 06/23/06                                         | 520.27                  | 15.29                    | 0.00                    | 504.98                           | 0.22                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored Only        |
| 07/19/06                                         | 520.27                  | 15.31                    | 0.00                    | 504.96                           | -0.02                         | 140                     | --                      | ND<0.50           | ND<0.50           | ND<0.50                 | ND<0.50                 | --                     | ND<0.50                |                       |
| <b>MW-6 (Screen Interval in feet: 10.0-24.0)</b> |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                         |                         |                        |                        |                       |
| 04/10/91                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |
| 07/10/91                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                       |

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**November 1989 Through July 2006**  
**76 Station 6034**

| Date Sampled          | TOC Elevation<br>(feet) | Depth to Water<br>(feet) | LPH Thickness<br>(feet) | Ground-water Elevation<br>(feet) | Change in Elevation<br>(feet) | TPH-G (8015M)<br>(µg/l) | TPH-G (GC/MS)<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-benzene<br>(µg/l) | Total Xylenes<br>(µg/l) | MTBE (8021B)<br>(µg/l) | MTBE (8260B)<br>(µg/l) | Comments                                  |
|-----------------------|-------------------------|--------------------------|-------------------------|----------------------------------|-------------------------------|-------------------------|-------------------------|-------------------|-------------------|-------------------------|-------------------------|------------------------|------------------------|-------------------------------------------|
| <b>MW-6 continued</b> |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                         |                         |                        |                        |                                           |
| 10/14/91              | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                                           |
| 01/14/92              | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                                           |
| 04/06/92              | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                                           |
| 07/07/92              | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                                           |
| 10/16/92              | --                      | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Obstructed                                |
| 01/14/93              | --                      | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Obstructed                                |
| 04/22/93              | 519.34                  | --                       | 0.00                    | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Obstructed                                |
| 07/20/93              | 519.34                  | --                       | 0.00                    | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Obstructed                                |
| 10/20/93              | 518.75                  | 14.20                    | 0.00                    | 504.55                           | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                                           |
| 01/20/94              | 518.75                  | 14.14                    | 0.00                    | 504.61                           | 0.06                          | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                                           |
| 04/21/94              | 518.75                  | 14.10                    | 0.00                    | 504.65                           | 0.04                          | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                                           |
| 07/21/94              | 518.75                  | 14.12                    | 0.00                    | 504.63                           | -0.02                         | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                                           |
| 10/19/94              | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Obstructed by roots                       |
| 01/18/95              | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Obstructed by roots                       |
| 04/17/95              | 518.75                  | 13.82                    | 0.00                    | 504.93                           | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                                           |
| 07/18/95              | 518.75                  | 13.84                    | 0.00                    | 504.91                           | -0.02                         | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                                           |
| 10/17/95              | 518.75                  | 13.90                    | 0.00                    | 504.85                           | -0.06                         | ND                      | --                      | ND                | ND                | ND                      | ND                      | 2.2                    | --                     |                                           |
| 01/17/96              | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Sampled Annually -<br>Obstructed by roots |
| 04/17/96              | 518.75                  | 13.66                    | 0.00                    | 505.09                           | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | ND                     | --                     |                                           |
| 07/16/96              | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Obstructed by roots                       |
| 10/16/96              | 518.75                  | 13.72                    | 0.00                    | 505.03                           | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                                           |
| 04/08/97              | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Obstructed by roots                       |
| 10/06/97              | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Obstructed by roots                       |

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**November 1989 Through July 2006**  
**76 Station 6034**

| Date Sampled                                     | TOC Elevation<br>(feet) | Depth to Water<br>(feet) | LPH Thickness<br>(feet) | Ground-water Elevation<br>(feet) | Change in Elevation<br>(feet) | TPH-G (8015M)<br>(µg/l) | TPH-G (GC/MS)<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-benzene<br>(µg/l) | Total Xylenes<br>(µg/l) | MTBE (8021B)<br>(µg/l) | MTBE (8260B)<br>(µg/l) | Comments            |
|--------------------------------------------------|-------------------------|--------------------------|-------------------------|----------------------------------|-------------------------------|-------------------------|-------------------------|-------------------|-------------------|-------------------------|-------------------------|------------------------|------------------------|---------------------|
| <b>MW-6 continued</b>                            |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                         |                         |                        |                        |                     |
| 04/02/98                                         | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Obstructed by roots |
| 10/07/98                                         | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Obstructed by roots |
| 04/14/99                                         | 518.75                  | 13.82                    | 0.00                    | 504.93                           | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                     |
| 10/12/99                                         | 518.75                  | 13.72                    | 0.00                    | 505.03                           | 0.10                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                     |
| 04/10/00                                         | 518.75                  | 13.40                    | 0.00                    | 505.35                           | 0.32                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                     |
| 10/02/00                                         | 518.75                  | 13.63                    | 0.00                    | 505.12                           | -0.23                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                     |
| 04/02/01                                         | 518.75                  | 13.31                    | 0.00                    | 505.44                           | 0.32                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                     |
| 10/05/01                                         | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Obstruction in Well |
| 04/01/02                                         | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Obstruction in Well |
| 10/16/02                                         | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Dry                 |
| 04/03/03                                         | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Dry                 |
| 10/02/03                                         | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Inaccessible        |
| 04/30/04                                         | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Unable to locate    |
| 12/01/04                                         | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Dry well            |
| 06/13/05                                         | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Dry well            |
| 10/24/05                                         | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Dry well            |
| 06/23/06                                         | 518.75                  | --                       | --                      | --                               | --                            | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Dry well            |
| <b>MW-7 (Screen Interval in feet: 10.0-24.0)</b> |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                         |                         |                        |                        |                     |
| 04/10/91                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                     |
| 07/10/91                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                     |
| 10/14/91                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                     |
| 01/14/92                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                     |
| 04/06/92                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                     |
| 07/07/92                                         | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                      | ND                      | --                     | --                     |                     |

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**November 1989 Through July 2006**  
**76 Station 6034**

| Date Sampled          | TOC Elevation<br>(feet) | Depth to Water<br>(feet) | LPH Thickness<br>(feet) | Ground-water Elevation<br>(feet) | Change in Elevation<br>(feet) | TPH-G (8015M)<br>(µg/l) | TPH-G (GC/MS)<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethylbenzene<br>(µg/l) | Total Xylenes<br>(µg/l) | MTBE (8021B)<br>(µg/l) | MTBE (8260B)<br>(µg/l) | Comments              |
|-----------------------|-------------------------|--------------------------|-------------------------|----------------------------------|-------------------------------|-------------------------|-------------------------|-------------------|-------------------|------------------------|-------------------------|------------------------|------------------------|-----------------------|
| <b>MW-7 continued</b> |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                        |                         |                        |                        |                       |
| 10/16/92              | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                     | ND                      | --                     | --                     |                       |
| 01/14/93              | --                      | --                       | --                      | --                               | --                            | ND                      | --                      | ND                | ND                | ND                     | ND                      | --                     | --                     |                       |
| 04/22/93              | 519.37                  | 14.25                    | 0.00                    | 505.12                           | --                            | ND                      | --                      | ND                | ND                | ND                     | ND                      | --                     | --                     |                       |
| 07/20/93              | 519.37                  | 16.68                    | 0.00                    | 502.69                           | -2.43                         | ND                      | --                      | ND                | ND                | ND                     | ND                      | --                     | --                     |                       |
| 10/20/93              | 518.83                  | 14.29                    | 0.00                    | 504.54                           | 1.85                          | ND                      | --                      | ND                | ND                | ND                     | ND                      | --                     | --                     |                       |
| 01/20/94              | 518.83                  | 14.22                    | 0.00                    | 504.61                           | 0.07                          | ND                      | --                      | ND                | ND                | ND                     | ND                      | --                     | --                     |                       |
| 04/21/94              | 518.83                  | 14.17                    | 0.00                    | 504.66                           | 0.05                          | ND                      | --                      | ND                | ND                | ND                     | ND                      | --                     | --                     |                       |
| 07/21/94              | 518.83                  | 14.21                    | 0.00                    | 504.62                           | -0.04                         | ND                      | --                      | ND                | ND                | ND                     | ND                      | --                     | --                     |                       |
| 10/19/94              | 518.83                  | 14.05                    | 0.00                    | 504.78                           | 0.16                          | ND                      | --                      | ND                | 0.87              | ND                     | 0.61                    | --                     | --                     |                       |
| 01/18/95              | 518.83                  | 13.34                    | 0.00                    | 505.49                           | 0.71                          | ND                      | --                      | ND                | ND                | ND                     | ND                      | --                     | --                     |                       |
| 04/17/95              | 518.83                  | 13.38                    | 0.00                    | 505.45                           | -0.04                         | ND                      | --                      | ND                | ND                | ND                     | ND                      | --                     | --                     |                       |
| 07/18/95              | 518.83                  | 13.36                    | 0.00                    | 505.47                           | 0.02                          | ND                      | --                      | ND                | ND                | ND                     | ND                      | --                     | --                     |                       |
| 10/17/95              | 518.83                  | 13.41                    | 0.00                    | 505.42                           | -0.05                         | ND                      | --                      | ND                | ND                | ND                     | ND                      | 3.5                    | --                     |                       |
| 01/17/96              | 518.83                  | 13.56                    | 0.00                    | 505.27                           | -0.15                         | --                      | --                      | --                | --                | --                     | --                      | --                     | --                     | Sampled Annually      |
| 04/17/96              | 518.83                  | 13.21                    | 0.00                    | 505.62                           | 0.35                          | ND                      | --                      | ND                | ND                | ND                     | ND                      | ND                     | --                     |                       |
| 07/16/96              | 518.83                  | 13.22                    | 0.00                    | 505.61                           | -0.01                         | --                      | --                      | --                | --                | --                     | --                      | --                     | --                     |                       |
| 10/16/96              | 518.83                  | 13.58                    | 0.00                    | 505.25                           | -0.36                         | --                      | --                      | --                | --                | --                     | --                      | --                     | --                     |                       |
| 04/08/97              | 518.83                  | 13.73                    | 0.00                    | 505.10                           | -0.15                         | --                      | --                      | --                | --                | --                     | --                      | --                     | --                     | Sampling Discontinued |
| 10/06/97              | 518.83                  | 13.65                    | 0.00                    | 505.18                           | 0.08                          | --                      | --                      | --                | --                | --                     | --                      | --                     | --                     |                       |
| 04/02/98              | 518.83                  | 13.55                    | 0.00                    | 505.28                           | 0.10                          | --                      | --                      | --                | --                | --                     | --                      | --                     | --                     |                       |
| 10/07/98              | 518.83                  | 13.64                    | 0.00                    | 505.19                           | -0.09                         | --                      | --                      | --                | --                | --                     | --                      | --                     | --                     |                       |
| 04/14/99              | 518.83                  | 13.75                    | 0.00                    | 505.08                           | -0.11                         | --                      | --                      | --                | --                | --                     | --                      | --                     | --                     |                       |
| 10/12/99              | 518.83                  | 13.61                    | 0.00                    | 505.22                           | 0.14                          | --                      | --                      | --                | --                | --                     | --                      | --                     | --                     |                       |
| 04/10/00              | 518.83                  | 13.85                    | 0.00                    | 504.98                           | -0.24                         | --                      | --                      | --                | --                | --                     | --                      | --                     | --                     |                       |

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**November 1989 Through July 2006**  
**76 Station 6034**

| Date Sampled          | TOC Elevation<br>(feet) | Depth to Water<br>(feet) | LPH Thickness<br>(feet) | Ground-water Elevation<br>(feet) | Change in Elevation<br>(feet) | TPH-G (8015M)<br>(µg/l) | TPH-G (GC/MS)<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-benzene<br>(µg/l) | Total Xylenes<br>(µg/l) | MTBE (8021B)<br>(µg/l) | MTBE (8260B)<br>(µg/l) | Comments              |
|-----------------------|-------------------------|--------------------------|-------------------------|----------------------------------|-------------------------------|-------------------------|-------------------------|-------------------|-------------------|-------------------------|-------------------------|------------------------|------------------------|-----------------------|
| <b>MW-7 continued</b> |                         |                          |                         |                                  |                               |                         |                         |                   |                   |                         |                         |                        |                        |                       |
| 10/02/00              | 518.83                  | 14.19                    | 0.00                    | 504.64                           | -0.34                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/02/01              | 518.83                  | 13.86                    | 0.00                    | 504.97                           | 0.33                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Sampling Discontinued |
| 10/05/01              | 518.83                  | 14.30                    | 0.00                    | 504.53                           | -0.44                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/01/02              | 518.83                  | 14.23                    | 0.00                    | 504.60                           | 0.07                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/16/02              | 518.83                  | 14.30                    | 0.00                    | 504.53                           | -0.07                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 04/03/03              | 518.83                  | 14.27                    | 0.00                    | 504.56                           | 0.03                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     |                       |
| 10/02/03              | 518.83                  | 14.35                    | 0.00                    | 504.48                           | -0.08                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored Only        |
| 04/30/04              | 518.83                  | 14.35                    | 0.00                    | 504.48                           | 0.00                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored only        |
| 12/01/04              | 518.83                  | 14.66                    | 0.00                    | 504.17                           | -0.31                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Sampled Semi-Annually |
| 06/13/05              | 518.83                  | 15.47                    | 0.00                    | 503.36                           | -0.81                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored Only        |
| 10/24/05              | 518.83                  | 15.65                    | 0.00                    | 503.18                           | -0.18                         | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored Only        |
| 06/23/06              | 518.83                  | 14.49                    | 0.00                    | 504.34                           | 1.16                          | --                      | --                      | --                | --                | --                      | --                      | --                     | --                     | Monitored Only        |
| 07/19/06              | 518.83                  | 14.46                    | 0.00                    | 504.37                           | 0.03                          | ND<50                   | --                      | ND<0.50           | ND<0.50           | ND<0.50                 | ND<0.50                 | --                     | ND<0.50                |                       |

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 6034**

| Date Sampled | TBA    | Ethanol (8260B) | Ethylene-dibromide (EDB) | 1,2-DCA (EDC) | DIPE    | ETBE   | TAME    | Total Oil and Grease | Chloroform | Trichloroethene (TCE) | Post-purge Dissolved Oxygen | Pre-purge Dissolved Oxygen |
|--------------|--------|-----------------|--------------------------|---------------|---------|--------|---------|----------------------|------------|-----------------------|-----------------------------|----------------------------|
|              | (µg/l) | (µg/l)          | (µg/l)                   | (µg/l)        | (µg/l)  | (µg/l) | (µg/l)  | (mg/l)               | (µg/l)     | (µg/l)                | (mg/l)                      | (mg/l)                     |
| <b>MW-1</b>  |        |                 |                          |               |         |        |         |                      |            |                       |                             |                            |
| 03/08/90     | --     | --              | --                       | --            | --      | --     | --      | 4.7                  | ND         | ND                    | --                          | --                         |
| 06/05/90     | --     | --              | --                       | --            | --      | --     | --      | ND                   | ND         | ND                    | --                          | --                         |
| 09/07/90     | --     | --              | --                       | --            | --      | --     | --      | ND                   | ND         | ND                    | --                          | --                         |
| 12/24/90     | --     | --              | --                       | --            | --      | --     | --      | ND                   | ND         | ND                    | --                          | --                         |
| 04/10/91     | --     | --              | --                       | --            | --      | --     | --      | ND                   | ND         | ND                    | --                          | --                         |
| 07/10/91     | --     | --              | --                       | --            | --      | --     | --      | ND                   | ND         | ND                    | --                          | --                         |
| 04/21/94     | --     | --              | --                       | --            | --      | --     | --      | ND                   | ND         | ND                    | --                          | --                         |
| 04/17/95     | --     | --              | --                       | --            | --      | --     | --      | ND                   | 0.69       | ND                    | --                          | --                         |
| 04/17/96     | --     | --              | --                       | --            | --      | --     | --      | ND                   | ND         | ND                    | --                          | --                         |
| 07/16/96     | --     | --              | --                       | --            | --      | --     | --      | --                   | --         | --                    | 4.28                        | 4.24                       |
| 07/19/06     | ND<10  | ND<250          | --                       | --            | ND<0.50 | --     | ND<0.50 | --                   | --         | --                    | --                          | --                         |
| <b>MW-2</b>  |        |                 |                          |               |         |        |         |                      |            |                       |                             |                            |
| 07/18/95     | --     | --              | --                       | --            | --      | --     | --      | --                   | --         | --                    | 4.22                        | --                         |
| 10/17/95     | --     | --              | --                       | --            | --      | --     | --      | --                   | --         | --                    | 3.96                        | --                         |
| 01/17/96     | --     | --              | --                       | --            | --      | --     | --      | --                   | --         | --                    | 5.25                        | --                         |
| 04/17/96     | --     | --              | --                       | --            | --      | --     | --      | --                   | --         | --                    | 2.59                        | --                         |
| 07/16/96     | --     | --              | --                       | --            | --      | --     | --      | --                   | --         | --                    | 4.35                        | 4.46                       |
| 10/16/96     | --     | --              | --                       | --            | --      | --     | --      | --                   | --         | --                    | 2.92                        | 3.87                       |
| 01/13/97     | --     | --              | --                       | --            | --      | --     | --      | --                   | --         | --                    | --                          | 4.76                       |
| 04/08/97     | --     | --              | --                       | --            | --      | --     | --      | --                   | --         | --                    | 3.42                        | 3.76                       |
| 10/06/97     | --     | --              | --                       | --            | --      | --     | --      | --                   | --         | --                    | 3.59                        | 4.13                       |
| 04/02/98     | --     | --              | --                       | --            | --      | --     | --      | --                   | --         | --                    | 3.16                        | 6.32                       |
| 10/07/98     | --     | --              | --                       | --            | --      | --     | --      | --                   | --         | --                    | --                          | 3.85                       |
| 04/14/99     | ND     | ND              | ND                       | ND            | ND      | ND     | ND      | --                   | --         | --                    | --                          | 3.14                       |
| 10/12/99     | ND     | ND              | --                       | --            | ND      | ND     | ND      | --                   | --         | --                    | --                          | 2.96                       |
| 04/10/00     | ND     | ND              | ND                       | ND            | ND      | ND     | ND      | --                   | --         | --                    | --                          | 3.47                       |

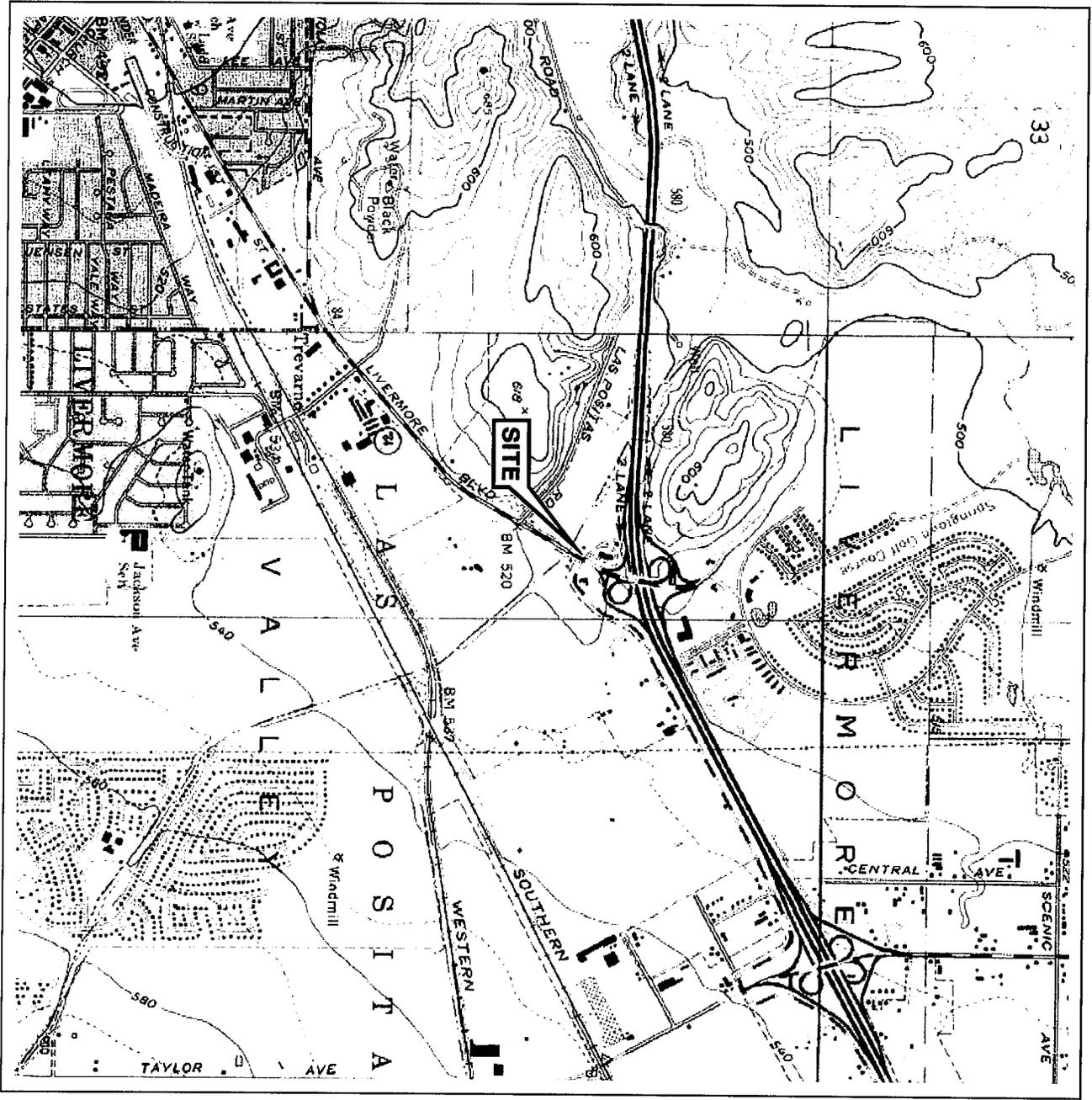
**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 6034**

| Date Sampled          | TBA     | Ethanol (8260B) | Ethylene-dibromide (EDB) | 1,2-DCA (EDC) | DIPE    | ETBE    | TAME    | Total Oil and Grease | Chloroform | Trichloro-ethene (TCE) | Post-purge Dissolved Oxygen | Pre-purge Dissolved Oxygen |
|-----------------------|---------|-----------------|--------------------------|---------------|---------|---------|---------|----------------------|------------|------------------------|-----------------------------|----------------------------|
|                       | (µg/l)  | (µg/l)          | (µg/l)                   | (µg/l)        | (µg/l)  | (µg/l)  | (µg/l)  | (mg/l)               | (µg/l)     | (µg/l)                 | (mg/l)                      | (mg/l)                     |
| <b>MW-2 continued</b> |         |                 |                          |               |         |         |         |                      |            |                        |                             |                            |
| 10/02/00              | ND      | ND              | ND                       | ND            | ND      | ND      | ND      | --                   | --         | --                     | --                          | 3.77                       |
| 04/02/01              | ND      | ND              | ND                       | ND            | ND      | ND      | ND      | --                   | --         | --                     | --                          | 3.95                       |
| 10/05/01              | ND<100  | ND<1000         | ND<2                     | ND<2          | ND<2    | ND<2    | ND<2    | --                   | --         | --                     | --                          | 2.89                       |
| 04/01/02              | ND<100  | ND<500          | ND<2                     | ND<2          | ND<2    | ND<2    | ND<2    | --                   | --         | --                     | --                          | 3.15                       |
| 10/16/02              | ND<100  | ND<500          | ND<2                     | ND<2          | ND<2    | ND<2    | ND<2    | --                   | --         | --                     | --                          | 3.08                       |
| 04/03/03              | ND<100  | ND<500          | ND<2                     | ND<2          | ND<2    | ND<2    | ND<2    | --                   | --         | --                     | --                          | 2.60                       |
| 10/02/03              | ND<2500 | ND<13000        | ND<50                    | ND<50         | ND<50   | ND<50   | ND<50   | --                   | --         | --                     | --                          | 3.53                       |
| 04/30/04              | ND<130  | ND<1300         | ND<13                    | ND<13         | ND<25   | ND<13   | ND<13   | --                   | --         | --                     | --                          | 1.78                       |
| 12/01/04              | 32      | ND<100          | ND<1.0                   | ND<1.0        | ND<2.0  | ND<1.0  | ND<1.0  | --                   | --         | --                     | 5.66                        | 5.42                       |
| 06/13/05              | 9.6     | ND<50           | ND<0.50                  | ND<0.50       | ND<0.50 | ND<0.50 | ND<0.50 | --                   | --         | --                     | 4.79                        | 5.76                       |
| 10/24/05              | ND<10   | ND<250          | ND<0.50                  | ND<0.50       | ND<0.50 | ND<0.50 | ND<0.50 | --                   | --         | --                     | 2.16                        | 2.29                       |
| 06/23/06              | ND<10   | ND<250          | ND<0.50                  | ND<0.50       | ND<0.50 | ND<0.50 | ND<0.50 | --                   | --         | --                     | --                          | 4.53                       |
| 07/19/06              | ND<10   | ND<250          | --                       | --            | ND<0.50 | --      | ND<0.50 | --                   | --         | --                     | --                          | --                         |
| <b>MW-3</b>           |         |                 |                          |               |         |         |         |                      |            |                        |                             |                            |
| 07/16/96              | --      | --              | --                       | --            | --      | --      | --      | --                   | --         | --                     | 4.20                        | 4.19                       |
| 07/19/06              | ND<10   | ND<250          | --                       | --            | ND<0.50 | --      | ND<0.50 | --                   | --         | --                     | --                          | --                         |
| <b>MW-4</b>           |         |                 |                          |               |         |         |         |                      |            |                        |                             |                            |
| 07/16/96              | --      | --              | --                       | --            | --      | --      | --      | --                   | --         | --                     | 4.30                        | 4.25                       |
| 01/13/97              | --      | --              | --                       | --            | --      | --      | --      | --                   | --         | --                     | --                          | 4.97                       |
| 04/14/99              | ND      | ND              | ND                       | ND            | ND      | ND      | ND      | --                   | --         | --                     | --                          | --                         |
| 10/02/03              | --      | ND<500          | --                       | --            | --      | --      | --      | --                   | --         | --                     | --                          | --                         |
| 04/30/04              | --      | ND<50           | --                       | --            | --      | --      | --      | --                   | --         | --                     | --                          | --                         |
| 12/01/04              | --      | ND<50           | --                       | --            | --      | --      | --      | --                   | --         | --                     | --                          | --                         |
| 06/13/05              | --      | ND<50           | --                       | --            | --      | --      | --      | --                   | --         | --                     | --                          | --                         |
| 10/24/05              | --      | ND<250          | --                       | --            | --      | --      | --      | --                   | --         | --                     | --                          | --                         |
| 06/23/06              | --      | ND<250          | --                       | --            | --      | --      | --      | --                   | --         | --                     | --                          | --                         |

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 6034**

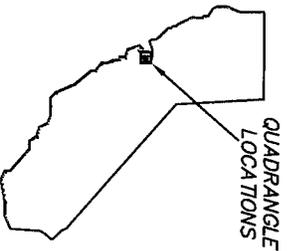
| Date Sampled          | TBA<br>(µg/l) | Ethanol (8260B)<br>(µg/l) | Ethylene-dibromide (EDB)<br>(µg/l) | 1,2-DCA (EDC)<br>(µg/l) | DIPE<br>(µg/l) | ETBE<br>(µg/l) | TAME<br>(µg/l) | Total Oil and Grease<br>(mg/l) | Chloroform<br>(µg/l) | Trichloroethene (TCE)<br>(µg/l) | Post-purge Dissolved Oxygen<br>(mg/l) | Pre-purge Dissolved Oxygen<br>(mg/l) |
|-----------------------|---------------|---------------------------|------------------------------------|-------------------------|----------------|----------------|----------------|--------------------------------|----------------------|---------------------------------|---------------------------------------|--------------------------------------|
| <b>MW-4 continued</b> |               |                           |                                    |                         |                |                |                |                                |                      |                                 |                                       |                                      |
| 07/19/06              | ND<10         | ND<250                    | --                                 | --                      | 2.2            | --             | ND<0.50        | --                             | --                   | --                              | --                                    | --                                   |
| <b>MW-5</b>           |               |                           |                                    |                         |                |                |                |                                |                      |                                 |                                       |                                      |
| 07/16/96              | --            | --                        | --                                 | --                      | --             | --             | --             | --                             | --                   | --                              | 4.21                                  | 4.18                                 |
| 07/19/06              | ND<10         | ND<250                    | --                                 | --                      | ND<0.50        | --             | ND<0.50        | --                             | --                   | --                              | --                                    | --                                   |
| <b>MW-7</b>           |               |                           |                                    |                         |                |                |                |                                |                      |                                 |                                       |                                      |
| 07/16/96              | --            | --                        | --                                 | --                      | --             | --             | --             | --                             | --                   | --                              | 4.19                                  | 4.20                                 |
| 07/19/06              | ND<10         | ND<250                    | --                                 | --                      | ND<0.50        | --             | ND<0.50        | --                             | --                   | --                              | --                                    | --                                   |

# FIGURES



SOURCE:

United States Geological Survey  
 7.5 Minute Topographic Map:  
 Livermore & Altamont Quadrangles



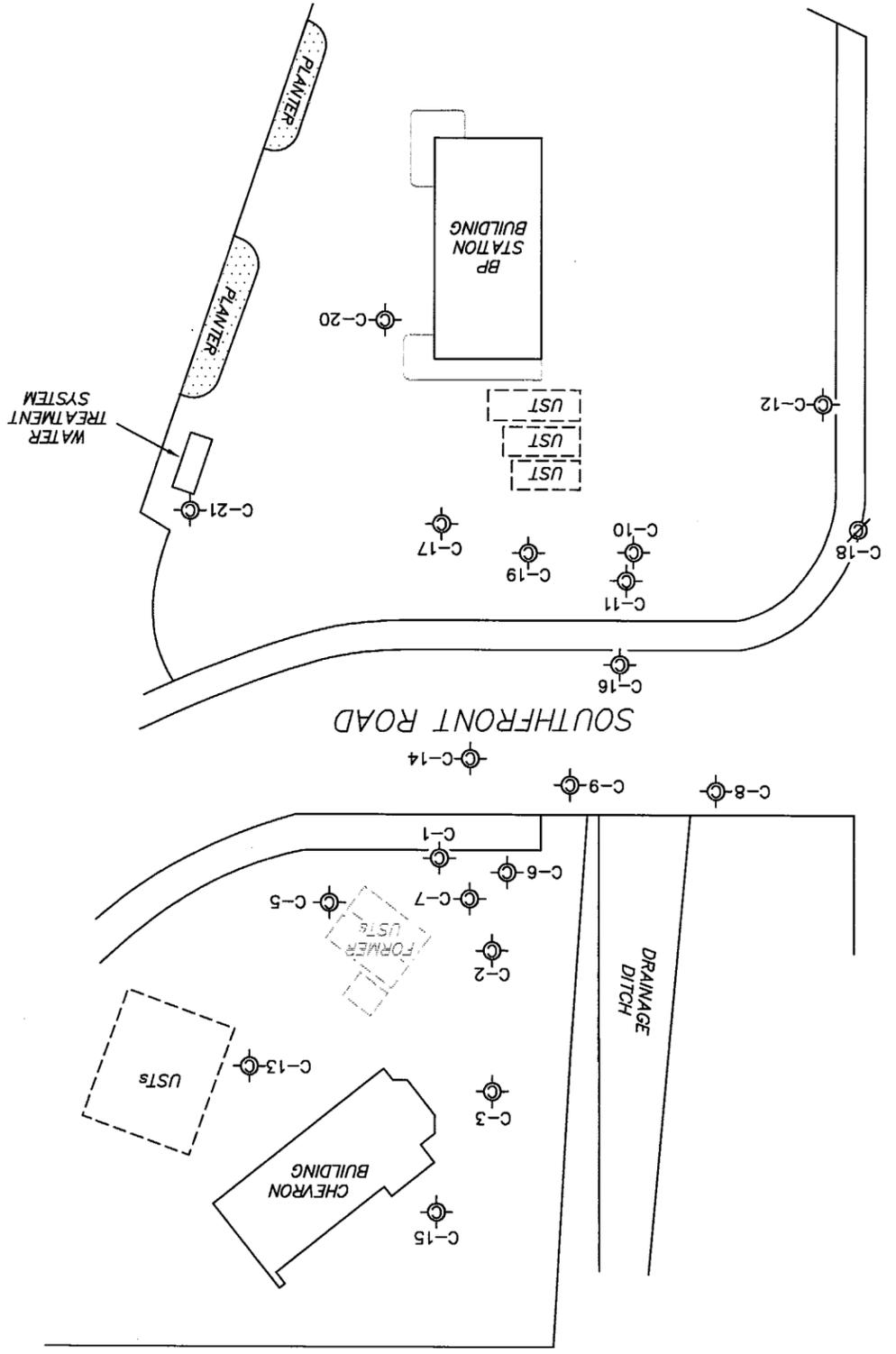
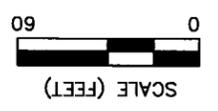
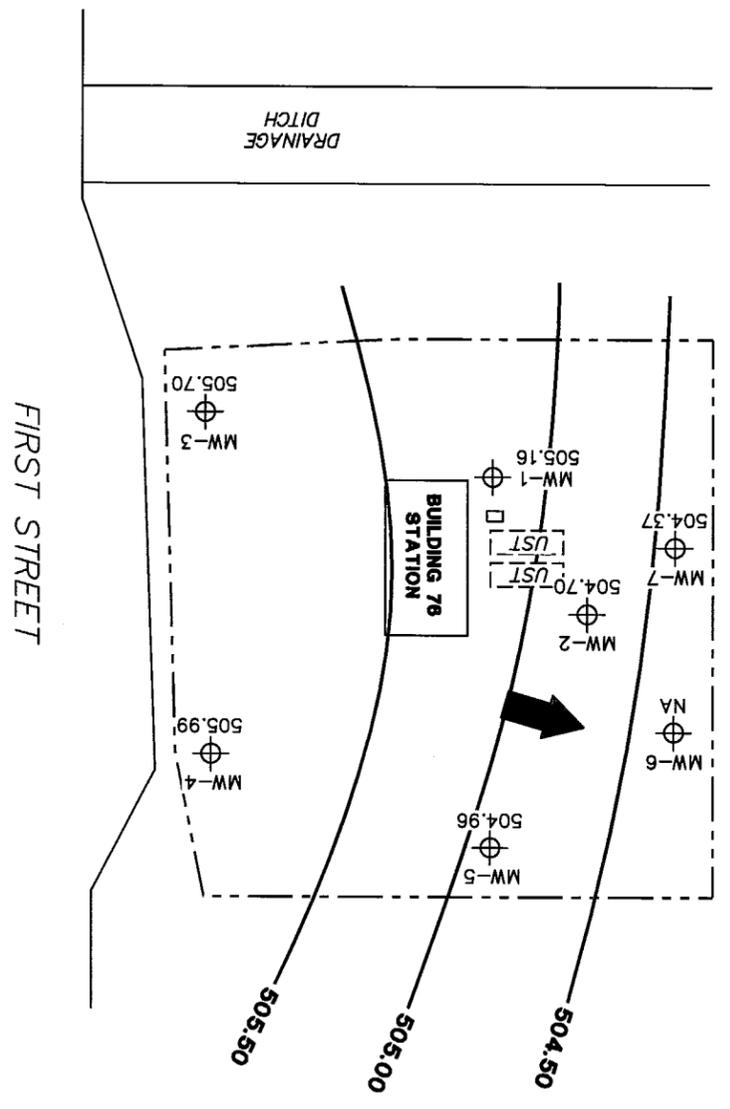
QUADRANGLE LOCATIONS

VICINITY MAP

76 Station 6034  
 4700 First Street  
 Livermore, California

FIGURE 1

TRC



**LEGEND**

- MW-7 ⊕ Monitoring Well with Groundwater Elevation (feet)
- C-21 ⊕ Chevron Monitoring Well
- C-18 ⊗ Abandoned Chevron Well
- 505.50 — Groundwater Elevation Contour
- ← General Direction of Groundwater Flow

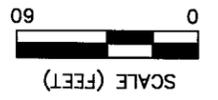
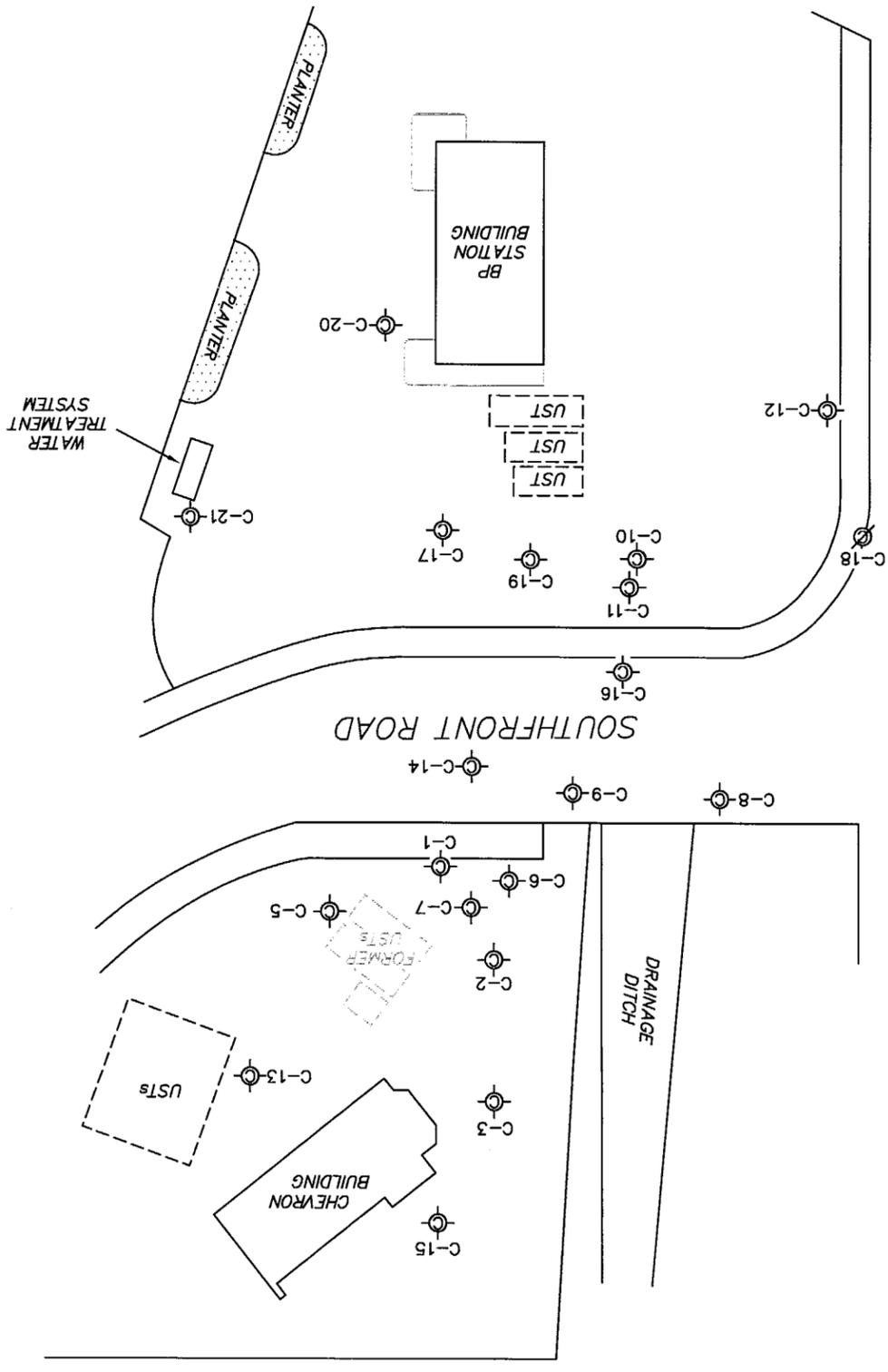
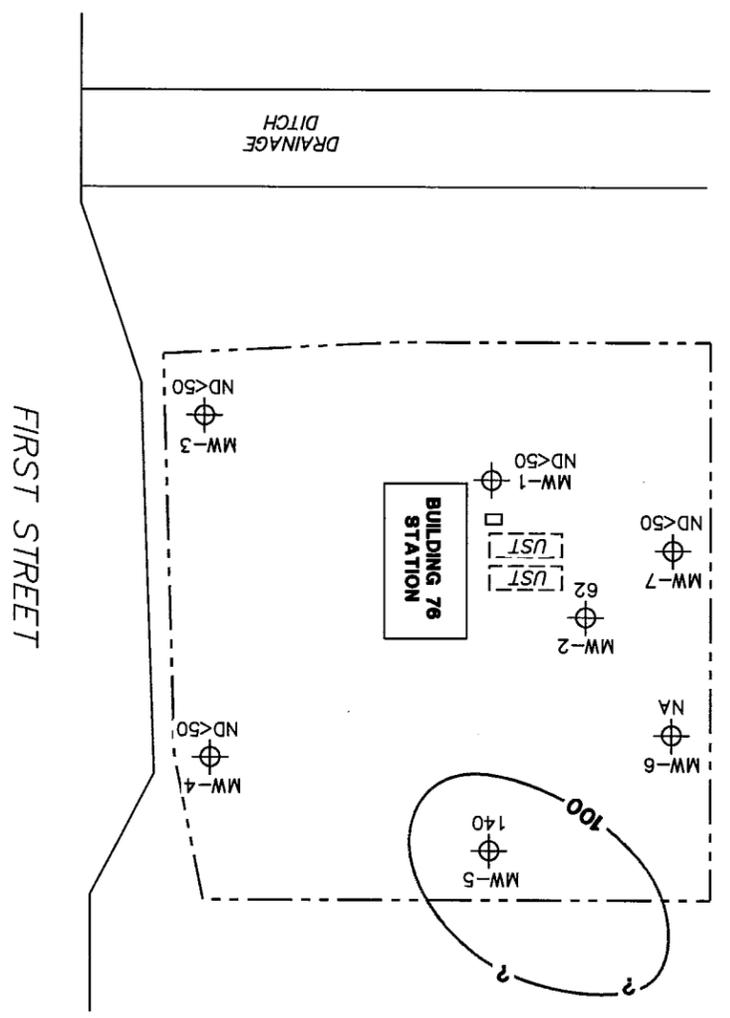
**NOTES:**  
Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. UST = underground storage tank.

**GROUNDWATER ELEVATION  
CONTOUR MAP**  
July 19, 2006

76 Station 6034  
4700 First Street  
Livermore, California

**FIGURE 2**





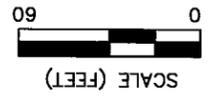
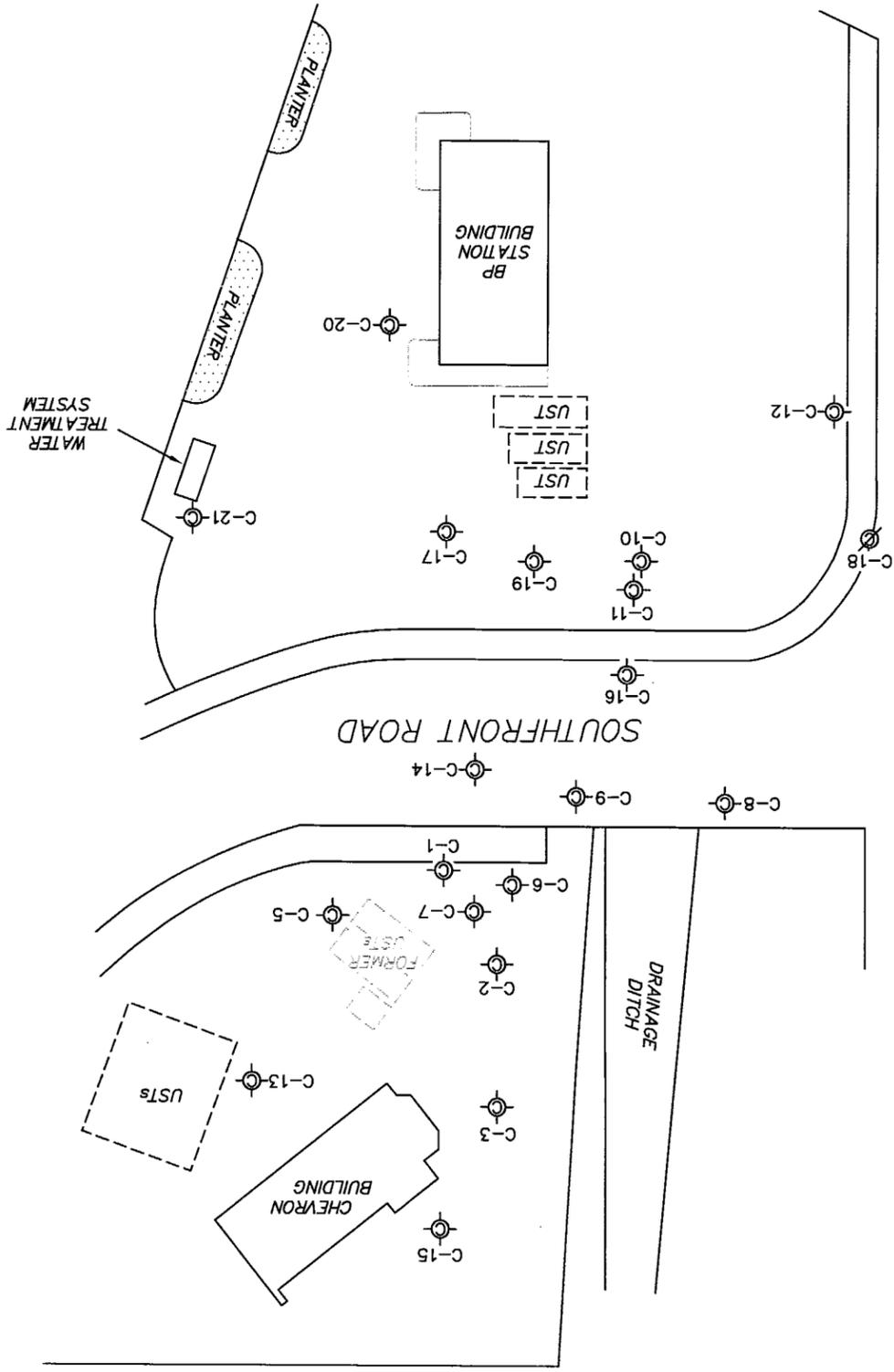
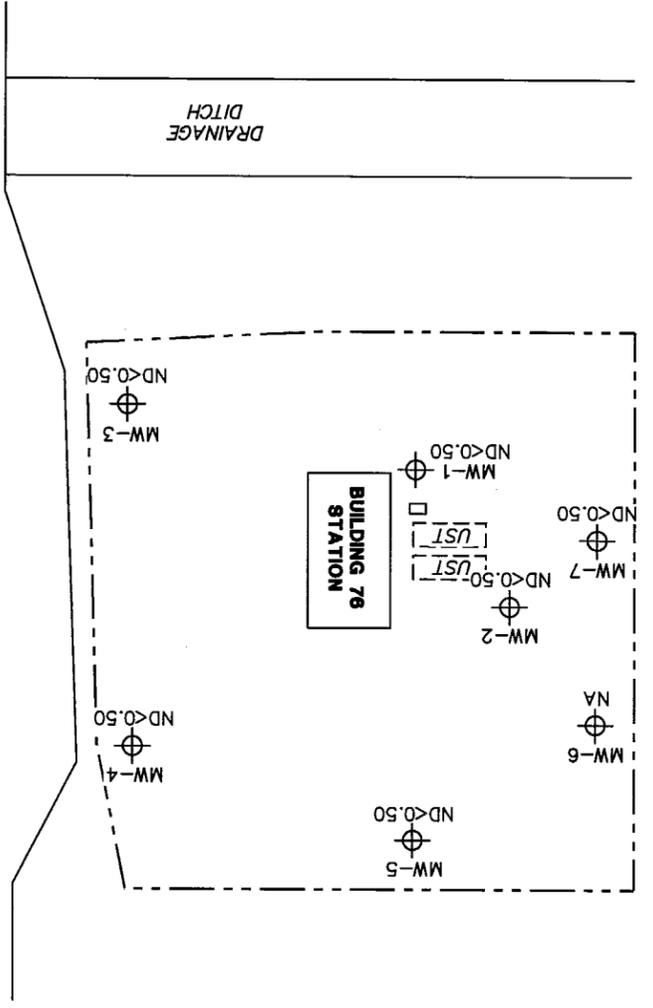
**LEGEND**

|  |                                                                 |
|--|-----------------------------------------------------------------|
|  | Monitoring Well with Dissolved-Phase TPH-G Concentration (µg/l) |
|  | Chevron Monitoring Well                                         |
|  | Abandoned Chevron Well                                          |
|  | Dissolved-Phase TPH-G Contour (µg/l)                            |

**NOTES:**  
 Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPH-G = total petroleum hydrocarbons as gasoline. µg/l = micrograms per liter. NA = not analyzed, measured, or collected. UST = underground storage tank. Results obtained using EPA Method 8015M.

**DISSOLVED-PHASE TPH-G CONCENTRATION MAP**  
 July 19, 2006

76 Station 6034  
 4700 First Street  
 Livermore, California



**LEGEND**

|      |                                                                   |
|------|-------------------------------------------------------------------|
| MW-7 | Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l) |
| C-21 | Chevron Monitoring Well                                           |
| C-18 | Abandoned Chevron Well                                            |

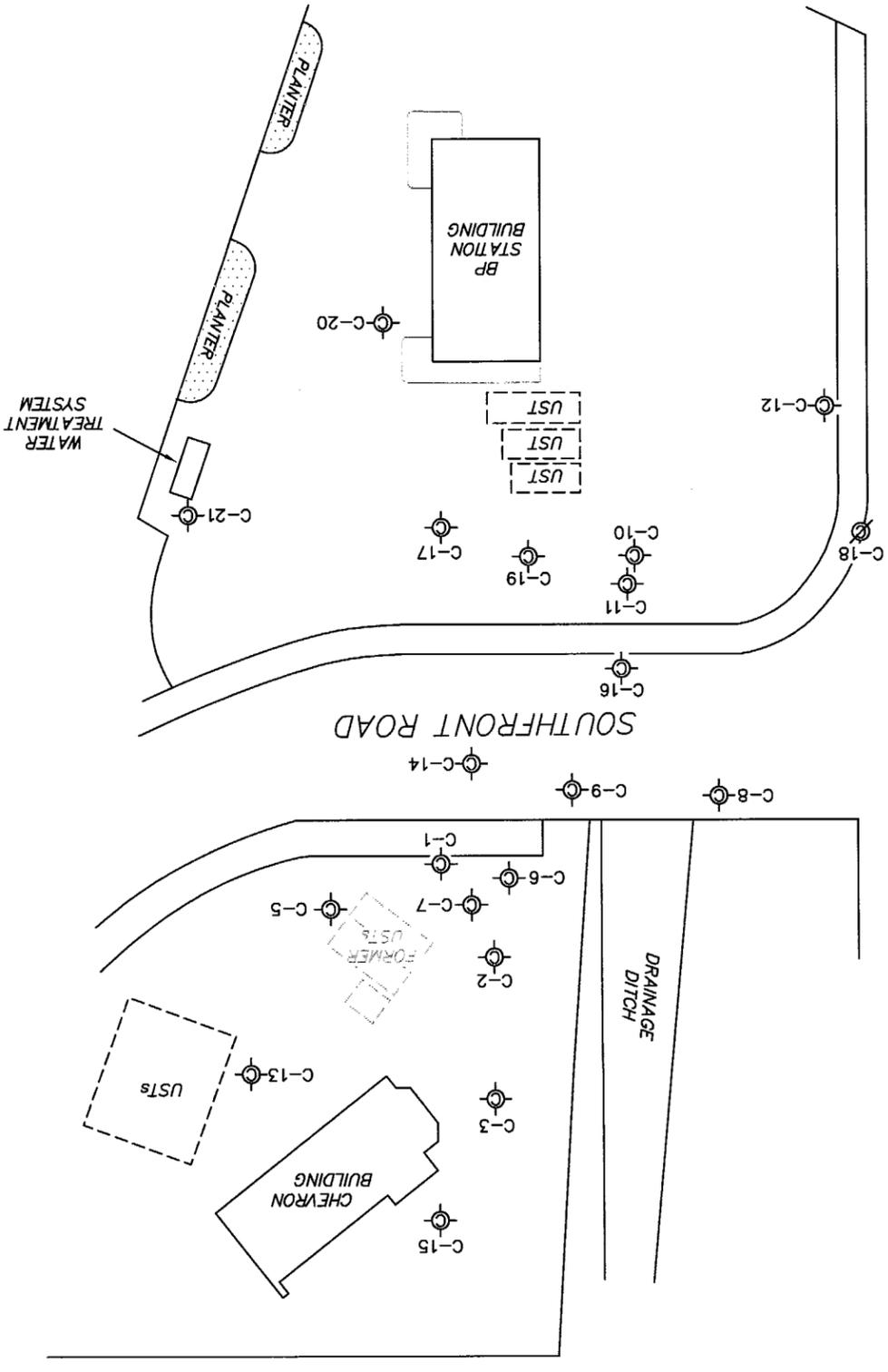
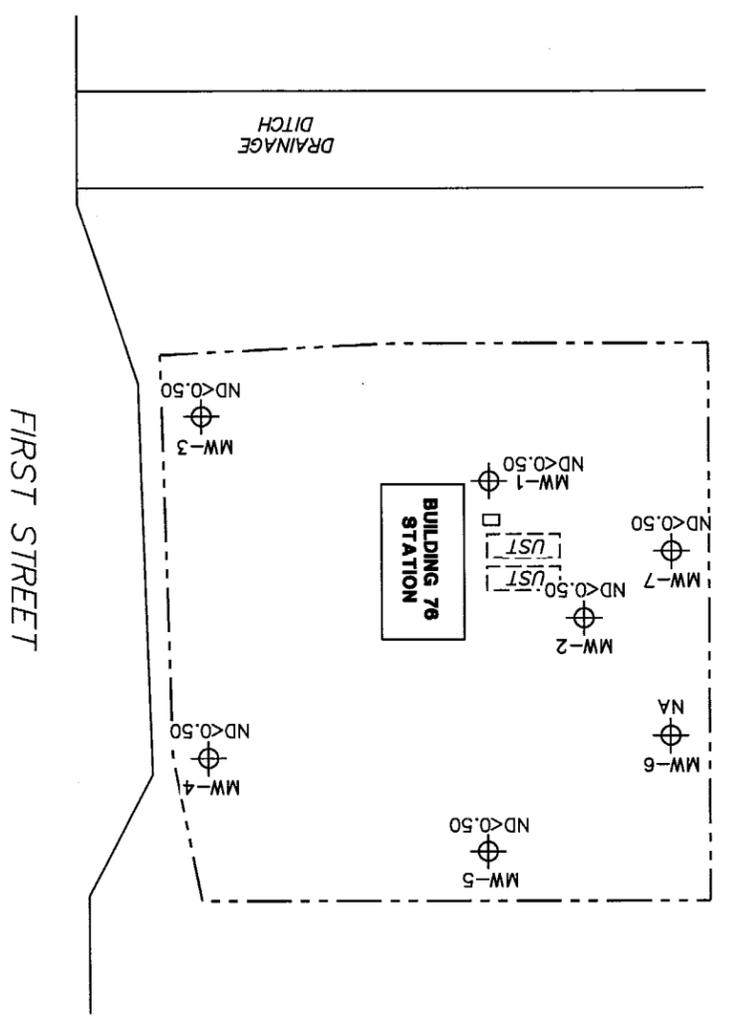
**NOTES:**  
 µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.  
 NA = not analyzed, measured, or collected.  
 UST = underground storage tank.

**DISSOLVED-PHASE BENZENE CONCENTRATION MAP**  
 July 19, 2006

76 Station 6034  
 4700 First Street  
 Livermore, California



**FIGURE 4**



**LEGEND**

|      |                                                                |
|------|----------------------------------------------------------------|
| MW-7 | Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l) |
| C-21 | Chevron Monitoring Well                                        |
| C-18 | Abandoned Chevron Well                                         |

**NOTES:**  
 MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. UST = underground storage tank. Results obtained using EPA Method 8260B.

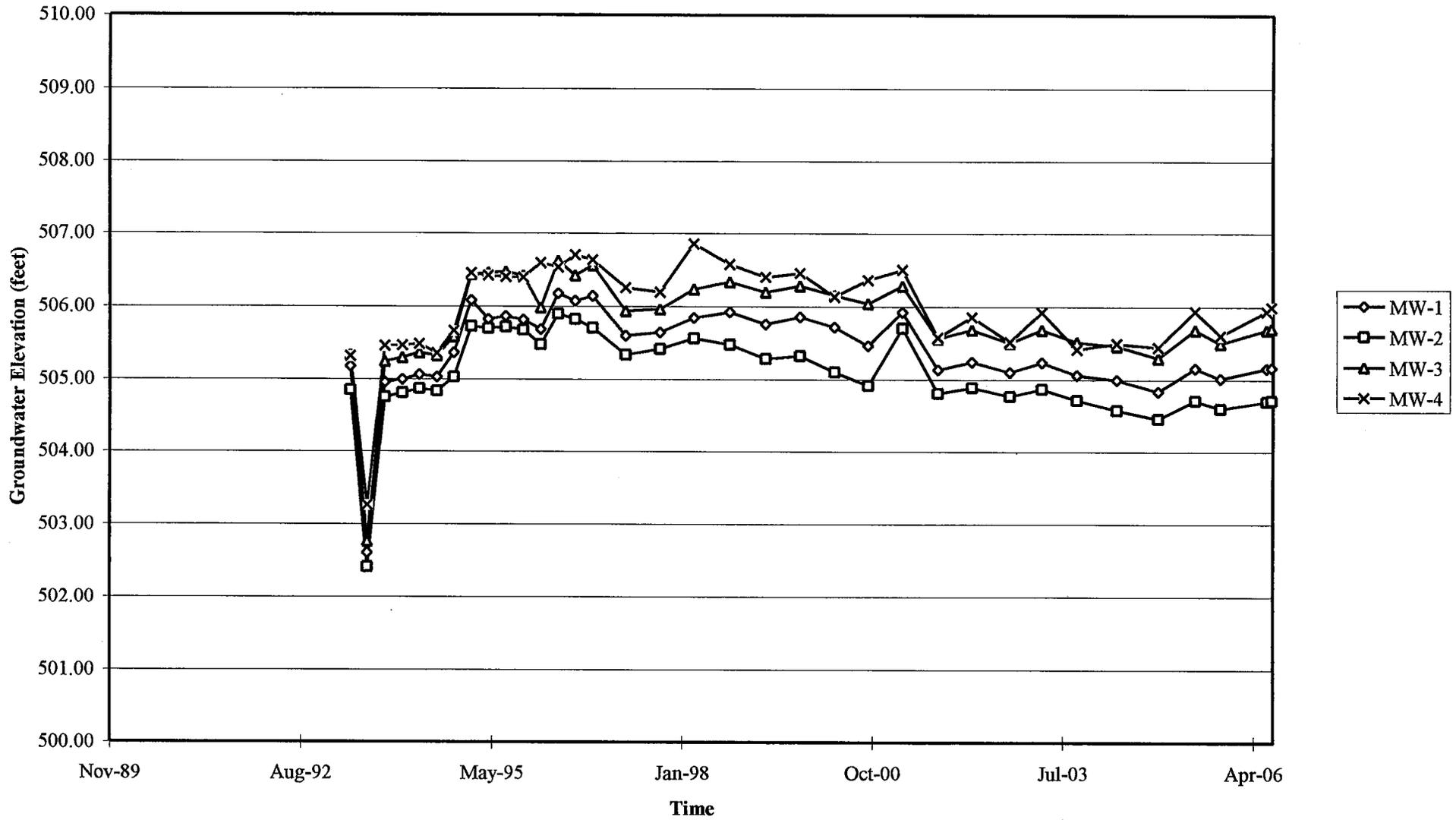
**DISSOLVED-PHASE MTBE CONCENTRATION MAP**  
 July 19, 2006

76 Station 6034  
 4700 First Street  
 Livermore, California



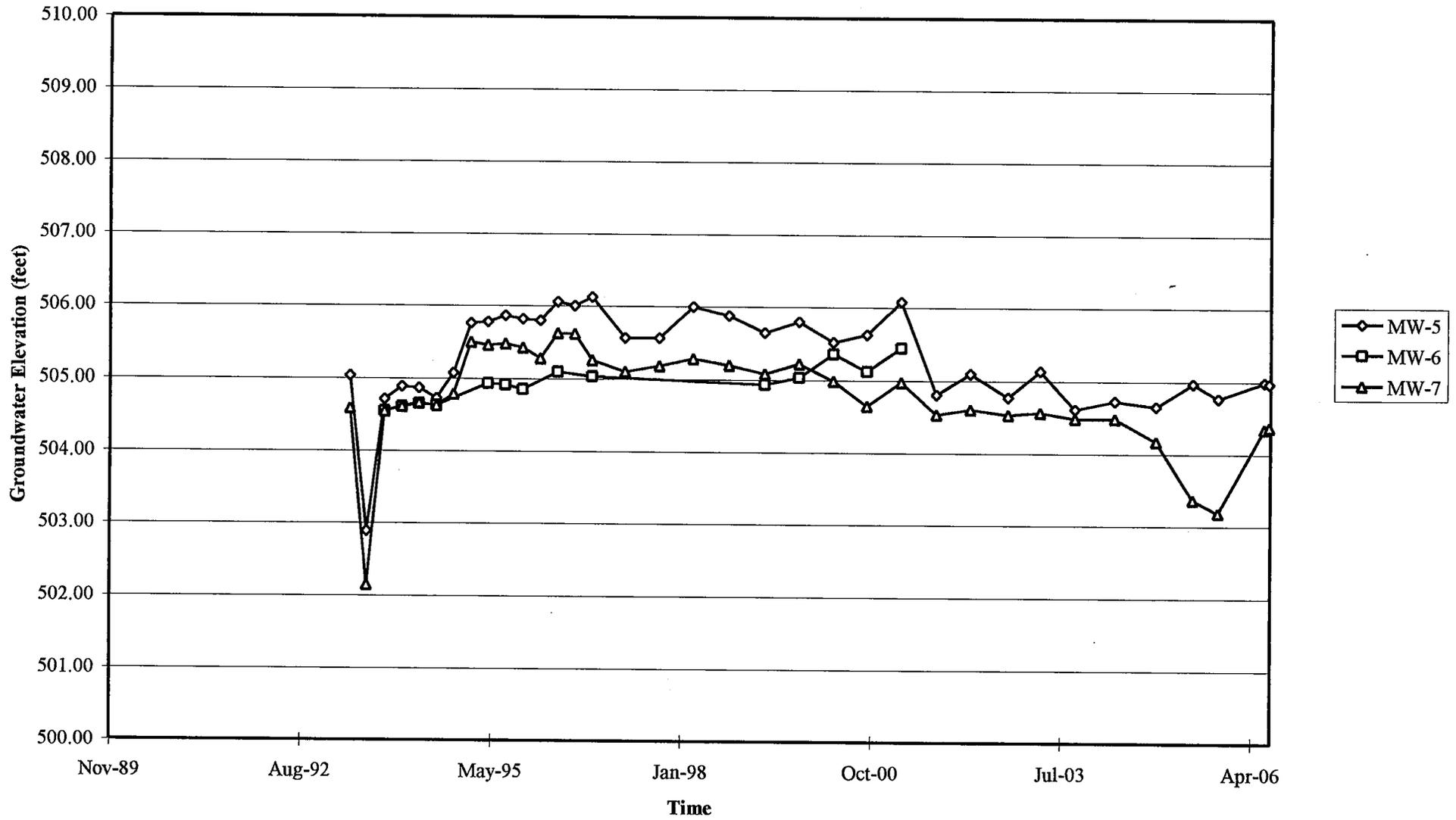
# GRAPHS

Groundwater Elevations vs. Time  
76 Station 6034



Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time  
76 Station 6034



Elevations may have been corrected for apparent changes due to resurvey



## GENERAL FIELD PROCEDURES

### **Groundwater Monitoring and Sampling Assignments**

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

### **Fluid Level Measurements**

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

### **Purging and Groundwater Parameter Measurement**

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

## **Groundwater Sample Collection**

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable, ½-inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designation, sample date, sample time, and the sampler's initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

## **Sequence of Gauging, Purging and Sampling**

The sequence in which monitoring activities are conducted are specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well.

## **Decontamination**

In order to reduce the possibility of cross contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated to a particular wells, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

## **Exceptions**

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, and noted on the site TSR, are documented in field notes on the following pages.



**GROUNDWATER SAMPLING FIELD NOTES**

Technician: Daniel

Site: 6034

Project No.: 4106001

Date: 7/19/06

Well No.: MW7

Purge Method: HB

Depth to Water (feet): 14.46

Depth to Product (feet): 0

Total Depth (feet): 23.60

LPH & Water Recovered (gallons): 0

Water Column (feet): 9.14

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 16.28

1 Well Volume (gallons): 1

| Time Start             | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conductivity (uS/cm) | Temperature (F, C) | pH   | Turbidity | D.O. |
|------------------------|-----------|-----------------------|-------------------------|----------------------|--------------------|------|-----------|------|
| 1502                   |           |                       | 1                       | 1102                 | 21.7               | 3.53 |           |      |
|                        |           |                       | 2                       | 1122                 | 20.9               | 3.60 |           |      |
|                        | 1509      |                       | 3                       | 1205                 | 20.6               | 3.63 |           |      |
| Static at Time Sampled |           |                       | Total Gallons Purged    |                      | Time Sampled       |      |           |      |
| 14.49                  |           |                       | 3                       |                      | 1514               |      |           |      |
| Comments:              |           |                       |                         |                      |                    |      |           |      |

Well No.: MW1

Purge Method: HB

Depth to Water (feet): 15.48

Depth to Product (feet): 0

Total Depth (feet): 27.80

LPH & Water Recovered (gallons): 0

Water Column (feet): 12.32

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 17.94

1 Well Volume (gallons): 2

| Time Start             | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conductivity (uS/cm) | Temperature (F, C) | pH   | Turbidity | D.O. |
|------------------------|-----------|-----------------------|-------------------------|----------------------|--------------------|------|-----------|------|
| 1524                   |           |                       | 2                       | 1242                 | 20.8               | 3.56 |           |      |
|                        |           |                       | 4                       | 1234                 | 20.1               | 3.29 |           |      |
|                        | 1532      |                       | 6                       | 1185                 | 20.4               | 3.58 |           |      |
| Static at Time Sampled |           |                       | Total Gallons Purged    |                      | Time Sampled       |      |           |      |
| 15.50                  |           |                       | 6                       |                      | 1538               |      |           |      |
| Comments:              |           |                       |                         |                      |                    |      |           |      |

**GROUNDWATER SAMPLING FIELD NOTES**

Technician: Daniel

Site: 6034

Project No.: 41060001

Date: 7/19/06

Well No.: MW4

Purge Method: #B Dia<sup>PC</sup> #B

Depth to Water (feet): 13.62

Depth to Product (feet): ∅

Total Depth (feet): 25.41

LPH & Water Recovered (gallons): ∅

Water Column (feet): 11.79

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 15.97

1 Well Volume (gallons): 2

| Time Start             | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conduc-tivity (uS/cm) | Temperature (F, C) | pH           | Turbidity | D.O. |
|------------------------|-----------|-----------------------|-------------------------|-----------------------|--------------------|--------------|-----------|------|
| 1330                   |           |                       | 2                       | 883                   | 22.8               | 3.99         |           |      |
|                        |           |                       | 4                       | 845                   | 20.7               | 3.44         |           |      |
|                        | 1338      |                       | 6                       | 865                   | 20.6               | 3.04         |           |      |
| Static at Time Sampled |           |                       | Total Gallons Purged    |                       |                    | Time Sampled |           |      |
| 13.75                  |           |                       | 6                       | 1342                  |                    |              |           |      |
| Comments:              |           |                       |                         |                       |                    |              |           |      |
|                        |           |                       |                         |                       |                    |              |           |      |
|                        |           |                       |                         |                       |                    |              |           |      |

Well No.: MW3

Purge Method: Dia<sup>PC</sup> #B

Depth to Water (feet): 13.96

Depth to Product (feet): ∅

Total Depth (feet): 25.33

LPH & Water Recovered (gallons): ∅

Water Column (feet): 11.37

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 16.23

1 Well Volume (gallons): 2

| Time Start             | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conduc-tivity (uS/cm) | Temperature (F, C) | pH           | Turbidity | D.O. |
|------------------------|-----------|-----------------------|-------------------------|-----------------------|--------------------|--------------|-----------|------|
| 1351                   |           |                       | 2                       | 1063                  | 21.9               | 3.65         |           |      |
|                        |           |                       | 4                       | 1098                  | 21.6               | 3.59         |           |      |
|                        | 1400      |                       | 6                       | 884                   | 21.9               | 3.58         |           |      |
| Static at Time Sampled |           |                       | Total Gallons Purged    |                       |                    | Time Sampled |           |      |
| 13.96                  |           |                       | 6                       | 1405                  |                    |              |           |      |
| Comments:              |           |                       |                         |                       |                    |              |           |      |
|                        |           |                       |                         |                       |                    |              |           |      |
|                        |           |                       |                         |                       |                    |              |           |      |

**GROUNDWATER SAMPLING FIELD NOTES**

Technician: Daniel

Site: 6034

Project No.: 4106001

Date: 7/19/06

Well No.: MW5

Purge Method: HB

Depth to Water (feet): 15.31

Depth to Product (feet): ∅

Total Depth (feet): 23.54

LPH & Water Recovered (gallons): ∅

Water Column (feet): 8.23

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 16.95

1 Well Volume (gallons): 1

| Time Start             | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conduc-tivity (uS/cm) | Temperature (F, C) | pH   | Turbidity | D.O. |
|------------------------|-----------|-----------------------|-------------------------|-----------------------|--------------------|------|-----------|------|
| 1413                   |           |                       | 1                       | 4.99                  | 23.3               | 3.39 |           |      |
|                        |           |                       | 2                       | 2.87                  | 23.5               | 3.22 |           |      |
|                        | 1421      |                       | 3                       | 510                   | 21.7               | 3.11 |           |      |
| Static at Time Sampled |           |                       | Total Gallons Purged    |                       | Time Sampled       |      |           |      |
| 15.34                  |           |                       | 3                       |                       | 1427               |      |           |      |
| Comments:              |           |                       |                         |                       |                    |      |           |      |

Well No.: MW2

Purge Method: HB

Depth to Water (feet): 15.12

Depth to Product (feet): ∅

Total Depth (feet): 25.58

LPH & Water Recovered (gallons): ∅

Water Column (feet): 10.46

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 17.21

1 Well Volume (gallons): 2

| Time Start             | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conduc-tivity (uS/cm) | Temperature (F, C) | pH   | Turbidity | D.O. |
|------------------------|-----------|-----------------------|-------------------------|-----------------------|--------------------|------|-----------|------|
| 1440                   |           |                       | 2                       | 3.66                  | 23.9               | 3.35 |           |      |
|                        |           |                       | 4                       | 571                   | 21.8               | 3.49 |           |      |
|                        | 1448      |                       | 6                       | 1248                  | 20.8               | 3.53 |           |      |
| Static at Time Sampled |           |                       | Total Gallons Purged    |                       | Time Sampled       |      |           |      |
| 15.20                  |           |                       | 6                       |                       | 1452               |      |           |      |
| Comments:              |           |                       |                         |                       |                    |      |           |      |



**Laboratories, Inc**

Date of Report: 08/02/2006

Anju Farfan

TRC Alton Geoscience

21 Technology Drive

Irvine, CA 92618-2302

RE: 6034

BC Lab Number: 0607335

Enclosed are the results of analyses for samples received by the laboratory on 07/20/06 21:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Vanessa Hooker", written over a horizontal line.

Contact Person: Vanessa Hooker

Client Service Rep

A handwritten signature in black ink, consisting of several overlapping strokes, written over a horizontal line.

Authorized Signature



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 6034  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

### Laboratory / Client Sample Cross Reference

**Laboratory    Client Sample Information**

|                   |                                                                                                                                                         |                                                                                                                                        |                                                                                                                 |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>0607335-01</b> | <b>COC Number:</b> ---<br><b>Project Number:</b> 6034<br><b>Sampling Location:</b> MW-1<br><b>Sampling Point:</b> MW-1<br><b>Sampled By:</b> DC of TRCI | <b>Receive Date:</b> 07/20/06 21:00<br><b>Sampling Date:</b> 07/19/06 15:38<br><b>Sample Depth:</b> ---<br><b>Sample Matrix:</b> Water | <b>Delivery Work Order:</b><br>Global ID: T0600101477<br>Matrix: W<br>Sample QC Type (SACode): CS<br>Cooler ID: |
| <b>0607335-02</b> | <b>COC Number:</b> ---<br><b>Project Number:</b> 6034<br><b>Sampling Location:</b> MW-2<br><b>Sampling Point:</b> MW-2<br><b>Sampled By:</b> DC of TRCI | <b>Receive Date:</b> 07/20/06 21:00<br><b>Sampling Date:</b> 07/19/06 14:52<br><b>Sample Depth:</b> ---<br><b>Sample Matrix:</b> Water | <b>Delivery Work Order:</b><br>Global ID: T0600101477<br>Matrix: W<br>Sample QC Type (SACode): CS<br>Cooler ID: |
| <b>0607335-03</b> | <b>COC Number:</b> ---<br><b>Project Number:</b> 6034<br><b>Sampling Location:</b> MW-3<br><b>Sampling Point:</b> MW-3<br><b>Sampled By:</b> DC of TRCI | <b>Receive Date:</b> 07/20/06 21:00<br><b>Sampling Date:</b> 07/19/06 14:02<br><b>Sample Depth:</b> ---<br><b>Sample Matrix:</b> Water | <b>Delivery Work Order:</b><br>Global ID: T0600101477<br>Matrix: W<br>Sample QC Type (SACode): CS<br>Cooler ID: |
| <b>0607335-04</b> | <b>COC Number:</b> ---<br><b>Project Number:</b> 6034<br><b>Sampling Location:</b> MW-4<br><b>Sampling Point:</b> MW-4<br><b>Sampled By:</b> DC of TRCI | <b>Receive Date:</b> 07/20/06 21:00<br><b>Sampling Date:</b> 07/19/06 13:42<br><b>Sample Depth:</b> ---<br><b>Sample Matrix:</b> Water | <b>Delivery Work Order:</b><br>Global ID: T0600101477<br>Matrix: W<br>Sample QC Type (SACode): CS<br>Cooler ID: |
| <b>0607335-05</b> | <b>COC Number:</b> ---<br><b>Project Number:</b> 6034<br><b>Sampling Location:</b> MW-5<br><b>Sampling Point:</b> MW-5<br><b>Sampled By:</b> DC of TRCI | <b>Receive Date:</b> 07/20/06 21:00<br><b>Sampling Date:</b> 07/19/06 14:27<br><b>Sample Depth:</b> ---<br><b>Sample Matrix:</b> Water | <b>Delivery Work Order:</b><br>Global ID: T0600101477<br>Matrix: W<br>Sample QC Type (SACode): CS<br>Cooler ID: |



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 6034  
Project Number: [none]  
Project Manager: Anju Farfan

**Reported:** 08/02/06 09:30

### Laboratory / Client Sample Cross Reference

**Laboratory    Client Sample Information**

|                                                                                                                                                                              |                                                                                                                                        |                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>0607335-06</b><br><b>COC Number:</b> ---<br><b>Project Number:</b> 6034<br><b>Sampling Location:</b> MW-7<br><b>Sampling Point:</b> MW-7<br><b>Sampled By:</b> DC of TRCI | <b>Receive Date:</b> 07/20/06 21:00<br><b>Sampling Date:</b> 07/19/06 15:14<br><b>Sample Depth:</b> ---<br><b>Sample Matrix:</b> Water | <b>Delivery Work Order:</b><br>Global ID: T0600101477<br>Matrix: W<br>Sample QC Type (SACode): CS<br>Cooler ID: |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|



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21 Technology Drive  
Irvine CA, 92618-2302

Project: 6034  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 08/14/06 13:27

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607335-01 Client Sample Name: 6034, MW-1, MW-1, 7/19/2006 3:38:00PM, DC

| Constituent                       | Result | Units | PQL                  | MDL | Method   | Prep Date | Run Date/Time  | Analyst | Instru- ment ID | Dilution | QC Batch ID | MB Bias | Lab Quals |
|-----------------------------------|--------|-------|----------------------|-----|----------|-----------|----------------|---------|-----------------|----------|-------------|---------|-----------|
| Benzene                           | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 13:35 | DKC     | MS-V10          | 1        | BPG0975     | ND      |           |
| Ethylbenzene                      | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 13:35 | DKC     | MS-V10          | 1        | BPG0975     | ND      |           |
| Methyl t-butyl ether              | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 13:35 | DKC     | MS-V10          | 1        | BPG0975     | ND      |           |
| Toluene                           | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 13:35 | DKC     | MS-V10          | 1        | BPG0975     | ND      |           |
| Total Xylenes                     | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 13:35 | DKC     | MS-V10          | 1        | BPG0975     | ND      |           |
| t-Amyl Methyl ether               | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 13:35 | DKC     | MS-V10          | 1        | BPG0975     | ND      |           |
| t-Butyl alcohol                   | ND     | ug/L  | 10                   |     | EPA-8260 | 07/21/06  | 07/22/06 13:35 | DKC     | MS-V10          | 1        | BPG0975     | ND      | V11       |
| Diisopropyl ether                 | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 13:35 | DKC     | MS-V10          | 1        | BPG0975     | ND      |           |
| Ethanol                           | ND     | ug/L  | 250                  |     | EPA-8260 | 07/21/06  | 07/22/06 13:35 | DKC     | MS-V10          | 1        | BPG0975     | ND      | V11       |
| 1,2-Dichloroethane-d4 (Surrogate) | 104    | %     | 76 - 114 (LCL - UCL) |     | EPA-8260 | 07/21/06  | 07/22/06 13:35 | DKC     | MS-V10          | 1        | BPG0975     |         |           |
| Toluene-d8 (Surrogate)            | 98.2   | %     | 88 - 110 (LCL - UCL) |     | EPA-8260 | 07/21/06  | 07/22/06 13:35 | DKC     | MS-V10          | 1        | BPG0975     |         |           |
| 4-Bromofluorobenzene (Surrogate)  | 102    | %     | 86 - 115 (LCL - UCL) |     | EPA-8260 | 07/21/06  | 07/22/06 13:35 | DKC     | MS-V10          | 1        | BPG0975     |         |           |



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21 Technology Drive  
Irvine CA, 92618-2302

Project: 6034  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

### Purgeable Aromatics and Total Petroleum Hydrocarbons

| <b>BCL Sample ID:</b> 0607335-01       |        | <b>Client Sample Name:</b> 6034, MW-1, MW-1, 7/19/2006 3:38:00PM, DC |                      |     |        |           |                |         |                |          |             |         |           |
|----------------------------------------|--------|----------------------------------------------------------------------|----------------------|-----|--------|-----------|----------------|---------|----------------|----------|-------------|---------|-----------|
| Constituent                            | Result | Units                                                                | PQL                  | MDL | Method | Prep Date | Run Date/Time  | Analyst | Instru-ment ID | Dilution | QC Batch ID | MB Bias | Lab Quals |
| Gasoline Range Organics (C4 - C12)     | ND     | ug/L                                                                 | 50                   |     | Luft   | 07/28/06  | 07/29/06 02:39 | CAW     | GC-V4          | 1        | BPG1407     | ND      |           |
| a,a,a-Trifluorotoluene (FID Surrogate) | 87.2   | %                                                                    | 70 - 130 (LCL - UCL) |     | Luft   | 07/28/06  | 07/29/06 02:39 | CAW     | GC-V4          | 1        | BPG1407     |         |           |



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21 Technology Drive  
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Project: 6034  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 08/14/06 13:27

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607335-02 Client Sample Name: 6034, MW-2, MW-2, 7/19/2006 2:52:00PM, DC

| Constituent                       | Result | Units | PQL                  | MDL | Method   | Prep Date | Run Date/Time  | Analyst | Instru- ment ID | Dilution | QC Batch ID | MB Bias | Lab Quals |
|-----------------------------------|--------|-------|----------------------|-----|----------|-----------|----------------|---------|-----------------|----------|-------------|---------|-----------|
| Benzene                           | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 12:44 | DKC     | MS-V10          | 1        | BPG0976     | ND      |           |
| Ethylbenzene                      | 2.1    | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 12:44 | DKC     | MS-V10          | 1        | BPG0976     | ND      |           |
| Methyl t-butyl ether              | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 12:44 | DKC     | MS-V10          | 1        | BPG0976     | ND      |           |
| Toluene                           | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 12:44 | DKC     | MS-V10          | 1        | BPG0976     | ND      |           |
| Total Xylenes                     | 4.5    | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 12:44 | DKC     | MS-V10          | 1        | BPG0976     | ND      |           |
| t-Amyl Methyl ether               | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 12:44 | DKC     | MS-V10          | 1        | BPG0976     | ND      |           |
| t-Butyl alcohol                   | ND     | ug/L  | 10                   |     | EPA-8260 | 07/21/06  | 07/22/06 12:44 | DKC     | MS-V10          | 1        | BPG0976     | ND      | V11       |
| Diisopropyl ether                 | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 12:44 | DKC     | MS-V10          | 1        | BPG0976     | ND      |           |
| Ethanol                           | ND     | ug/L  | 250                  |     | EPA-8260 | 07/21/06  | 07/22/06 12:44 | DKC     | MS-V10          | 1        | BPG0976     | ND      | V11       |
| 1,2-Dichloroethane-d4 (Surrogate) | 111    | %     | 76 - 114 (LCL - UCL) |     | EPA-8260 | 07/21/06  | 07/22/06 12:44 | DKC     | MS-V10          | 1        | BPG0976     |         |           |
| Toluene-d8 (Surrogate)            | 99.0   | %     | 88 - 110 (LCL - UCL) |     | EPA-8260 | 07/21/06  | 07/22/06 12:44 | DKC     | MS-V10          | 1        | BPG0976     |         |           |
| 4-Bromofluorobenzene (Surrogate)  | 101    | %     | 86 - 115 (LCL - UCL) |     | EPA-8260 | 07/21/06  | 07/22/06 12:44 | DKC     | MS-V10          | 1        | BPG0976     |         |           |



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21 Technology Drive  
Irvine CA, 92618-2302

Project: 6034  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

### Purgeable Aromatics and Total Petroleum Hydrocarbons

**BCL Sample ID:** 0607335-02 | **Client Sample Name:** 6034, MW-2, MW-2, 7/19/2006 2:52:00PM, DC

| Constituent                            | Result | Units | PQL                  | MDL | Method | Prep     | Run            | Analyst | Instru-<br>ment ID | Dilution | QC       | MB   | Lab   |
|----------------------------------------|--------|-------|----------------------|-----|--------|----------|----------------|---------|--------------------|----------|----------|------|-------|
|                                        |        |       |                      |     |        | Date     | Date/Time      |         |                    |          | Batch ID | Bias | Quals |
| Gasoline Range Organics (C4 - C12)     | 62     | ug/L  | 50                   |     | Luft   | 07/28/06 | 07/29/06 01:47 | CAW     | GC-V4              | 1        | BPG1407  | ND   |       |
| a,a,a-Trifluorotoluene (FID Surrogate) | 87.4   | %     | 70 - 130 (LCL - UCL) |     | Luft   | 07/28/06 | 07/29/06 01:47 | CAW     | GC-V4              | 1        | BPG1407  |      |       |



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21 Technology Drive  
Irvine CA, 92618-2302

Project: 6034  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 08/14/06 13:27

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607335-03 | Client Sample Name: 6034, MW-3, MW-3, 7/19/2006 2:02:00PM, DC

| Constituent                       | Result | Units | PQL                  | MDL | Method   | Prep Date | Run Date/Time  | Analyst | Instru-ment ID | Dilution | QC Batch ID | MB Bias | Lab Quals |
|-----------------------------------|--------|-------|----------------------|-----|----------|-----------|----------------|---------|----------------|----------|-------------|---------|-----------|
| Benzene                           | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 14:00 | DKC     | MS-V10         | 1        | BPG0976     | ND      |           |
| Ethylbenzene                      | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 14:00 | DKC     | MS-V10         | 1        | BPG0976     | ND      |           |
| Methyl t-butyl ether              | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 14:00 | DKC     | MS-V10         | 1        | BPG0976     | ND      |           |
| Toluene                           | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 14:00 | DKC     | MS-V10         | 1        | BPG0976     | ND      |           |
| Total Xylenes                     | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 14:00 | DKC     | MS-V10         | 1        | BPG0976     | ND      |           |
| t-Amyl Methyl ether               | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 14:00 | DKC     | MS-V10         | 1        | BPG0976     | ND      |           |
| t-Butyl alcohol                   | ND     | ug/L  | 10                   |     | EPA-8260 | 07/21/06  | 07/22/06 14:00 | DKC     | MS-V10         | 1        | BPG0976     | ND      | V11       |
| Diisopropyl ether                 | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 14:00 | DKC     | MS-V10         | 1        | BPG0976     | ND      |           |
| Ethanol                           | ND     | ug/L  | 250                  |     | EPA-8260 | 07/21/06  | 07/22/06 14:00 | DKC     | MS-V10         | 1        | BPG0976     | ND      | V11       |
| 1,2-Dichloroethane-d4 (Surrogate) | 109    | %     | 76 - 114 (LCL - UCL) |     | EPA-8260 | 07/21/06  | 07/22/06 14:00 | DKC     | MS-V10         | 1        | BPG0976     |         |           |
| Toluene-d8 (Surrogate)            | 97.8   | %     | 88 - 110 (LCL - UCL) |     | EPA-8260 | 07/21/06  | 07/22/06 14:00 | DKC     | MS-V10         | 1        | BPG0976     |         |           |
| 4-Bromofluorobenzene (Surrogate)  | 99.2   | %     | 86 - 115 (LCL - UCL) |     | EPA-8260 | 07/21/06  | 07/22/06 14:00 | DKC     | MS-V10         | 1        | BPG0976     |         |           |



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 6034  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

### Purgeable Aromatics and Total Petroleum Hydrocarbons

| <b>BCL Sample ID:</b> 0607335-03       |        | <b>Client Sample Name:</b> 6034, MW-3, MW-3, 7/19/2006 2:02:00PM, DC |                      |     |        |           |                |         |                |          |             |         |           |
|----------------------------------------|--------|----------------------------------------------------------------------|----------------------|-----|--------|-----------|----------------|---------|----------------|----------|-------------|---------|-----------|
| Constituent                            | Result | Units                                                                | PQL                  | MDL | Method | Prep Date | Run Date/Time  | Analyst | Instru-ment ID | Dilution | QC Batch ID | MB Bias | Lab Quals |
| Gasoline Range Organics (C4 - C12)     | ND     | ug/L                                                                 | 50                   |     | Luft   | 07/28/06  | 07/29/06 03:05 | CAW     | GC-V4          | 1        | BPG1407     | ND      |           |
| a,a,a-Trifluorotoluene (FID Surrogate) | 84.0   | %                                                                    | 70 - 130 (LCL - UCL) |     | Luft   | 07/28/06  | 07/29/06 03:05 | CAW     | GC-V4          | 1        | BPG1407     |         |           |



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21 Technology Drive  
Irvine CA, 92618-2302

Project: 6034  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 08/14/06 13:27

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607335-04 Client Sample Name: 6034, MW-4, MW-4, 7/19/2006 1:42:00PM, DC

| Constituent                       | Result | Units | PQL                  | MDL | Method   | Prep Date | Run Date/Time  | Analyst | Instru- ment ID | Dilution | QC Batch ID | MB Bias | Lab Quals |
|-----------------------------------|--------|-------|----------------------|-----|----------|-----------|----------------|---------|-----------------|----------|-------------|---------|-----------|
| Benzene                           | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 13:09 | DKC     | MS-V10          | 1        | BPG0976     | ND      |           |
| Ethylbenzene                      | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 13:09 | DKC     | MS-V10          | 1        | BPG0976     | ND      |           |
| Methyl t-butyl ether              | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 13:09 | DKC     | MS-V10          | 1        | BPG0976     | ND      |           |
| Toluene                           | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 13:09 | DKC     | MS-V10          | 1        | BPG0976     | ND      |           |
| Total Xylenes                     | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 13:09 | DKC     | MS-V10          | 1        | BPG0976     | ND      |           |
| t-Amyl Methyl ether               | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 13:09 | DKC     | MS-V10          | 1        | BPG0976     | ND      |           |
| t-Butyl alcohol                   | ND     | ug/L  | 10                   |     | EPA-8260 | 07/21/06  | 07/22/06 13:09 | DKC     | MS-V10          | 1        | BPG0976     | ND      | V11       |
| Diisopropyl ether                 | 2.2    | ug/L  | 0.50                 |     | EPA-8260 | 07/21/06  | 07/22/06 13:09 | DKC     | MS-V10          | 1        | BPG0976     | ND      |           |
| Ethanol                           | ND     | ug/L  | 250                  |     | EPA-8260 | 07/21/06  | 07/22/06 13:09 | DKC     | MS-V10          | 1        | BPG0976     | ND      | V11       |
| 1,2-Dichloroethane-d4 (Surrogate) | 108    | %     | 76 - 114 (LCL - UCL) |     | EPA-8260 | 07/21/06  | 07/22/06 13:09 | DKC     | MS-V10          | 1        | BPG0976     |         |           |
| Toluene-d8 (Surrogate)            | 97.7   | %     | 88 - 110 (LCL - UCL) |     | EPA-8260 | 07/21/06  | 07/22/06 13:09 | DKC     | MS-V10          | 1        | BPG0976     |         |           |
| 4-Bromofluorobenzene (Surrogate)  | 103    | %     | 86 - 115 (LCL - UCL) |     | EPA-8260 | 07/21/06  | 07/22/06 13:09 | DKC     | MS-V10          | 1        | BPG0976     |         |           |



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 6034  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

### Purgeable Aromatics and Total Petroleum Hydrocarbons

| BCL Sample ID: 0607335-04              |        | Client Sample Name: 6034, MW-4, MW-4, 7/19/2006 1:42:00PM, DC |                      |     |        |           |                |         |                |          |             |         |           |
|----------------------------------------|--------|---------------------------------------------------------------|----------------------|-----|--------|-----------|----------------|---------|----------------|----------|-------------|---------|-----------|
| Constituent                            | Result | Units                                                         | PQL                  | MDL | Method | Prep Date | Run Date/Time  | Analyst | Instru-ment ID | Dilution | QC Batch ID | MB Bias | Lab Quals |
| Gasoline Range Organics (C4 - C12)     | ND     | ug/L                                                          | 50                   |     | Luft   | 07/28/06  | 07/29/06 02:13 | CAW     | GC-V4          | 1        | BPG1407     | ND      |           |
| a,a,a-Trifluorotoluene (FID Surrogate) | 85.6   | %                                                             | 70 - 130 (LCL - UCL) |     | Luft   | 07/28/06  | 07/29/06 02:13 | CAW     | GC-V4          | 1        | BPG1407     |         |           |



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 6034  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 08/14/06 13:27

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607335-05 Client Sample Name: 6034, MW-5, MWV-5, 7/19/2006 2:27:00PM, DC

| Constituent                       | Result | Units | PQL                  | MDL | Method   | Prep Date | Run Date/Time  | Analyst | Instru- ment ID | Dilution | QC Batch ID | MB Bias | Lab Quals |
|-----------------------------------|--------|-------|----------------------|-----|----------|-----------|----------------|---------|-----------------|----------|-------------|---------|-----------|
| Benzene                           | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/25/06  | 07/26/06 03:19 | DKC     | MS-V10          | 1        | BPG1376     | ND      |           |
| Ethylbenzene                      | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/25/06  | 07/26/06 03:19 | DKC     | MS-V10          | 1        | BPG1376     | ND      |           |
| Methyl t-butyl ether              | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/25/06  | 07/26/06 03:19 | DKC     | MS-V10          | 1        | BPG1376     | ND      |           |
| Toluene                           | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/25/06  | 07/26/06 03:19 | DKC     | MS-V10          | 1        | BPG1376     | ND      |           |
| Total Xylenes                     | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/25/06  | 07/26/06 03:19 | DKC     | MS-V10          | 1        | BPG1376     | ND      |           |
| t-Amyl Methyl ether               | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/25/06  | 07/26/06 03:19 | DKC     | MS-V10          | 1        | BPG1376     | ND      |           |
| t-Butyl alcohol                   | ND     | ug/L  | 10                   |     | EPA-8260 | 07/25/06  | 07/26/06 03:19 | DKC     | MS-V10          | 1        | BPG1376     | ND      |           |
| Diisopropyl ether                 | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/25/06  | 07/26/06 03:19 | DKC     | MS-V10          | 1        | BPG1376     | ND      |           |
| Ethanol                           | ND     | ug/L  | 250                  |     | EPA-8260 | 07/25/06  | 07/26/06 03:19 | DKC     | MS-V10          | 1        | BPG1376     | ND      |           |
| 1,2-Dichloroethane-d4 (Surrogate) | 101    | %     | 76 - 114 (LCL - UCL) |     | EPA-8260 | 07/25/06  | 07/26/06 03:19 | DKC     | MS-V10          | 1        | BPG1376     |         |           |
| Toluene-d8 (Surrogate)            | 97.4   | %     | 88 - 110 (LCL - UCL) |     | EPA-8260 | 07/25/06  | 07/26/06 03:19 | DKC     | MS-V10          | 1        | BPG1376     |         |           |
| 4-Bromofluorobenzene (Surrogate)  | 100    | %     | 86 - 115 (LCL - UCL) |     | EPA-8260 | 07/25/06  | 07/26/06 03:19 | DKC     | MS-V10          | 1        | BPG1376     |         |           |



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Project: 6034  
Project Number: [none]  
Project Manager: Anju Farfan

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### Purgeable Aromatics and Total Petroleum Hydrocarbons

| BCL Sample ID: 0607335-05              |        | Client Sample Name: 6034, MW-5, MW-5, 7/19/2006 2:27:00PM, DC |                      |     |        |           |                |         |                |          |             |         |           |
|----------------------------------------|--------|---------------------------------------------------------------|----------------------|-----|--------|-----------|----------------|---------|----------------|----------|-------------|---------|-----------|
| Constituent                            | Result | Units                                                         | PQL                  | MDL | Method | Prep Date | Run Date/Time  | Analyst | Instru-ment ID | Dilution | QC Batch ID | MB Bias | Lab Quals |
| Gasoline Range Organics (C4 - C12)     | 140    | ug/L                                                          | 50                   |     | Luft   | 07/28/06  | 07/29/06 03:31 | CAW     | GC-V4          | 1        | BPG1407     | ND      |           |
| a,a,a-Trifluorotoluene (FID Surrogate) | 90.5   | %                                                             | 70 - 130 (LCL - UCL) |     | Luft   | 07/28/06  | 07/29/06 03:31 | CAW     | GC-V4          | 1        | BPG1407     |         |           |



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### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607335-06 Client Sample Name: 6034, MW-7, MW-7, 7/19/2006 3:14:00PM, DC

| Constituent                       | Result | Units | PQL                  | MDL | Method   | Prep Date | Run Date/Time  | Analyst | Instru-ment ID | Dilution | QC Batch ID | MB Bias | Lab Quals |
|-----------------------------------|--------|-------|----------------------|-----|----------|-----------|----------------|---------|----------------|----------|-------------|---------|-----------|
| Benzene                           | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/25/06  | 07/26/06 03:44 | DKC     | MS-V10         | 1        | BPG1376     | ND      |           |
| Ethylbenzene                      | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/25/06  | 07/26/06 03:44 | DKC     | MS-V10         | 1        | BPG1376     | ND      |           |
| Methyl t-butyl ether              | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/25/06  | 07/26/06 03:44 | DKC     | MS-V10         | 1        | BPG1376     | ND      |           |
| Toluene                           | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/25/06  | 07/26/06 03:44 | DKC     | MS-V10         | 1        | BPG1376     | ND      |           |
| Total Xylenes                     | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/25/06  | 07/26/06 03:44 | DKC     | MS-V10         | 1        | BPG1376     | ND      |           |
| t-Amyl Methyl ether               | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/25/06  | 07/26/06 03:44 | DKC     | MS-V10         | 1        | BPG1376     | ND      |           |
| t-Butyl alcohol                   | ND     | ug/L  | 10                   |     | EPA-8260 | 07/25/06  | 07/26/06 03:44 | DKC     | MS-V10         | 1        | BPG1376     | ND      |           |
| Diisopropyl ether                 | ND     | ug/L  | 0.50                 |     | EPA-8260 | 07/25/06  | 07/26/06 03:44 | DKC     | MS-V10         | 1        | BPG1376     | ND      |           |
| Ethanol                           | ND     | ug/L  | 250                  |     | EPA-8260 | 07/25/06  | 07/26/06 03:44 | DKC     | MS-V10         | 1        | BPG1376     | ND      |           |
| 1,2-Dichloroethane-d4 (Surrogate) | 103    | %     | 76 - 114 (LCL - UCL) |     | EPA-8260 | 07/25/06  | 07/26/06 03:44 | DKC     | MS-V10         | 1        | BPG1376     |         |           |
| Toluene-d8 (Surrogate)            | 97.4   | %     | 88 - 110 (LCL - UCL) |     | EPA-8260 | 07/25/06  | 07/26/06 03:44 | DKC     | MS-V10         | 1        | BPG1376     |         |           |
| 4-Bromofluorobenzene (Surrogate)  | 98.7   | %     | 86 - 115 (LCL - UCL) |     | EPA-8260 | 07/25/06  | 07/26/06 03:44 | DKC     | MS-V10         | 1        | BPG1376     |         |           |



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### Purgeable Aromatics and Total Petroleum Hydrocarbons

| <b>BCL Sample ID:</b> 0607335-06       |        | <b>Client Sample Name:</b> 6034, MW-7, MW-7, 7/19/2006 3:14:00PM, DC |                      |     |        |           |                |         |                |          |             |         |           |
|----------------------------------------|--------|----------------------------------------------------------------------|----------------------|-----|--------|-----------|----------------|---------|----------------|----------|-------------|---------|-----------|
| Constituent                            | Result | Units                                                                | PQL                  | MDL | Method | Prep Date | Run Date/Time  | Analyst | Instru-ment ID | Dilution | QC Batch ID | MB Bias | Lab Quals |
| Gasoline Range Organics (C4 - C12)     | ND     | ug/L                                                                 | 50                   |     | Luft   | 07/28/06  | 07/29/06 03:56 | CAW     | GC-V4          | 1        | BPG1407     | ND      |           |
| a,a,a-Trifluorotoluene (FID Surrogate) | 83.2   | %                                                                    | 70 - 130 (LCL - UCL) |     | Luft   | 07/28/06  | 07/29/06 03:56 | CAW     | GC-V4          | 1        | BPG1407     |         |           |



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## Volatile Organic Analysis (EPA Method 8260) Quality Control Report - Precision & Accuracy

| Constituent                       | Batch ID | QC Sample Type         | Source Sample ID | Source Result | Result | Spike Added | Units | RPD  | Percent Recovery | Control Limits |                            |
|-----------------------------------|----------|------------------------|------------------|---------------|--------|-------------|-------|------|------------------|----------------|----------------------------|
|                                   |          |                        |                  |               |        |             |       |      |                  | RPD            | Percent Recovery Lab Quals |
| Benzene                           | BPG0975  | Matrix Spike           | 0607256-01       | ND            | 25.370 | 25.000      | ug/L  |      | 101              |                | 70 - 130                   |
|                                   |          | Matrix Spike Duplicate | 0607256-01       | ND            | 24.790 | 25.000      | ug/L  | 1.80 | 99.2             | 20             | 70 - 130                   |
| Toluene                           | BPG0975  | Matrix Spike           | 0607256-01       | ND            | 23.770 | 25.000      | ug/L  |      | 95.1             |                | 70 - 130                   |
|                                   |          | Matrix Spike Duplicate | 0607256-01       | ND            | 23.150 | 25.000      | ug/L  | 2.66 | 92.6             | 20             | 70 - 130                   |
| 1,2-Dichloroethane-d4 (Surrogate) | BPG0975  | Matrix Spike           | 0607256-01       | ND            | 10.320 | 10.000      | ug/L  |      | 103              |                | 76 - 114                   |
|                                   |          | Matrix Spike Duplicate | 0607256-01       | ND            | 10.590 | 10.000      | ug/L  |      | 106              |                | 76 - 114                   |
| Toluene-d8 (Surrogate)            | BPG0975  | Matrix Spike           | 0607256-01       | ND            | 9.8000 | 10.000      | ug/L  |      | 98.0             |                | 88 - 110                   |
|                                   |          | Matrix Spike Duplicate | 0607256-01       | ND            | 9.7900 | 10.000      | ug/L  |      | 97.9             |                | 88 - 110                   |
| 4-Bromofluorobenzene (Surrogate)  | BPG0975  | Matrix Spike           | 0607256-01       | ND            | 10.060 | 10.000      | ug/L  |      | 101              |                | 86 - 115                   |
|                                   |          | Matrix Spike Duplicate | 0607256-01       | ND            | 10.190 | 10.000      | ug/L  |      | 102              |                | 86 - 115                   |
| Benzene                           | BPG0976  | Matrix Spike           | 0607256-02       | ND            | 27.830 | 25.000      | ug/L  |      | 111              |                | 70 - 130                   |
|                                   |          | Matrix Spike Duplicate | 0607256-02       | ND            | 26.080 | 25.000      | ug/L  | 6.51 | 104              | 20             | 70 - 130                   |
| Toluene                           | BPG0976  | Matrix Spike           | 0607256-02       | ND            | 25.980 | 25.000      | ug/L  |      | 104              |                | 70 - 130                   |
|                                   |          | Matrix Spike Duplicate | 0607256-02       | ND            | 23.770 | 25.000      | ug/L  | 8.94 | 95.1             | 20             | 70 - 130                   |
| 1,2-Dichloroethane-d4 (Surrogate) | BPG0976  | Matrix Spike           | 0607256-02       | ND            | 10.780 | 10.000      | ug/L  |      | 108              |                | 76 - 114                   |
|                                   |          | Matrix Spike Duplicate | 0607256-02       | ND            | 10.650 | 10.000      | ug/L  |      | 106              |                | 76 - 114                   |
| Toluene-d8 (Surrogate)            | BPG0976  | Matrix Spike           | 0607256-02       | ND            | 9.9800 | 10.000      | ug/L  |      | 99.8             |                | 88 - 110                   |
|                                   |          | Matrix Spike Duplicate | 0607256-02       | ND            | 9.9400 | 10.000      | ug/L  |      | 99.4             |                | 88 - 110                   |
| 4-Bromofluorobenzene (Surrogate)  | BPG0976  | Matrix Spike           | 0607256-02       | ND            | 9.8900 | 10.000      | ug/L  |      | 98.9             |                | 86 - 115                   |
|                                   |          | Matrix Spike Duplicate | 0607256-02       | ND            | 10.050 | 10.000      | ug/L  |      | 100              |                | 86 - 115                   |
| Benzene                           | BPG1376  | Matrix Spike           | 0606841-39       | ND            | 22.330 | 25.000      | ug/L  |      | 89.3             |                | 70 - 130                   |
|                                   |          | Matrix Spike Duplicate | 0606841-39       | ND            | 24.110 | 25.000      | ug/L  | 7.65 | 96.4             | 20             | 70 - 130                   |
| Toluene                           | BPG1376  | Matrix Spike           | 0606841-39       | ND            | 20.240 | 25.000      | ug/L  |      | 81.0             |                | 70 - 130                   |
|                                   |          | Matrix Spike Duplicate | 0606841-39       | ND            | 21.660 | 25.000      | ug/L  | 6.68 | 86.6             | 20             | 70 - 130                   |
| 1,2-Dichloroethane-d4 (Surrogate) | BPG1376  | Matrix Spike           | 0606841-39       | ND            | 11.040 | 10.000      | ug/L  |      | 110              |                | 76 - 114                   |
|                                   |          | Matrix Spike Duplicate | 0606841-39       | ND            | 11.420 | 10.000      | ug/L  |      | 114              |                | 76 - 114                   |



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## Volatile Organic Analysis (EPA Method 8260) Quality Control Report - Precision & Accuracy

| Constituent                      | Batch ID | QC Sample Type         | Source<br>Sample ID | Source<br>Result | Result | Spike<br>Added | Units | RPD | Percent<br>Recovery | Control Limits |                               |
|----------------------------------|----------|------------------------|---------------------|------------------|--------|----------------|-------|-----|---------------------|----------------|-------------------------------|
|                                  |          |                        |                     |                  |        |                |       |     |                     | RPD            | Percent<br>Recovery Lab Quals |
| Toluene-d8 (Surrogate)           | BPG1376  | Matrix Spike           | 0606841-39          | ND               | 10.070 | 10.000         | ug/L  |     | 101                 | 88 - 110       |                               |
|                                  |          | Matrix Spike Duplicate | 0606841-39          | ND               | 10.060 | 10.000         | ug/L  |     | 101                 | 88 - 110       |                               |
| 4-Bromofluorobenzene (Surrogate) | BPG1376  | Matrix Spike           | 0606841-39          | ND               | 10.530 | 10.000         | ug/L  |     | 105                 | 86 - 115       |                               |
|                                  |          | Matrix Spike Duplicate | 0606841-39          | ND               | 10.140 | 10.000         | ug/L  |     | 101                 | 86 - 115       |                               |



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## Purgeable Aromatics and Total Petroleum Hydrocarbons Quality Control Report - Precision & Accuracy

| Constituent                            | Batch ID | QC Sample Type         | Source Sample ID | Source Result | Result | Spike Added | Units | RPD  | Percent Recovery | Control Limits |                            |
|----------------------------------------|----------|------------------------|------------------|---------------|--------|-------------|-------|------|------------------|----------------|----------------------------|
|                                        |          |                        |                  |               |        |             |       |      |                  | RPD            | Percent Recovery Lab Quals |
| Gasoline Range Organics (C4 - C12)     | BPG1407  | Matrix Spike           | 0606841-33       | ND            | 924.80 | 1000.0      | ug/L  |      | 92.5             |                | 70 - 130                   |
|                                        |          | Matrix Spike Duplicate | 0606841-33       | ND            | 901.30 | 1000.0      | ug/L  | 2.63 | 90.1             | 20             | 70 - 130                   |
| a,a,a-Trifluorotoluene (FID Surrogate) | BPG1407  | Matrix Spike           | 0606841-33       | ND            | 37.390 | 40.000      | ug/L  |      | 93.5             |                | 70 - 130                   |
|                                        |          | Matrix Spike Duplicate | 0606841-33       | ND            | 39.020 | 40.000      | ug/L  |      | 97.6             |                | 70 - 130                   |



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### Volatile Organic Analysis (EPA Method 8260) Quality Control Report - Laboratory Control Sample

| Constituent                       | Batch ID | QC Sample ID | QC Type | Result | Spike Level | PQL  | Units | Percent Recovery | RPD | Control Limits   |     | Lab Quals |
|-----------------------------------|----------|--------------|---------|--------|-------------|------|-------|------------------|-----|------------------|-----|-----------|
|                                   |          |              |         |        |             |      |       |                  |     | Percent Recovery | RPD |           |
| Benzene                           | BPG0975  | BPG0975-BS1  | LCS     | 25.720 | 25.000      | 0.50 | ug/L  | 103              |     | 70 - 130         |     |           |
| Toluene                           | BPG0975  | BPG0975-BS1  | LCS     | 24.280 | 25.000      | 0.50 | ug/L  | 97.1             |     | 70 - 130         |     |           |
| 1,2-Dichloroethane-d4 (Surrogate) | BPG0975  | BPG0975-BS1  | LCS     | 10.140 | 10.000      |      | ug/L  | 101              |     | 76 - 114         |     |           |
| Toluene-d8 (Surrogate)            | BPG0975  | BPG0975-BS1  | LCS     | 9.7400 | 10.000      |      | ug/L  | 97.4             |     | 88 - 110         |     |           |
| 4-Bromofluorobenzene (Surrogate)  | BPG0975  | BPG0975-BS1  | LCS     | 10.180 | 10.000      |      | ug/L  | 102              |     | 86 - 115         |     |           |
| Benzene                           | BPG0976  | BPG0976-BS1  | LCS     | 26.480 | 25.000      | 0.50 | ug/L  | 106              |     | 70 - 130         |     |           |
| Toluene                           | BPG0976  | BPG0976-BS1  | LCS     | 24.900 | 25.000      | 0.50 | ug/L  | 99.6             |     | 70 - 130         |     |           |
| 1,2-Dichloroethane-d4 (Surrogate) | BPG0976  | BPG0976-BS1  | LCS     | 10.550 | 10.000      |      | ug/L  | 106              |     | 76 - 114         |     |           |
| Toluene-d8 (Surrogate)            | BPG0976  | BPG0976-BS1  | LCS     | 10.000 | 10.000      |      | ug/L  | 100              |     | 88 - 110         |     |           |
| 4-Bromofluorobenzene (Surrogate)  | BPG0976  | BPG0976-BS1  | LCS     | 10.020 | 10.000      |      | ug/L  | 100              |     | 86 - 115         |     |           |
| Benzene                           | BPG1376  | BPG1376-BS1  | LCS     | 22.010 | 25.000      | 0.50 | ug/L  | 88.0             |     | 70 - 130         |     |           |
| Toluene                           | BPG1376  | BPG1376-BS1  | LCS     | 19.130 | 25.000      | 0.50 | ug/L  | 76.5             |     | 70 - 130         |     |           |
| 1,2-Dichloroethane-d4 (Surrogate) | BPG1376  | BPG1376-BS1  | LCS     | 10.950 | 10.000      |      | ug/L  | 110              |     | 76 - 114         |     |           |
| Toluene-d8 (Surrogate)            | BPG1376  | BPG1376-BS1  | LCS     | 10.040 | 10.000      |      | ug/L  | 100              |     | 88 - 110         |     |           |
| 4-Bromofluorobenzene (Surrogate)  | BPG1376  | BPG1376-BS1  | LCS     | 10.350 | 10.000      |      | ug/L  | 104              |     | 86 - 115         |     |           |



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## Purgeable Aromatics and Total Petroleum Hydrocarbons Quality Control Report - Laboratory Control Sample

| Constituent                            | Batch ID | QC Sample ID | QC Type | Result | Spike Level | PQL | Units | Percent Recovery | Control Limits |                      | Lab Quals |
|----------------------------------------|----------|--------------|---------|--------|-------------|-----|-------|------------------|----------------|----------------------|-----------|
|                                        |          |              |         |        |             |     |       |                  | RPD            | Percent Recovery RPD |           |
| Gasoline Range Organics (C4 - C12)     | BPG1407  | BPG1407-BS1  | LCS     | 911.44 | 1000.0      | 50  | ug/L  | 91.1             |                | 85 - 115             |           |
| a,a,a-Trifluorotoluene (FID Surrogate) | BPG1407  | BPG1407-BS1  | LCS     | 39.030 | 40.000      |     | ug/L  | 97.6             |                | 70 - 130             |           |

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## Volatile Organic Analysis (EPA Method 8260)

### Quality Control Report - Method Blank Analysis

| Constituent                       | Batch ID | QC Sample ID | MB Result | Units | PQL                  | MDL   | Lab Quals |
|-----------------------------------|----------|--------------|-----------|-------|----------------------|-------|-----------|
| Benzene                           | BPG0975  | BPG0975-BLK1 | ND        | ug/L  | 0.50                 | 0.14  |           |
| Ethylbenzene                      | BPG0975  | BPG0975-BLK1 | ND        | ug/L  | 0.50                 | 0.094 |           |
| Methyl t-butyl ether              | BPG0975  | BPG0975-BLK1 | ND        | ug/L  | 0.50                 | 0.13  |           |
| Toluene                           | BPG0975  | BPG0975-BLK1 | ND        | ug/L  | 0.50                 | 0.12  |           |
| Total Xylenes                     | BPG0975  | BPG0975-BLK1 | ND        | ug/L  | 0.50                 | 0.35  |           |
| t-Amyl Methyl ether               | BPG0975  | BPG0975-BLK1 | ND        | ug/L  | 0.50                 | 0.49  |           |
| t-Butyl alcohol                   | BPG0975  | BPG0975-BLK1 | ND        | ug/L  | 10                   | 9.3   |           |
| Diisopropyl ether                 | BPG0975  | BPG0975-BLK1 | ND        | ug/L  | 0.50                 | 0.25  |           |
| Ethanol                           | BPG0975  | BPG0975-BLK1 | ND        | ug/L  | 250                  | 110   |           |
| 1,2-Dichloroethane-d4 (Surrogate) | BPG0975  | BPG0975-BLK1 | 110       | %     | 76 - 114 (LCL - UCL) |       |           |
| Toluene-d8 (Surrogate)            | BPG0975  | BPG0975-BLK1 | 97.6      | %     | 88 - 110 (LCL - UCL) |       |           |
| 4-Bromofluorobenzene (Surrogate)  | BPG0975  | BPG0975-BLK1 | 105       | %     | 86 - 115 (LCL - UCL) |       |           |
| Benzene                           | BPG0976  | BPG0976-BLK1 | ND        | ug/L  | 0.50                 | 0.14  |           |
| Ethylbenzene                      | BPG0976  | BPG0976-BLK1 | ND        | ug/L  | 0.50                 | 0.094 |           |
| Methyl t-butyl ether              | BPG0976  | BPG0976-BLK1 | ND        | ug/L  | 0.50                 | 0.13  |           |
| Toluene                           | BPG0976  | BPG0976-BLK1 | ND        | ug/L  | 0.50                 | 0.12  |           |
| Total Xylenes                     | BPG0976  | BPG0976-BLK1 | ND        | ug/L  | 0.50                 | 0.35  |           |
| t-Amyl Methyl ether               | BPG0976  | BPG0976-BLK1 | ND        | ug/L  | 0.50                 | 0.49  |           |
| t-Butyl alcohol                   | BPG0976  | BPG0976-BLK1 | ND        | ug/L  | 10                   | 9.3   |           |
| Diisopropyl ether                 | BPG0976  | BPG0976-BLK1 | ND        | ug/L  | 0.50                 | 0.25  |           |
| Ethanol                           | BPG0976  | BPG0976-BLK1 | ND        | ug/L  | 250                  | 110   |           |
| 1,2-Dichloroethane-d4 (Surrogate) | BPG0976  | BPG0976-BLK1 | 113       | %     | 76 - 114 (LCL - UCL) |       |           |
| Toluene-d8 (Surrogate)            | BPG0976  | BPG0976-BLK1 | 96.9      | %     | 88 - 110 (LCL - UCL) |       |           |
| 4-Bromofluorobenzene (Surrogate)  | BPG0976  | BPG0976-BLK1 | 104       | %     | 86 - 115 (LCL - UCL) |       |           |
| Benzene                           | BPG1376  | BPG1376-BLK1 | ND        | ug/L  | 0.50                 | 0.14  |           |
| Ethylbenzene                      | BPG1376  | BPG1376-BLK1 | ND        | ug/L  | 0.50                 | 0.094 |           |

BC Laboratories

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

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TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 6034  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 08/14/06 13:27

## Volatile Organic Analysis (EPA Method 8260) Quality Control Report - Method Blank Analysis

| Constituent                       | Batch ID | QC Sample ID | MB Result | Units | PQL                  | MDL  | Lab Quals |
|-----------------------------------|----------|--------------|-----------|-------|----------------------|------|-----------|
| Methyl t-butyl ether              | BPG1376  | BPG1376-BLK1 | ND        | ug/L  | 0.50                 | 0.13 |           |
| Toluene                           | BPG1376  | BPG1376-BLK1 | ND        | ug/L  | 0.50                 | 0.12 |           |
| Total Xylenes                     | BPG1376  | BPG1376-BLK1 | ND        | ug/L  | 0.50                 | 0.35 |           |
| t-Amyl Methyl ether               | BPG1376  | BPG1376-BLK1 | ND        | ug/L  | 0.50                 | 0.49 |           |
| t-Butyl alcohol                   | BPG1376  | BPG1376-BLK1 | ND        | ug/L  | 10                   | 9.3  |           |
| Diisopropyl ether                 | BPG1376  | BPG1376-BLK1 | ND        | ug/L  | 0.50                 | 0.25 |           |
| Ethanol                           | BPG1376  | BPG1376-BLK1 | ND        | ug/L  | 250                  | 110  |           |
| 1,2-Dichloroethane-d4 (Surrogate) | BPG1376  | BPG1376-BLK1 | 106       | %     | 76 - 114 (LCL - UCL) |      |           |
| Toluene-d8 (Surrogate)            | BPG1376  | BPG1376-BLK1 | 97.8      | %     | 88 - 110 (LCL - UCL) |      |           |
| 4-Bromofluorobenzene (Surrogate)  | BPG1376  | BPG1376-BLK1 | 103       | %     | 86 - 115 (LCL - UCL) |      |           |



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 6034  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

## Purgeable Aromatics and Total Petroleum Hydrocarbons Quality Control Report - Method Blank Analysis

| Constituent                            | Batch ID | QC Sample ID | MB Result | Units | PQL                  | MDL | Lab Quals |
|----------------------------------------|----------|--------------|-----------|-------|----------------------|-----|-----------|
| Gasoline Range Organics (C4 - C12)     | BPG1407  | BPG1407-BLK1 | ND        | ug/L  | 50                   | 6.5 |           |
| a,a,a-Trifluorotoluene (FID Surrogate) | BPG1407  | BPG1407-BLK1 | 87.6      | %     | 70 - 130 (LCL - UCL) |     |           |



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 6034  
Project Number: [none]  
Project Manager: Anju Farfan

**Reported:** 08/02/06 09:30

**Notes and Definitions**

- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.
- J Estimated value
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Submission #: 06-07335 Project Code: \_\_\_\_\_

TB Batch # \_\_\_\_\_

SHIPPING INFORMATION

Federal Express  UPS  Hand Delivery   
BC Lab Field Service  Other  (Specify) \_\_\_\_\_

SHIPPING CONTAINER

Ice Chest  None   
Box  Other  (Specify) \_\_\_\_\_

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments: \_\_\_\_\_  
Intact? Yes  No  Intact? Yes  No

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received  
 YES  NO

Ice Chest ID: BLW  
Temperature: 5.6 °C  
Thermometer ID: #48

Emissivity 0.98  
Container VOAS

Date/Time 7/20/06  
Analyst Init OTO

| SAMPLE CONTAINERS                    | SAMPLE NUMBERS |     |     |     |     |     |   |   |   |    |
|--------------------------------------|----------------|-----|-----|-----|-----|-----|---|---|---|----|
|                                      | 1              | 2   | 3   | 4   | 5   | 6   | 7 | 8 | 9 | 10 |
| QT GENERAL MINERAL/ GENERAL PHYSICAL |                |     |     |     |     |     |   |   |   |    |
| PT PE UNPRESERVED                    |                |     |     |     |     |     |   |   |   |    |
| QT INORGANIC CHEMICAL METALS         |                |     |     |     |     |     |   |   |   |    |
| PT INORGANIC CHEMICAL METALS         |                |     |     |     |     |     |   |   |   |    |
| PT CYANIDE                           |                |     |     |     |     |     |   |   |   |    |
| PT NITROGEN FORMS                    |                |     |     |     |     |     |   |   |   |    |
| PT TOTAL SULFIDE                     |                |     |     |     |     |     |   |   |   |    |
| 2oz. NITRATE / NITRITE               |                |     |     |     |     |     |   |   |   |    |
| 100ml TOTAL ORGANIC CARBON           |                |     |     |     |     |     |   |   |   |    |
| QT TOX                               |                |     |     |     |     |     |   |   |   |    |
| PT CHEMICAL OXYGEN DEMAND            |                |     |     |     |     |     |   |   |   |    |
| PTA PHENOLICS                        |                |     |     |     |     |     |   |   |   |    |
| 40ml VOA VIAL TRAVEL BLANK           |                |     |     |     |     |     |   |   |   |    |
| 40ml VOA VIAL                        | A.G            | A.G | A.G | A.G | A.G | A.G |   |   |   |    |
| QT EPA 413.1, 413.2, 418.1           |                |     |     |     |     |     |   |   |   |    |
| PT ODOR                              |                |     |     |     |     |     |   |   |   |    |
| RADIOLOGICAL                         |                |     |     |     |     |     |   |   |   |    |
| BACTERIOLOGICAL                      |                |     |     |     |     |     |   |   |   |    |
| 40 ml VOA VIAL- 504                  |                |     |     |     |     |     |   |   |   |    |
| QT EPA 508/608/8080                  |                |     |     |     |     |     |   |   |   |    |
| QT EPA 515.1/8150                    |                |     |     |     |     |     |   |   |   |    |
| QT EPA 525                           |                |     |     |     |     |     |   |   |   |    |
| QT EPA 525 TRAVEL BLANK              |                |     |     |     |     |     |   |   |   |    |
| 100ml EPA 547                        |                |     |     |     |     |     |   |   |   |    |
| 100ml EPA 531.1                      |                |     |     |     |     |     |   |   |   |    |
| QT EPA 548                           |                |     |     |     |     |     |   |   |   |    |
| QT EPA 549                           |                |     |     |     |     |     |   |   |   |    |
| QT EPA 632                           |                |     |     |     |     |     |   |   |   |    |
| QT EPA 8015M                         |                |     |     |     |     |     |   |   |   |    |
| QT QA/QC                             |                |     |     |     |     |     |   |   |   |    |
| QT AMBER                             |                |     |     |     |     |     |   |   |   |    |
| 8 OZ. JAR                            |                |     |     |     |     |     |   |   |   |    |
| 32 OZ. JAR                           |                |     |     |     |     |     |   |   |   |    |
| SOIL SLEEVE                          |                |     |     |     |     |     |   |   |   |    |
| PCB VIAL                             |                |     |     |     |     |     |   |   |   |    |
| PLASTIC BAG                          |                |     |     |     |     |     |   |   |   |    |
| FERROUS IRON                         |                |     |     |     |     |     |   |   |   |    |
| ENCORE                               |                |     |     |     |     |     |   |   |   |    |

Comments: \_\_\_\_\_

Sample Numbering Completed By: OTO Date/Time: 7/21/06 0100

CHK BY **DISTRIBUTION**  
  
 SUB-OUT

**BC LABORATORIES, INC.**

4100 Atlas Court Bakersfield, CA 93308  
 (661) 327-4911 FAX (661) 327-1918

**CHAIN OF CUSTODY**

**06-07335** Analysis Requested

|                                  |  |                                                                   |  |                                                                            |                                                                                                                                                                                                                                    |                           |
|----------------------------------|--|-------------------------------------------------------------------|--|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Circle one: Phillips 66 / Unocal |  | Consultant Firm: TRC                                              |  | MATRIX (GW)<br>Ground-water (S)<br>Soil (WW)<br>Waste-water (SL)<br>Sludge | BTEX/MTBE by 8021B, Gas by 8015<br>TPH GAS by 8015M<br>TPH DIESEL by 8015<br>8260 full list w/ MTBE & oxygenates<br>BTEX/MTBE/DIPE/TBATA/ME BY 8260B<br>ETHANOL by 8260B <i>inf. 8-10-06</i><br>TPH-g by GC/MS<br>EDB/EDC by 8260B | Turnaround Time Requested |
| Address: 4700 First St.          |  | 21 Technology Drive<br>Irvine, CA 92618-2302<br>Attn: Anju Farfan |  |                                                                            |                                                                                                                                                                                                                                    |                           |
| City: Livermore                  |  | 4-digit site#: 6034                                               |  |                                                                            |                                                                                                                                                                                                                                    |                           |
| State: CA Zip:                   |  | Work Order#                                                       |  |                                                                            |                                                                                                                                                                                                                                    |                           |
| COP Manager: Shelby Lathrop      |  | Project #: 41060001/FA20                                          |  |                                                                            |                                                                                                                                                                                                                                    |                           |
| Sampler Name:                    |  |                                                                   |  |                                                                            |                                                                                                                                                                                                                                    |                           |

| Lab# | Sample Description | Field Point Name | Date & Time Sampled |    |   |  |   |   |  |  |  |  |     |
|------|--------------------|------------------|---------------------|----|---|--|---|---|--|--|--|--|-----|
|      | -1                 | MW-1             | 7/19/06 1538        | GW | X |  | X | X |  |  |  |  | STD |
|      | -2                 | MW-2             | " 1452              | GW | X |  | X | X |  |  |  |  | STD |
|      | -3                 | MW-3             | " 1402              | GW | X |  | X | X |  |  |  |  | STD |
|      | -4                 | MW-4             | " 1342              | GW | X |  | X | X |  |  |  |  | STD |
|      | -5                 | MW-5             | " 1427              | GW | X |  | X | X |  |  |  |  | STD |
|      | -6                 | MW-7             | " 1514              | GW | X |  | X | X |  |  |  |  | STD |
|      |                    |                  |                     | GW | x |  | X | X |  |  |  |  | STD |

|                                                                                                                                                                                                                             |                                                         |                                  |                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------|---------------------------|
| Comments: Please send EDF deliverables to Daniel Davis <a href="mailto:ddavis@deltaenv.com">ddavis@deltaenv.com</a> Ben Wright <a href="mailto:bwright@deltaenv.com">bwright@deltaenv.com</a><br><br>Global ID: T0600101477 | Relinquished by: <i>D. Christopher</i>                  | Received by: <i>Refrigerator</i> | Date & Time: 7/19/06 1800 |
|                                                                                                                                                                                                                             | Relinquished by (Signature): <i>[Signature]</i>         | Received by: <i>Ross Dickey</i>  | Date & Time: 7/20/06 1515 |
|                                                                                                                                                                                                                             | Relinquished by (Signature): <i>Ross Dickey 7/20/06</i> | Received by: <i>Teri Obaseni</i> | Date & Time: 7-20-06 1825 |

(A) = ANALYSIS

(C) = CONTAINER

(P) = PRESERVATIVE

*Teri Obaseni 7/20/06 2100*

## **STATEMENTS**

### **Purge Water Disposal**

Non-hazardous groundwater produced during purging and sampling was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc., to the ConocoPhillips Refinery at Rodeo, California. Disposal at the Rodeo facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures – Water Quality and Compliance", as revised on February 7, 2003. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file at TRC's Concord Office. Purge water suspected of containing potentially hazardous material, such as liquid-phase hydrocarbons, was accumulated separately in a drum for transportation and disposal by Filter Recycling, Inc.

### **Limitations**

The fluid level monitoring and groundwater sampling activities summarized in this report have been performed under the responsible charge of a California Registered Geologist or Registered Civil Engineer and have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.