ConocoPhillips
76 Broadway
Sacramento, California 95818

July 28, 2006

Mr. Don Hwang
Alameda County Health Agency
1131 Harbor Bay Parkway
Alameda, California 94502

Re: **Report Transmittal**
**Quarterly Report**
**Second Quarter – 2006 and Request for Closure Status**
**76 Service Station #0018**
**6201 Claremont Avenue**
**Oakland, CA**

Dear Mr. Hwang:

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,

Thomas Kosel
Risk Management & Remediation

Attachment

TRC
Customer-Focused Solutions

July 28, 2006 TRC Project No. 42016510

Mr. Don Hwang
Hazardous Materials Specialist
Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, California 94502-6577

**RE: Quarterly Status Report – Second Quarter 2006 and Request for Closure Status**
**76 Service Station #0018, 6201 Claremont Avenue, Oakland, California**
**Alameda County**

Dear Mr. Hwang:

On behalf of ConocoPhillips Company (ConocoPhillips), TRC is submitting the Second Quarter 2006 Status Report and Request for Closure Status for the subject site.

## PREVIOUS ASSESSMENTS

The subject site is an active service station located on the northern corner of the intersection of Claremont and College Avenues in Oakland, California. The nearest surface water is Claremont Creek, approximately 0.1 mile northeast of the site.

March 1997: Kaprealian Engineering Inc. (KEI) collected soil and grab groundwater samples during underground storage tank (UST) and product line replacement activities. A groundwater sample collected from the former gasoline UST excavation contained 6,100 parts per billion (ppb) total petroleum hydrocarbons as gasoline and 54 ppb benzene.

March 1998: Tosco was issued a Notice of Responsibility by the Alameda County Health Care Services (ACHCS).

December 2000: Gettler-Ryan Inc. installed three groundwater-monitoring wells to depths of 30 to 30.5 feet below ground surface (bgs). Groundwater samples contained low concentrations of total petroleum hydrocarbons as gasoline (TPH-g), benzene, and methyl tertiary butyl ether (MTBE).

October 2003: Site environmental consulting responsibilities were transferred to TRC.

## SENSITIVE RECEPTORS

April 24, 2006: TRC completed a sensitive receptor survey for the site. According to the Department of Water Resources (DWR) records, no water supply wells are located within a one-half mile radius of the Site. In addition, no surface water bodies were identified within one-half mile radius of the Site.

## MONITORING AND SAMPLING

Three onsite wells are currently monitored quarterly. All three wells were gauged and sampled this quarter. The groundwater gradient flow direction is toward the south at a calculated hydraulic gradient of 0.02 feet per foot.

## CHARACTERIZATION STATUS

Total petroleum hydrocarbons as gasoline (TPH-g) were detected in one of the three site wells with a maximum concentration of 66 micrograms per liter (µg/l) in well MW-1.

Benzene was not detected above laboratory reporting limits in the three wells sampled.

MTBE was detected in one of three site wells at a concentration of 16 µg/l in well MW-1.

## REMEDIATION STATUS

Remediation is not currently being conducted at the site.

## RECENT CORRESPONDENCE

January 6, 2006: TRC submitted a No Further Action Required Report - Request For Closure to the ACHCS.

April 24, 2006: TRC submitted a Sensitive Receptor Survey Report to the ACHCS. No current or potential sensitive receptors were identified within one-half mile of the subject site.

## CURRENT QUARTER ACTIVITIES

June 8, 2006: TRC performed groundwater monitoring and sampling. Wastewater generated from well purging and equipment cleaning was stored at TRC's groundwater monitoring facility in Concord, California, and transported by Onyx to the ConocoPhillips Refinery in Rodeo, California, for treatment and disposal.

## CONCLUSIONS AND RECOMMENDATIONS

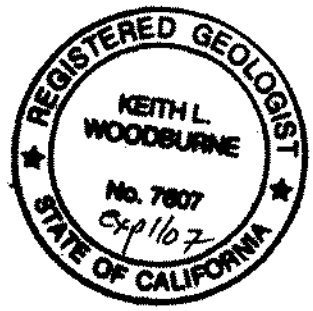
Based on the low residual TPPH and MTBE concentrations in groundwater in MW-1 and on the non-detect concentrations reported in site wells MW-2 and MW-3 over the past several years, and on the absence of any current or potential receptors within a one-half mile radius of the Site, TRC recommend no further action in January 2006 and requested the site be referred for closure.

TRC recommends discontinuing groundwater monitoring and sampling pending review of no further action and site closure request by ACHCS. Additionally, TRC also requests an update on the January 2006 recommendation for no further action and closure review.

If you have any questions regarding this report, please call me at (925) 688-2488.

Sincerely,
*TRC*

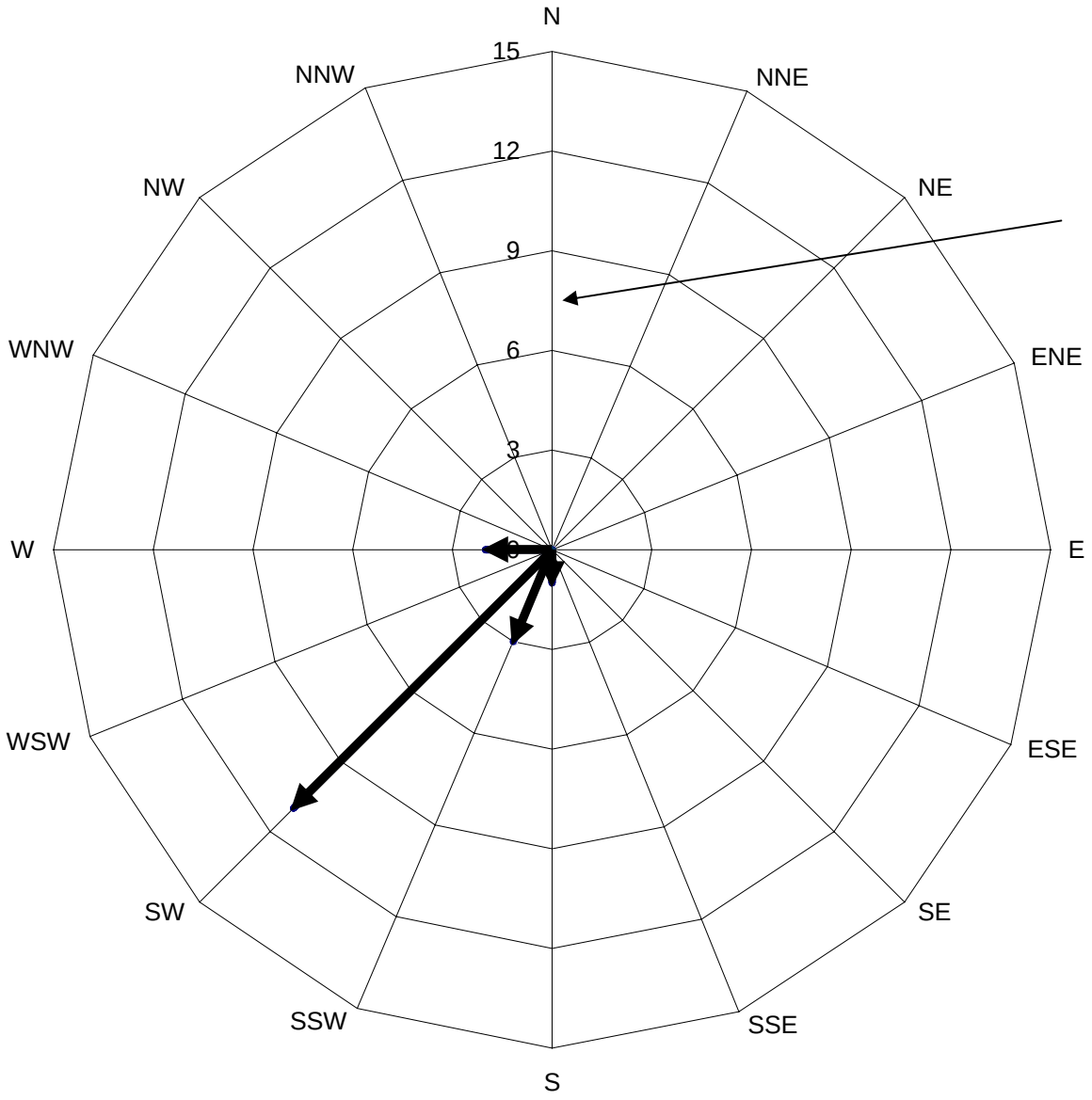
Keith Woodburne, P.G.
Senior Project Geologist




Attachment:
Quarterly Monitoring Report, April through June 2006 (TRC, July 13, 2006)
Historical Groundwater Flow Directions – October 2000 through June 2006

cc: Shelby Lathrop, ConocoPhillips (electronic upload only)

**Historical Groundwater Flow Directions**
**for Tosco (76) Service Station No. 0018**
**October 2000 through June 2006**




Number of monitoring events in which groundwater was reported to flow in a particular direction.

TRC

TRC

July 13, 2006

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

ATTN: MS. SHELBY LATHROP

SITE: 76 STATION 0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2006

Dear Ms. Lathrop:

Please find enclosed our Quarterly Monitoring Report for 76 Station 0018, located at 6201 Claremont Avenue, Oakland, 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. Keith Woodburne, TRC (4 copies)

Enclosures
20-0400/0018R11.QMS

21 Technology Drive • Irvine, California 92618
Main: 949-727-9336 • Fax: 949-727-7399
www.trcsolutions.com

TRC

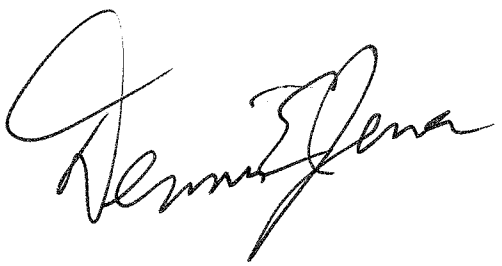
# QUARTERLY MONITORING REPORT
# APRIL THROUGH JUNE 2006

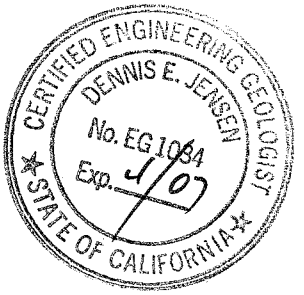
76 STATION 0018
6201 Claremont Avenue
Oakland, California

Prepared For:

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

By:






Senior Project Geologist, Irvine Operations
July 12, 2006

21 Technology Drive • Irvine, California 92618
Main: 949-727-9336 • Fax: 949-727-7399
www.trcsolutions.com

| 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 Current Analytical Results |
| Figures | Figure 1: Vicinity Map<br>Figure 2: Groundwater Elevation Contour Map<br>Figure 3: Dissolved-Phase TPH-G (GC/MS) 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 – 06/08/06<br>Groundwater Sampling Field Notes – 06/08/06 |
| 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
# April 2006 through June 2006
# 76 Station 0018
# 6201 Claremont Boulevard
# Oakland, CA

Project Coordinator: **Shelby Lathrop**
Telephone: **916-558-7609**
Water Sampling Contractor: ***TRC***
Compiled by: **Christina Carrillo**
Date(s) of Gauging/Sampling Event: **06/08/06**

## Sample Points

Groundwater wells: **3** onsite, **0** offsite Wells gauged: **3** Wells sampled: **3**
Purging method: **Diaphragm pump**
Purge water disposal: **Onyx/Rodeo Unit 100**
Other Sample Points: **0** Type: **n/a**

## 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: **13.82 feet** Maximum: **15.36 feet**
Average groundwater elevation (relative to available local datum): **194.65 feet**
Average change in groundwater elevation since previous event: **-2.15 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.02 ft/ft, south**
Previous event: **0.006 ft/ft, south (03/08/06)**

## Selected Laboratory Results

Wells with detected **Benzene:** **0** Wells above MCL (1.0 µg/l): **n/a**
Maximum reported benzene concentration: **n/a**

Wells with **TPH-G by GC/MS** **1** Maximum: **66 µg/l (MW-1)**
Wells with **MTBE** **1** Maximum: **16 µg/l (MW-1)**

## Notes:

This report presents the results of groundwater monitoring and sampling activities performed by TRC. Please contact the primary consultant for other specific information on this site.

# TABLES

# TABLE KEY

STANDARD ABBREVIATIONS

| | | |
|---|---|---|
| -- | = | not analyzed, measured, or collected |
| LPH | = | liquid-phase hydrocarbons |
| Trace | = | less than 0.01 foot of LPH in well |
| µg/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: Surface Elevation – Measured Depth to Water + (Dp x 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 0018 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

# Contents of Tables
# Site: 76 Station 0018

## Current Event



## Historic Data

**Table 1**

**CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

**June 8, 2006**

**76 Station 0018**

| 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) | |
| **MW-1** | | **(Screen Interval in feet: 10.0-30.0)** | | | | | | | | | | | | |
| 06/08/06 | 208.15 | 14.28 | 0.00 | 193.87 | -2.59 | -- | 66 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 16 | |
| **MW-2** | | **(Screen Interval in feet: 10.0-30.0)** | | | | | | | | | | | | |
| 06/08/06 | 210.27 | 15.36 | 0.00 | 194.91 | -2.11 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| **MW-3** | | **(Screen Interval in feet: 10.0-30.0)** | | | | | | | | | | | | |
| 06/08/06 | 208.98 | 13.82 | 0.00 | 195.16 | -1.76 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |

**Table 1 a**
**ADDITIONAL CURRENT ANALYTICAL RESULTS**
**76 Station 0018**

| Date Sampled | TBA | Ethanol (8260B) | Ethylene-dibromide (EDB) | 1,2-DCA (EDC) | DIPE | ETBE | TAME |
|---|---|---|---|---|---|---|---|
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) |
| **MW-1** | | | | | | | |
| 06/08/06 | ND<10 | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 |
| **MW-2** | | | | | | | |
| 06/08/06 | -- | ND<250 | -- | -- | -- | -- | -- |
| **MW-3** | | | | | | | |
| 06/08/06 | -- | ND<250 | -- | -- | -- | -- | -- |

**Table 2**

**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

**August 2000 Through June 2006**

**76 Station 0018**

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-1** | **(Screen Interval in feet: 10.0-30.0)** | | | | | | | | | | | | | |
| 08/24/00 | 208.15 | 18.55 | 0.00 | 189.60 | -- | 120 | -- | 0.67 | ND | 0.86 | 1.4 | 54 | 54 | |
| 11/16/00 | 208.15 | 20.30 | 0.00 | 187.85 | -1.75 | 169 | -- | ND | 1.20 | 1.74 | 0.629 | 68.6 | 97.7 | |
| 02/09/01 | 208.15 | 20.16 | 0.00 | 187.99 | 0.14 | 330 | -- | 1.3 | ND | 1.0 | 4.6 | 140 | 150 | |
| 05/11/01 | 208.15 | 17.68 | 0.00 | 190.47 | 2.48 | 1250 | -- | ND | ND | ND | ND | 145 | 122 | |
| 08/10/01 | 208.15 | 20.38 | 0.00 | 187.77 | -2.70 | 580 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 110 | 150 | |
| 11/07/01 | 208.15 | 22.68 | 0.00 | 185.47 | -2.30 | 250 | -- | ND<0.50 | 1.5 | ND<0.50 | ND<0.50 | 120 | 100 | |
| 02/06/02 | 208.15 | 16.20 | 0.00 | 191.95 | 6.48 | 790 | -- | ND<2.5 | 12 | 8.8 | ND<2.5 | 90 | 72 | |
| 05/08/02 | 208.15 | 17.54 | 0.00 | 190.61 | -1.34 | 890 | -- | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | 78 | 81 | |
| 08/09/02 | 208.15 | 20.21 | 0.00 | 187.94 | -2.67 | -- | 450 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 100 | |
| 11/29/02 | 208.15 | 22.33 | 0.00 | 185.82 | -2.12 | -- | 110 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 72 | |
| 02/03/03 | 208.15 | 16.41 | 0.00 | 191.74 | 5.92 | -- | 540 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 40 | |
| 05/05/03 | 208.15 | 16.09 | 0.00 | 192.06 | 0.32 | -- | 670 | ND<2.5 | ND<2.5 | ND<2.5 | ND<5.0 | -- | 57 | |
| 09/04/03 | 208.15 | 21.46 | 0.00 | 186.69 | -5.37 | -- | -- | -- | -- | -- | -- | -- | -- | No analysis; past holding time |
| 11/13/03 | 208.15 | 21.52 | 0.00 | 186.63 | -0.06 | -- | 97 | ND<0.50 | 5.0 | 0.82 | 3.5 | -- | 29 | |
| 01/29/04 | 208.15 | 17.51 | 0.00 | 190.64 | 4.01 | -- | 520 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 44 | |
| 05/07/04 | 208.15 | 16.74 | 0.00 | 191.41 | 0.77 | -- | 180 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 25 | |
| 08/27/04 | 208.15 | 19.40 | 0.00 | 188.75 | -2.66 | -- | 100 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 21 | |
| 11/23/04 | 208.15 | 19.82 | 0.00 | 188.33 | -0.42 | -- | 410 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 45 | |
| 02/09/05 | 208.15 | 15.81 | 0.00 | 192.34 | 4.01 | -- | 5700 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 40 | |
| 06/16/05 | 208.15 | 15.85 | 0.00 | 192.30 | -0.04 | -- | 200 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 24 | |
| 09/27/05 | 208.15 | 19.15 | 0.00 | 189.00 | -3.30 | -- | 300 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 19 | |
| 12/30/05 | 208.15 | 14.62 | 0.00 | 193.53 | 4.53 | -- | 68 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 12 | |
| 03/08/06 | 208.15 | 11.69 | 0.00 | 196.46 | 2.93 | -- | 130 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 21 | |

**Table 2**

**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

**August 2000 Through June 2006**

**76 Station 0018**

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-1 continued** | | | | | | | | | | | | | | |
| 06/08/06 | 208.15 | 14.28 | 0.00 | 193.87 | -2.59 | -- | 66 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 16 | |
| **MW-2** | **(Screen Interval in feet: 10.0-30.0)** | | | | | | | | | | | | | |
| 08/24/00 | 210.27 | 19.69 | 0.00 | 190.58 | -- | ND | -- | ND | ND | ND | ND | ND | ND | |
| 11/16/00 | 210.27 | 21.61 | 0.00 | 188.66 | -1.92 | ND | -- | ND | ND | ND | ND | ND | ND | |
| 02/09/01 | 210.27 | 21.52 | 0.00 | 188.75 | 0.09 | ND | -- | ND | ND | ND | ND | ND | ND | |
| 05/11/01 | 210.27 | 18.76 | 0.00 | 191.51 | 2.76 | ND | -- | ND | ND | ND | ND | ND | ND | |
| 08/10/01 | 210.27 | 21.65 | 0.00 | 188.62 | -2.89 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<5.0 | ND<2.0 | |
| 11/07/01 | 210.27 | 24.25 | 0.00 | 186.02 | -2.60 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<5.0 | ND<1.0 | |
| 02/06/02 | 210.27 | 18.22 | 0.00 | 192.05 | 6.03 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | -- | |
| 05/08/02 | 210.27 | 18.63 | 0.00 | 191.64 | -0.41 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<5.0 | -- | |
| 08/09/02 | 210.27 | 21.53 | 0.00 | 188.74 | -2.90 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 11/29/02 | 210.27 | 23.73 | 0.00 | 186.54 | -2.20 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 02/03/03 | 210.27 | 17.43 | 0.00 | 192.84 | 6.30 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 05/05/03 | 210.27 | 17.15 | 0.00 | 193.12 | 0.28 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 09/04/03 | 210.27 | 22.75 | 0.00 | 187.52 | -5.60 | -- | -- | -- | -- | -- | -- | -- | -- | No analysis; past holding time |
| 11/13/03 | 210.27 | 23.02 | 0.00 | 187.25 | -0.27 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 01/29/04 | 210.27 | 18.73 | 0.00 | 191.54 | 4.29 | -- | ND<50 | 0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 05/07/04 | 210.27 | 17.79 | 0.00 | 192.48 | 0.94 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 08/27/04 | 210.27 | 19.66 | 0.00 | 190.61 | -1.87 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 11/23/04 | 210.27 | 21.20 | 0.00 | 189.07 | -1.54 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 02/09/05 | 210.27 | 16.72 | 0.00 | 193.55 | 4.48 | -- | ND<50 | 0.69 | 1.5 | ND<0.50 | 1.4 | -- | ND<0.50 | |
| 06/16/05 | 210.27 | 16.73 | 0.00 | 193.54 | -0.01 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 09/27/05 | 210.27 | 20.41 | 0.00 | 189.86 | -3.68 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 12/30/05 | 210.27 | 14.79 | 0.00 | 195.48 | 5.62 | -- | 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**

**August 2000 Through June 2006**

**76 Station 0018**

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-2 continued** | | | | | | | | | | | | | | |
| 03/08/06 | 210.27 | 13.25 | 0.00 | 197.02 | 1.54 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 06/08/06 | 210.27 | 15.36 | 0.00 | 194.91 | -2.11 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| **MW-3** | **(Screen Interval in feet: 10.0-30.0)** | | | | | | | | | | | | | |
| 08/24/00 | 208.98 | 18.68 | 0.00 | 190.30 | -- | ND | -- | ND | ND | ND | ND | 4.7 | 2.3 | |
| 11/16/00 | 208.98 | 20.56 | 0.00 | 188.42 | -1.88 | ND | -- | ND | ND | ND | ND | ND | ND | |
| 02/09/01 | 208.98 | 20.45 | 0.00 | 188.53 | 0.11 | ND | -- | ND | ND | ND | ND | ND | ND | |
| 05/11/01 | 208.98 | 17.75 | 0.00 | 191.23 | 2.70 | ND | -- | ND | ND | ND | ND | ND | ND | |
| 08/10/01 | 208.98 | 20.70 | 0.00 | 188.28 | -2.95 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<5.0 | ND<2.0 | |
| 11/07/01 | 208.98 | 23.02 | 0.00 | 185.96 | -2.32 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<5.0 | 1.5 | |
| 02/06/02 | 208.98 | 17.19 | 0.00 | 191.79 | 5.83 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | -- | |
| 05/08/02 | 208.98 | 17.59 | 0.00 | 191.39 | -0.40 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<5.0 | -- | |
| 08/09/02 | 208.98 | 20.48 | 0.00 | 188.50 | -2.89 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 11/29/02 | 208.98 | 22.64 | 0.00 | 186.34 | -2.16 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 02/03/03 | 208.98 | 16.46 | 0.00 | 192.52 | 6.18 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 05/05/03 | 208.98 | 16.16 | 0.00 | 192.82 | 0.30 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2.6 | |
| 09/04/03 | 208.98 | 21.71 | 0.00 | 187.27 | -5.55 | -- | -- | -- | -- | -- | -- | -- | -- | No analysis; past holding time |
| 11/13/03 | 208.98 | 21.93 | 0.00 | 187.05 | -0.22 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 01/29/04 | 208.98 | 17.79 | 0.00 | 191.19 | 4.14 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 05/07/04 | 208.98 | 16.79 | 0.00 | 192.19 | 1.00 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 0.55 | |
| 08/27/04 | 208.98 | 19.70 | 0.00 | 189.28 | -2.91 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 11/23/04 | 208.98 | 20.30 | 0.00 | 188.68 | -0.60 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 02/09/05 | 208.98 | 15.72 | 0.00 | 193.26 | 4.58 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 1.6 | |
| 06/16/05 | 208.98 | 15.67 | 0.00 | 193.31 | 0.05 | -- | 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**

**August 2000 Through June 2006**

**76 Station 0018**

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-3 continued** | | | | | | | | | | | | | | |
| 09/30/05 | 208.98 | 19.47 | 0.00 | 189.51 | -3.80 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | 9/27/05 samples broke during shipment. |
| 12/30/05 | 208.98 | 15.84 | 0.00 | 193.14 | 3.63 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 03/08/06 | 208.98 | 12.06 | 0.00 | 196.92 | 3.78 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 06/08/06 | 208.98 | 13.82 | 0.00 | 195.16 | -1.76 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |

**Table 2 a**
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**
**76 Station 0018**

| Date Sampled | TBA | Ethanol (8260B) | Ethylene-dibromide (EDB) | 1,2-DCA (EDC) | DIPE | ETBE | TAME |
|---|---|---|---|---|---|---|---|
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) |
| **MW-1** | | | | | | | |
| 08/24/00 | ND | ND | -- | -- | ND | ND | ND |
| 11/16/00 | ND | ND | -- | -- | ND | ND | ND |
| 02/09/01 | ND | ND | ND | ND | ND | ND | ND |
| 05/11/01 | ND | ND | ND | ND | ND | ND | ND |
| 08/10/01 | ND<100 | ND<1000 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 |
| 11/07/01 | ND<20 | ND<500 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 02/06/02 | ND<100 | ND<500 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 |
| 05/08/02 | ND<100 | ND<500 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 |
| 08/09/02 | ND<100 | ND<500 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 |
| 11/29/02 | ND<100 | ND<500 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 |
| 02/03/03 | ND<100 | ND<500 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 |
| 05/05/03 | ND<500 | ND<2500 | ND<10 | ND<10 | ND<10 | ND<10 | ND<10 |
| 11/13/03 | ND<100 | ND<500 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 |
| 01/29/04 | ND<100 | ND<500 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 |
| 05/07/04 | ND<5.0 | ND<50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | ND<0.50 |
| 08/27/04 | ND<5.0 | ND<50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | ND<0.50 |
| 11/23/04 | 7.5 | ND<50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | ND<0.50 |
| 02/09/05 | ND<5.0 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 |
| 06/16/05 | ND<5.0 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 |
| 09/27/05 | ND<10 | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 |
| 12/30/05 | ND<10 | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 |
| 03/08/06 | ND<10 | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 |
| 06/08/06 | ND<10 | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 |
| **MW-2** | | | | | | | |
| 08/24/00 | ND | ND | -- | -- | ND | ND | ND |
| 11/16/00 | ND | ND | -- | -- | ND | ND | ND |

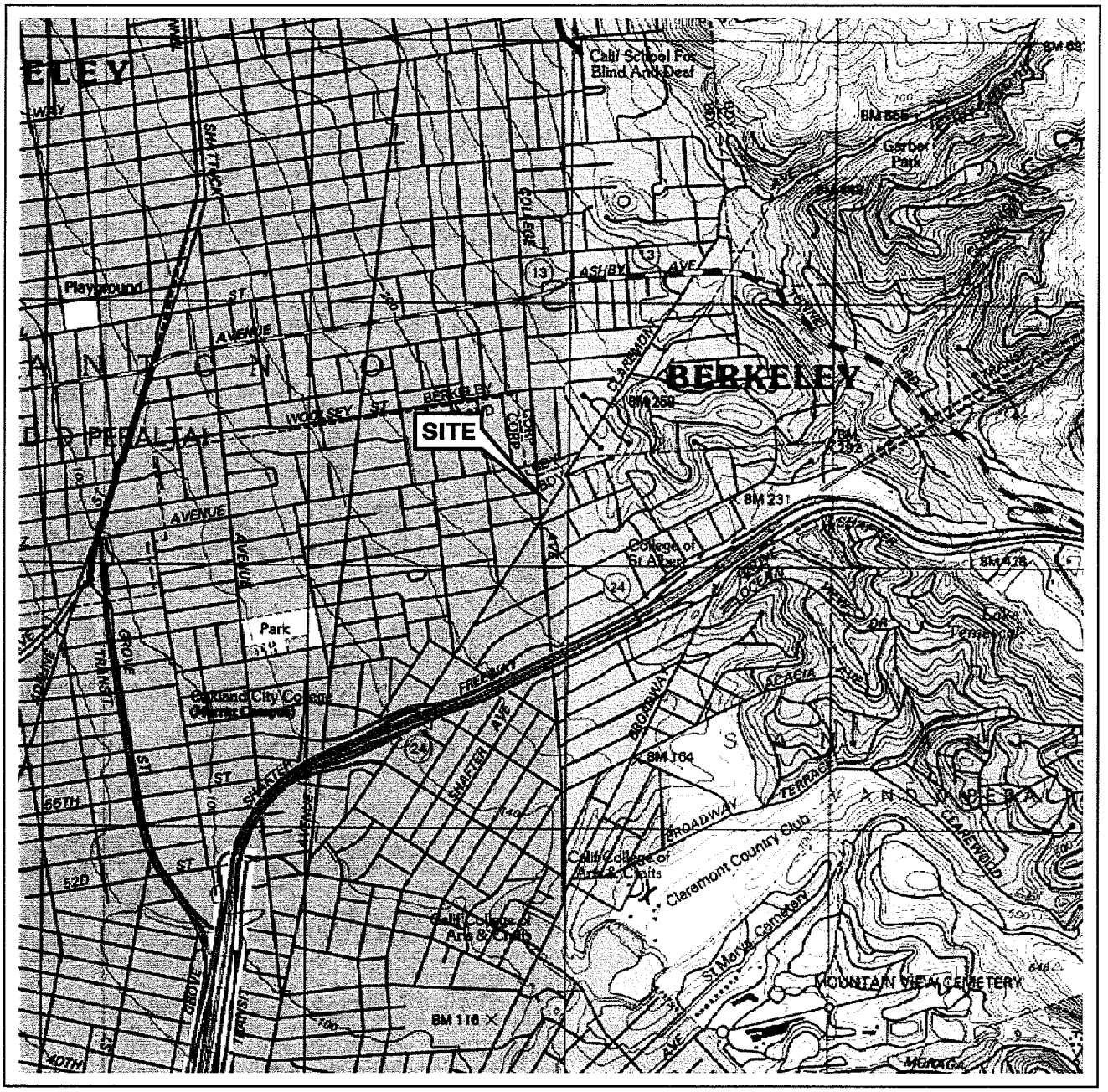
**Table 2 a**
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**
**76 Station 0018**

| Date Sampled | TBA | Ethanol (8260B) | Ethylene-dibromide (EDB) | 1,2-DCA (EDC) | DIPE | ETBE | TAME |
|---|---|---|---|---|---|---|---|
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) |
| **MW-2 continued** | | | | | | | |
| 02/09/01 | ND | ND | ND | ND | ND | ND | ND |
| 05/11/01 | ND | ND | ND | ND | ND | ND | ND |
| 08/10/01 | ND<100 | ND<1000 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 |
| 11/07/01 | ND<20 | ND<500 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 11/13/03 | -- | ND<500 | -- | -- | -- | -- | -- |
| 01/29/04 | -- | ND<500 | -- | -- | -- | -- | -- |
| 05/07/04 | -- | ND<50 | -- | -- | -- | -- | -- |
| 08/27/04 | -- | ND<50 | -- | -- | -- | -- | -- |
| 11/23/04 | -- | ND<50 | -- | -- | -- | -- | -- |
| 02/09/05 | -- | ND<50 | -- | -- | -- | -- | -- |
| 06/16/05 | -- | ND<50 | -- | -- | -- | -- | -- |
| 09/27/05 | -- | ND<250 | -- | -- | -- | -- | -- |
| 12/30/05 | -- | ND<250 | -- | -- | -- | -- | -- |
| 03/08/06 | -- | ND<250 | -- | -- | -- | -- | -- |
| 06/08/06 | -- | ND<250 | -- | -- | -- | -- | -- |
| **MW-3** | | | | | | | |
| 08/24/00 | ND | ND | -- | -- | ND | ND | ND |
| 11/16/00 | ND | ND | -- | -- | ND | ND | ND |
| 02/09/01 | ND | ND | ND | ND | ND | ND | ND |
| 05/11/01 | ND | ND | ND | ND | ND | ND | ND |
| 08/10/01 | ND<100 | ND<1000000 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 |
| 11/07/01 | ND<20 | ND<500000 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 08/09/02 | -- | -- | ND | ND | -- | -- | -- |
| 11/29/02 | -- | -- | ND | ND | -- | -- | -- |
| 02/03/03 | -- | -- | ND<2.0 | ND<2.0 | -- | -- | -- |
| 05/05/03 | -- | -- | ND<1.0 | ND<1.0 | -- | -- | -- |

**Table 2 a**
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**
**76 Station 0018**

| Date Sampled | TBA | Ethanol (8260B) | Ethylene-dibromide (EDB) | 1,2-DCA (EDC) | DIPE | ETBE | TAME |
|---|---|---|---|---|---|---|---|
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) |
| **MW-3 continued** | | | | | | | |
| 11/13/03 | -- | ND<500 | -- | -- | -- | -- | -- |
| 01/29/04 | -- | ND<500 | -- | -- | -- | -- | -- |
| 05/07/04 | -- | ND<50 | -- | -- | -- | -- | -- |
| 08/27/04 | -- | ND<50 | -- | -- | -- | -- | -- |
| 11/23/04 | -- | ND<50 | -- | -- | -- | -- | -- |
| 02/09/05 | -- | ND<50 | -- | -- | -- | -- | -- |
| 06/16/05 | -- | ND<50 | -- | -- | -- | -- | -- |
| 09/30/05 | -- | ND<250 | -- | -- | -- | -- | -- |
| 12/30/05 | -- | ND<250 | -- | -- | -- | -- | -- |
| 03/08/06 | -- | ND<250 | -- | -- | -- | -- | -- |
| 06/08/06 | -- | ND<250 | -- | -- | -- | -- | -- |

# FIGURES




SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Oakland East & Oakland West
Quadrangles

**VICINITY MAP**

76 Station 0018
6201 Claremont Avenue
Oakland, California

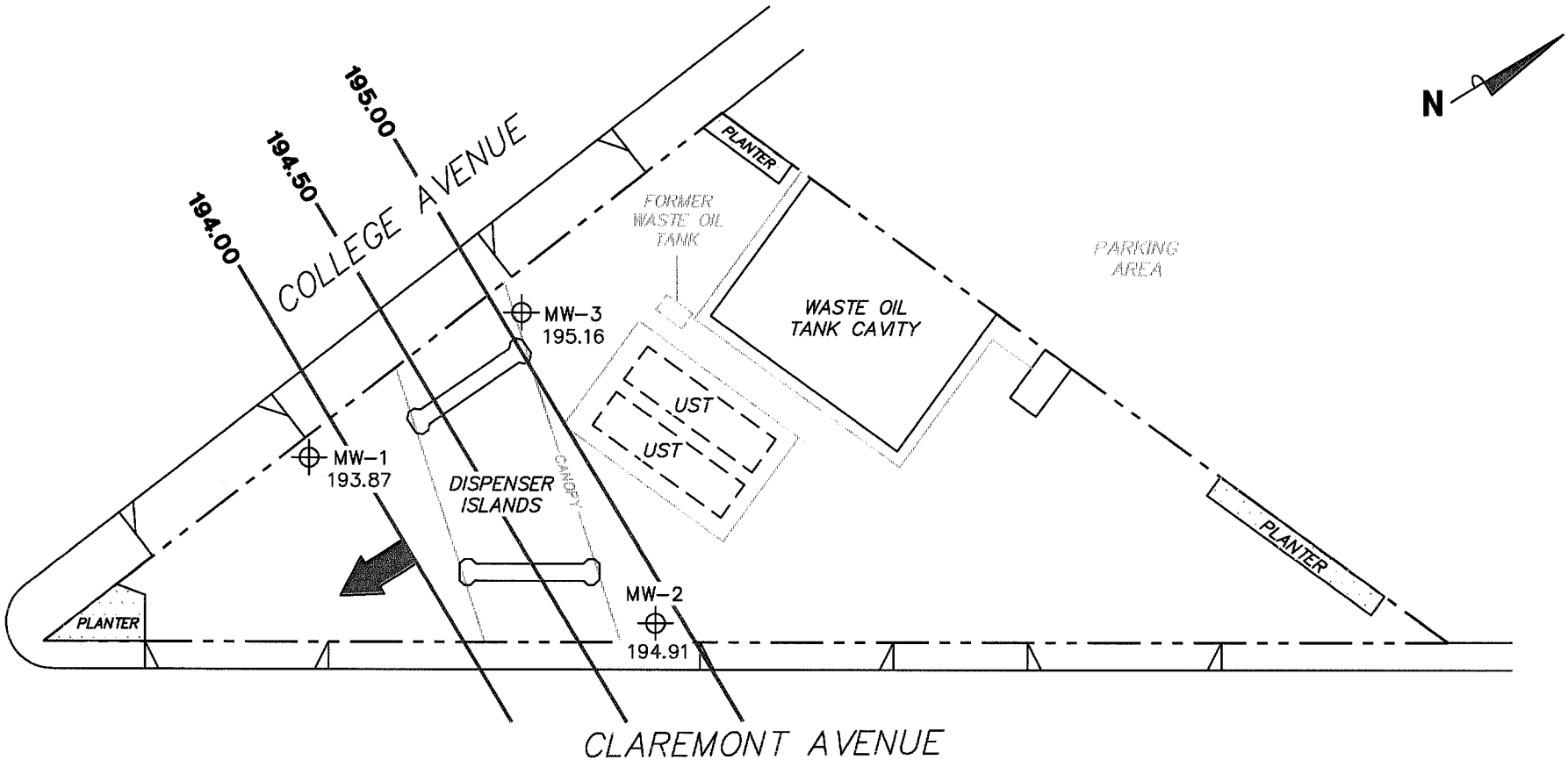
**FIGURE 1**

TRC

PS = 1:1

L:\ V I C I N I T Y M A P S\0018VM.DWG Mar 22, 2006 – 5:24pm lwinters

PS=1:10018-003 \\IRVINE-FS1\Graphics\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-0000\0018+\0018QMS.DWG Jul 07, 2006 - 9:08am bschmidt




LEGEND

MW-3 ⊕ Monitoring Well with Groundwater Elevation (feet)

**195.00** —— 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. UST = underground storage tank.

SCALE (FEET)

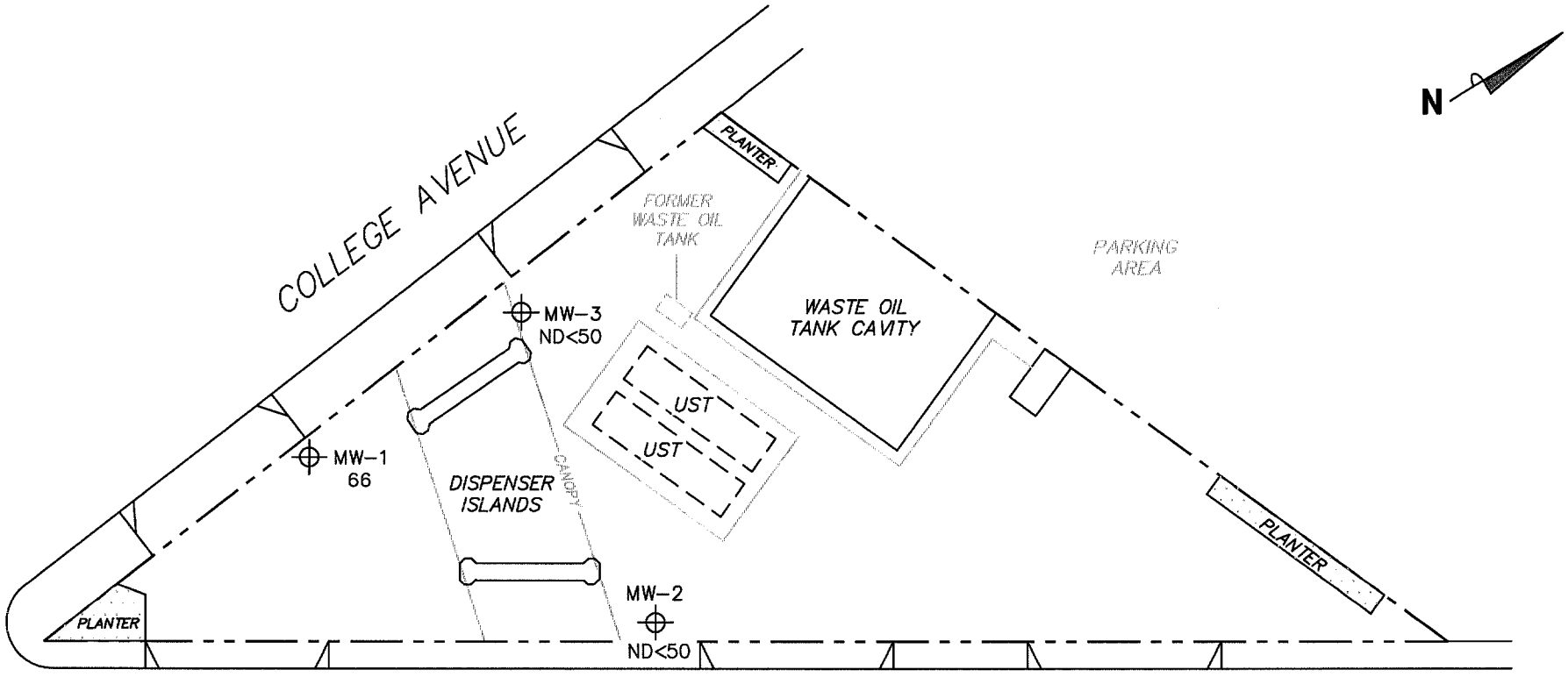
0 40

TRC

**GROUNDWATER ELEVATION CONTOUR MAP**
**June 8, 2006**

76 Station 0018
6201 Claremont Avenue
Oakland, California

# FIGURE 2




LEGEND

MW-3 ⊕ Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration (µg/l)

NOTES:

TPH-G (GC/MS) = total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B.
µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
UST = underground storage tank.

SCALE (FEET)

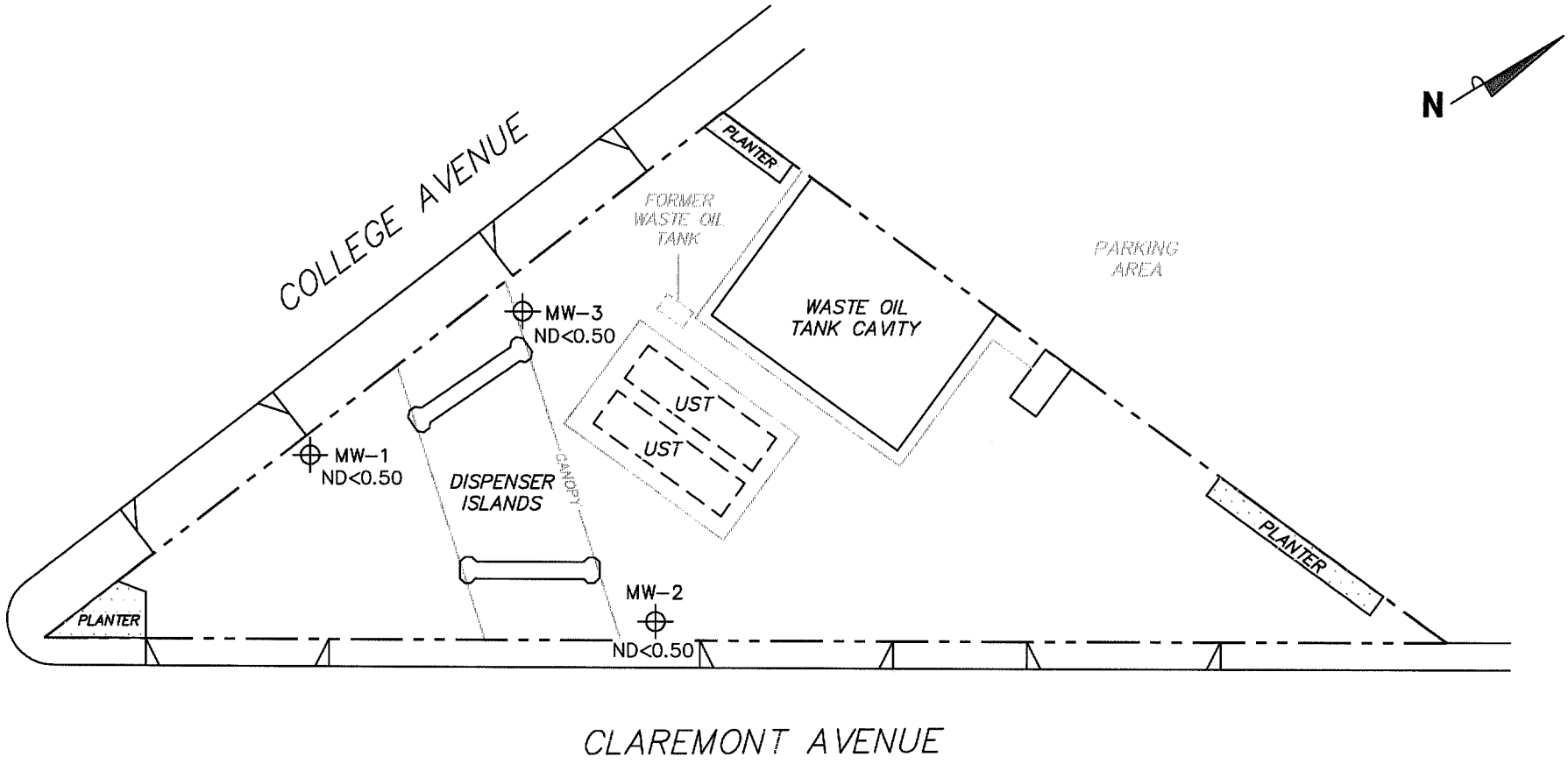
0 40

TRC

**DISSOLVED-PHASE TPH-G (GC/MS) CONCENTRATIONS MAP June 8, 2006**

76 Station 0018
6201 Claremont Avenue
Oakland, California

# FIGURE 3




LEGEND

MW-3 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

NOTES:

µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
UST = underground storage tank.

SCALE (FEET)

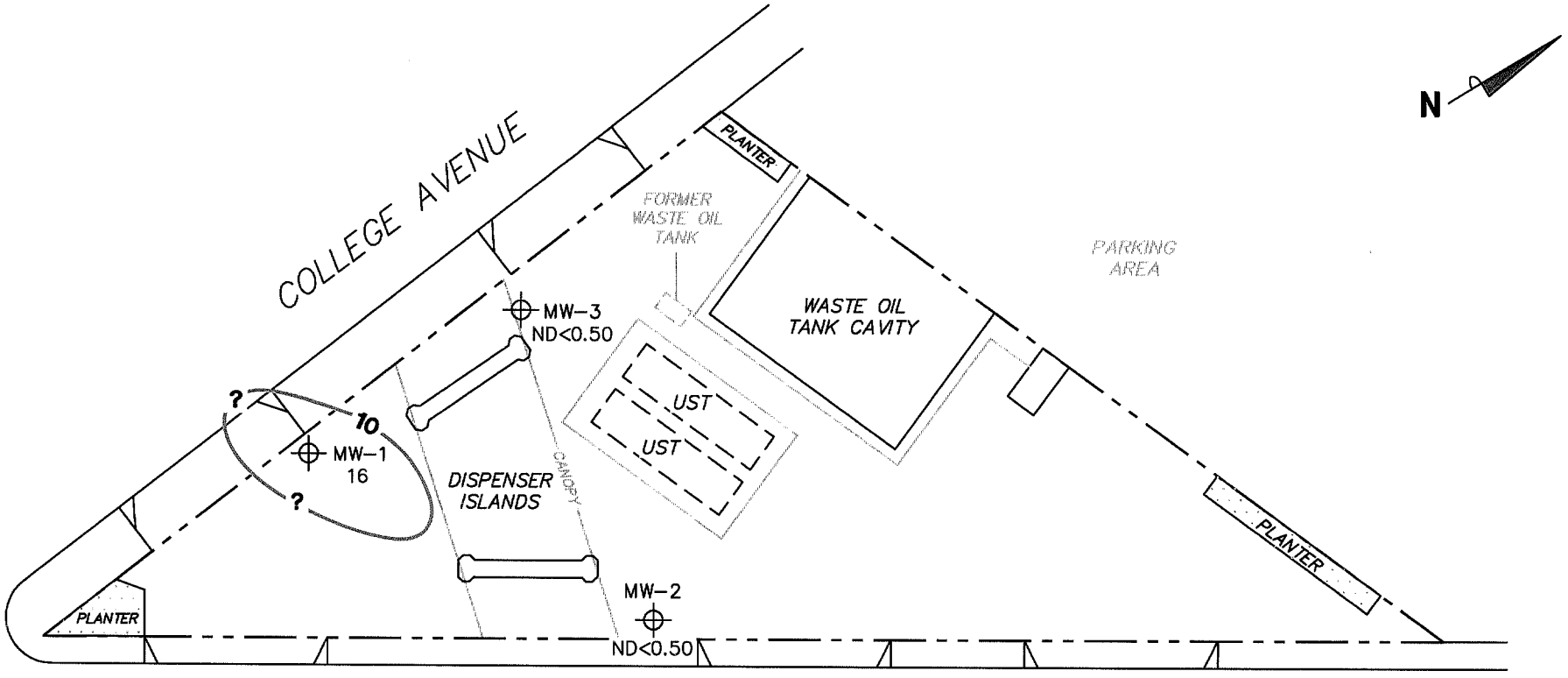
0 40

TRC

**DISSOLVED-PHASE BENZENE CONCENTRATIONS MAP**
**June 8, 2006**

76 Station 0018
6201 Claremont Avenue
Oakland, California

# FIGURE 4




LEGEND

MW-3 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

—10— Dissolved-Phase MTBE Contour (µg/l)

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Results obtained using EPA Method 8260B.

SCALE (FEET)

0 40

TRC

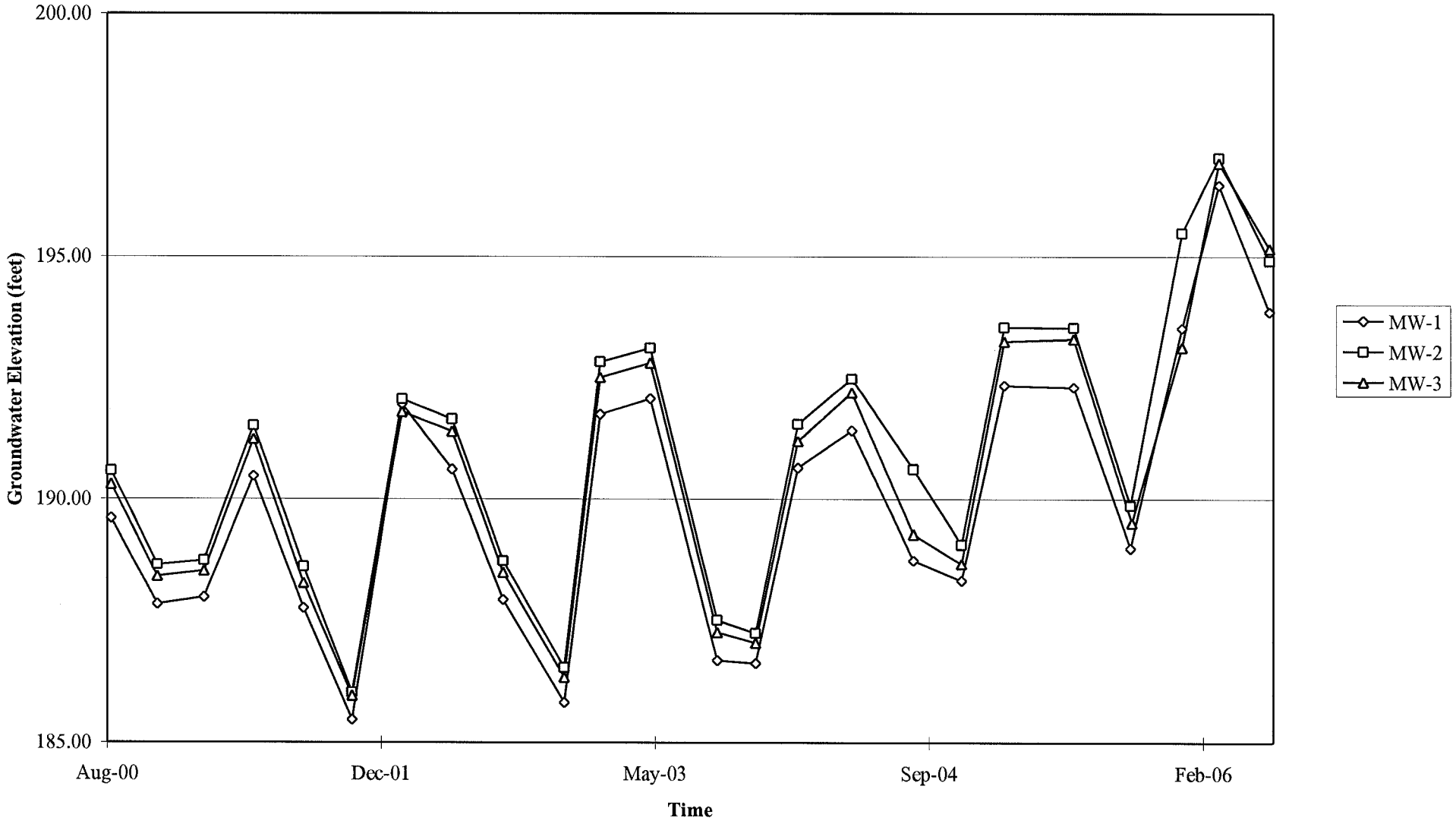
**DISSOLVED-PHASE MTBE CONCENTRATIONS MAP**
**June 8, 2006**

76 Station 0018
6201 Claremont Avenue
Oakland, California

# FIGURE 5

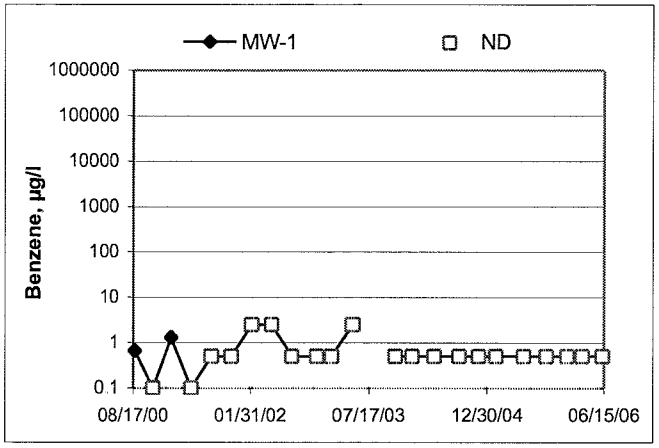
# GRAPHS

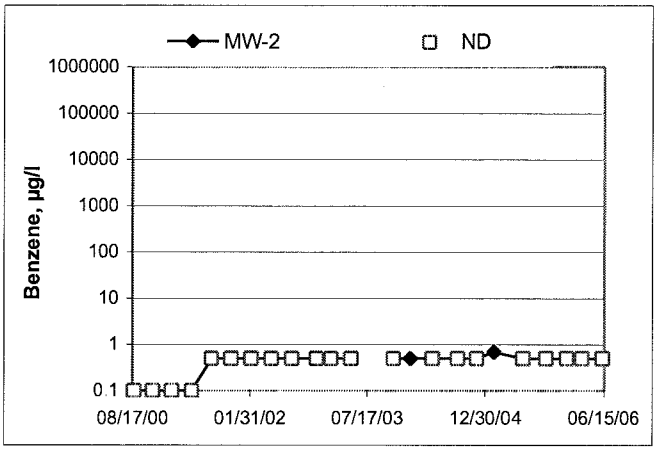
Groundwater Elevations vs. Time
76 Station 0018

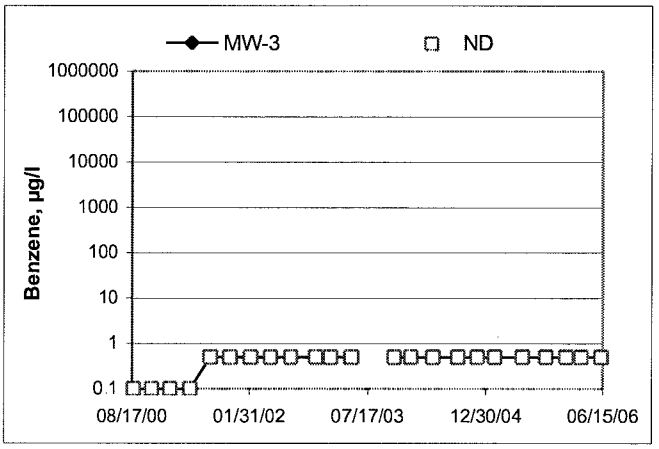



Elevations may have been corrected for apparent changes due to resurvey

**Benzene Concentrations vs Time**
76 Station 0018



# 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.

# FIELD MONITORING DATA SHEET

Technician: JOE Job #/Task #: 4106000' Date: 08-08-06

Site # 0018 Project Manager A. Collins Page 1 of 1

| Well # | Time Gauged | TOC | Total Depth | Depth to Water | Depth to Product | Product Thickness (feet) | Time Sampled | Misc. Well Notes |
|---|---|---|---|---|---|---|---|---|
| MW-2 | 0512 | X | 29.52 | 15.36 | — | — | 0609 | 2" |
| MW-3 | 0521 | X | 30.17 | 13.82 | — | — | 0633 | 2" |
| MW-1 | 0528 | X | 29.72 | 14.28 | — | — | 0657 | 2" |
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FIELD DATA COMPLETE ✓ QA/QC ✓ COC ✓ WELL BOX CONDITION SHEETS

WTT CERTIFICATE MANIFEST DRUM INVENTORY ✓ TRAFFIC CONTROL

## GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: 0018 Project No.: 41060001 Date: 06-08-06

Well No.: MW-2 Purge Method: DIA

Depth to Water (feet): 15.36 Depth to Product (feet): —

Total Depth (feet): 29.52 LPH & Water Recovered (gallons): —

Water Column (feet): 14.16 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 18.19 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. |
|---|---|---|---|---|---|---|---|---|
| 0555 | | | 2 | 638.4 | 15.8 | 6.36 | | |
| | | | 4 | 488.2 | 16.8 | 6.55 | | |
| | 0559 | | 6 | 471.3 | 16.1 | 6.63 | | |
| | | | | | | | | |
| | | | | | | | | |

| Static at Time Sampled | Total Gallons Purged | Time Sampled |
|---|---|---|
| 15.42 | 6 | 0609 |

Comments:

Well No.: MW-3 Purge Method: DIA

Depth to Water (feet): 13.82 Depth to Product (feet): —

Total Depth (feet): 30.17 LPH & Water Recovered (gallons): —

Water Column (feet): 16.35 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 17.09 1 Well Volume (gallons): 3

| Time Start | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conductivity (uS/cm) | Temperature (F (C)) | pH | Turbidity | D.O. |
|---|---|---|---|---|---|---|---|---|
| 0621 | | | 3 | 489.6 | 15.9 | 6.59 | | |
| | | | 6 | 533.2 | 16.5 | 6.58 | | |
| | 0624 | | 9 | 533.9 | 16.3 | 6.58 | | |
| | | | | | | | | |
| | | | | | | | | |

| Static at Time Sampled | Total Gallons Purged | Time Sampled |
|---|---|---|
| 16.24 | 9 | 0633 |

Comments:

## GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: 0018 Project No.: 4106000 Date: 06-08-06

Well No.: MW-1 Purge Method: DIA

Depth to Water (feet): 14.28 Depth to Product (feet): —

Total Depth (feet): 29.72 LPH & Water Recovered (gallons): —

Water Column (feet): 15.44 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 17.36 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. |
|---|---|---|---|---|---|---|---|---|
| 0646 | | | 2 | 639.9 | 15.9 | 6.90 | | |
| | | | 4 | 617.9 | 15.7 | 6.92 | | |
| | 0650 | | 6 | 624.5 | 17.1 | 6.93 | | |
| | | | | | | | | |
| | | | | | | | | |

| Static at Time Sampled | Total Gallons Purged | Time Sampled |
|---|---|---|
| 17.36 | 6 | 0657 |

Comments:

Well No.: _____ Purge Method: _____

Depth to Water (feet): _____ Depth to Product (feet): _____

Total Depth (feet): _____ LPH & Water Recovered (gallons): _____

Water Column (feet): _____ Casing Diameter (Inches): _____

80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

| Time Start | Time Stop | Depth To Water (feet) | Volume Purged (gallons) | Conduc-tivity (uS/cm) | Temperature (F, C) | pH | Turbidity | D.O. |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
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| | | | | | | | | |

| Static at Time Sampled | Total Gallons Purged | Time Sampled |
|---|---|---|
| | | |

Comments:

BC Laboratories, Inc

Date of Report: 06/16/2006

Anju Farfan

TRC Alton Geoscience

21 Technology Drive
Irvine, CA 92618-2302

RE: 0018

BC Lab Number: 0605777

Enclosed are the results of analyses for samples received by the laboratory on 06/08/06 20:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Hooker

Client Service Rep

Authorized Signature

BC Laboratories, Inc

| | | |
|---|---|---|
| TRC Alton Geoscience | Project: 0018 | |
| 21 Technology Drive | Project Number: [none] | |
| Irvine CA, 92618-2302 | Project Manager: Anju Farfan | **Reported:** 06/16/06 10:05 |

# Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | | |
|---|---|---|---|---|---|
| **0605777-01** | **COC Number:** | --- | **Receive Date:** | 06/08/06 20:35 | Delivery Work Order: |
| | **Project Number:** | 0018 | **Sampling Date:** | 06/08/06 06:09 | Global ID: T0600102231 |
| | **Sampling Location:** | MW-2 | **Sample Depth:** | --- | Matrix: W |
| | **Sampling Point:** | MW-2 | **Sample Matrix:** | Water | Samle QC Type (SACode): CS |
| | **Sampled By:** | Joe of TRCI | | | Cooler ID: |
| **0605777-02** | **COC Number:** | --- | **Receive Date:** | 06/08/06 20:35 | Delivery Work Order: |
| | **Project Number:** | 0018 | **Sampling Date:** | 06/08/06 06:33 | Global ID: T0600102231 |
| | **Sampling Location:** | MW-3 | **Sample Depth:** | --- | Matrix: W |
| | **Sampling Point:** | MW-3 | **Sample Matrix:** | Water | Samle QC Type (SACode): CS |
| | **Sampled By:** | Joe of TRCI | | | Cooler ID: |
| **0605777-03** | **COC Number:** | --- | **Receive Date:** | 06/08/06 20:35 | Delivery Work Order: |
| | **Project Number:** | 0018 | **Sampling Date:** | 06/08/06 06:57 | Global ID: T0600102231 |
| | **Sampling Location:** | MW-1 | **Sample Depth:** | --- | Matrix: W |
| | **Sampling Point:** | MW-1 | **Sample Matrix:** | Water | Samle QC Type (SACode): CS |
| | **Sampled By:** | Joe of TRCI | | | Cooler ID: |





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

Project: 0018
Project Number: [none]
Project Manager: Anju Farfan

**Reported:** 06/16/06 10:05

# Volatile Organic Analysis (EPA Method 8260)

**BCL Sample ID:** 0605777-01 | **Client Sample Name:** 0018, MW-2, MW-2, 6/8/2006 6:09:00AM, Joe

| Constituent | Result | Units | PQL | MDL | Method | Prep Date | Run Date/Time | Analyst | Instrument ID | Dilution | QC Batch ID | MB Bias | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 21:57 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Ethylbenzene | ND | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 21:57 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Methyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 21:57 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Toluene | ND | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 21:57 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Total Xylenes | ND | ug/L | 1.0 | | EPA-8260 | 06/13/06 | 06/14/06 21:57 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Ethanol | ND | ug/L | 250 | | EPA-8260 | 06/13/06 | 06/14/06 21:57 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Total Purgeable Petroleum Hydrocarbons | ND | ug/L | 50 | | EPA-8260 | 06/13/06 | 06/14/06 21:57 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| 1,2-Dichloroethane-d4 (Surrogate) | 107 | % | 76 - 114 (LCL - UCL) | | EPA-8260 | 06/13/06 | 06/14/06 21:57 | DKC | MS-V6 | 1 | BPF0708 | | |
| Toluene-d8 (Surrogate) | 101 | % | 88 - 110 (LCL - UCL) | | EPA-8260 | 06/13/06 | 06/14/06 21:57 | DKC | MS-V6 | 1 | BPF0708 | | |
| 4-Bromofluorobenzene (Surrogate) | 97.0 | % | 86 - 115 (LCL - UCL) | | EPA-8260 | 06/13/06 | 06/14/06 21:57 | DKC | MS-V6 | 1 | BPF0708 | | |



*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.*

| | | |
|---|---|---|
| TRC Alton Geoscience | Project: 0018 | |
| 21 Technology Drive | Project Number: [none] | |
| Irvine CA, 92618-2302 | Project Manager: Anju Farfan | **Reported:** 06/16/06 10:05 |

# Volatile Organic Analysis (EPA Method 8260)

**BCL Sample ID:** 0605777-02 | **Client Sample Name:** 0018, MW-3, MW-3, 6/8/2006 6:33:00AM, Joe

| Constituent | Result | Units | PQL | MDL | Method | Prep Date | Run Date/Time | Analyst | Instrument ID | Dilution | QC Batch ID | MB Bias | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 22:21 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Ethylbenzene | ND | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 22:21 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Methyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 22:21 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Toluene | ND | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 22:21 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Total Xylenes | ND | ug/L | 1.0 | | EPA-8260 | 06/13/06 | 06/14/06 22:21 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Ethanol | ND | ug/L | 250 | | EPA-8260 | 06/13/06 | 06/14/06 22:21 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Total Purgeable Petroleum Hydrocarbons | ND | ug/L | 50 | | EPA-8260 | 06/13/06 | 06/14/06 22:21 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| 1,2-Dichloroethane-d4 (Surrogate) | 107 | % | 76 - 114 (LCL - UCL) | | EPA-8260 | 06/13/06 | 06/14/06 22:21 | DKC | MS-V6 | 1 | BPF0708 | | |
| Toluene-d8 (Surrogate) | 101 | % | 88 - 110 (LCL - UCL) | | EPA-8260 | 06/13/06 | 06/14/06 22:21 | DKC | MS-V6 | 1 | BPF0708 | | |
| 4-Bromofluorobenzene (Surrogate) | 96.9 | % | 86 - 115 (LCL - UCL) | | EPA-8260 | 06/13/06 | 06/14/06 22:21 | DKC | MS-V6 | 1 | BPF0708 | | |

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

Project: 0018
Project Number: [none]
Project Manager: Anju Farfan

**Reported:** 06/16/06 10:05

# Volatile Organic Analysis (EPA Method 8260)

**BCL Sample ID:** 0605777-03 | **Client Sample Name:** 0018, MW-1, MW-1, 6/8/2006 6:57:00AM, Joe

| Constituent | Result | Units | PQL | MDL | Method | Prep Date | Run Date/Time | Analyst | Instrument ID | Dilution | QC Batch ID | MB Bias | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 00:06 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| 1,2-Dibromoethane | ND | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 00:06 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 00:06 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Ethylbenzene | ND | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 00:06 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Methyl t-butyl ether | 16 | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 00:06 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Toluene | ND | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 00:06 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Total Xylenes | ND | ug/L | 1.0 | | EPA-8260 | 06/13/06 | 06/14/06 00:06 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| t-Amyl Methyl ether | ND | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 00:06 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| t-Butyl alcohol | ND | ug/L | 10 | | EPA-8260 | 06/13/06 | 06/14/06 00:06 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Diisopropyl ether | ND | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 00:06 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Ethanol | ND | ug/L | 250 | | EPA-8260 | 06/13/06 | 06/14/06 00:06 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Ethyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260 | 06/13/06 | 06/14/06 00:06 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| Total Purgeable Petroleum Hydrocarbons | 66 | ug/L | 50 | | EPA-8260 | 06/13/06 | 06/14/06 00:06 | DKC | MS-V6 | 1 | BPF0708 | ND | |
| 1,2-Dichloroethane-d4 (Surrogate) | 112 | % | 76 - 114 | (LCL - UCL) | EPA-8260 | 06/13/06 | 06/14/06 00:06 | DKC | MS-V6 | 1 | BPF0708 | | |
| Toluene-d8 (Surrogate) | 100 | % | 88 - 110 | (LCL - UCL) | EPA-8260 | 06/13/06 | 06/14/06 00:06 | DKC | MS-V6 | 1 | BPF0708 | | |
| 4-Bromofluorobenzene (Surrogate) | 94.7 | % | 86 - 115 | (LCL - UCL) | EPA-8260 | 06/13/06 | 06/14/06 00:06 | DKC | MS-V6 | 1 | BPF0708 | | |

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

Project: 0018
Project Number: [none]
Project Manager: Anju Farfan

**Reported:** 06/16/06 10:05

# Volatile Organic Analysis (EPA Method 8260)

## Quality Control Report - Precision & Accuracy

| Constituent | Batch ID | QC Sample ID | QC Sample Type | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits RPD | Control Limits Percent Recovery | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | BPF0708 | BPF0708-MS1 | Matrix Spike | ND | 28.433 | 25.000 | ug/L | | 114 | | 70 - 130 | |
| | | BPF0708-MSD1 | Matrix Spike Duplicate | ND | 28.280 | 25.000 | ug/L | 0.881 | 113 | 20 | 70 - 130 | |
| Toluene | BPF0708 | BPF0708-MS1 | Matrix Spike | ND | 26.422 | 25.000 | ug/L | | 106 | | 70 - 130 | |
| | | BPF0708-MSD1 | Matrix Spike Duplicate | ND | 26.214 | 25.000 | ug/L | 0.948 | 105 | 20 | 70 - 130 | |
| 1,2-Dichloroethane-d4 (Surrogate) | BPF0708 | BPF0708-MS1 | Matrix Spike | ND | 11.364 | 10.000 | ug/L | | 114 | | 76 - 114 | |
| | | BPF0708-MSD1 | Matrix Spike Duplicate | ND | 10.843 | 10.000 | ug/L | | 108 | | 76 - 114 | |
| Toluene-d8 (Surrogate) | BPF0708 | BPF0708-MS1 | Matrix Spike | ND | 10.224 | 10.000 | ug/L | | 102 | | 88 - 110 | |
| | | BPF0708-MSD1 | Matrix Spike Duplicate | ND | 9.9301 | 10.000 | ug/L | | 99.3 | | 88 - 110 | |
| 4-Bromofluorobenzene (Surrogate) | BPF0708 | BPF0708-MS1 | Matrix Spike | ND | 10.509 | 10.000 | ug/L | | 105 | | 86 - 115 | |
| | | BPF0708-MSD1 | Matrix Spike Duplicate | ND | 10.064 | 10.000 | ug/L | | 101 | | 86 - 115 | |

| | | |
|---|---|---|
| TRC Alton Geoscience | Project: 0018 | |
| 21 Technology Drive | Project Number: [none] | |
| Irvine CA, 92618-2302 | Project Manager: Anju Farfan | **Reported:** 06/16/06 10:05 |

# 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 Percent Recovery | Control Limits RPD | Lab Quals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | BPF0708 | BPF0708-BS1 | LCS | 27.122 | 25.000 | 0.50 | ug/L | 108 | | 70 - 130 | | |
| Toluene | BPF0708 | BPF0708-BS1 | LCS | 25.238 | 25.000 | 0.50 | ug/L | 101 | | 70 - 130 | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BPF0708 | BPF0708-BS1 | LCS | 10.563 | 10.000 | | ug/L | 106 | | 76 - 114 | | |
| Toluene-d8 (Surrogate) | BPF0708 | BPF0708-BS1 | LCS | 10.058 | 10.000 | | ug/L | 101 | | 88 - 110 | | |
| 4-Bromofluorobenzene (Surrogate) | BPF0708 | BPF0708-BS1 | LCS | 9.8977 | 10.000 | | ug/L | 99.0 | | 86 - 115 | | |

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

Project: 0018
Project Number: [none]
Project Manager: Anju Farfan

**Reported:** 06/16/06 10:05

# 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 | BPF0708 | BPF0708-BLK1 | ND | ug/L | 0.50 | 0.13 | |
| 1,2-Dibromoethane | BPF0708 | BPF0708-BLK1 | ND | ug/L | 0.50 | 0.24 | |
| 1,2-Dichloroethane | BPF0708 | BPF0708-BLK1 | ND | ug/L | 0.50 | 0.15 | |
| Ethylbenzene | BPF0708 | BPF0708-BLK1 | ND | ug/L | 0.50 | 0.094 | |
| Methyl t-butyl ether | BPF0708 | BPF0708-BLK1 | ND | ug/L | 0.50 | 0.12 | |
| Toluene | BPF0708 | BPF0708-BLK1 | ND | ug/L | 0.50 | 0.12 | |
| Total Xylenes | BPF0708 | BPF0708-BLK1 | ND | ug/L | 1.0 | 0.35 | |
| t-Amyl Methyl ether | BPF0708 | BPF0708-BLK1 | ND | ug/L | 0.50 | 0.49 | |
| t-Butyl alcohol | BPF0708 | BPF0708-BLK1 | ND | ug/L | 10 | 10 | |
| Diisopropyl ether | BPF0708 | BPF0708-BLK1 | ND | ug/L | 0.50 | 0.25 | |
| Ethanol | BPF0708 | BPF0708-BLK1 | ND | ug/L | 250 | 110 | |
| Ethyl t-butyl ether | BPF0708 | BPF0708-BLK1 | ND | ug/L | 0.50 | 0.25 | |
| Total Purgeable Petroleum Hydrocarbons | BPF0708 | BPF0708-BLK1 | ND | ug/L | 50 | 16 | |
| 1,2-Dichloroethane-d4 (Surrogate) | BPF0708 | BPF0708-BLK1 | 105 | % | 76 - 114 (LCL - UCL) | | |
| Toluene-d8 (Surrogate) | BPF0708 | BPF0708-BLK1 | 98.0 | % | 88 - 110 (LCL - UCL) | | |
| 4-Bromofluorobenzene (Surrogate) | BPF0708 | BPF0708-BLK1 | 91.3 | % | 86 - 115 (LCL - UCL) | | |

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

Project: 0018
Project Number: [none]
Project Manager: Anju Farfan

**Reported:** 06/16/06 10:05

## Notes and Definitions

| | |
|---|---|
| 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 |

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No. 10 01/21/04 Page 1 Of 1

Submission #: 06-05777 | 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 ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

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

COC Received ☑ YES ☐ NO

Ice Chest ID B/W Temperature: 1.0 °C Thermometer ID: 48 Emissivity 1.0 Container VOA

Date/Time 6/8/06 Analyst Init AMR

| 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 | | | | | | | | | | |
| P/A PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | A3 | A3 | A3 | ( | ( | ( | ( | ( | ( | ( |
| 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: AMR Date/Time: 6/9/06 0025

**BC LABORATORIES, INC.**
4100 Atlas Court □ Bakersfield, CA 93308
(661) 327-4911 □ FAX (661) 327-1918

# CHAIN OF CUSTODY

#06-05777

## Analysis Requested

Circle one: **Phillips 66** / Unocal

Address: 6201 Claremont Blvd

Consultant Firm: TRC
21 Technology Drive
Irvine, CA 92618-2302
Attn: Anju Farfan

City: Oakland

4-digit site#: 0018

Work Order# 1062TRC502

State: CA Zip:

Project #: 4106000l

COP Manager: Shelby LaThrop

Sampler Name: JOE

MATRIX
(GW) Groundwater
(S) Soil
(WW) Wastewater
(SL) Sludge

| Lab# | Sample Description | Field Point Name | Date & Time Sampled | MATRIX | BTEX/MTBE by ~~8021B~~ 8260B; ~~Ceo by 8015~~ | TPH GAS by ~~8015M~~ GC/MS | TPH DIESEL by 8015 | 8260 full list w/ MTBE & oxygenates | BTEX/MTBE/OXYS BY 8260B | ETHANOL by 8260B | TPPH by 8260B | Ethanol by 8260B. EDC/EDB by 8260B | | | Turnaround Time Requested 3 Days w/ HC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-2 -1 | | 06-08-06 0609 | GW | X | X | | | | X | | | | | STD |
| | MW-3 -2 | | 0633 | | | | | | | | | | | | |
| | MW-1 -3 | | 0657 | | | | | | X | | | X | | | |

CHK BY EB

DISTRIBUTION SUB-OUT □

Comments:

Global ID: T0600102231

| | Received by: | Date & Time: |
|---|---|---|
| Relinquished by: Joe D. Lewis | refrigerator | 06-08-06 1047 |
| Relinquished by (Signature): | Received by: Ross Dickey | Date & Time: 6/8/06 1355 |
| Relinquished by (Signature): Ross Dickey 6/8/06 | Received by: Rebecca DeRoche | Date & Time: 6-8-06 1955 |
| Rebecca DeRoche | | 6/8/06 2035 |

(A) = ANALYSIS (C) = CONTAINER (P) = PRESERVATIVE

## STATEMENTS

### Purge Water Disposal

Non-hazardous groundwater produced during purging and samplin g of monitoring 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 ConocoPh illips 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 containing a significant amount of liquid -phase hydrocarbons was accumulated separately in drums for transportation and disposal by Filter Recycling, Inc.

### Limitations

The fluid level monitoring and groundwater sampling activities summa rized 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 enginee rs 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 cond itions differ from those described in this report, our office should be notified.