



76 Broadway
Sacramento, California 95818

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3:59 pm, Feb 01, 2011
Alameda County
Environmental Health

January 26, 2011

Ms. Barbara Jakub
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Re: **Semi-Annual Summary Report Transmittal
Third Quarter through Fourth Quarter 2010
76 Service Station #1871
96 MacArthur Boulevard
Oakland, California**

RO # 0455

Dear Ms. Jakub:

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

If you have any questions or need additional information, please call:

Ted Moise (Contractor)
ConocoPhillips
Risk Management & Remediation
76 Broadway
Sacramento, CA 95818

Phone: (510) 245-5162
Fax: (918) 662-4480
Ted.Moise@contractor.conocophillips.com

Sincerely,

Eric G. Hetrick
Site Manager
Risk Management & Remediation

Attachment

SEMI-ANNUAL SUMMARY REPORT

Third Quarter through Fourth

Quarter 2010

*76 Station 1871
96 MacArthur Blvd
Oakland, CA*

Antea Group Project No. C1Q1871010

January 26, 2011

Prepared for:
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Prepared by:
Antea™Group
11050 White Rock Road
Suite 110
Rancho Cordova, CA
95670



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January 26, 2011

Ms. Barbara Jakub
Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Re: **SEMI-ANNUAL SUMMARY REPORT
THIRD QUARTER THROUGH FOURTH QUARTER 2010**
76 Service Station No, 1871
96 MacArthur Boulevard
Oakland, California
RO#0455, AOC 1120

Dear Ms. Jakub:

On behalf of ConocoPhillips Company (COP), Antea Group (formerly Delta Consultants) is submitting this *Semi-Annual Summary Report – Third Quarter through Fourth Quarter 2010* for the subject site.

Sincerely,

Antea Group

A handwritten signature in blue ink that reads "James B. Barnard".

James B. Barnard
Project Manager
Registered California Professional Geologist No. 7478



cc: Mr. Ted Moise - ConocoPhillips (electronic copy only)

**SEMI-ANNUAL SUMMARY REPORT
THIRD QUARTER THROUGH FOURTH QUARTER 2010
76 Service Station No. 1871
96 MacArthur Boulevard
Oakland, Alameda County, California**

SITE DESCRIPTION

The site is an operating service station located on the north corner of the intersection of MacArthur Boulevard and Harrison Street in Oakland, California. The site is currently a QuikStop market and petroleum dispensing facility. There are four dispenser islands, one station building, and two gasoline underground storage tanks (USTs).

SITE BACKGROUND AND ACTIVITY

May 1992: Roux Associates (Roux) performed a dispenser and product piping modification project.

October 1992: Roux installed three 4-inch diameter groundwater monitoring wells (MW-1 through MW-3) onsite.

January 1993: Quarterly groundwater sampling and monitoring began.

August 1994: A 280-gallon single-wall steel waste oil UST was replaced with a 550-gallon double-walled steel UST. Conformation sampling was performed.

February 1996: The Alameda County Department of Environmental Health (ACEH) approved Unocal's request to reduce the groundwater monitoring and sampling frequency from quarterly to semiannually.

March 1996: Two monitoring wells were installed at the site.

May 1998: John's Excavating of Santa Rosa, California removed all underground and aboveground equipment and facilities. Facilities included two 12,000-gallon double-wall steel gasoline USTs, one 550-gallon double-wall steel waste oil UST, two hydraulic lifts, two dispenser islands and related single-wall product piping, and one service station building. Gettler-Ryan Inc. (GR) personnel performed soil and groundwater sampling activities in conjunction with the station demolition. A total of 1,252.78 tons of soil were removed from the site during demolition activities and transported to Forward Landfill for disposal.

September 1998: Two wells that were damaged during site demolition activities were drilled out and the boreholes backfilled with neat cement to grade. In addition, one soil boring was advanced onsite to a total depth of 16.5 feet below ground surface (bgs). Groundwater was encountered at approximately 10.5 feet bgs. Soil and groundwater samples were collected for development of a Risk Based Corrective Action (RI3CA) evaluation for the site.

February 1999: GR performed a RBCA evaluation. The RBCA evaluation concluded that, since the site was scheduled for construction of a fuel dispensing facility covered with concrete and asphalt and no groundwater receptors were located within a 1/4 mile radius of the site, the potential threat to public health and environment was not of significant concern.

June 1999: GR installed three offsite monitoring wells (MW-6 through MW-8), and advanced nine soil borings (B-4 through B-12) on and near the site. Depth-discrete soil and groundwater samples were collected.

April 2002: An ozone injection system was installed and activated at the site.

September 2003: Operations and maintenance responsibilities for the remediation system were transferred to SECOR International Inc. (SECOR).

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

January 2006: Operations and maintenance responsibilities for the remediation system were transferred to Environ Strategy Consultants, Inc. (Environ Strategy),

November 2007: At the request of the ACEH, TRC submitted a Site Conceptual Model.

October 2007: Site environmental consulting responsibilities were transferred to Delta.

August 19, 2010: Morrow Surveying surveyed all of the on-site and off-site wells (MW-1, MW-6, MW-8, MW-9, MW-10, and MW-11), all to the same datum. Offsite well MW-7 was surveyed on December 13, 2010.

SENSITIVE RECEPTORS

On September 16, 1998, Gettler-Ryan, Inc. conducted a search of California Department of Water Resources (DWR) records to locate any municipal or domestic wells located within a one-half mile radius of tile site. One water producing well was located approximately one-half mile north of the site. The use of this well is unknown. The nearest body of surface water located is Glen Echo Creek, approximately 1,000 feet northwest of the site.

No potential receptors for impacted groundwater were identified within one-quarter mile distance of the site during the 1999 RBCA evaluation.

GROUNDWATER MONITORING AND SAMPLING

The groundwater monitoring well network, consisting of one onsite and six offsite monitoring wells, was monitored and sampled on a quarterly basis between January 2002 and June 2009. The site is now monitored semi-annually during the second and fourth quarters.

The most recent groundwater sampling event was conducted by TRC on October 13, 2010. Depth to groundwater ranged from 7.64 feet below top of casing (TOC) in MW-10 to 16.80 feet below TOC in MW-9. Average groundwater elevation was calculated as 70.98 feet above mean sea level (MSL). This is an average increase of 0.88 ft from the previous sampling event (4/14/10). All seven wells were gauged and sampled during this quarter.

The groundwater gradient and flow direction was interpreted as 0.03 feet per foot (ft/ft) to the west. This is congruent with the gradient and flow direction from the previous sampling event (4/14/10). Historically, groundwater flow direction has been predominantly to the southwest, and to a lesser extent to the west and south. A historical groundwater flow direction rose diagram is included as **Attachment A**.

Groundwater samples collected during the current sampling event were analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tert butyl ether (MTBE), tert butyl alcohol (TBA), and ethanol by EPA method 8260B.

Third Quarter through Fourth Quarter 2010 dissolved groundwater concentrations are reported as follows:

TPHg: TPHg was above laboratory indicated reporting limits in groundwater sample collected from two of the seven wells sampled with a maximum concentration of 4,600 micrograms per liter ($\mu\text{g/L}$) in MW-1 during the current sampling event. This is an increase from a maximum concentration of 1,500 $\mu\text{g/L}$ in MW-1 during the

previous sampling event (4/14/10). MW-9 was reported with a concentration of 63 µg/L during the current sampling event,

Benzene: Benzene was above laboratory indicated reporting limits in groundwater samples collected from one of the seven wells sampled with a concentration of 3.0 µg/L in MW-1 during the current sampling event. This is a decrease from a maximum concentration of 4.8 µg/L in MW-1 during the previous sampling event.

Toluene: Toluene was below laboratory indicated reporting limits in groundwater samples collected from all of the seven wells sampled during the current sampling event. This is consistent with the previous two sampling events (12/16/09, 4/14/10).

Ethylbenzene: Ethylbenzene was above laboratory indicated reporting limits in groundwater samples collected from one of the seven sampled wells with a concentration of 180 µg/L in MW-1 during the current sampling event. This is an increase from a maximum concentration of 100 µg/L in MW-1 during the previous sampling event.

Total Xylenes: Total xylenes were above laboratory indicated reporting limits in groundwater samples collected from one of the seven wells sampled with a concentration of 73 µg/L in MW-1 during the current sampling event. This is an increase from a maximum concentration of 36 µg/L in MW-1 during the previous sampling event.

MTBE: MTBE was above laboratory indicated reporting limits in groundwater samples collected from six of the seven wells sampled with a maximum concentration of 160 µg/L in MW-9 during the current sampling event. This is static from a maximum concentration of 160 µg/L in MW-9 during the previous sampling event. The fourth quarter 2009 sampling event concentration of 130 µg/L was the lowest concentration of MTBE reported in this well since the sampling of the well commenced. MTBE concentrations in well MW-9 have shown a decreasing trend since the maximum historical concentration of 2,800 µg/L in December 2005. Data from the most recent sampling event (10/13/10) shows that samples from wells MW-1, MW-6, MW-7, MW-8, and MW-10 had concentrations of 5.6 µg/L, 2.0 µg/L, 3.6 µg/L, 3.0 µg/L, and 0.58 µg/L, respectively.

TBA: TBA was above laboratory indicated reporting limits in groundwater samples collected from two of the seven wells sampled with a maximum concentration of 73 µg/L in MW-1 during the current sampling event. This is an increase from a maximum concentration of 22 µg/L in MW-9 during the previous sampling event.

Other Fuel Oxygenates: 1,2-DCA, EDB, and Ethanol were all below laboratory indicated reporting limits in groundwater samples collected from all of the seven wells sampled during the current sampling event.

Laboratory data qualifier A01 was noted on MTBE analysis on sample MW-9, and on TPHg and ethylbenzene analyses on sample MW-1. Lab data qualifier A01 is defined as: Practical Quantitation Limits and Method Detection Limits are raised due to sample dilution. The elevated analyte concentrations required dilution of the samples in order for the samples to be within the laboratory instrumentation's (EPA Method 8260) calibration range.

Laboratory data qualifier A90 was noted on the TPHg analysis for sample MW-9. Lab qualifier A90 is defined as: TPPH does not exhibit a gasoline pattern. TPPH is entirely due to MTBE.

A copy of TRC's *Groundwater Monitoring Report – October through December 2010*, dated November 4, 2010, is included as **Attachment B**.

REMEDIATION STATUS

April 2002: Gettler-Ryan installed an ozone sparge system utilizing 10 ozone sparge wells completed to maximum depths of 25 to 30 feet bgs. The system was activated on April 8, 2002. Since then approximately 220 pounds of ozone have been injected.

Operation and maintenance (O&M) activities were performed on the ozone injection system during Third quarter and Fourth Quarter 2010 by Environ Strategy (ES).

The third quarter 2010 reporting period was from June 1, 2010 through August 31, 2010. During this period, the system was 100% operational, operating for 2,355 hours, injecting 21 lbs of ozone.

The fourth quarter 2010 reporting period was from September 1, 2010 through November 30, 2010. During this period, the system was 100% operational, operating for 2,184 hours, injecting 20 lbs of ozone.

Since startup, total operational time is 39,569 hours and total ozone injected is 356 pounds.

Copies of Environ Strategy's *Third Quarter 2010 Ozone Injection O&M Report*, dated September 15, 2010, and *Fourth quarter 2010 Ozone Injection O&M Report*, dated December 15, 2010, have been included as **Attachments C and D**, respectively.

CONCLUSIONS AND RECOMMENDATIONS

Soil samples have shown maximum TPHg, benzene, and MTBE concentrations of 7,400 mg/kg, 3.1 mg/kg and 1 mg/kg, respectively. During the most current sampling event the maximum TPHg and MTBE concentrations were 4600 µg/L (MW-1) and 160 µg/L (MW-9), respectively.

An ozone sparge system was activated on April 8, 2002. At that time one monitoring well (MW- 1) was onsite; monitoring wells MW-2 through MW-5 had been destroyed. Concentration data from MW-1 suggests that ozone sparging initially reduced petroleum hydrocarbon concentrations in groundwater, as evidenced in the decreasing TPHg concentrations in MW-1. Concentrations of TPHg have been steady to decreasing in all wells monitored since activation of the ozone sparge system.

Down-gradient offsite migration of MTBE is based on the historical analytical results of groundwater samples from monitoring wells MW-6, MW-7, and MW-8, located adjacent to the site, and MW-9, located more than 150 feet and cross-gradient from the onsite source. With the exception of MW-9, MTBE concentrations are noted to be steadily decreasing in all wells monitored since the activation of the ozone sparge system. Assessment of down-gradient migration of MTBE, e.g., rate of migration, has not yet been addressed.

Delta submitted a *Work Plan for CPT Vertical and Lateral Stratigraphic and Plume Definition* dated February 16, 2009.

On August 19, 2010, Morrow Surveying surveyed all of the on-site and off-site wells (MW-1, MW-6, MW-8, MW-9, MW-10, and MW-11), all to the same datum. MW-7 was surveyed on December 13, 2010. The new survey data for the seven wells was communicated to TRC, and has been incorporated into the groundwater flow direction and gradient interpretation during the fourth quarter 2010 monitoring and sampling event.

RECENT CORRESPONDENCE

No correspondence has been received during this reporting period.

Third Quarter and Fourth Quarter 2010 ACTIVITIES

- TRC performed monitoring and sampling activities at the site on October 13, 2010, and prepared their results in *Groundwater Monitoring Report – October through December 2010*, dated November 4, 2010.

- Environ Strategy performed third quarter and fourth quarter 2010 O&M activities at the site, and prepared their findings in the *Third Quarter Ozone Injection System O&M Report*, dated September 15, 2010, and *Fourth Quarter Ozone Injection System O&M Report*, dated December 15, 2010.
- Antea Group prepared *Semi-Annual Summary Report – Third Quarter through Fourth Quarter 2010*.

FIRST QUARTER THROUGH SECOND QUARTER 2011 PLANNED ACTIVITES

- TRC will perform semi-annual monitoring and sampling activities and prepare their findings in a semi-annual groundwater monitoring report.
- Environ Strategy will perform first and second quarter 2011 O&M Activities, and prepare their findings in a quarterly ozone injection system O&M report.
- Antea will prepare a semi-annual summary report.
- Upon agency approval, Antea will perform the work detailed in the *Work Plan for CPT Vertical and Lateral Stratigraphic and Plume Definition*, dated February 16, 2009.

REMARKS

The descriptions, conclusions, and recommendations contained in this report represent Antea Group's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. For any reports cited that were not generated by Antea Group, the data from those reports is used "as is" and is assumed to be accurate. Antea Group does not guarantee the accuracy of this data for the referenced work performed nor the inferences or conclusions stated in these reports. This report is based upon a specific scope of work requested by the client. The Contract between Antea Group and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were conducted. This report is intended only for the use of Antea Group's Client and anyone else specifically listed on this report. Antea Group will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea Group makes no express or implied warranty as to the contents of this report.

If you have any questions regarding this work plan or need and additional information about this Site, please do not hesitate to contact Jim Barnard at (916) 503-1279.

CONSULTANT: Antea Group

ATTACHMENTS:

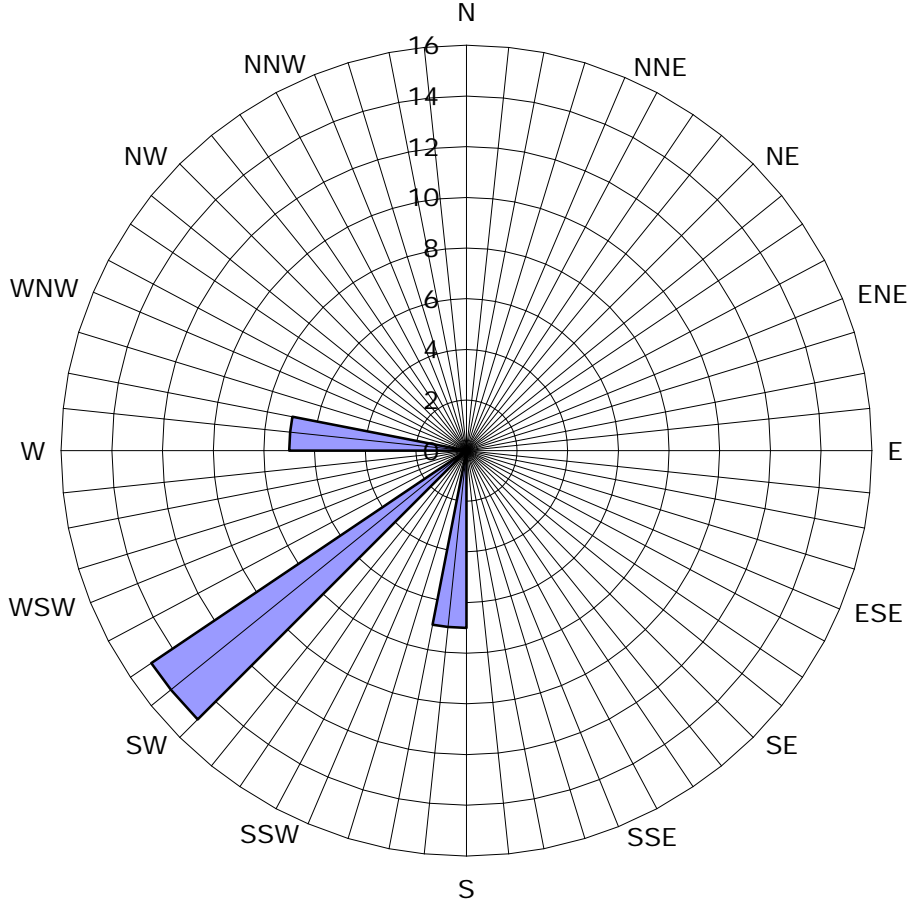
Attachment A – Historical Groundwater Flow Direction Rose Diagram
Attachment B – Groundwater Monitoring Report – October through December 2010
Attachment C – Third Quarter 2010 Ozone Injection O&M Report
Attachment D – Fourth Quarter 2010 Ozone Injection O&M Report

ATTACHMENT A

Historical Groundwater Flow Direction Rose Diagram

**Historic Groundwater Flow Directions
ConocoPhillips Site No. 1871**

96 MacArthur Blvd
Oakland, California



Legend

Concentric circles represent quarterly monitoring events. First Quarter 2004 through Fourth Quarter 2010. 29 data points shown.

■ Groundwater Flow Direction

ATTACHMENT B

Groundwater Monitoring Report – October through December 2010



123 Technology Drive West
Irvine, CA 92618

949.727.9336 PHONE
949.727.7399 FAX

www.TRCSolutions.com

DATE: November 4, 2010

TO: ConocoPhillips Company
76 Broadway
Sacramento, California 95818

ATTN: MR. BILL BORGH

SITE: 76 STATION 1871
96 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

RE: GROUNDWATER MONITORING REPORT
OCTOBER THROUGH DECEMBER 2010

Dear Mr. Borgh:

Please find enclosed our Groundwater Monitoring Report for 76 Station, located at 96 MacArthur Boulevard, Oakland, California. If you have any questions regarding this report, please call us at (949) 727-9336.

Sincerely,

TRC

A handwritten signature in black ink, appearing to read "Anju Farfan".

Anju Farfan
Groundwater Program Operations Manager

CC: Mr. James Barnard, Delta Consultants (3 copies)

Enclosures
20-0400/1871R26.QMS

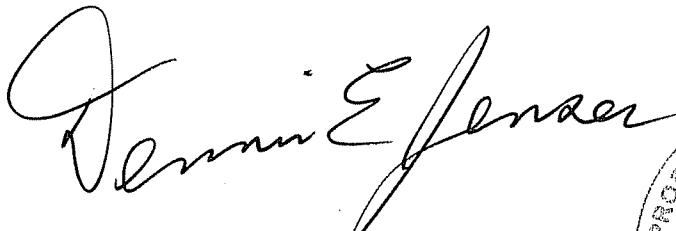
**GROUNDWATER MONITORING REPORT
OCTOBER THROUGH DECEMBER 2010**

76 STATION 1871
96 MacArthur Boulevard
Oakland, California

Prepared For:

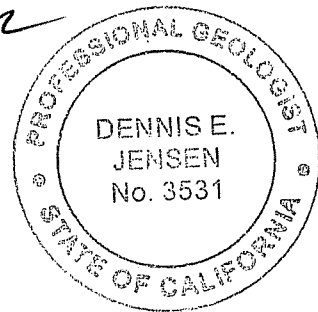
Mr. Bill Borgh
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, California 95818

By:



Senior Project Geologist, Irvine Operations

Date: 11/3/10



LIST OF ATTACHMENTS

| | |
|--------------------|---|
| Summary Sheet | Summary of Gauging and Sampling Activities |
| Tables | Table Key Contents of Tables Table 1: Current Fluid Levels and Selected Analytical Results Table 1a: Additional Current Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 2a: Additional Historic Analytical Results Table 2b: Additional Historic Analytical Results |
| Figures | Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPH-G Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map |
| Graphs | Groundwater Elevations vs. Time TPH-G Concentrations vs. Time Benzene Concentrations vs. Time MTBE Concentrations vs. Time |
| Field Activities | General Field Procedures Field Monitoring Data Sheet – 10/13/10 Groundwater Sampling Field Notes – 10/13/10 |
| Laboratory Reports | Official Laboratory Reports Quality Control Reports Chain of Custody Records |
| Statements | Purge Water Disposal Limitations |

**Summary of Gauging and Sampling Activities
October through December 2010
76 Station 1871
96 MacArthur Boulevard
Oakland, CA**

Project Coordinator: **Bill Borgh**
Telephone: **916-558-7612**

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

Date(s) of Gauging/Sampling Event: **10/13/2010**

Sample Points

Groundwater wells: **1 onsite, 6 offsite** Points gauged: **7** Points sampled: **7**
Purging method: **Diaphragm pump/bailer**
Purge water disposal: **Crosby and Overton treatment facility**
Other Sample Points: **0** Type: **--**

Liquid Phase Hydrocarbons (LPH)

Sample Points with LPH: **0** Maximum thickness (feet): **--**
LPH removal frequency: **--** Method: **--**
Treatment or disposal of water/LPH: **--**

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **7.64 feet** Maximum: **16.8 feet**
Average groundwater elevation (relative to available local datum): **70.98 feet**
Average change in groundwater elevation since previous event: **0.88 feet**
Interpreted groundwater gradient and flow direction:
 Current event: **0.03 ft/ft, west**
 Previous event: **0.03 ft/ft, west (4/14/2010)**

Selected Laboratory Results

Sample Points with detected **Benzene**: **1** Sample Points above MCL (1.0 µg/l): **1**
 Maximum reported benzene concentration: **3.0 µg/l (MW-1)**

Sample Points with **TPH-G by GC/MS** **2** Maximum: **4,600 µg/l (MW-1)**
Sample Points with **MTBE 8260B** **6** Maximum: **160 µg/l (MW-9)**

Notes:

TABLES

TABLE KEY

STANDARD ABBREVIATIONS

| | | |
|------|---|---|
| -- | = | not analyzed, measured, or collected |
| LPH | = | liquid-phase hydrocarbons |
| 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) |
| D | = | duplicate |
| P | = | no-purge sample |

ANALYTES

| | | |
|---------------|---|---|
| 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 |
| 1,2-DCA | = | 1,2-dichloroethane (same as EDC, ethylene dichloride) |

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. Prior to the 1st quarter 2010, the word "monitor" was used in table comments interchangeably with the word "gauge". Starting in the 1st quarter 2010, the word "monitor" is used to include both "gauge" and "sample".

REFERENCE

TRC began groundwater monitoring and sampling for 76 Station 1871 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
October 13, 2010
76 Station 1871

| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (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: 9.5-24.5) | | | | | | | | | | | |
| 10/13/2010 | 90.21 | 14.83 | 0.00 | 75.38 | 0.51 | -- | 4600 | 3.0 | ND<0.50 | 180 | 73 | -- | 5.6 | |
| MW-6 | | | (Screen Interval in feet: 5.0-25.0) | | | | | | | | | | | |
| 10/13/2010 | 82.51 | 9.88 | 0.00 | 72.63 | 1.09 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2.0 | |
| MW-7 | | | (Screen Interval in feet: 5.0-25.0) | | | | | | | | | | | |
| 10/13/2010 | 80.67 | 10.13 | 0.00 | 70.54 | -2.26 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 3.6 | |
| MW-8 | | | (Screen Interval in feet: 5.0-25.0) | | | | | | | | | | | |
| 10/13/2010 | 84.86 | 10.79 | 0.00 | 74.07 | 0.64 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 3.0 | |
| MW-9 | | | (Screen Interval in feet:--) | | | | | | | | | | | |
| 10/13/2010 | 85.18 | 16.80 | 0.00 | 68.38 | 0.99 | -- | 63 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 160 | |
| MW-10 | | | (Screen Interval in feet:--) | | | | | | | | | | | |
| 10/13/2010 | 78.18 | 7.64 | 0.00 | 70.54 | 1.72 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 0.58 | |
| MW-11 | | | (Screen Interval in feet:--) | | | | | | | | | | | |
| 10/13/2010 | 80.44 | 15.15 | 0.00 | 65.29 | 3.46 | -- | 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 1871

| Date Sampled | Post-purge | | | | | |
|-----------------|---------------|------------------------------|---|----------------------------|-------------------------------|---------------------------|
| | TBA (µg/l) | Ethanol (8260B) (µg/l) | Ethylene- dibromide (EDB) (µg/l) | 1,2-DCA (EDC) (µg/l) | Dissolved Oxygen (mg/l) | Post-purge ORP (mV) |
| MW-1 | | | | | | |
| 10/13/2010 | 73 | ND<250 | ND<0.50 | ND<0.50 | 2.00 | -48 |
| MW-6 | | | | | | |
| 10/13/2010 | ND<10 | ND<250 | ND<0.50 | ND<0.50 | 6.40 | 129 |
| MW-7 | | | | | | |
| 10/13/2010 | ND<10 | ND<250 | ND<0.50 | ND<0.50 | 6.50 | 44 |
| MW-8 | | | | | | |
| 10/13/2010 | ND<10 | ND<250 | ND<0.50 | ND<0.50 | 0.70 | 92 |
| MW-9 | | | | | | |
| 10/13/2010 | 11 | ND<250 | ND<0.50 | ND<0.50 | 1.08 | 114 |
| MW-10 | | | | | | |
| 10/13/2010 | ND<10 | ND<250 | ND<0.50 | ND<0.50 | 6.67 | 147 |
| MW-11 | | | | | | |
| 10/13/2010 | ND<10 | ND<250 | ND<0.50 | ND<0.50 | 2.21 | 133 |

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through October 2010
76 Station 1871

| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (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: 9.5-24.5) | | | | | | | | | | | | | | |
| 11/3/1992 | -- | -- | -- | -- | -- | 260000 | -- | 2300 | 4600 | 3700 | 17000 | -- | -- | |
| 1/25/1993 | 81.18 | -- | 0.00 | -- | -- | 120000 | -- | 2100 | 4600 | 4900 | 22000 | -- | -- | |
| 4/29/1993 | 81.18 | 13.71 | 0.00 | 67.47 | -- | 100000 | -- | 850 | 2000 | 4300 | 19000 | -- | -- | |
| 7/16/1993 | 81.18 | 14.51 | 0.00 | 66.67 | -0.80 | 29000 | -- | 590 | 560 | 980 | 4200 | -- | -- | |
| 10/19/1993 | 81.18 | 15.20 | 0.00 | 65.98 | -0.69 | 67000 | -- | 1400 | 2600 | 2900 | 5000 | -- | -- | |
| 1/20/1994 | 81.18 | 15.17 | 0.00 | 66.01 | 0.03 | 92000 | -- | 1200 | 3000 | 3400 | 17000 | -- | -- | |
| 4/13/1994 | 81.18 | 14.44 | 0.00 | 66.74 | 0.73 | 51000 | -- | 1000 | 2600 | 3200 | 15000 | -- | -- | |
| 7/13/1994 | 81.18 | 14.88 | 0.00 | 66.30 | -0.44 | 35000 | -- | 550 | 150 | 1400 | 5700 | -- | -- | |
| 10/10/1994 | 81.18 | 15.55 | 0.00 | 65.63 | -0.67 | 52000 | -- | 1000 | 810 | 3300 | 12000 | -- | -- | |
| 1/10/1995 | 81.18 | 12.44 | 0.00 | 68.74 | 3.11 | 810 | -- | 16 | 18 | 59 | 250 | -- | -- | |
| 4/17/1995 | 81.18 | 12.68 | 0.00 | 68.50 | -0.24 | 48000 | -- | 880 | 530 | 2500 | 11000 | -- | -- | |
| 7/24/1995 | 81.18 | 13.97 | 0.00 | 67.21 | -1.29 | 48000 | -- | 1500 | 420 | 2700 | 9700 | -- | -- | |
| 10/23/1995 | 81.18 | 14.85 | 0.00 | 66.33 | -0.88 | 47000 | -- | 780 | 210 | 2100 | 11000 | 270 | -- | |
| 1/18/1996 | 81.18 | 14.21 | 0.00 | 66.97 | 0.64 | 30000 | -- | 1500 | 500 | 3500 | 13000 | 2400 | -- | |
| 4/18/1996 | 86.24 | 13.40 | 0.00 | 72.84 | 5.87 | 66000 | -- | 2700 | 2200 | 3100 | 13000 | 57000 | -- | |
| 7/24/1996 | 86.24 | 14.15 | 0.00 | 72.09 | -0.75 | 5600 | -- | 2100 | ND | 160 | 160 | 24000 | -- | |
| 10/24/1996 | 86.24 | 14.85 | 0.00 | 71.39 | -0.70 | 110000 | -- | 7500 | 8000 | 3300 | 14000 | 58000 | -- | |
| 1/28/1997 | 86.24 | 11.25 | 0.00 | 74.99 | 3.60 | 94000 | -- | 7700 | 19000 | 3100 | 15000 | 120000 | -- | |
| 7/29/1997 | 86.24 | 14.67 | 0.00 | 71.57 | -3.42 | ND | -- | ND | ND | ND | ND | 70000 | -- | |
| 1/14/1998 | 86.24 | 12.27 | 0.00 | 73.97 | 2.40 | 85000 | -- | 6100 | 10000 | 3000 | 17000 | 110000 | -- | |
| 7/1/1998 | 86.24 | 14.32 | 0.00 | 71.92 | -2.05 | 110000 | -- | 8700 | 12000 | 2700 | 15000 | 110000 | -- | |
| 6/18/1999 | 86.24 | 13.93 | 0.00 | 72.31 | 0.39 | 49000 | -- | 6900 | 6500 | 380 | 12000 | 72000 | 47000 | |



Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through October 2010
76 Station 1871

| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (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 | | | | | | | | | | | | | | |
| 1/21/2000 | 86.24 | 15.05 | 0.00 | 71.19 | -1.12 | 63700 | -- | 5520 | 2000 | 2640 | 13100 | 57100 | -- | |
| 7/10/2000 | 86.24 | 13.97 | 0.00 | 72.27 | 1.08 | 67800 | -- | 9910 | 4120 | 3330 | 16100 | 67400 | 54000 | |
| 1/4/2001 | 86.24 | 14.92 | 0.00 | 71.32 | -0.95 | 63900 | -- | 6270 | 784 | 2670 | 12900 | -- | 38100 | |
| 7/16/2001 | 86.24 | 14.32 | 0.00 | 71.92 | 0.60 | 66000 | -- | 7100 | 330 | 2300 | 9800 | 36000 | 41000 | |
| 1/31/2002 | 86.99 | 13.54 | 0.00 | 73.45 | 1.53 | 42000 | -- | 5800 | 1800 | 2000 | 8200 | 26000 | 26000 | |
| 4/11/2002 | 86.99 | 13.64 | 0.00 | 73.35 | -0.10 | 58000 | -- | 2900 | 1200 | 1800 | 10000 | 19000 | -- | |
| 7/11/2002 | 86.99 | 13.96 | 0.00 | 73.03 | -0.32 | -- | 5900 | 330 | ND<10 | 230 | 600 | -- | 3400 | |
| 10/15/2002 | 86.99 | 14.71 | 0.00 | 72.28 | -0.75 | -- | 470 | 16 | ND<2.5 | 14 | 16 | -- | 390 | |
| 1/14/2003 | 86.99 | 12.77 | 0.00 | 74.22 | 1.94 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 49 | |
| 4/16/2003 | 86.99 | 13.18 | 0.00 | 73.81 | -0.41 | -- | 510 | 57 | 0.62 | 29 | 61 | -- | 160 | |
| 7/16/2003 | 86.99 | 14.26 | 0.00 | 72.73 | -1.08 | -- | 27000 | 260 | 23 | 730 | 3200 | -- | 1200 | |
| 10/2/2003 | 86.99 | 14.95 | 0.00 | 72.04 | -0.69 | -- | 45000 | 1400 | 32 | 2900 | 7600 | -- | 3200 | |
| 1/7/2004 | 86.99 | 12.30 | 0.00 | 74.69 | 2.65 | -- | 34000 | 690 | 41 | 1600 | 5200 | -- | 2600 | |
| 4/2/2004 | 86.99 | 13.18 | 0.00 | 73.81 | -0.88 | -- | 350 | 1.8 | ND<0.50 | 6.2 | 30 | -- | 19 | |
| 7/29/2004 | 86.99 | 14.61 | 0.00 | 72.38 | -1.43 | -- | 41000 | 550 | ND<20 | 2000 | 6100 | -- | 1200 | |
| 11/24/2004 | 86.99 | 14.98 | 0.00 | 72.01 | -0.37 | -- | 55000 | 910 | 28 | 3100 | 11000 | -- | 1600 | |
| 1/24/2005 | 86.99 | 12.98 | 0.00 | 74.01 | 2.00 | -- | 24000 | 240 | ND<20 | 1100 | 3600 | -- | 1800 | |
| 6/23/2005 | 86.99 | 13.39 | 0.00 | 73.60 | -0.41 | -- | 24000 | 140 | ND<25 | 1100 | 2900 | -- | 600 | |
| 9/28/2005 | 86.99 | 14.63 | 0.00 | 72.36 | -1.24 | -- | 8200 | 22 | 0.97 | 290 | 660 | -- | 320 | |
| 12/20/2005 | 86.99 | 11.42 | 0.00 | 75.57 | 3.21 | -- | 10000 | 17 | 29 | 180 | 840 | -- | 2400 | |
| 3/10/2006 | 86.99 | 10.98 | 0.00 | 76.01 | 0.44 | -- | 10000 | 35 | ND<5.0 | 470 | 1300 | -- | 960 | |
| 6/23/2006 | 86.99 | 11.85 | 0.00 | 75.14 | -0.87 | -- | 11000 | 110 | ND<5.0 | 610 | 1600 | -- | 780 | |
| 9/27/2006 | 86.99 | 14.11 | 0.00 | 72.88 | -2.26 | -- | 8500 | 22 | ND<10 | 270 | 740 | -- | 460 | |

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through October 2010
76 Station 1871

| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (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 | | | | | | | | | | | | | | |
| 12/22/2006 | 86.99 | 13.66 | 0.00 | 73.33 | 0.45 | -- | 7300 | 35 | ND<5.0 | 370 | 850 | -- | 210 | |
| 3/23/2007 | 86.99 | 13.25 | 0.00 | 73.74 | 0.41 | -- | 8800 | 28 | ND<2.5 | 440 | 910 | -- | 170 | |
| 6/29/2007 | 86.99 | 13.47 | 0.00 | 73.52 | -0.22 | -- | 6300 | 16 | ND<2.5 | 300 | 650 | -- | 50 | |
| 9/28/2007 | 86.99 | 13.92 | 0.00 | 73.07 | -0.45 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 1.2 | |
| 12/17/2007 | 86.99 | 14.57 | 0.00 | 72.42 | -0.65 | -- | 4700 | ND<5.0 | ND<5.0 | 71 | 160 | -- | 18 | |
| 3/25/2008 | 86.99 | 13.56 | 0.00 | 73.43 | 1.01 | -- | 7400 | 28 | ND<2.5 | 430 | 540 | -- | 170 | |
| 6/12/2008 | 86.99 | 14.07 | 0.00 | 72.92 | -0.51 | -- | 4900 | 6.4 | ND<2.5 | 170 | 280 | -- | 16 | |
| 9/25/2008 | 86.99 | 14.55 | 0.00 | 72.44 | -0.48 | -- | 2200 | 2.1 | ND<0.50 | 72 | 110 | -- | 11 | |
| 12/30/2008 | 86.99 | 14.16 | 0.00 | 72.83 | 0.39 | -- | 3200 | 2.5 | ND<0.50 | 100 | 150 | -- | 8.3 | |
| 3/24/2009 | 86.99 | 12.76 | 0.00 | 74.23 | 1.40 | -- | 3500 | 6.8 | ND<0.50 | 140 | 140 | -- | 28 | |
| 6/23/2009 | 86.99 | 13.88 | 0.00 | 73.11 | -1.12 | -- | 740 | ND<2.5 | ND<2.5 | 17 | 12 | -- | 7.5 | |
| 12/16/2009 | 86.99 | 14.32 | 0.00 | 72.67 | -0.44 | -- | 4600 | 10 | ND<1.0 | 270 | 140 | -- | 52 | |
| 4/14/2010 | 86.99 | 12.12 | 0.00 | 74.87 | 2.20 | -- | 1500 | 4.8 | ND<1.0 | 100 | 36 | -- | 20 | |
| 10/13/2010 | 90.21 | 14.83 | 0.00 | 75.38 | 0.51 | -- | 4600 | 3.0 | ND<0.50 | 180 | 73 | -- | 5.6 | |
| MW-2 (Screen Interval in feet: --) | | | | | | | | | | | | | | |
| 11/3/1992 | 76.61 | -- | -- | -- | -- | 140 | -- | 2.2 | ND | ND | 2.0 | -- | -- | |
| 1/25/1993 | 76.61 | -- | -- | -- | -- | 2100 | -- | 56 | 1.1 | 90 | 140 | -- | -- | |
| 4/29/1993 | 76.61 | 9.73 | 0.00 | 66.88 | -- | 1500 | -- | 290 | ND | 33 | 11 | -- | -- | |
| 7/16/1993 | 76.61 | 10.17 | 0.00 | 66.44 | -0.44 | 510 | -- | 17 | 0.60 | 3.2 | 2.5 | -- | -- | |
| 10/19/1993 | 76.61 | 11.18 | 0.00 | 65.43 | -1.01 | 670 | -- | 24 | 1.1 | 7.7 | 23 | -- | -- | |
| 1/20/1994 | 76.61 | 11.12 | 0.00 | 65.49 | 0.06 | 820 | -- | 97 | ND | 12 | ND | -- | -- | |
| 4/13/1994 | 76.61 | 10.12 | 0.00 | 66.49 | 1.00 | 550 | -- | 71 | ND | 5.1 | 1.3 | -- | -- | |
| 7/13/1994 | 76.61 | 10.86 | 0.00 | 65.75 | -0.74 | 2000 | -- | 490 | ND | 17 | 13 | -- | -- | |

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through October 2010
76 Station 1871

| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (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 | | | | | | | | | | | | | | |
| 10/10/1994 | 76.61 | 11.48 | 0.00 | 65.13 | -0.62 | 2300 | -- | 340 | ND | 25 | ND | -- | -- | |
| 1/10/1995 | 76.61 | 8.71 | 0.00 | 67.90 | 2.77 | 850 | -- | 3.8 | ND | 8.5 | 1.3 | -- | -- | |
| 4/17/1995 | 76.61 | 8.90 | 0.00 | 67.71 | -0.19 | 1300 | -- | 4.7 | ND | 8.3 | 1.2 | -- | -- | |
| 7/24/1995 | 76.61 | 9.94 | 0.00 | 66.67 | -1.04 | 960 | -- | 20 | ND | 4.2 | 6.2 | -- | -- | |
| 10/23/1995 | 76.61 | 10.70 | 0.00 | 65.91 | -0.76 | ND | -- | ND | ND | ND | ND | 19 | -- | |
| 1/18/1996 | 76.61 | 10.11 | 0.00 | 66.50 | 0.59 | 900 | -- | 300 | 86 | 7.6 | 18 | 4300 | -- | |
| 4/18/1996 | 81.66 | 9.27 | 0.00 | 72.39 | 5.89 | 18000 | -- | 3600 | 680 | 890 | 4100 | 19000 | -- | |
| 7/24/1996 | 81.66 | 10.02 | 0.00 | 71.64 | -0.75 | 100000 | -- | 13000 | 21000 | 2700 | 16000 | 120000 | -- | |
| 10/24/1996 | 81.66 | 10.78 | 0.00 | 70.88 | -0.76 | 800 | -- | 110 | 17 | 11 | 20 | 20000 | -- | |
| 1/28/1997 | 81.66 | 7.70 | 0.00 | 73.96 | 3.08 | 45000 | -- | 2400 | 2900 | 2000 | 7600 | 29000 | -- | |
| 7/29/1997 | 81.66 | 10.28 | 0.00 | 71.38 | -2.58 | ND | -- | 1.2 | 0.72 | 0.63 | 0.62 | 17000 | -- | |
| 1/14/1998 | 81.66 | 8.63 | 0.00 | 73.03 | 1.65 | 14000 | -- | 1000 | 150 | 790 | 3300 | 23000 | -- | |
| 7/1/1998 | 81.66 | 9.53 | 0.00 | 72.13 | -0.90 | 2700 | -- | 100 | ND | 180 | 78 | 7100 | -- | |
| 6/18/1999 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Well was destroyed |
| MW-3 (Screen Interval in feet: --) | | | | | | | | | | | | | | |
| 11/3/1992 | 77.48 | -- | -- | -- | -- | 2100 | -- | 120 | 15 | 38 | 200 | -- | -- | |
| 1/25/1993 | 77.48 | -- | -- | -- | -- | 2300 | -- | 80 | 1 | 55 | 52 | -- | -- | |
| 4/29/1993 | 77.48 | 11.37 | 0.00 | 66.11 | -- | 4500 | -- | 1700 | ND | 200 | 140 | -- | -- | |
| 7/16/1993 | 77.48 | 12.09 | 0.00 | 65.39 | -0.72 | 4000 | -- | 1100 | 28 | 52 | 70 | -- | -- | |
| 10/19/1993 | 77.48 | 12.69 | 0.00 | 64.79 | -0.60 | 3800 | -- | 42 | ND | 50 | 56 | -- | -- | |
| 1/20/1994 | 77.48 | 12.65 | 0.00 | 64.83 | 0.04 | 4200 | -- | 11 | ND | 21 | 15 | -- | -- | |
| 4/13/1994 | 77.48 | 12.02 | 0.00 | 65.46 | 0.63 | 4200 | -- | 210 | ND | 36 | 53 | -- | -- | |
| 7/13/1994 | 77.48 | 12.46 | 0.00 | 65.02 | -0.44 | 1800 | -- | 16 | 16 | ND | 21 | -- | -- | |

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through October 2010
76 Station 1871

| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (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 | | | | | | | | | | | | | | |
| 10/10/1994 | 77.48 | 12.98 | 0.00 | 64.50 | -0.52 | 4300 | -- | 11 | ND | 12 | ND | -- | -- | |
| 1/10/1995 | 77.48 | 10.42 | 0.00 | 67.06 | 2.56 | 310 | -- | 4.6 | ND | 3.5 | 2.1 | -- | -- | |
| 4/17/1995 | 77.48 | 10.42 | 0.00 | 67.06 | 0.00 | 7800 | -- | ND | 4.6 | 300 | 450 | -- | -- | |
| 7/24/1995 | 77.48 | 11.76 | 0.00 | 65.72 | -1.34 | 3200 | -- | 170 | ND | 22 | 16 | -- | -- | |
| 10/23/1995 | 77.48 | 12.50 | 0.00 | 64.98 | -0.74 | 3900 | -- | 55 | ND | 19 | 11 | 4500 | -- | |
| 1/18/1996 | 77.48 | 11.79 | 0.00 | 65.69 | 0.71 | 2200 | -- | 270 | 33 | 26 | 18 | 5500 | -- | |
| 4/18/1996 | 82.55 | 11.30 | 0.00 | 71.25 | 5.56 | 6000 | -- | 1800 | ND | 100 | 230 | 48000 | -- | |
| 7/24/1996 | 82.55 | 12.17 | 0.00 | 70.38 | -0.87 | ND | -- | 2500 | ND | ND | ND | 71000 | -- | |
| 10/24/1996 | 82.55 | 12.65 | 0.00 | 69.90 | -0.48 | 3800 | -- | 660 | ND | 15 | ND | 65000 | -- | |
| 1/28/1997 | 82.55 | 9.50 | 0.00 | 73.05 | 3.15 | 4400 | -- | 250 | 13 | 87 | 47 | 54000 | -- | |
| 7/29/1997 | 82.55 | 11.99 | 0.00 | 70.56 | -2.49 | ND | -- | 3500 | ND | 220 | ND | 75000 | -- | |
| 1/14/1998 | 82.55 | 10.30 | 0.00 | 72.25 | 1.69 | ND | -- | 430 | ND | 100 | 380 | 37000 | -- | |
| 7/1/1998 | 82.55 | 11.70 | 0.00 | 70.85 | -1.40 | ND | -- | 430 | ND | ND | ND | 45000 | -- | |
| 6/18/1999 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Well was destroyed |
| MW-4 (Screen Interval in feet: --) | | | | | | | | | | | | | | |
| 4/18/1996 | 82.04 | 9.83 | 0.00 | 72.21 | -- | ND | -- | 630 | ND | ND | ND | 18000 | -- | |
| 7/24/1996 | 82.04 | 10.47 | 0.00 | 71.57 | -0.64 | ND | -- | ND | ND | ND | 5.2 | 3900 | -- | |
| 10/24/1996 | 82.04 | 11.14 | 0.00 | 70.90 | -0.67 | ND | -- | ND | ND | ND | ND | 6300 | -- | |
| 1/28/1997 | 82.04 | 7.94 | 0.00 | 74.10 | 3.20 | 1200 | -- | 490 | ND | 17 | 6.8 | 16000 | -- | |
| 7/29/1997 | 82.04 | 10.86 | 0.00 | 71.18 | -2.92 | 50 | -- | 1.5 | 0.61 | 0.73 | 0.78 | 15000 | -- | |
| 1/14/1998 | 82.04 | 8.73 | 0.00 | 73.31 | 2.13 | ND | -- | ND | ND | ND | ND | 5200 | -- | |
| 7/1/1998 | 82.04 | 10.51 | 0.00 | 71.53 | -1.78 | ND | -- | ND | ND | ND | ND | 640 | -- | |
| 6/18/1999 | 82.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Well was destroyed |

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through October 2010
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| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (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-5 | | | | | | (Screen Interval in feet: --) | | | | | | | | |
| 4/18/1996 | 81.80 | 9.65 | 0.00 | 72.15 | -- | 31000 | -- | 5500 | 1400 | 1700 | 8100 | 66000 | -- | |
| 7/24/1996 | 81.80 | 10.80 | 0.00 | 71.00 | -1.15 | 32000 | -- | 6400 | ND | 1600 | 6100 | 120000 | -- | |
| 10/24/1996 | 81.80 | 11.40 | 0.00 | 70.40 | -0.60 | 17000 | -- | 6900 | ND | 970 | 130 | 84000 | -- | |
| 1/28/1997 | 81.80 | 7.76 | 0.00 | 74.04 | 3.64 | 19000 | -- | 6100 | 62 | 82 | 310 | 160000 | -- | |
| 7/29/1997 | 81.80 | 11.58 | 0.00 | 70.22 | -3.82 | ND | -- | ND | ND | ND | ND | 71000 | -- | |
| 1/14/1998 | 81.80 | 9.08 | 0.00 | 72.72 | 2.50 | ND | -- | 3600 | ND | ND | ND | 80000 | -- | |
| 7/1/1998 | 81.80 | 11.25 | 0.00 | 70.55 | -2.17 | 6400 | -- | 2100 | 21 | 120 | 330 | 61000 | -- | |
| 6/18/1999 | 81.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Well was destroyed |
| MW-6 | | | | | | (Screen Interval in feet: 5.0-25.0) | | | | | | | | |
| 6/18/1999 | 78.91 | 9.30 | 0.00 | 69.61 | -- | 2100 | -- | 21 | 29 | ND | 47 | 97000 | 71000 | |
| 1/21/2000 | 78.91 | 9.37 | 0.00 | 69.54 | -0.07 | 1880 | -- | 143 | 31.2 | 106 | 196 | 41200 | 48800 | |
| 7/10/2000 | 78.91 | 8.94 | 0.00 | 69.97 | 0.43 | 5710 | -- | 869 | 209 | 301 | 1430 | 22200 | 19500 | |
| 1/4/2001 | 78.91 | 9.21 | 0.00 | 69.70 | -0.27 | ND | -- | ND | ND | ND | ND | -- | 9510 | |
| 7/16/2001 | 78.91 | 9.42 | 0.00 | 69.49 | -0.21 | 4800 | -- | 200 | 21 | 150 | 440 | 29000 | 34000 | |
| 1/31/2002 | 78.91 | 8.50 | 0.00 | 70.41 | 0.92 | 12000 | -- | 250 | 92 | 500 | 1500 | 26000 | 31000 | |
| 4/11/2002 | 79.67 | 9.08 | 0.00 | 70.59 | 0.18 | 3600 | -- | 42 | 32 | 39 | 280 | 120000 | -- | |
| 7/11/2002 | 79.67 | 9.70 | 0.00 | 69.97 | -0.62 | -- | 12000 | ND<100 | ND<100 | ND<100 | ND<200 | -- | 15000 | |
| 10/15/2002 | 79.67 | 9.96 | 0.00 | 69.71 | -0.26 | -- | 1300 | ND<10 | ND<10 | ND<10 | ND<20 | -- | 3200 | |
| 1/14/2003 | 79.67 | 8.31 | 0.00 | 71.36 | 1.65 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 120 | |
| 4/16/2003 | 79.67 | 8.21 | 0.00 | 71.46 | 0.10 | -- | 270 | ND<0.50 | ND<0.50 | ND<0.50 | 1.3 | -- | 15 | |
| 7/16/2003 | 79.67 | 9.43 | 0.00 | 70.24 | -1.22 | -- | 290 | 39 | 0.60 | ND<0.50 | 15 | -- | 150 | |
| 10/2/2003 | 79.67 | 9.92 | 0.00 | 69.75 | -0.49 | -- | 200 | ND<1.0 | ND<1.0 | ND<1.0 | ND<2.0 | -- | 220 | |
| 1/7/2004 | 79.67 | 8.08 | 0.00 | 71.59 | 1.84 | -- | 140 | 2.4 | ND<1.0 | 8.6 | 13 | -- | 86 | |

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through October 2010
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| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (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-6 continued | | | | | | | | | | | | | | |
| 4/2/2004 | 79.67 | 8.63 | 0.00 | 71.04 | -0.55 | -- | 3200 | ND<20 | ND<20 | ND<20 | ND<40 | -- | 5900 | |
| 7/29/2004 | 79.67 | 9.75 | 0.00 | 69.92 | -1.12 | -- | 170 | ND<1.0 | ND<1.0 | ND<1.0 | ND<2.0 | -- | 160 | |
| 11/24/2004 | 79.67 | 9.59 | 0.00 | 70.08 | 0.16 | -- | 80 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 45 | |
| 1/24/2005 | 79.67 | 8.33 | 0.00 | 71.34 | 1.26 | -- | 100 | 1.1 | ND<0.50 | 0.60 | 1.1 | -- | 40 | |
| 6/23/2005 | 79.67 | 8.33 | 0.00 | 71.34 | 0.00 | -- | 230 | 0.52 | ND<0.50 | 3.6 | 9.6 | -- | 200 | |
| 9/28/2005 | 79.67 | 9.56 | 0.00 | 70.11 | -1.23 | -- | 500 | ND<0.50 | ND<0.50 | ND<0.50 | 1.2 | -- | 980 | |
| 12/20/2005 | 79.67 | 7.82 | 0.00 | 71.85 | 1.74 | -- | 640 | 0.79 | ND<0.50 | 0.68 | 2.3 | -- | 2400 | |
| 3/10/2006 | 79.67 | 6.83 | 0.00 | 72.84 | 0.99 | -- | 970 | 1.2 | ND<0.50 | 1.3 | 5.0 | -- | 3600 | |
| 6/23/2006 | 79.67 | 8.13 | 0.00 | 71.54 | -1.30 | -- | 1700 | ND<12 | ND<12 | ND<12 | ND<25 | -- | 1100 | |
| 9/27/2006 | 79.67 | 9.44 | 0.00 | 70.23 | -1.31 | -- | ND<1200 | ND<12 | ND<12 | ND<12 | ND<12 | -- | 620 | |
| 12/22/2006 | 79.67 | 8.60 | 0.00 | 71.07 | 0.84 | -- | 9100 | ND<10 | ND<10 | ND<10 | ND<10 | -- | 600 | |
| 3/23/2007 | 79.67 | 8.39 | 0.00 | 71.28 | 0.21 | -- | 330 | ND<0.50 | ND<0.50 | 0.82 | ND<0.50 | -- | 680 | |
| 6/29/2007 | 79.67 | 9.02 | 0.00 | 70.65 | -0.63 | -- | 180 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 290 | |
| 9/28/2007 | 79.67 | 9.65 | 0.00 | 70.02 | -0.63 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | ND<0.50 | |
| 12/17/2007 | 79.67 | 9.62 | 0.00 | 70.05 | 0.03 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 21 | |
| 3/25/2008 | 79.67 | 8.63 | 0.00 | 71.04 | 0.99 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 12 | |
| 6/12/2008 | 79.67 | 9.47 | 0.00 | 70.20 | -0.84 | -- | 84 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 17 | |
| 9/25/2008 | 79.67 | 9.95 | 0.00 | 69.72 | -0.48 | -- | 66 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 15 | |
| 12/30/2008 | 79.67 | 8.96 | 0.00 | 70.71 | 0.99 | -- | 55 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 12 | |
| 3/24/2009 | 79.67 | 8.02 | 0.00 | 71.65 | 0.94 | -- | 73 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 10 | |
| 6/23/2009 | 79.67 | 9.33 | 0.00 | 70.34 | -1.31 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 9.0 | |
| 12/16/2009 | 79.67 | 9.39 | 0.00 | 70.28 | -0.06 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2.7 | |
| 4/14/2010 | 79.67 | 8.13 | 0.00 | 71.54 | 1.26 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2.1 | |

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through October 2010
76 Station 1871

| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (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-6 continued | | | | | | | | | | | | | | |
| 10/13/2010 | 82.51 | 9.88 | 0.00 | 72.63 | 1.09 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2.0 | |
| MW-7 (Screen Interval in feet: 5.0-25.0) | | | | | | | | | | | | | | |
| 6/18/1999 | 79.92 | 8.70 | 0.00 | 71.22 | -- | ND | -- | ND | ND | ND | ND | 16000 | 13000 | |
| 1/21/2000 | 79.92 | 9.30 | 0.00 | 70.62 | -0.60 | ND | -- | ND | ND | ND | ND | 12300 | 18200 | |
| 7/10/2000 | 79.92 | 8.72 | 0.00 | 71.20 | 0.58 | ND | -- | ND | ND | ND | ND | 16900 | 13800 | |
| 1/4/2001 | 79.92 | 9.17 | 0.00 | 70.75 | -0.45 | ND | -- | ND | ND | ND | 0.719 | -- | 37.3 | |
| 7/16/2001 | 79.92 | 9.02 | 0.00 | 70.90 | 0.15 | ND | -- | ND | ND | ND | ND | 7200 | 4700 | |
| 1/31/2002 | 79.92 | 7.91 | 0.00 | 72.01 | 1.11 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 8900 | 9900 | |
| 4/11/2002 | 80.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Inaccessible |
| 7/11/2002 | 80.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Inaccessible |
| 10/15/2002 | 80.67 | 9.81 | 0.00 | 70.86 | -- | -- | ND<5000 | ND<50 | ND<50 | ND<50 | ND<100 | -- | 12000 | |
| 1/14/2003 | 80.67 | 7.89 | 0.00 | 72.78 | 1.92 | -- | ND<25000 | ND<250 | ND<250 | ND<250 | ND<500 | -- | 33000 | |
| 4/16/2003 | 80.67 | 8.04 | 0.00 | 72.63 | -0.15 | -- | ND<25000 | ND<250 | ND<250 | ND<250 | ND<500 | -- | 37000 | |
| 7/16/2003 | 80.67 | 9.19 | 0.00 | 71.48 | -1.15 | -- | 25000 | ND<250 | ND<250 | ND<250 | ND<500 | -- | 38000 | |
| 10/2/2003 | 80.67 | 9.89 | 0.00 | 70.78 | -0.70 | -- | 17000 | ND<100 | ND<100 | ND<100 | ND<200 | -- | 22000 | |
| 1/7/2004 | 80.67 | 7.27 | 0.00 | 73.40 | 2.62 | -- | ND<20000 | ND<200 | 460 | ND<200 | 540 | -- | 19000 | |
| 4/2/2004 | 80.67 | 8.09 | 0.00 | 72.58 | -0.82 | -- | 3400 | ND<20 | ND<20 | ND<20 | ND<40 | -- | 5100 | |
| 7/29/2004 | 80.67 | 9.40 | 0.00 | 71.27 | -1.31 | -- | 7400 | ND<50 | ND<50 | ND<50 | ND<100 | -- | 11000 | |
| 11/24/2004 | 80.67 | 9.65 | 0.00 | 71.02 | -0.25 | -- | 6200 | ND<50 | ND<50 | ND<50 | ND<100 | -- | 6800 | |
| 1/24/2005 | 80.67 | 7.92 | 0.00 | 72.75 | 1.73 | -- | ND<5000 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 13000 | |
| 6/23/2005 | 80.67 | 8.56 | 0.00 | 72.11 | -0.64 | -- | 8700 | ND<25 | ND<25 | ND<25 | ND<50 | -- | 12000 | |
| 9/28/2005 | 80.67 | 9.37 | 0.00 | 71.30 | -0.81 | -- | 1200 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 5700 | |
| 12/20/2005 | 80.67 | 6.31 | 0.00 | 74.36 | 3.06 | -- | 1100 | 0.90 | ND<0.50 | 24 | 37 | -- | 8200 | |

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through October 2010
76 Station 1871

| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (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-7 continued | | | | | | | | | | | | | | |
| 3/10/2006 | 80.67 | 5.84 | 0.00 | 74.83 | 0.47 | -- | 1200 | 24 | ND<0.50 | 3.6 | ND<1.0 | -- | 4700 | |
| 6/23/2006 | 80.67 | 6.83 | 0.00 | 73.84 | -0.99 | -- | 1800 | 21 | ND<12 | ND<12 | ND<25 | -- | 1500 | |
| 9/27/2006 | 80.67 | 8.95 | 0.00 | 71.72 | -2.12 | -- | ND<1200 | ND<12 | ND<12 | ND<12 | ND<12 | -- | 350 | |
| 12/22/2006 | 80.67 | 8.35 | 0.00 | 72.32 | 0.60 | -- | 24000 | ND<50 | ND<50 | ND<50 | ND<50 | -- | 190 | |
| 3/23/2007 | 80.67 | 8.01 | 0.00 | 72.66 | 0.34 | -- | 85 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 92 | |
| 6/29/2007 | 80.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Car parked over well |
| 9/28/2007 | 80.67 | 9.05 | 0.00 | 71.62 | -- | -- | 50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 37 | |
| 12/19/2007 | 80.67 | 9.23 | 0.00 | 71.44 | -0.18 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 5.2 | |
| 3/25/2008 | 80.67 | 8.45 | 0.00 | 72.22 | 0.78 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 7.3 | |
| 6/12/2008 | 80.67 | 8.92 | 0.00 | 71.75 | -0.47 | -- | 52 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 9.4 | |
| 9/25/2008 | 80.67 | 9.55 | 0.00 | 71.12 | -0.63 | -- | 65 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 5.6 | |
| 12/30/2008 | 80.67 | 8.99 | 0.00 | 71.68 | 0.56 | -- | 130 | ND<0.50 | ND<0.50 | ND<0.50 | 1.1 | -- | 5.7 | |
| 3/24/2009 | 80.67 | 7.73 | 0.00 | 72.94 | 1.26 | -- | 98 | 0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 9.2 | |
| 6/23/2009 | 80.67 | 9.05 | 0.00 | 71.62 | -1.32 | -- | 290 | 1.2 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 6.7 | |
| 12/16/2009 | 80.67 | 9.42 | 0.00 | 71.25 | -0.37 | -- | 150 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 3.7 | |
| 4/14/2010 | 80.67 | 7.87 | 0.00 | 72.80 | 1.55 | -- | 60 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 6.7 | |
| 10/13/2010 | 80.67 | 10.13 | 0.00 | 70.54 | -2.26 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 3.6 | |
| MW-8 (Screen Interval in feet: 5.0-25.0) | | | | | | | | | | | | | | |
| 6/18/1999 | 80.96 | 9.10 | 0.00 | 71.86 | -- | ND | -- | ND | ND | ND | ND | 290 | 160 | |
| 1/21/2000 | 80.96 | 10.00 | 0.00 | 70.96 | -0.90 | ND | -- | ND | ND | ND | 1.09 | 224 | 221 | |
| 7/10/2000 | 80.96 | 7.94 | 0.00 | 73.02 | 2.06 | ND | -- | ND | ND | ND | ND | 234 | 223 | |
| 1/4/2001 | 80.96 | 9.76 | 0.00 | 71.20 | -1.82 | 3790 | -- | 141 | 8.92 | 128 | 375 | -- | 34200 | |
| 7/16/2001 | 80.96 | 9.15 | 0.00 | 71.81 | 0.61 | ND | -- | ND | ND | ND | ND | 66 | 70 | |

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through October 2010
76 Station 1871

| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (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-8 continued | | | | | | | | | | | | | | |
| 1/31/2002 | 80.96 | 7.99 | 0.00 | 72.97 | 1.16 | 5900 | -- | 86 | ND<10 | 630 | 390 | 670 | 700 | |
| 4/11/2002 | 81.71 | 9.00 | 0.00 | 72.71 | -0.26 | 250 | -- | 2.0 | ND<0.50 | 38 | 2.2 | 410 | -- | |
| 7/11/2002 | 81.71 | 9.60 | 0.00 | 72.11 | -0.60 | -- | 110 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 120 | |
| 10/15/2002 | 81.71 | 10.60 | 0.00 | 71.11 | -1.00 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 21 | |
| 1/14/2003 | 81.71 | 8.63 | 0.00 | 73.08 | 1.97 | -- | ND<250 | 2.6 | ND<2.5 | 18 | ND<5.0 | -- | 430 | |
| 4/16/2003 | 81.71 | 8.98 | 0.00 | 72.73 | -0.35 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 18 | |
| 7/16/2003 | 81.71 | 9.63 | 0.00 | 72.08 | -0.65 | -- | 110 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 140 | |
| 10/2/2003 | 81.71 | 10.41 | 0.00 | 71.30 | -0.78 | -- | 75 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 78 | |
| 1/7/2004 | 81.71 | 8.21 | 0.00 | 73.50 | 2.20 | -- | ND<5000 | ND<50 | ND<50 | ND<50 | 340 | -- | 3700 | |
| 4/2/2004 | 81.71 | 8.51 | 0.00 | 73.20 | -0.30 | -- | 3000 | ND<20 | ND<20 | ND<20 | ND<40 | -- | 5200 | |
| 7/29/2004 | 81.71 | 9.78 | 0.00 | 71.93 | -1.27 | -- | 3200 | ND<25 | ND<25 | ND<25 | ND<50 | -- | 5500 | |
| 11/24/2004 | 81.71 | 10.19 | 0.00 | 71.52 | -0.41 | -- | 2100 | ND<10 | ND<10 | ND<10 | ND<20 | -- | 2400 | |
| 1/24/2005 | 81.71 | 8.49 | 0.00 | 73.22 | 1.70 | -- | ND<2500 | 4.0 | 0.52 | ND<0.50 | 29 | -- | 1800 | |
| 6/23/2005 | 81.71 | 8.34 | 0.00 | 73.37 | 0.15 | -- | 490 | ND<0.50 | ND<0.50 | 1.5 | ND<1.0 | -- | 980 | |
| 9/28/2005 | 81.71 | 9.61 | 0.00 | 72.10 | -1.27 | -- | 270 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 520 | |
| 12/20/2005 | 81.71 | 7.35 | 0.00 | 74.36 | 2.26 | -- | 2700 | ND<0.50 | ND<0.50 | 78 | 82 | -- | 86 | |
| 3/10/2006 | 81.71 | 6.63 | 0.00 | 75.08 | 0.72 | -- | 190 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 51 | |
| 6/23/2006 | 81.71 | 6.56 | 0.00 | 75.15 | 0.07 | -- | 3600 | ND<0.50 | ND<0.50 | 100 | 57 | -- | ND<0.50 | |
| 9/27/2006 | 81.71 | 9.64 | 0.00 | 72.07 | -3.08 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 18 | |
| 12/22/2006 | 81.71 | 9.42 | 0.00 | 72.29 | 0.22 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | 0.50 | -- | 16 | |
| 3/23/2007 | 81.71 | 8.68 | 0.00 | 73.03 | 0.74 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 12 | |
| 6/29/2007 | 81.71 | 9.10 | 0.00 | 72.61 | -0.42 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 17 | |
| 9/28/2007 | 81.71 | 9.89 | 0.00 | 71.82 | -0.79 | -- | 99 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 21 | |

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through October 2010
76 Station 1871

| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (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-8 continued | | | | | | | | | | | | | | |
| 12/17/2007 | 81.71 | 9.81 | 0.00 | 71.90 | 0.08 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 16 | |
| 3/25/2008 | 81.71 | 8.40 | 0.00 | 73.31 | 1.41 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 14 | |
| 6/12/2008 | 81.71 | 9.53 | 0.00 | 72.18 | -1.13 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 14 | |
| 9/25/2008 | 81.71 | 10.24 | 0.00 | 71.47 | -0.71 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 5.6 | |
| 12/30/2008 | 81.71 | 9.72 | 0.00 | 71.99 | 0.52 | -- | 50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 5.7 | |
| 3/24/2009 | 81.71 | 8.43 | 0.00 | 73.28 | 1.29 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 4.4 | |
| 6/23/2009 | 81.71 | 9.63 | 0.00 | 72.08 | -1.20 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 4.7 | |
| 12/16/2009 | 81.71 | 10.08 | 0.00 | 71.63 | -0.45 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2.4 | |
| 4/14/2010 | 81.71 | 8.28 | 0.00 | 73.43 | 1.80 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2.4 | |
| 10/13/2010 | 84.86 | 10.79 | 0.00 | 74.07 | 0.64 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 3.0 | |
| MW-9 (Screen Interval in feet: --) | | | | | | | | | | | | | | |
| 1/31/2002 | 82.07 | 14.72 | 0.00 | 67.35 | -- | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 680 | 910 | |
| 4/11/2002 | 82.07 | 14.85 | 0.00 | 67.22 | -0.13 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 620 | -- | |
| 7/11/2002 | 82.07 | 15.39 | 0.00 | 66.68 | -0.54 | -- | 580 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | -- | 580 | |
| 10/15/2002 | 82.07 | 16.16 | 0.00 | 65.91 | -0.77 | -- | 570 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | -- | 1400 | |
| 1/14/2003 | 82.07 | 14.75 | 0.00 | 67.32 | 1.41 | -- | ND<200 | ND<2.0 | ND<2.0 | ND<2.0 | ND<4.0 | -- | 220 | |
| 4/16/2003 | 82.07 | 14.51 | 0.00 | 67.56 | 0.24 | -- | ND<500 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | -- | 860 | |
| 7/16/2003 | 82.07 | 15.54 | 0.00 | 66.53 | -1.03 | -- | ND<2500 | ND<25 | ND<25 | ND<25 | ND<50 | -- | 1300 | |
| 10/2/2003 | 82.07 | 16.28 | 0.00 | 65.79 | -0.74 | -- | 820 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | -- | 990 | |
| 1/7/2004 | 82.07 | 14.65 | 0.00 | 67.42 | 1.63 | -- | ND<1000 | ND<10 | ND<10 | ND<10 | ND<20 | -- | 1200 | |
| 4/2/2004 | 82.07 | 15.08 | 0.00 | 66.99 | -0.43 | -- | 510 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | -- | 850 | |
| 7/29/2004 | 82.07 | 15.81 | 0.00 | 66.26 | -0.73 | -- | ND<1000 | ND<10 | ND<10 | ND<10 | ND<20 | -- | 1300 | |
| 11/24/2004 | 82.07 | 16.25 | 0.00 | 65.82 | -0.44 | -- | 1100 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | -- | 1300 | |

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through October 2010
76 Station 1871

| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (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-9 continued | | | | | | | | | | | | | | |
| 1/24/2005 | 82.07 | 14.96 | 0.00 | 67.11 | 1.29 | -- | ND<1000 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2300 | |
| 6/23/2005 | 82.07 | 14.40 | 0.00 | 67.67 | 0.56 | -- | 1500 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | -- | 2000 | |
| 9/28/2005 | 82.07 | 15.67 | 0.00 | 66.40 | -1.27 | -- | ND<2500 | ND<25 | ND<25 | ND<25 | ND<50 | -- | 2400 | |
| 12/20/2005 | 82.07 | 14.61 | 0.00 | 67.46 | 1.06 | -- | 560 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2800 | |
| 3/10/2006 | 82.07 | 13.39 | 0.00 | 68.68 | 1.22 | -- | 1100 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | -- | 2100 | |
| 6/23/2006 | 82.07 | 13.68 | 0.00 | 68.39 | -0.29 | -- | 1700 | ND<12 | ND<12 | ND<12 | ND<25 | -- | 1700 | |
| 9/27/2006 | 82.07 | 14.83 | 0.00 | 67.24 | -1.15 | -- | ND<1200 | ND<12 | ND<12 | ND<12 | ND<12 | -- | 1400 | |
| 12/22/2006 | 82.07 | 14.75 | 0.00 | 67.32 | 0.08 | -- | 680 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 1100 | |
| 3/23/2007 | 82.07 | 14.52 | 0.00 | 67.55 | 0.23 | -- | 240 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 660 | |
| 6/29/2007 | 82.07 | 14.89 | 0.00 | 67.18 | -0.37 | -- | 210 | ND<0.50 | ND<0.50 | ND<0.50 | 0.52 | -- | 410 | |
| 9/28/2007 | 82.07 | 15.48 | 0.00 | 66.59 | -0.59 | -- | 390 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | -- | 430 | |
| 12/17/2007 | 82.07 | 15.72 | 0.00 | 66.35 | -0.24 | -- | 190 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 480 | |
| 3/25/2008 | 82.07 | 14.91 | 0.00 | 67.16 | 0.81 | -- | 250 | ND<2.5 | ND<2.5 | ND<2.5 | ND<5.0 | -- | 340 | |
| 6/12/2008 | 82.07 | 15.70 | 0.00 | 66.37 | -0.79 | -- | 180 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 270 | |
| 9/25/2008 | 82.07 | 16.48 | 0.00 | 65.59 | -0.78 | -- | 170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 320 | |
| 12/30/2008 | 82.07 | 16.16 | 0.00 | 65.91 | 0.32 | -- | 160 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 230 | |
| 3/24/2009 | 82.07 | 15.23 | 0.00 | 66.84 | 0.93 | -- | 120 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 180 | |
| 6/23/2009 | 82.07 | 15.95 | 0.00 | 66.12 | -0.72 | -- | 110 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 190 | |
| 12/16/2009 | 82.07 | 16.47 | 0.00 | 65.60 | -0.52 | -- | 86 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 130 | |
| 4/14/2010 | 82.07 | 14.68 | 0.00 | 67.39 | 1.79 | -- | 100 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 160 | |
| 10/13/2010 | 85.18 | 16.80 | 0.00 | 68.38 | 0.99 | -- | 63 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 160 | |
| MW-10 (Screen Interval in feet: --) | | | | | | | | | | | | | | |
| 1/31/2002 | 74.98 | 8.02 | 0.00 | 66.96 | -- | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<5.0 | 1.2 | |

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through October 2010
76 Station 1871

| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (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-10 continued | | | | | | | | | | | | | | |
| 4/11/2002 | 74.98 | 7.60 | 0.00 | 67.38 | 0.42 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | -- | |
| 7/11/2002 | 74.98 | 8.91 | 0.00 | 66.07 | -1.31 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 1.1 | |
| 10/15/2002 | 74.98 | 11.49 | 0.00 | 63.49 | -2.58 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 1/14/2003 | 74.98 | 8.47 | 0.00 | 66.51 | 3.02 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 4/16/2003 | 74.98 | 7.92 | 0.00 | 67.06 | 0.55 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 7/16/2003 | 74.98 | 7.03 | 0.00 | 67.95 | 0.89 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 10/2/2003 | 74.98 | 7.63 | 0.00 | 67.35 | -0.60 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 1/7/2004 | 74.98 | 6.22 | 0.00 | 68.76 | 1.41 | -- | 54 | ND<0.50 | ND<0.50 | 1.3 | 4.5 | -- | ND<2.0 | |
| 4/2/2004 | 74.98 | 7.49 | 0.00 | 67.49 | -1.27 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 1.0 | |
| 7/29/2004 | 74.98 | 7.41 | 0.00 | 67.57 | 0.08 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 11/24/2004 | 74.98 | 7.55 | 0.00 | 67.43 | -0.14 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 3.5 | |
| 1/24/2005 | 74.98 | 6.40 | 0.00 | 68.58 | 1.15 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 0.71 | |
| 6/23/2005 | 74.98 | 6.46 | 0.00 | 68.52 | -0.06 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 9/28/2005 | 74.98 | 7.52 | 0.00 | 67.46 | -1.06 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 12/20/2005 | 74.98 | 6.04 | 0.00 | 68.94 | 1.48 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 0.57 | |
| 3/10/2006 | 74.98 | 5.86 | 0.00 | 69.12 | 0.18 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 6/23/2006 | 74.98 | 6.42 | 0.00 | 68.56 | -0.56 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 0.50 | |
| 9/27/2006 | 74.98 | 6.92 | 0.00 | 68.06 | -0.50 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 48 | |
| 12/22/2006 | 74.98 | 5.90 | 0.00 | 69.08 | 1.02 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 8.5 | |
| 3/23/2007 | 74.98 | 6.48 | 0.00 | 68.50 | -0.58 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 0.54 | |
| 6/29/2007 | 74.98 | 6.78 | 0.00 | 68.20 | -0.30 | -- | ND<50 | ND<0.50 | ND<0.50 | 0.76 | 1.6 | -- | 5.6 | |
| 9/28/2007 | 74.98 | 7.24 | 0.00 | 67.74 | -0.46 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 15 | |
| 12/17/2007 | 74.98 | 6.92 | 0.00 | 68.06 | 0.32 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 5.6 | |

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through October 2010
76 Station 1871

| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (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-10 continued | | | | | | | | | | | | | | |
| 3/25/2008 | 74.98 | 6.74 | 0.00 | 68.24 | 0.18 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 1.3 | |
| 6/12/2008 | 74.98 | 7.11 | 0.00 | 67.87 | -0.37 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2.6 | |
| 9/25/2008 | 74.98 | 7.70 | 0.00 | 67.28 | -0.59 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 1.8 | |
| 12/30/2008 | 74.98 | 6.73 | 0.00 | 68.25 | 0.97 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 0.80 | |
| 3/24/2009 | 74.98 | 6.41 | 0.00 | 68.57 | 0.32 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 6/23/2009 | 74.98 | 7.07 | 0.00 | 67.91 | -0.66 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 0.60 | |
| 12/16/2009 | 74.98 | 6.59 | 0.00 | 68.39 | 0.48 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 4/14/2010 | 74.98 | 6.16 | 0.00 | 68.82 | 0.43 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 10/13/2010 | 78.18 | 7.64 | 0.00 | 70.54 | 1.72 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 0.58 | |
| MW-11 (Screen Interval in feet: --) | | | | | | | | | | | | | | |
| 1/31/2002 | 77.31 | 11.71 | 0.00 | 65.60 | -- | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<5.0 | ND<1.0 | |
| 4/11/2002 | 77.31 | 11.95 | 0.00 | 65.36 | -0.24 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | -- | |
| 7/11/2002 | 77.31 | 12.79 | 0.00 | 64.52 | -0.84 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 10/15/2002 | 77.31 | 13.67 | 0.00 | 63.64 | -0.88 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 1/14/2003 | 77.31 | 13.31 | 0.00 | 64.00 | 0.36 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 4/16/2003 | 77.31 | 14.08 | 0.00 | 63.23 | -0.77 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 7/16/2003 | 77.31 | 12.98 | 0.00 | 64.33 | 1.10 | -- | 65 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 10/2/2003 | 77.31 | 12.96 | 0.00 | 64.35 | 0.02 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 1/7/2004 | 77.31 | 16.20 | 0.00 | 61.11 | -3.24 | -- | 63 | ND<0.50 | ND<0.50 | 0.68 | 2.2 | -- | ND<2.0 | |
| 4/2/2004 | 77.31 | 18.01 | 0.00 | 59.30 | -1.81 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 7/29/2004 | 77.31 | 14.39 | 0.00 | 62.92 | 3.62 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 11/24/2004 | 77.31 | 16.72 | 0.00 | 60.59 | -2.33 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 1/24/2005 | 77.31 | 17.44 | 0.00 | 59.87 | -0.72 | -- | 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 1992 Through October 2010
76 Station 1871

| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (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-11 continued | | | | | | | | | | | | | | |
| 6/23/2005 | 77.31 | 12.37 | 0.00 | 64.94 | 5.07 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 9/28/2005 | 77.31 | 16.78 | 0.00 | 60.53 | -4.41 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 12/20/2005 | 77.31 | 17.06 | 0.00 | 60.25 | -0.28 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 3/10/2006 | 77.31 | 16.20 | 0.00 | 61.11 | 0.86 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 6/23/2006 | 77.31 | 12.65 | 0.00 | 64.66 | 3.55 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 9/27/2006 | 77.31 | 14.78 | 0.00 | 62.53 | -2.13 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | ND<0.50 | |
| 12/22/2006 | 77.31 | 13.48 | 0.00 | 63.83 | 1.30 | -- | 55 | ND<0.50 | ND<0.50 | 2.1 | 5.4 | -- | ND<0.50 | |
| 3/23/2007 | 77.31 | 13.78 | 0.00 | 63.53 | -0.30 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | ND<0.50 | |
| 6/29/2007 | 77.31 | 15.58 | 0.00 | 61.73 | -1.80 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | 0.62 | -- | ND<0.50 | |
| 9/28/2007 | 77.31 | 16.02 | 0.00 | 61.29 | -0.44 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | ND<0.50 | |
| 12/17/2007 | 77.31 | 15.75 | 0.00 | 61.56 | 0.27 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | 1.0 | -- | ND<0.50 | |
| 3/25/2008 | 77.31 | 15.74 | 0.00 | 61.57 | 0.01 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 6/12/2008 | 77.31 | 13.87 | 0.00 | 63.44 | 1.87 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 9/25/2008 | 77.31 | 16.30 | 0.00 | 61.01 | -2.43 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 12/30/2008 | 77.31 | 15.82 | 0.00 | 61.49 | 0.48 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 3/24/2009 | 77.31 | 15.58 | 0.00 | 61.73 | 0.24 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 6/23/2009 | 77.31 | 13.98 | 0.00 | 63.33 | 1.60 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 12/16/2009 | 77.31 | 15.03 | 0.00 | 62.28 | -1.05 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 4/14/2010 | 77.31 | 15.48 | 0.00 | 61.83 | -0.45 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 10/13/2010 | 80.44 | 15.15 | 0.00 | 65.29 | 3.46 | -- | 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 1871

| Date Sampled | | | Ethanol | Ethylene- | 1,2-DCA | | | | pH | Post-purge | Pre-purge | Pre-purge |
|-----------------|--------|--------|----------|-----------|---------|--------|--------|--------|-------|------------|-----------|-----------|
| | TPH-D | TBA | (8260B) | dibromide | (EDC) | DIPE | ETBE | TAME | (lab) | Dissolved | Dissolved | Pre-purge |
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (pH) | Oxygen | Oxygen | ORP |
| | | | | | | | | | | (mg/l) | (mg/l) | (mV) |
| MW-1 | | | | | | | | | | | | |
| 6/18/1999 | -- | ND | ND | ND | -- | ND | ND | ND | -- | -- | -- | -- |
| 7/16/2001 | -- | ND | ND | ND | -- | ND | ND | ND | -- | -- | -- | -- |
| 1/14/2003 | -- | ND<100 | ND<500 | ND<2.0 | -- | ND<2.0 | ND<2.0 | ND<2.0 | -- | -- | -- | -- |
| 7/16/2003 | -- | -- | ND<10000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/2/2003 | -- | -- | ND<25000 | -- | -- | -- | -- | -- | -- | 25.1 | 45.7 | 80.1 |
| 1/7/2004 | -- | -- | ND<20000 | -- | -- | -- | -- | -- | -- | 12.12 | 12.31 | 142 |
| 4/2/2004 | -- | -- | ND<50 | -- | -- | -- | -- | -- | -- | 11.33 | 13.42 | 36 |
| 7/29/2004 | -- | -- | ND<2000 | -- | -- | -- | -- | -- | -- | 5.37 | 5.51 | -2 |
| 11/24/2004 | -- | -- | ND<2000 | -- | -- | -- | -- | -- | 6.58 | 3.08 | 4.73 | -43 |
| 1/24/2005 | -- | -- | ND<2000 | -- | -- | -- | -- | -- | -- | 14.3 | 17.0 | 100 |
| 6/23/2005 | -- | -- | ND<50000 | -- | -- | -- | -- | -- | -- | -- | 4.79 | -103 |
| 9/28/2005 | -- | -- | ND<1000 | -- | -- | -- | -- | -- | -- | 3.45 | 4.73 | -91 |
| 12/20/2005 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 4.16 | 2.76 | -210 |
| 3/10/2006 | -- | -- | ND<2500 | -- | -- | -- | -- | -- | -- | 1.45 | 1.64 | -511 |
| 6/23/2006 | -- | -- | ND<2500 | -- | -- | -- | -- | -- | -- | -- | 4.31 | -030 |
| 9/27/2006 | -- | -- | ND<5000 | -- | -- | -- | -- | -- | -- | 4.50 | 4.72 | -32 |
| 12/22/2006 | -- | -- | ND<2500 | -- | -- | -- | -- | -- | -- | 6.80 | 2.35 | -121 |
| 3/23/2007 | -- | -- | ND<1200 | -- | -- | -- | -- | -- | -- | 3.22 | 3.45 | -135 |
| 6/29/2007 | -- | -- | ND<1200 | -- | -- | -- | -- | -- | -- | 6.64 | 7.11 | -131 |
| 9/28/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | -- | 7.84 | -167 |
| 12/17/2007 | -- | -- | ND<2500 | -- | -- | -- | -- | -- | -- | 9.74 | 6.51 | -63 |
| 3/25/2008 | -- | -- | ND<1200 | -- | -- | -- | -- | -- | -- | 6.70 | 6.50 | -60 |
| 6/12/2008 | -- | 330 | ND<1200 | -- | -- | -- | -- | -- | -- | -- | 4.33 | 65 |
| 9/25/2008 | -- | 740 | ND<250 | -- | -- | -- | -- | -- | -- | -- | 1.16 | 105 |
| 12/30/2008 | -- | 400 | ND<250 | -- | -- | -- | -- | -- | -- | 2.44 | 0.91 | 0 |

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

| Date Sampled | | | Ethanol | Ethylene- | 1,2-DCA | | | | pH | Post-purge | Pre-purge | Pre-purge |
|-----------------------|--------|---------|---------|-----------|---------|--------|--------|--------|-------|------------|-----------|-----------|
| | TPH-D | TBA | (8260B) | dibromide | (EDC) | DIPE | ETBE | TAME | (lab) | Dissolved | Dissolved | Pre-purge |
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (pH) | Oxygen | Oxygen | ORP |
| | | | | | | | | | | (mg/l) | (mg/l) | (mV) |
| MW-1 continued | | | | | | | | | | | | |
| 3/24/2009 | -- | 390 | ND<250 | -- | -- | -- | -- | -- | -- | 1.60 | 1.31 | -29 |
| 6/23/2009 | -- | 500 | ND<1200 | -- | -- | -- | -- | -- | -- | -- | 0.86 | -28 |
| 12/16/2009 | -- | ND<20 | ND<500 | -- | -- | -- | -- | -- | -- | 0.66 | -- | -- |
| 4/14/2010 | -- | 500 | ND<500 | -- | -- | -- | -- | -- | -- | 2.48 | -- | -- |
| 10/13/2010 | -- | 73 | ND<250 | ND<0.50 | ND<0.50 | -- | -- | -- | -- | 2.00 | -- | -- |
| MW-4 | | | | | | | | | | | | |
| 4/18/1996 | 110 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 7/24/1996 | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/24/1996 | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1/28/1997 | 210 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 7/29/1997 | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1/14/1998 | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 7/1/1998 | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | | | | | | | | | | | | |
| 6/18/1999 | -- | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- |
| 7/16/2001 | -- | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- |
| 7/11/2002 | -- | ND<1000 | ND<5000 | ND<100 | ND<100 | ND<200 | ND<100 | ND<100 | -- | -- | -- | -- |
| 1/14/2003 | -- | ND<100 | ND<500 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | -- | -- | -- | -- |
| 7/16/2003 | -- | -- | ND<500 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/2/2003 | -- | -- | ND<1000 | -- | -- | -- | -- | -- | -- | 15.5 | 26.2 | 139 |
| 1/7/2004 | -- | -- | ND<1000 | -- | -- | -- | -- | -- | -- | 12.63 | 14.29 | -12 |
| 4/2/2004 | -- | -- | ND<2000 | -- | -- | -- | -- | -- | -- | 12.63 | 12.72 | 9 |
| 7/29/2004 | -- | -- | ND<100 | -- | -- | -- | -- | -- | -- | 4.74 | 4.79 | -19 |
| 11/24/2004 | -- | -- | ND<50 | -- | -- | -- | -- | -- | 6.99 | 2.81 | 5.54 | -29 |
| 1/24/2005 | -- | -- | ND<50 | -- | -- | -- | -- | -- | -- | 14.5 | 15.3 | 72 |

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

| Date Sampled | | | Ethanol | Ethylene- | 1,2-DCA | | | | pH | Post-purge | Pre-purge | Pre-purge |
|-----------------------|--------|----------|-----------|-----------|---------|---------|---------|---------|-------|------------|-----------|-----------|
| | TPH-D | TBA | (8260B) | dibromide | (EDC) | DIPE | ETBE | TAME | (lab) | Dissolved | Dissolved | Pre-purge |
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (pH) | Oxygen | Oxygen | ORP |
| | | | | | | | | | | (mg/l) | (mg/l) | (mV) |
| MW-6 continued | | | | | | | | | | | | |
| 6/23/2005 | -- | -- | ND<1000 | -- | -- | -- | -- | -- | -- | 1.86 | 1.73 | 70 |
| 9/28/2005 | -- | -- | ND<1000 | -- | -- | -- | -- | -- | -- | 2.63 | 2.57 | -74 |
| 12/20/2005 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 1.52 | 2.30 | -280 |
| 3/10/2006 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 5.25 | 0.80 | 173 |
| 6/23/2006 | -- | -- | ND<6200 | -- | -- | -- | -- | -- | -- | -- | 3.39 | -105 |
| 9/27/2006 | -- | -- | ND<6200 | -- | -- | -- | -- | -- | -- | 2.54 | 3.01 | -109 |
| 12/22/2006 | -- | -- | ND<5000 | -- | -- | -- | -- | -- | -- | 1.22 | 4.03 | -46 |
| 3/23/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 3.64 | 3.62 | -101 |
| 6/29/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 8.49 | 6.78 | 171 |
| 9/28/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 8.36 | 8.40 | 167 |
| 12/17/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 10.19 | 9.38 | -23 |
| 3/25/2008 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 10.03 | 10.10 | -20 |
| 6/12/2008 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | -- | 0.80 | 30 |
| 9/25/2008 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | -- | 1.05 | 118 |
| 12/30/2008 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 4.50 | 1.62 | 14 |
| 3/24/2009 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 1.79 | 1.87 | 104 |
| 6/23/2009 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 1.96 | 2.12 | 64 |
| 12/16/2009 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 1.55 | -- | -- |
| 4/14/2010 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 3.19 | -- | -- |
| 10/13/2010 | -- | ND<10 | ND<250 | ND<0.50 | ND<0.50 | -- | -- | -- | -- | 6.40 | -- | -- |
| MW-7 | | | | | | | | | | | | |
| 6/18/1999 | -- | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- |
| 7/16/2001 | -- | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- |
| 1/14/2003 | -- | ND<50000 | ND<250000 | ND<1000 | ND<1000 | ND<1000 | ND<1000 | ND<1000 | -- | -- | -- | -- |
| 7/16/2003 | -- | -- | ND<250000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

| Date Sampled | TPH-D (µg/l) | TBA (µg/l) | Ethanol (8260B) (µg/l) | Ethylene- dibromide (EDB) (µg/l) | 1,2-DCA (EDC) (µg/l) | DIPE (µg/l) | ETBE (µg/l) | TAME (µg/l) | pH (lab) (pH) | Post-purge Dissolved Oxygen (mg/l) | Pre-purge Dissolved Oxygen (mg/l) | Pre-purge ORP (mV) |
|-----------------------|-----------------|---------------|------------------------------|---|----------------------------|----------------|----------------|----------------|---------------------|---|--|--------------------------|
| MW-7 continued | | | | | | | | | | | | |
| 10/2/2003 | -- | -- | ND<100000 | -- | -- | -- | -- | -- | -- | 24.3 | 28.2 | 109 |
| 1/7/2004 | -- | -- | ND<200000 | -- | -- | -- | -- | -- | -- | 10.79 | 10.85 | 23 |
| 4/2/2004 | -- | -- | ND<2000 | -- | -- | -- | -- | -- | -- | 12.41 | 11.32 | 24 |
| 7/29/2004 | -- | -- | ND<5000 | -- | -- | -- | -- | -- | -- | 4.10 | 3.96 | 17 |
| 11/24/2004 | -- | -- | ND<5000 | -- | -- | -- | -- | -- | 6.60 | 1.99 | 3.29 | -43 |
| 1/24/2005 | -- | -- | ND<5000 | -- | -- | -- | -- | -- | -- | 17.2 | 14.5 | 71 |
| 6/23/2005 | -- | -- | ND<50000 | -- | -- | -- | -- | -- | -- | 2.84 | 2.18 | -37 |
| 9/28/2005 | -- | -- | ND<1000 | -- | -- | -- | -- | -- | -- | 3.45 | 3.63 | -81 |
| 12/20/2005 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 2.04 | 2.03 | -263 |
| 3/10/2006 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 1.28 | 0.95 | 164 |
| 6/23/2006 | -- | -- | ND<6200 | -- | -- | -- | -- | -- | -- | -- | 3.95 | -119 |
| 9/27/2006 | -- | -- | ND<6200 | -- | -- | -- | -- | -- | -- | 3.16 | 3.98 | -107 |
| 12/22/2006 | -- | -- | ND<25000 | -- | -- | -- | -- | -- | -- | 2.25 | 2.03 | -86 |
| 3/23/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 3.38 | 3.75 | -49 |
| 9/28/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 8.16 | 7.96 | 30 |
| 12/19/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 6.70 | 6.72 | -17 |
| 3/25/2008 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 4.77 | 4.81 | -30 |
| 6/12/2008 | -- | 30 | ND<250 | -- | -- | -- | -- | -- | -- | -- | 3.96 | 55 |
| 9/25/2008 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | -- | 1.11 | 115 |
| 12/30/2008 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 4.13 | 1.81 | -14 |
| 3/24/2009 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 2.70 | 2.39 | 159 |
| 6/23/2009 | -- | 16 | ND<250 | -- | -- | -- | -- | -- | -- | 0.42 | 0.84 | -8 |
| 12/16/2009 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 1.08 | -- | -- |
| 4/14/2010 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 0.78 | -- | -- |
| 10/13/2010 | -- | ND<10 | ND<250 | ND<0.50 | ND<0.50 | -- | -- | -- | -- | 6.50 | -- | -- |

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

| Date Sampled | | | Ethanol | Ethylene- | 1,2-DCA | | | | pH | Post-purge | Pre-purge | Pre-purge |
|-----------------|--------|--------|----------|-----------|---------|--------|--------|--------|-------|------------|-----------|-----------|
| | TPH-D | TBA | (8260B) | dibromide | (EDC) | DIPE | ETBE | TAME | (lab) | Dissolved | Dissolved | Pre-purge |
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (pH) | Oxygen | Oxygen | ORP |
| | | | | | | | | | | (mg/l) | (mg/l) | (mV) |
| MW-8 | | | | | | | | | | | | |
| 6/18/1999 | -- | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- |
| 7/16/2001 | -- | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- |
| 1/14/2003 | -- | ND<500 | ND<2500 | ND<10 | ND<10 | ND<10 | ND<10 | ND<10 | -- | -- | -- | -- |
| 7/16/2003 | -- | -- | ND<500 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/2/2003 | -- | -- | ND<500 | -- | -- | -- | -- | -- | -- | 23.6 | 28.5 | 188 |
| 1/7/2004 | -- | -- | ND<50000 | -- | -- | -- | -- | -- | -- | 9.94 | 13.13 | -15 |
| 4/2/2004 | -- | -- | ND<2000 | -- | -- | -- | -- | -- | -- | 13.37 | 12.82 | -10 |
| 7/29/2004 | -- | -- | ND<2500 | -- | -- | -- | -- | -- | -- | 3.68 | 3.73 | 18 |
| 11/24/2004 | -- | -- | ND<1000 | -- | -- | -- | -- | -- | 6.67 | 3.97 | 2.71 | -36 |
| 1/24/2005 | -- | -- | ND<2500 | -- | -- | -- | -- | -- | -- | 41.6 | 41.2 | 56 |
| 6/23/2005 | -- | -- | ND<1000 | -- | -- | -- | -- | -- | -- | 2.05 | 2.13 | 58 |
| 9/28/2005 | -- | -- | ND<1000 | -- | -- | -- | -- | -- | -- | 2.12 | 1.98 | -40 |
| 12/20/2005 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 2.02 | 3.72 | -402 |
| 3/10/2006 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 1.51 | 0.99 | -182 |
| 6/23/2006 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | -- | 2.81 | -135 |
| 9/27/2006 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 4.87 | 4.91 | -155 |
| 12/22/2006 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 1.80 | 2.40 | 16 |
| 3/23/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 3.52 | 3.90 | 25 |
| 6/29/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 5.35 | 5.29 | 98 |
| 9/28/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 7.18 | 7.24 | 16 |
| 12/17/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 6.95 | 5.26 | 26 |
| 3/25/2008 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 5.22 | 5.15 | 70 |
| 6/12/2008 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | -- | 9.40 | 38 |
| 9/25/2008 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | -- | 1.33 | 98 |
| 12/30/2008 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 1.78 | 2.19 | 11 |

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

| Date Sampled | | | Ethanol | Ethylene- | 1,2-DCA | | | | pH | Post-purge | Pre-purge | Pre-purge |
|-----------------------|--------|--------|----------|-----------|---------|--------|--------|--------|-------|------------|-----------|-----------|
| | TPH-D | TBA | (8260B) | dibromide | (EDC) | DIPE | ETBE | TAME | (lab) | Dissolved | Dissolved | Pre-purge |
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (pH) | Oxygen | Oxygen | ORP |
| | | | | | | | | | | (mg/l) | (mg/l) | (mV) |
| MW-8 continued | | | | | | | | | | | | |
| 3/24/2009 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 2.07 | 1.87 | 103 |
| 6/23/2009 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 0.55 | 0.90 | 73 |
| 12/16/2009 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 1.24 | -- | -- |
| 4/14/2010 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 0.92 | -- | -- |
| 10/13/2010 | -- | ND<10 | ND<250 | ND<0.50 | ND<0.50 | -- | -- | -- | -- | 0.70 | -- | -- |
| MW-9 | | | | | | | | | | | | |
| 1/31/2002 | -- | ND<140 | ND<3600 | ND<7.1 | ND<7.1 | ND<7.1 | ND<7.1 | ND<7.1 | -- | -- | -- | -- |
| 1/14/2003 | -- | ND<400 | ND<2000 | ND<8.0 | ND<8.0 | ND<8.0 | ND<8.0 | ND<8.0 | -- | -- | -- | -- |
| 7/16/2003 | -- | -- | ND<25000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/2/2003 | -- | -- | ND<5000 | -- | -- | -- | -- | -- | -- | 29.5 | 28.4 | 201 |
| 1/7/2004 | -- | -- | ND<10000 | -- | -- | -- | -- | -- | -- | 10.45 | 12.00 | 9 |
| 4/2/2004 | -- | -- | ND<500 | -- | -- | -- | -- | -- | -- | 16.37 | 13.21 | 12 |
| 7/29/2004 | -- | -- | ND<1000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/24/2004 | -- | -- | ND<500 | -- | -- | -- | -- | -- | 6.47 | 3.24 | 1.71 | -68 |
| 1/24/2005 | -- | -- | ND<1000 | -- | -- | -- | -- | -- | -- | 26.0 | 22.5 | -45 |
| 6/23/2005 | -- | -- | ND<10000 | -- | -- | -- | -- | -- | -- | 1.50 | 1.44 | -136 |
| 9/28/2005 | -- | -- | ND<50000 | -- | -- | -- | -- | -- | -- | 2.51 | 1.67 | -94 |
| 12/20/2005 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 5.05 | 4.67 | -102 |
| 3/10/2006 | -- | -- | ND<2500 | -- | -- | -- | -- | -- | -- | 2.82 | 2.13 | 160 |
| 6/23/2006 | -- | -- | ND<6200 | -- | -- | -- | -- | -- | -- | -- | 0.84 | -65 |
| 9/27/2006 | -- | -- | ND<6200 | -- | -- | -- | -- | -- | -- | 0.68 | 0.75 | -61 |
| 12/22/2006 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 9.00 | 4.89 | -44 |
| 3/23/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 6.85 | 5.33 | -114 |
| 6/29/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 6.87 | 6.25 | 23 |
| 9/28/2007 | -- | -- | ND<1200 | -- | -- | -- | -- | -- | -- | 7.17 | 7.04 | 30 |

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

| Date Sampled | | | Ethanol | Ethylene- | 1,2-DCA | | | | pH | Post-purge | Pre-purge | Pre-purge |
|-----------------------|--------|--------|---------|-----------|---------|--------|--------|--------|-------|------------|-----------|-----------|
| | TPH-D | TBA | (8260B) | dibromide | (EDC) | DIPE | ETBE | TAME | (lab) | Dissolved | Dissolved | Pre-purge |
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (pH) | Oxygen | Oxygen | ORP |
| | | | | | | | | | | (mg/l) | (mg/l) | (mV) |
| MW-9 continued | | | | | | | | | | | | |
| 12/17/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 5.05 | 4.81 | -27 |
| 3/25/2008 | -- | -- | ND<1200 | -- | -- | -- | -- | -- | -- | 6.55 | 6.67 | -10 |
| 6/12/2008 | -- | 250 | ND<250 | -- | -- | -- | -- | -- | -- | -- | 2.55 | 86 |
| 9/25/2008 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | -- | 1.44 | 26 |
| 12/30/2008 | -- | 21 | ND<250 | -- | -- | -- | -- | -- | -- | 5.47 | 5.43 | 52 |
| 3/24/2009 | -- | 24 | ND<250 | -- | -- | -- | -- | -- | -- | 2.80 | 2.69 | 66 |
| 6/23/2009 | -- | 14 | ND<250 | -- | -- | -- | -- | -- | -- | 1.88 | 1.42 | -20 |
| 12/16/2009 | -- | 22 | ND<250 | -- | -- | -- | -- | -- | -- | 0.99 | -- | -- |
| 4/14/2010 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 1.41 | -- | -- |
| 10/13/2010 | -- | 11 | ND<250 | ND<0.50 | ND<0.50 | -- | -- | -- | -- | 1.08 | -- | -- |
| MW-10 | | | | | | | | | | | | |
| 1/31/2002 | -- | ND<20 | ND<500 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | -- | -- | -- | -- |
| 1/14/2003 | -- | ND<100 | ND<500 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | -- | -- | -- | -- |
| 7/16/2003 | -- | -- | ND<500 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/2/2003 | -- | -- | ND<500 | -- | -- | -- | -- | -- | -- | 24.8 | 25.7 | 192 |
| 1/7/2004 | -- | -- | ND<500 | -- | -- | -- | -- | -- | -- | 10.04 | 11.62 | 35 |
| 4/2/2004 | -- | -- | ND<50 | -- | -- | -- | -- | -- | -- | 11.91 | 12.02 | 42 |
| 7/29/2004 | -- | -- | ND<50 | -- | -- | -- | -- | -- | -- | 4.81 | 4.83 | 83 |
| 11/24/2004 | -- | -- | ND<50 | -- | -- | -- | -- | -- | 6.89 | 2.59 | 3.07 | -39 |
| 1/24/2005 | -- | -- | ND<50 | -- | -- | -- | -- | -- | -- | 27.5 | 25.5 | 87 |
| 6/23/2005 | -- | -- | ND<1000 | -- | -- | -- | -- | -- | -- | 7.83 | 176 | 40 |
| 9/28/2005 | -- | -- | ND<1000 | -- | -- | -- | -- | -- | -- | 6.95 | 2.37 | -66 |
| 12/20/2005 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 3.85 | 3.45 | 59 |
| 3/10/2006 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 2.52 | 4.48 | 87 |
| 6/23/2006 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | -- | 1.49 | -68 |

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

| Date Sampled | | | Ethylene- | | | | | | pH | Post-purge | Pre-purge | Pre-purge |
|------------------------|-----------------|---------------|------------------------------|------------------------------|----------------------------|----------------|----------------|----------------|---------------|-------------------------------|-------------------------------|--------------------------|
| | TPH-D (µg/l) | TBA (µg/l) | Ethanol (8260B) (µg/l) | dibromide (EDB) (µg/l) | 1,2-DCA (EDC) (µg/l) | DIPE (µg/l) | ETBE (µg/l) | TAME (µg/l) | (lab) (pH) | Dissolved Oxygen (mg/l) | Dissolved Oxygen (mg/l) | Pre-purge ORP (mV) |
| MW-10 continued | | | | | | | | | | | | |
| 9/27/2006 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 1.79 | 1.55 | -85 |
| 12/22/2006 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 3.20 | 3.00 | 107 |
| 3/23/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 5.09 | 5.01 | -60 |
| 6/29/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 9.12 | 6.27 | 165 |
| 9/28/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 8.34 | 8.21 | 124 |
| 12/17/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 4.97 | 4.46 | -15 |
| 3/25/2008 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 4.35 | 4.40 | -10 |
| 6/12/2008 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | -- | 1.42 | 75 |
| 9/25/2008 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | -- | 52.15 | 94 |
| 12/30/2008 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 5.89 | 3.18 | 181 |
| 3/24/2009 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 4.37 | 4.07 | 144 |
| 6/23/2009 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 3.17 | 1.64 | 57 |
| 12/16/2009 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 3.31 | -- | -- |
| 4/14/2010 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 1.61 | -- | -- |
| 10/13/2010 | -- | ND<10 | ND<250 | ND<0.50 | ND<0.50 | -- | -- | -- | -- | 6.67 | -- | -- |
| MW-11 | | | | | | | | | | | | |
| 1/31/2002 | -- | ND<20 | ND<500 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | -- | -- | -- | -- |
| 1/14/2003 | -- | ND<100 | ND<500 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | -- | -- | -- | -- |
| 7/16/2003 | -- | -- | ND<500 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/2/2003 | -- | -- | ND<500 | -- | -- | -- | -- | -- | -- | 33.7 | 23.2 | 202 |
| 1/7/2004 | -- | -- | ND<500 | -- | -- | -- | -- | -- | -- | 11.69 | 13.82 | 99 |
| 4/2/2004 | -- | -- | ND<50 | -- | -- | -- | -- | -- | -- | 11.94 | 14.08 | -1 |
| 7/29/2004 | -- | -- | ND<50 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/24/2004 | -- | -- | ND<50 | -- | -- | -- | -- | -- | 6.75 | 3.85 | 4.32 | 82 |
| 1/24/2005 | -- | -- | ND<50 | -- | -- | -- | -- | -- | -- | 30.01 | 32.6 | 79 |

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

| Date Sampled | | | Ethanol | Ethylene- | 1,2-DCA | | | | pH | Post-purge | Pre-purge | Pre-purge |
|------------------------|--------|--------|---------|-----------|---------|--------|--------|--------|-------|------------|-----------|-----------|
| | TPH-D | TBA | (8260B) | dibromide | (EDC) | DIPE | ETBE | TAME | (lab) | Dissolved | Dissolved | Pre-purge |
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (pH) | Oxygen | Oxygen | ORP |
| | | | | | | | | | | (mg/l) | (mg/l) | (mV) |
| MW-11 continued | | | | | | | | | | | | |
| 6/23/2005 | -- | -- | ND<1000 | -- | -- | -- | -- | -- | -- | 2.17 | 2.16 | 76 |
| 9/28/2005 | -- | -- | ND<1000 | -- | -- | -- | -- | -- | -- | 4.97 | 4.59 | -4 |
| 12/20/2005 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 5.16 | 4.77 | 35 |
| 3/10/2006 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 5.11 | 9.99 | 68 |
| 6/23/2006 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | -- | 7.74 | -26 |
| 9/27/2006 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 5.72 | 5.98 | 32 |
| 12/22/2006 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 3.81 | 4.35 | 46 |
| 3/23/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 5.47 | 5.85 | 38 |
| 6/29/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 7.87 | 7.80 | 242 |
| 9/28/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 7.24 | 7.30 | 280 |
| 12/17/2007 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 8.71 | 8.01 | 47 |
| 3/25/2008 | -- | -- | ND<250 | -- | -- | -- | -- | -- | -- | 8.41 | 8.40 | 45 |
| 6/12/2008 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | -- | 3.33 | 160 |
| 9/25/2008 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | -- | 4.28 | 115 |
| 12/30/2008 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 2.74 | 2.67 | 195 |
| 3/24/2009 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 2.27 | 2.20 | 185 |
| 6/23/2009 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 3.62 | 4.14 | 67 |
| 12/16/2009 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 4.62 | -- | -- |
| 4/14/2010 | -- | ND<10 | ND<250 | -- | -- | -- | -- | -- | -- | 4.15 | -- | -- |
| 10/13/2010 | -- | ND<10 | ND<250 | ND<0.50 | ND<0.50 | -- | -- | -- | -- | 2.21 | -- | -- |

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

| Date Sampled | Post-purge ORP (mV) |
|-----------------|---------------------------|
|-----------------|---------------------------|

MW-1

| | |
|------------|------|
| 10/2/2003 | 21.0 |
| 1/7/2004 | 24 |
| 4/2/2004 | 34 |
| 7/29/2004 | -4 |
| 11/24/2004 | -39 |
| 1/24/2005 | 96 |
| 9/28/2005 | -94 |
| 12/20/2005 | -328 |
| 3/10/2006 | -615 |
| 9/27/2006 | -25 |
| 12/22/2006 | -72 |
| 3/23/2007 | -141 |
| 6/29/2007 | -65 |
| 12/17/2007 | -46 |
| 3/25/2008 | -64 |
| 12/30/2008 | -2 |
| 3/24/2009 | -32 |
| 12/16/2009 | 38 |
| 4/14/2010 | 55 |
| 10/13/2010 | -48 |

MW-6

| | |
|-----------|-----|
| 10/2/2003 | 175 |
| 1/7/2004 | 24 |
| 4/2/2004 | 23 |
| 7/29/2004 | -8 |

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

| Date Sampled | Post-purge ORP (mV) |
|-----------------|---------------------------|
|-----------------|---------------------------|

MW-6 continued

| | |
|------------|------|
| 11/24/2004 | -12 |
| 1/24/2005 | 70 |
| 6/23/2005 | 71 |
| 9/28/2005 | -80 |
| 12/20/2005 | -217 |
| 3/10/2006 | 224 |
| 9/27/2006 | -104 |
| 12/22/2006 | -67 |
| 3/23/2007 | -92 |
| 6/29/2007 | 84 |
| 9/28/2007 | 154 |
| 12/17/2007 | -14 |
| 3/25/2008 | -18 |
| 12/30/2008 | 8 |
| 3/24/2009 | 91 |
| 6/23/2009 | 79 |
| 12/16/2009 | 116 |
| 4/14/2010 | 108 |
| 10/13/2010 | 129 |

MW-7

| | |
|------------|-----|
| 10/2/2003 | 153 |
| 1/7/2004 | 5 |
| 4/2/2004 | 10 |
| 7/29/2004 | 18 |
| 11/24/2004 | -24 |

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

| Date Sampled | Post-purge ORP (mV) |
|-----------------|---------------------------|
|-----------------|---------------------------|

MW-7 continued

| | |
|------------|------|
| 1/24/2005 | 48 |
| 6/23/2005 | -32 |
| 9/28/2005 | -85 |
| 12/20/2005 | -256 |
| 3/10/2006 | -179 |
| 9/27/2006 | -95 |
| 12/22/2006 | -101 |
| 3/23/2007 | -47 |
| 9/28/2007 | 26 |
| 12/19/2007 | -13 |
| 3/25/2008 | -34 |
| 12/30/2008 | -19 |
| 3/24/2009 | 138 |
| 6/23/2009 | -33 |
| 12/16/2009 | 118 |
| 4/14/2010 | 112 |
| 10/13/2010 | 44 |

MW-8

| | |
|------------|-----|
| 10/2/2003 | 197 |
| 1/7/2004 | 21 |
| 4/2/2004 | 16 |
| 7/29/2004 | 30 |
| 11/24/2004 | -20 |
| 1/24/2005 | 60 |
| 6/23/2005 | 56 |

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

| Date Sampled | Post-purge ORP (mV) |
|-----------------|---------------------------|
|-----------------|---------------------------|

MW-8 continued

| | |
|------------|------|
| 9/28/2005 | -26 |
| 12/20/2005 | -326 |
| 3/10/2006 | -181 |
| 9/27/2006 | -139 |
| 12/22/2006 | 12 |
| 3/23/2007 | 22 |
| 6/29/2007 | 92 |
| 9/28/2007 | 22 |
| 12/17/2007 | 24 |
| 3/25/2008 | 77 |
| 12/30/2008 | 14 |
| 3/24/2009 | 109 |
| 6/23/2009 | 55 |
| 12/16/2009 | 75 |
| 4/14/2010 | 120 |
| 10/13/2010 | 92 |

MW-9

| | |
|------------|------|
| 10/2/2003 | 203 |
| 1/7/2004 | 27 |
| 4/2/2004 | 32 |
| 11/24/2004 | -67 |
| 1/24/2005 | -45 |
| 6/23/2005 | -144 |
| 9/28/2005 | -119 |
| 12/20/2005 | -42 |

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

| Date Sampled | Post-purge ORP (mV) |
|-----------------|---------------------------|
|-----------------|---------------------------|

MW-9 continued

| | |
|------------|-----|
| 3/10/2006 | 161 |
| 9/27/2006 | -43 |
| 12/22/2006 | -70 |
| 3/23/2007 | -82 |
| 6/29/2007 | 22 |
| 9/28/2007 | 30 |
| 12/17/2007 | -35 |
| 3/25/2008 | -14 |
| 12/30/2008 | 38 |
| 3/24/2009 | 58 |
| 6/23/2009 | -30 |
| 12/16/2009 | 102 |
| 4/14/2010 | 49 |
| 10/13/2010 | 114 |

MW-10

| | |
|------------|-----|
| 10/2/2003 | 213 |
| 1/7/2004 | 59 |
| 4/2/2004 | 45 |
| 7/29/2004 | 102 |
| 11/24/2004 | -29 |
| 1/24/2005 | 84 |
| 6/23/2005 | 44 |
| 9/28/2005 | -64 |
| 12/20/2005 | 58 |
| 3/10/2006 | 83 |

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

| Date Sampled | Post-purge ORP (mV) |
|------------------------|---------------------------|
| MW-10 continued | |
| 9/27/2006 | -65 |
| 12/22/2006 | 85 |
| 6/29/2007 | 172 |
| 9/28/2007 | 126 |
| 12/17/2007 | -2 |
| 3/25/2008 | -12 |
| 12/30/2008 | 184 |
| 3/24/2009 | 160 |
| 6/23/2009 | 68 |
| 12/16/2009 | 118 |
| 4/14/2010 | 112 |
| 10/13/2010 | 147 |
| MW-11 | |
| 10/2/2003 | 255 |
| 1/7/2004 | 103 |
| 4/2/2004 | 108 |
| 11/24/2004 | 143 |
| 1/24/2005 | 83 |
| 6/23/2005 | 82 |
| 9/28/2005 | -1 |
| 12/20/2005 | 070 |
| 3/10/2006 | 97 |
| 9/27/2006 | 40 |
| 12/22/2006 | 44 |
| 3/23/2007 | 34 |

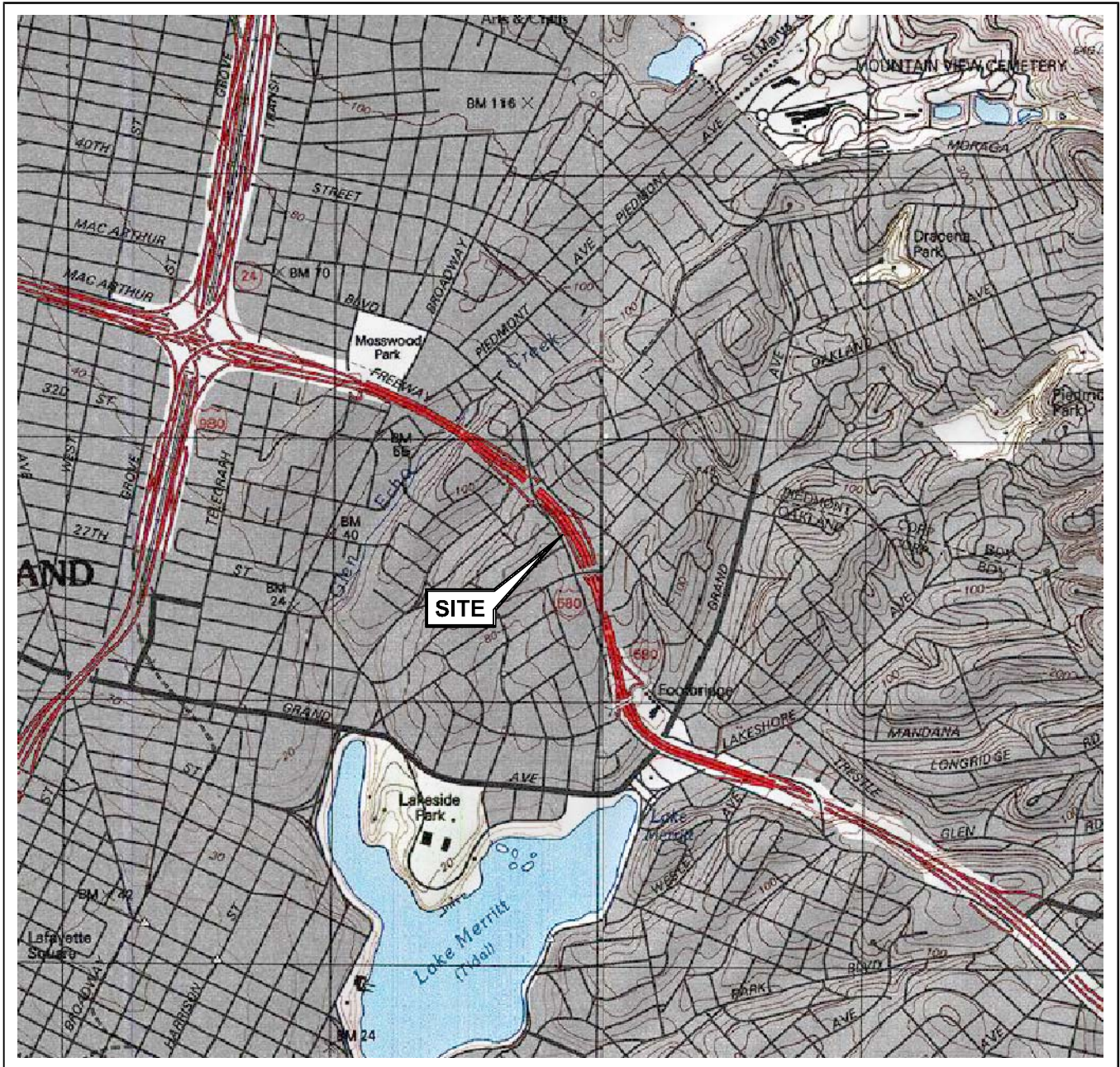
Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

| Date Sampled | Post-purge ORP (mV) |
|-----------------|---------------------------|
|-----------------|---------------------------|

MW-11 continued

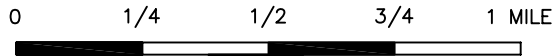
| | |
|------------|-----|
| 6/29/2007 | 223 |
| 9/28/2007 | 244 |
| 12/17/2007 | 46 |
| 3/25/2008 | 44 |
| 12/30/2008 | 195 |
| 3/24/2009 | 190 |
| 6/23/2009 | 67 |
| 12/16/2009 | 160 |
| 4/14/2010 | 143 |
| 10/13/2010 | 133 |

FIGURES



SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Oakland Quadrangle



SCALE 1:24,000



QUADRANGLE
LOCATION







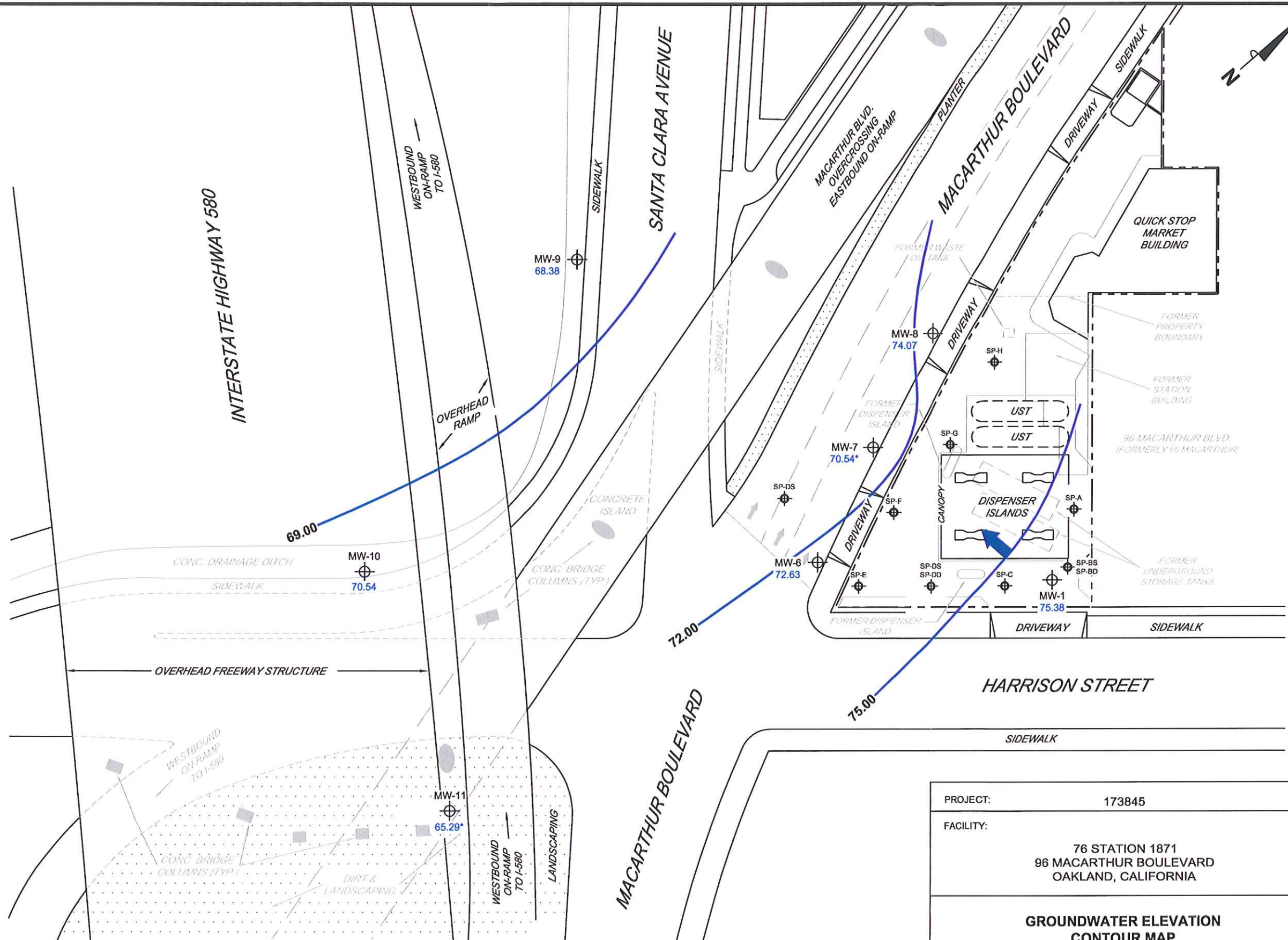
76 STATION 1871
96 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

VICINITY MAP

FIGURE 1

LEGEND

- MW-11  Monitoring Well with Groundwater Elevation (feet)
- SP-H  Ozone Sparge Well
- 75.00  Groundwater Elevation Contour
-  General Direction of Groundwater Flow




MS-1:40 1871-003 L:\Graphics\QMS NORTH-SOUTH\10001871-11871-QMS.DWG Nov 02, 2010 - 1:58pm bschmidt



NOTES:

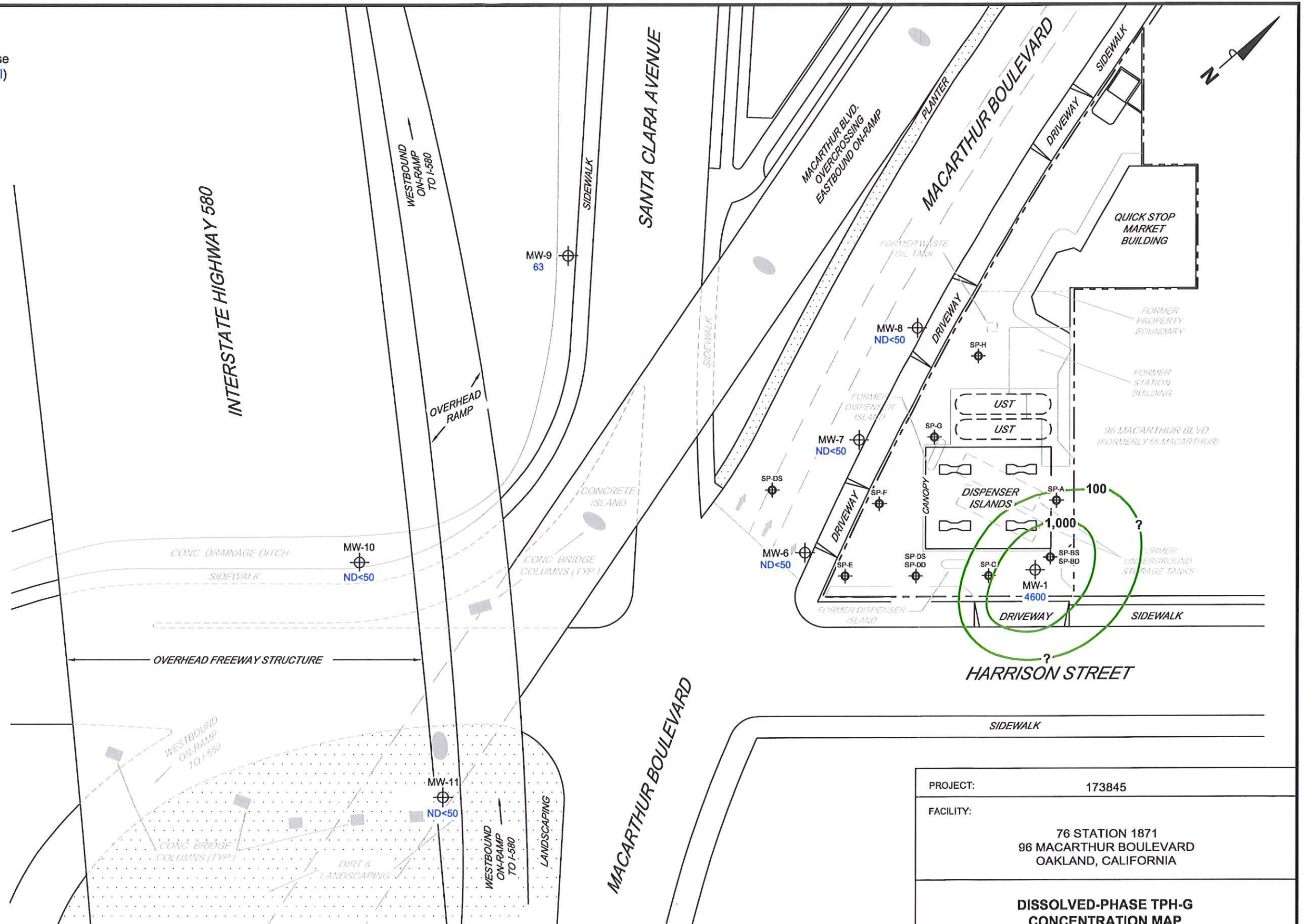
Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. * = not included in groundwater contour interpretation.
 UST = underground storage tank.



| | |
|---|--|
| PROJECT: | 173845 |
| FACILITY: | 76 STATION 1871 96 MACARTHUR BOULEVARD OAKLAND, CALIFORNIA |
| GROUNDWATER ELEVATION CONTOUR MAP October 13, 2010 | |
|  | FIGURE 2 |

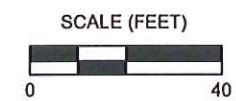
LEGEND


- MW-11  Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration ($\mu\text{g/l}$)
- SP-H  Ozone Sparge Well
-  1,000 Dissolved-Phase TPH-G Contour ($\mu\text{g/l}$)






NOTES:

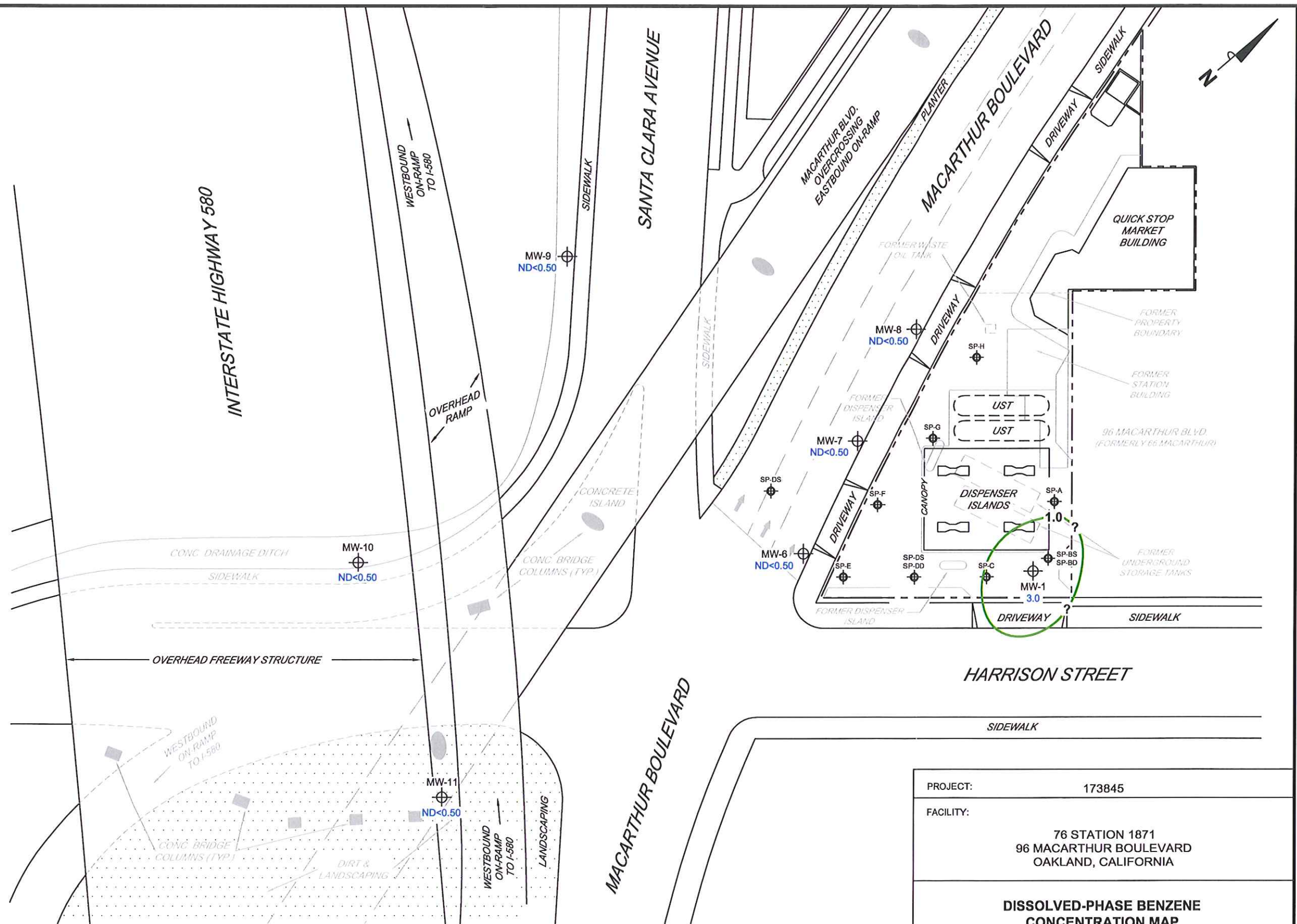
Contour lines are interpretive and based on laboratory analysis results of groundwater samples.
 TPH-G (GC/MS) = total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B.
 $\mu\text{g/l}$ = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
 UST = underground storage tank.



| | |
|---|--|
| PROJECT: | 173845 |
| FACILITY: | 76 STATION 1871 96 MACARTHUR BOULEVARD OAKLAND, CALIFORNIA |
| DISSOLVED-PHASE TPH-G CONCENTRATION MAP October 13, 2010 | |
|  | FIGURE 3 |

LEGEND

- MW-11  Monitoring Well with Dissolved-Phase Benzene Concentration ($\mu\text{g/l}$)
- SP-H  Ozone Sparge Well
- 1.0  Dissolved-Phase Benzene Contour ($\mu\text{g/l}$)



MS=1:40 1871-003 L:\Graphics\QMS NORTH-SOUTH\1871-003\1871-QMS.DWG Nov 02, 2010 - 2:08pm bschmidt

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.
 $\mu\text{g/l}$ = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
 UST = underground storage tank.

SCALE (FEET)






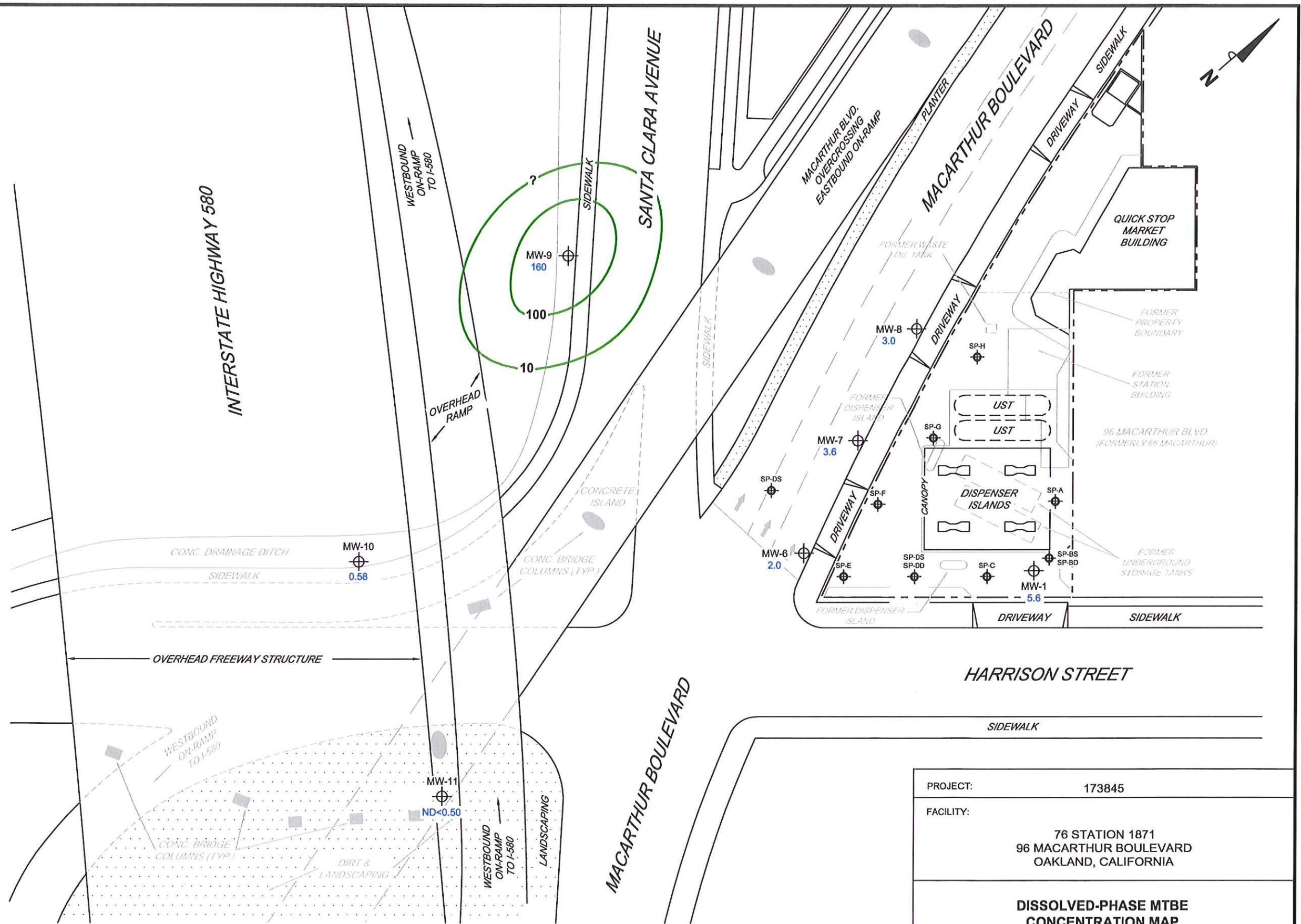
| | |
|--|--|
| PROJECT: | 173845 |
| FACILITY: | 76 STATION 1871 96 MACARTHUR BOULEVARD OAKLAND, CALIFORNIA |
| DISSOLVED-PHASE BENZENE CONCENTRATION MAP October 13, 2010 | |



FIGURE 4

LEGEND

- MW-11  Monitoring Well with Dissolved-Phase MTBE Concentration ($\mu\text{g/l}$)
- SP-H  Ozone Sparge Well
-  100 Dissolved-Phase MTBE Contour ($\mu\text{g/l}$)



MS-1-40 1871-003 L:\Graphics\GMS NORTH-SOUTH\1x-1000\1871-1871-CMS.DWG Nov 02, 2010 - 2:42pm bschmidt

NOTES:

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



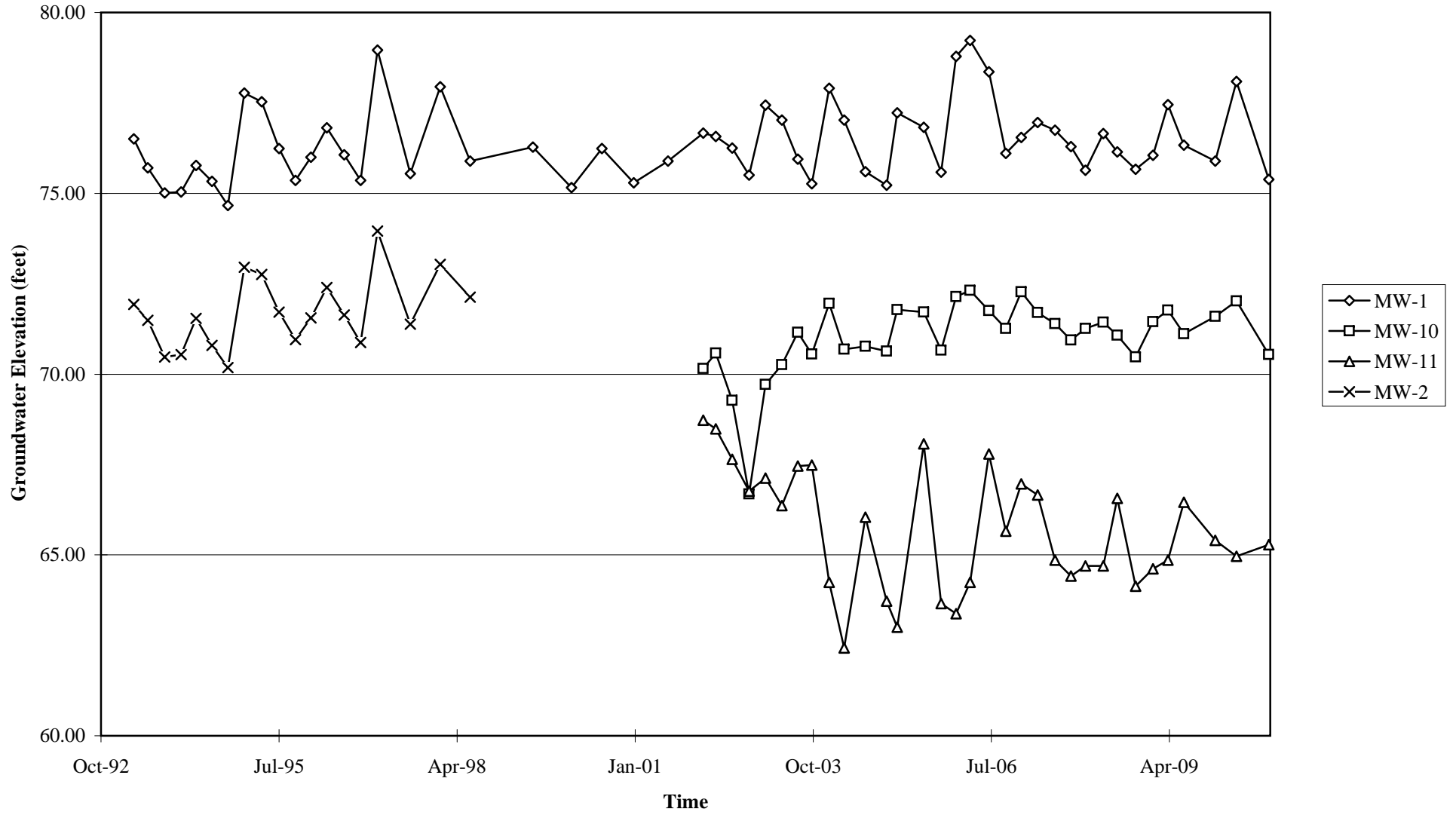
| | |
|--|--|
| PROJECT: | 173845 |
| FACILITY: | 76 STATION 1871 96 MACARTHUR BOULEVARD OAKLAND, CALIFORNIA |
| DISSOLVED-PHASE MTBE CONCENTRATION MAP October 13, 2010 | |



FIGURE 5

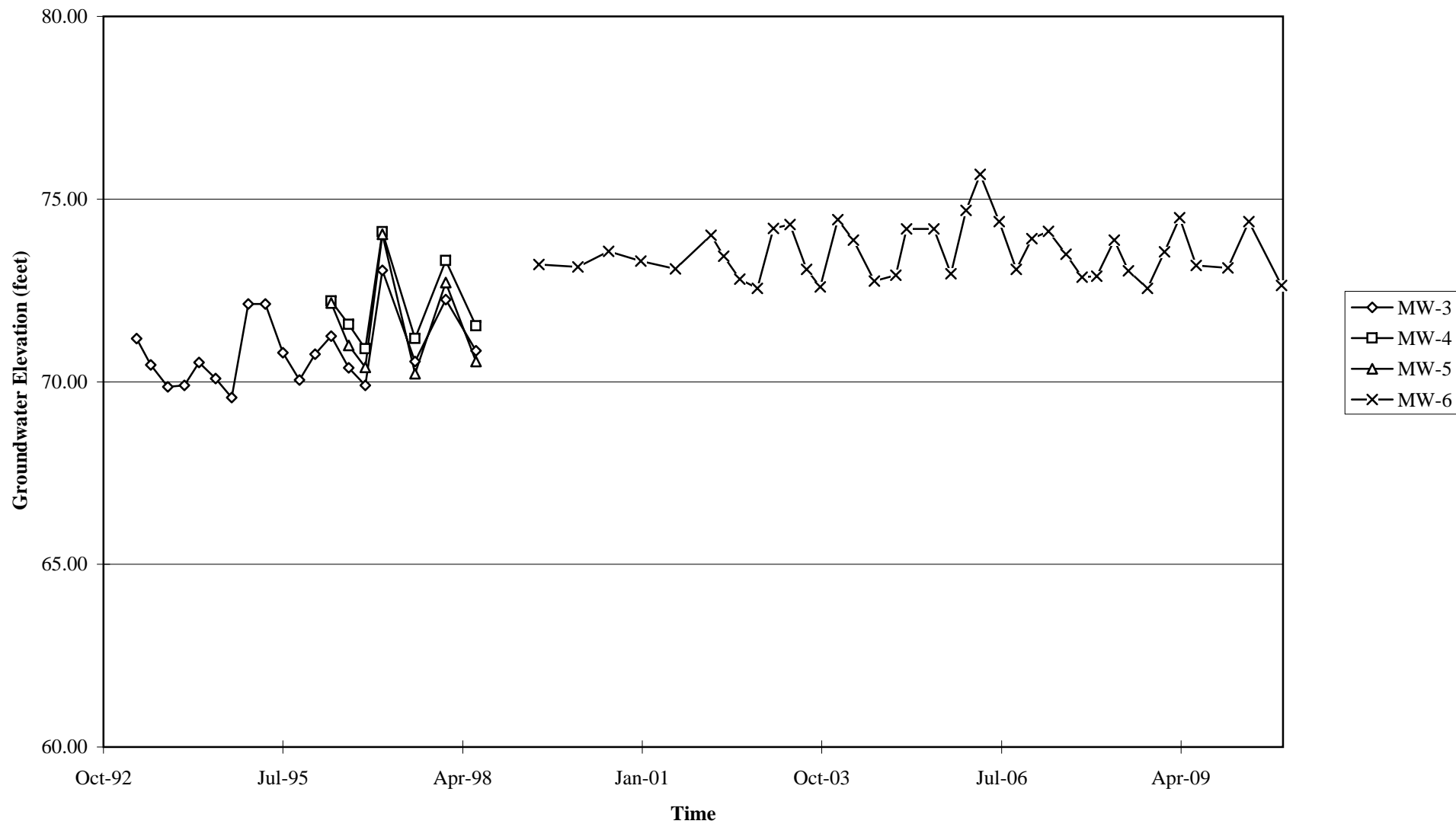
GRAPHS

Groundwater Elevations vs. Time
76 Station 1871



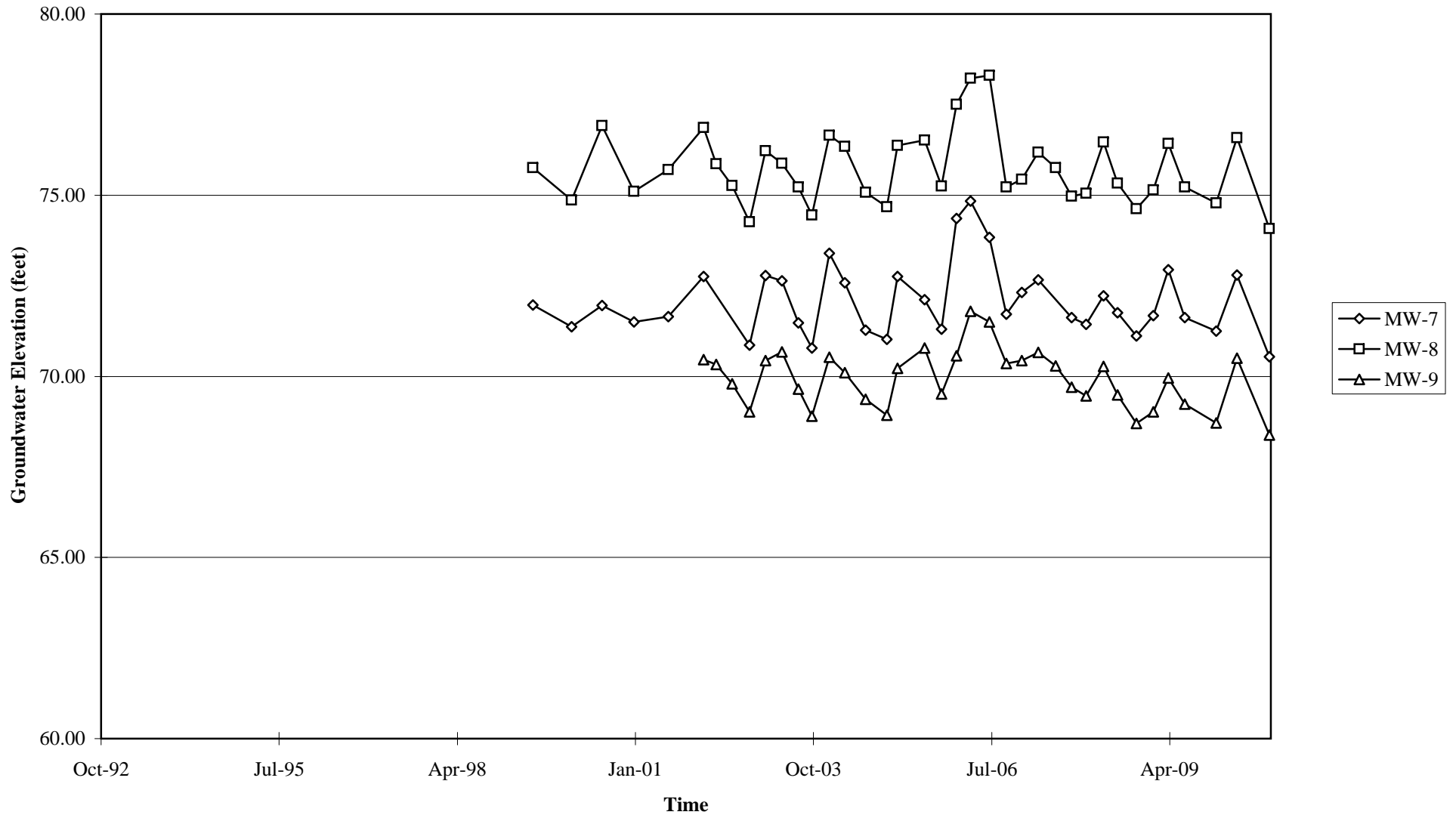
Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time 76 Station 1871



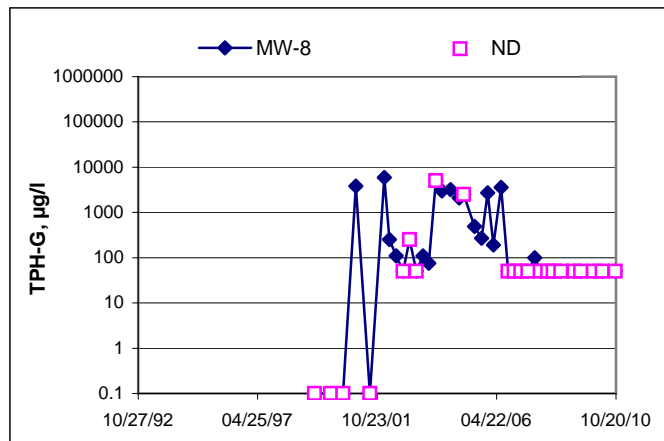
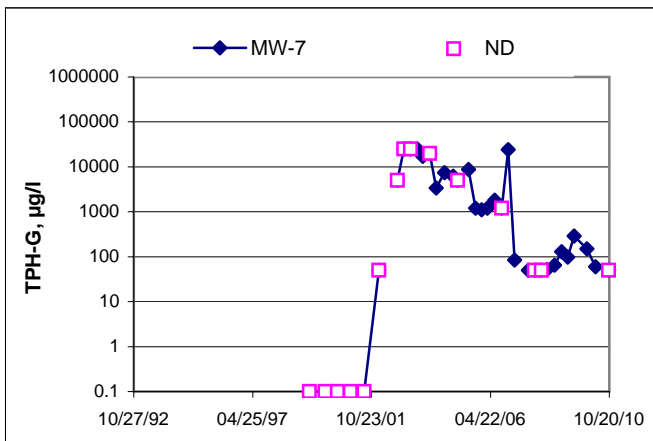
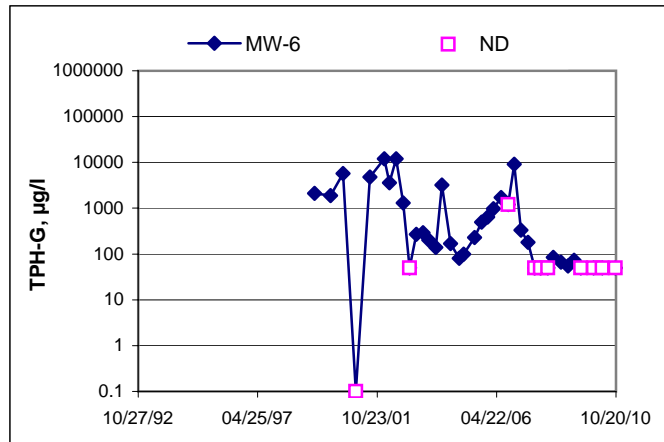
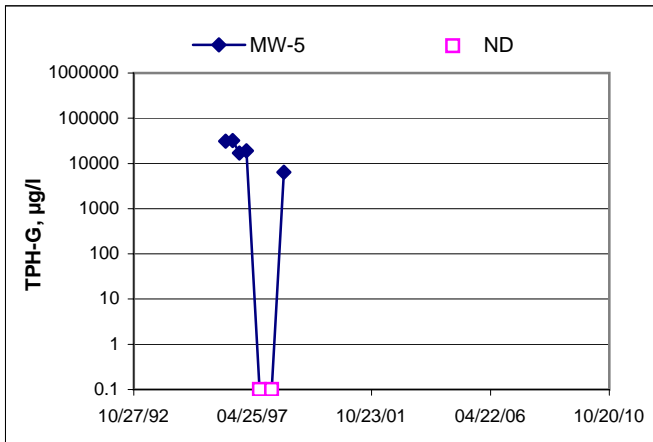
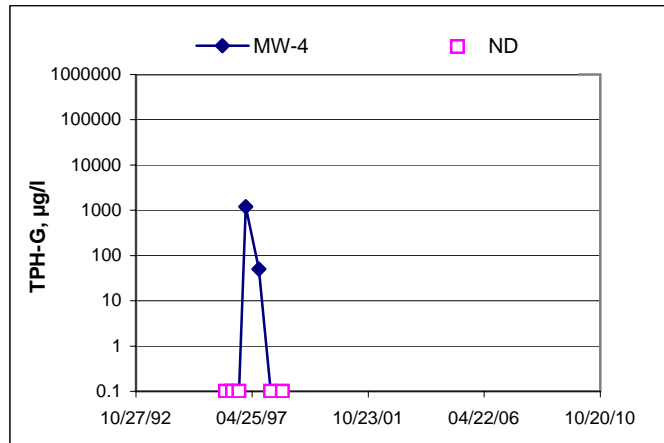
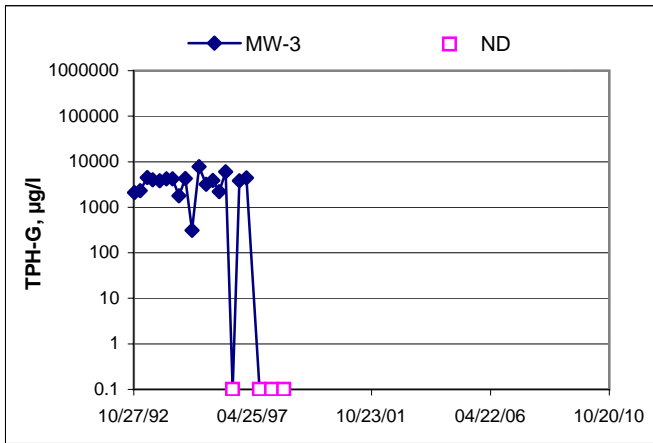
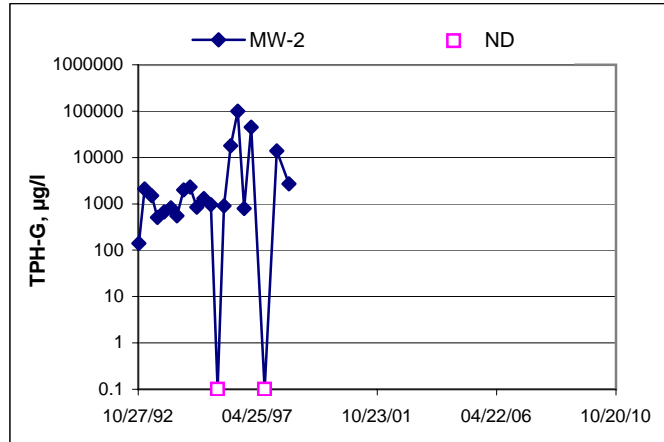
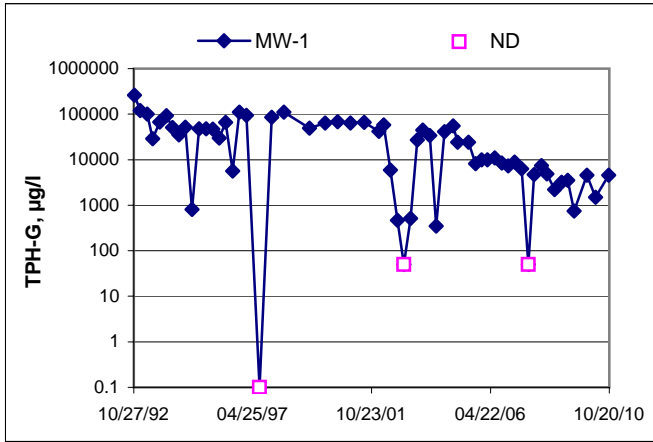
Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time
76 Station 1871

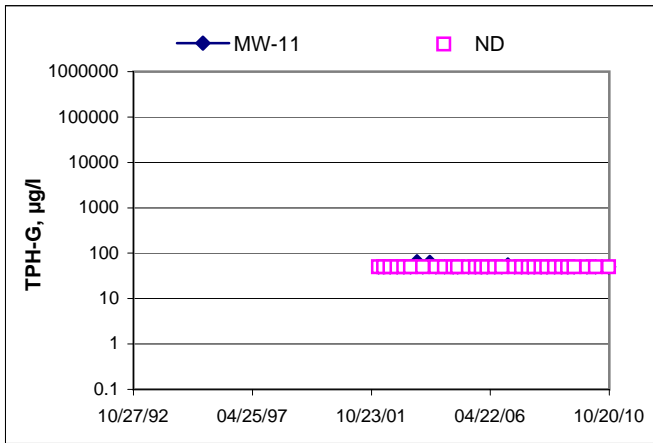
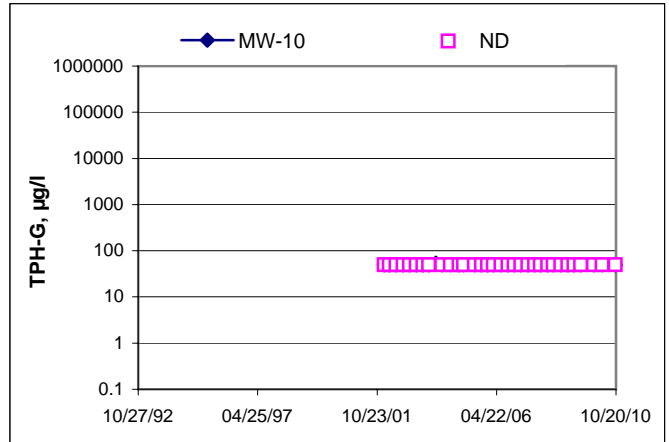
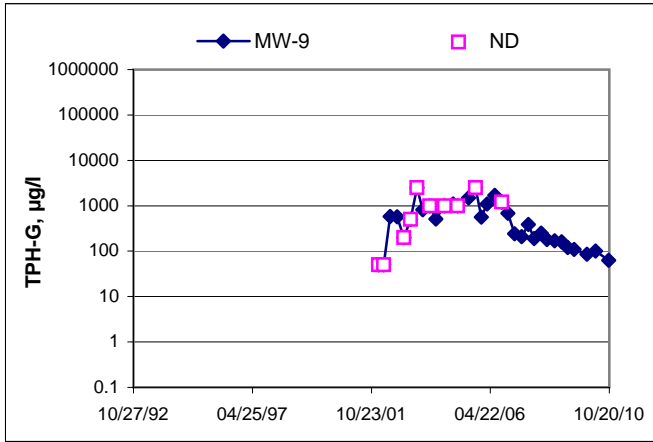


Elevations may have been corrected for apparent changes due to resurvey

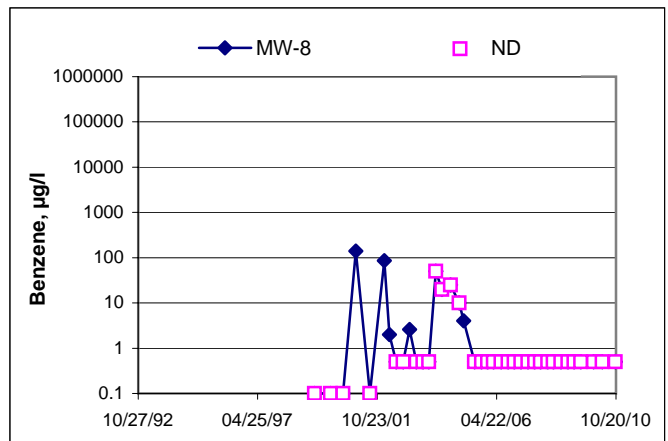
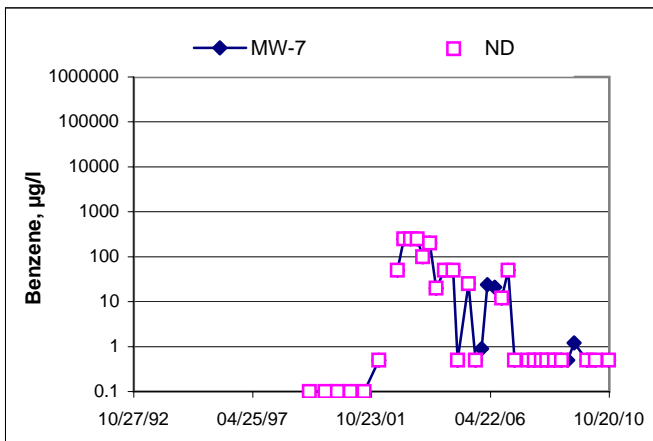
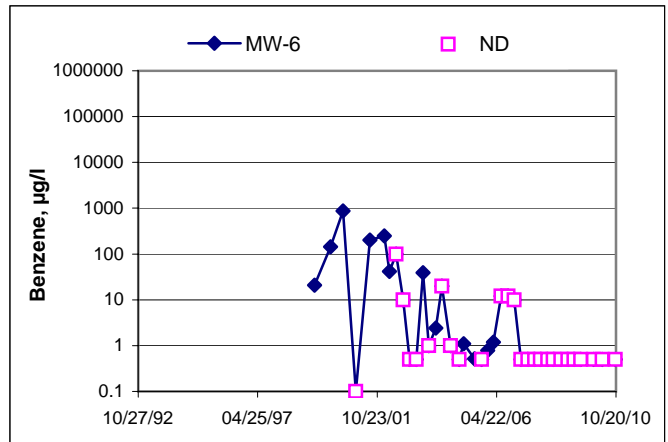
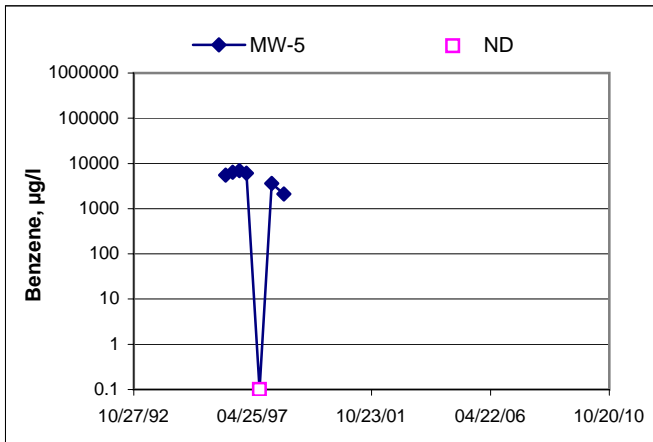
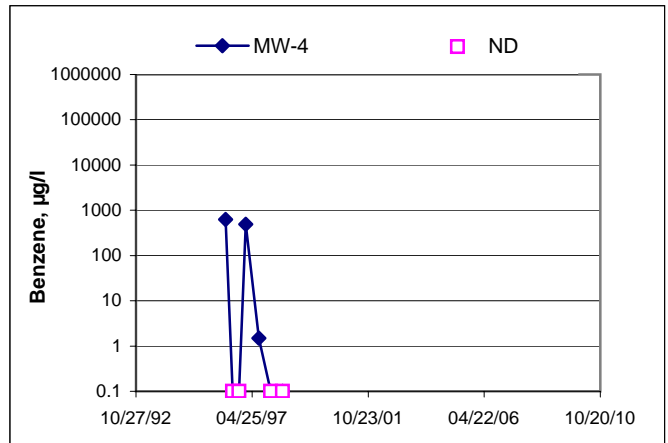
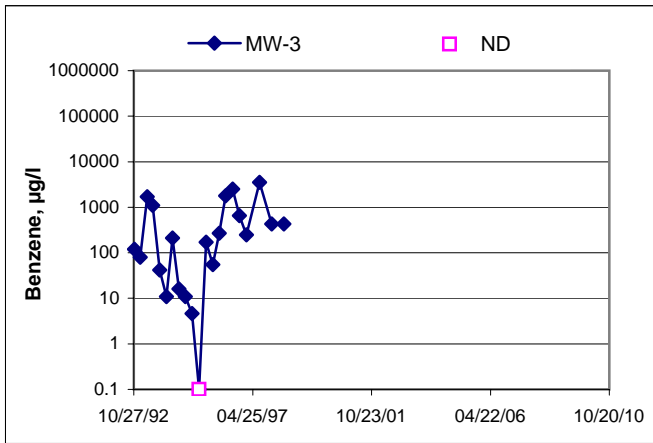
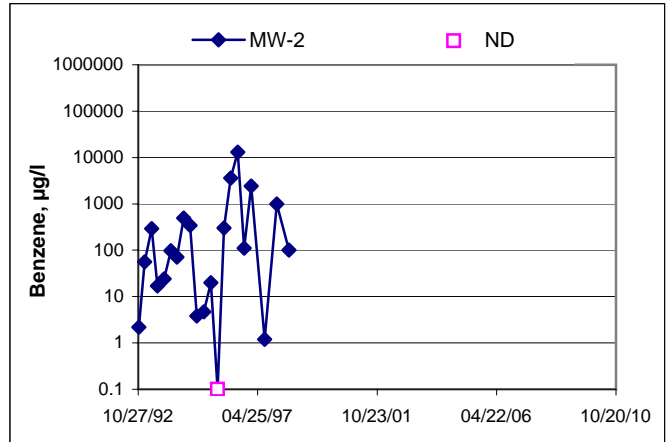
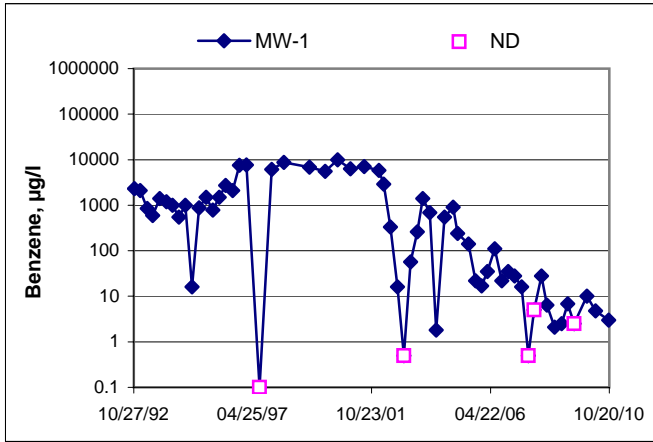
TPH-G Concentrations vs Time
76 Station 1871



TPH-G Concentrations vs Time
76 Station 1871

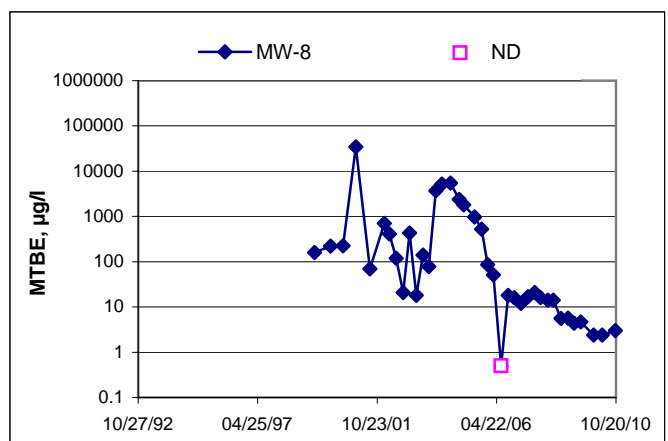
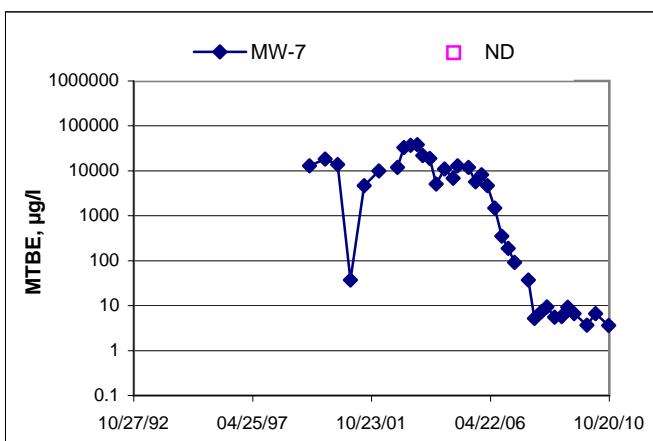
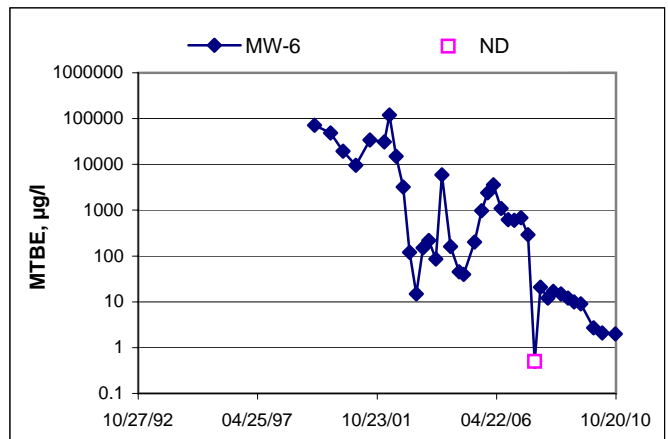
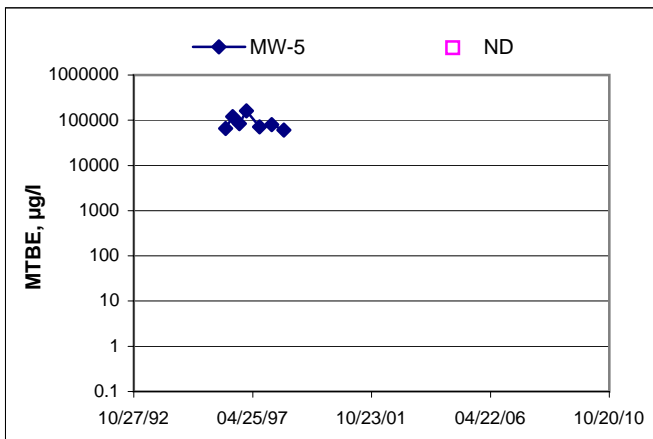
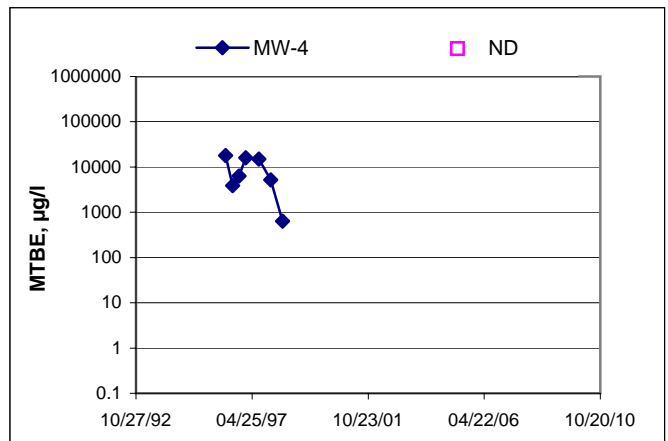
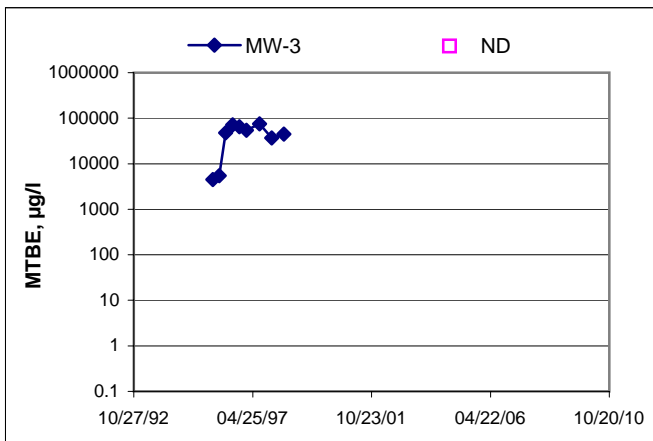
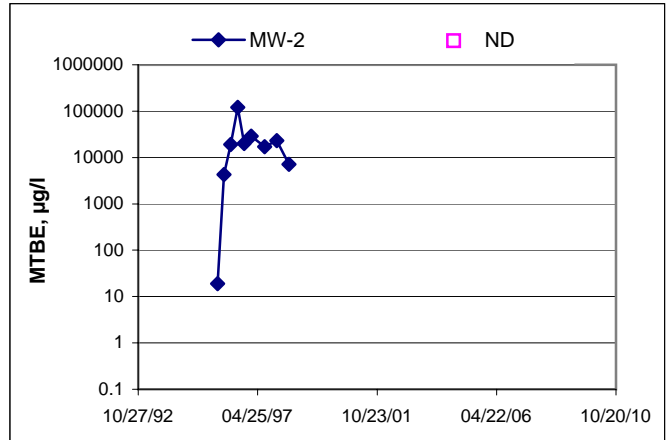
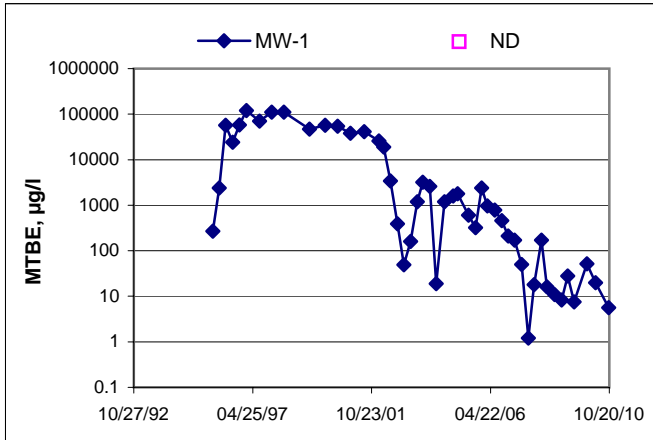


Benzene Concentrations vs Time 76 Station 1871

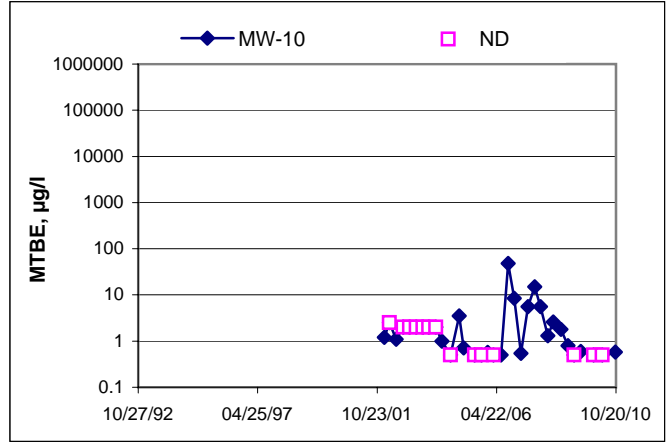
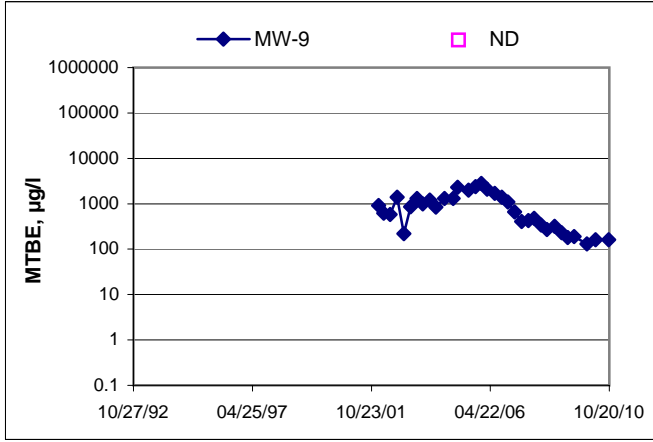


MTBE Concentrations vs Time

76 Station 1871



MTBE Concentrations vs Time 76 Station 1871



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 is 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 a particular well, 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: JOE

Site: 1871

Project No.: 173845

Date: 10/13/10

Well No. MW-10

Purge Method: DTA

Depth to Water (feet): 7.64

Depth to Product (feet):

Total Depth (feet): 19.95

LPH & Water Recovered (gallons):

Water Column (feet): 12.31

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 10.10

1 Well Volume (gallons): 3

| Time Start | Time Stop | Depth to Water (feet) | Volume Purged (gallons) | Conductivity (µS/cm) | Temperature (F, C) | pH | D.O. (mg/L) | ORP | Turbidity |
|---|-----------------|-----------------------|-------------------------|----------------------|--------------------|-------------|-------------|-----|-----------|
| Pre-Purge | | | | | | | | | |
| 0655 | | | 3 | 497.3 | 17.6 | 7.70 | 5.60 | 147 | |
| | 0658 | | 6 | 480.4 | 16.9 | 7.62 | 6.67 | 147 | |
| | 0701 | | 9 | — | — | — | — | — | |
| | | | | | | | | | |
| Static at Time Sampled | | | Total Gallons Purged | | | Sample Time | | | |
| 15.63 | | | 6 | | | 0915 | | | |
| Comments: <u>DRY AT 6 Gals. Did NOT recharge IN 2 HRS</u> | | | | | | | | | |

Well No. MW-11

Purge Method: DTA

Depth to Water (feet): 15.15

Depth to Product (feet):

Total Depth (feet): 30.03

LPH & Water Recovered (gallons):

Water Column (feet): 14.88

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 18.12

1 Well Volume (gallons): 3

| Time Start | Time Stop | Depth to Water (feet) | Volume Purged (gallons) | Conductivity (µS/cm) | Temperature (F, C) | pH | D.O. (mg/L) | ORP | Turbidity |
|---|-----------|-----------------------|-------------------------|----------------------|--------------------|-------------|-------------|-----|-----------|
| Pre-Purge | | | | | | | | | |
| 0714 | | | 3 | 2990 | 16.8 | 7.51 | 2.66 | 133 | |
| | | | 6 | 3125 | 16.7 | 7.01 | 1.75 | 135 | |
| | 0720 | | 9 | 3133 | 16.6 | 7.22 | 2.24 | 133 | |
| | | | | | | | | | |
| Static at Time Sampled | | | Total Gallons Purged | | | Sample Time | | | |
| 21.34 | | | 9 | | | 0922 | | | |
| Comments: <u>DRY AT 9 Gals. Did NOT recharge IN 2 HRS</u> | | | | | | | | | |

GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: 1871

Project No.: 173845

Date: 10/13/10

Well No. MW-6

Purge Method: DIA

Depth to Water (feet): 9.88

Depth to Product (feet): _____

Total Depth (feet) 24.38

LPH & Water Recovered (gallons): _____

Water Column (feet): 14.50

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 12.78

1 Well Volume (gallons): 3

| Time Start | Time Stop | Depth to Water (feet) | Volume Purged (gallons) | Conductivity (µS/cm) | Temperature (F, C) | pH | D.O. (mg/L) | ORP | Turbidity |
|--------------------------------|-----------|-----------------------|-------------------------|----------------------|--------------------|-------------|-------------|-----|-----------|
| Pre-Purge | | | | | | | | | |
| 0732 | | | 3 | 721.3 | 19.3 | 7.91 | 2.10 | 123 | |
| | | | 6 | 651.5 | 19.4 | 7.48 | 4.61 | 129 | |
| | 0736 | | 9 | 638.1 | 19.6 | 7.60 | 6.40 | 129 | |
| Static at Time Sampled | | | Total Gallons Purged | | | Sample Time | | | |
| 11.13 | | | 9 | | | 0939 | | | |
| Comments: <u>Dry AT 9 Gall</u> | | | | | | | | | |

Well No. MW-8

Purge Method: DIA

Depth to Water (feet): 10.79

Depth to Product (feet): _____

Total Depth (feet) 24.53

LPH & Water Recovered (gallons): _____

Water Column (feet): 13.74

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 13.53

1 Well Volume (gallons): 3

| Time Start | Time Stop | Depth to Water (feet) | Volume Purged (gallons) | Conductivity (µS/cm) | Temperature (F, C) | pH | D.O. (mg/L) | ORP | Turbidity |
|--------------------------------|-----------|-----------------------|-------------------------|----------------------|--------------------|-------------|-------------|-----|-----------|
| Pre-Purge | | | | | | | | | |
| 0811 | | | 3 | 491.7 | 18.8 | 7.86 | 0.97 | 98 | |
| | | | 6 | 467.1 | 19.6 | 7.42 | 0.89 | 95 | |
| | 0813 | | 9 | 452.2 | 19.2 | 7.39 | 0.70 | 92 | |
| Static at Time Sampled | | | Total Gallons Purged | | | Sample Time | | | |
| 10.82 | | | 9 | | | 10.82 | | | |
| Comments: <u>Dry AT 9 Gall</u> | | | | | | | | | |

GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: 1871

Project No.: 173845

Date: 10/13/10

Well No. MW-7

Purge Method: DTA

Depth to Water (feet): 10.13

Depth to Product (feet):

Total Depth (feet): 24.55

LPH & Water Recovered (gallons):

Water Column (feet): 14.42

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 13.01

1 Well Volume (gallons): 3

| Time Start | Time Stop | Depth to Water (feet) | Volume Purged (gallons) | Conductivity (µS/cm) | Temperature (F.°C) | pH | D.O. (mg/L) | ORP | Turbidity |
|--------------------------------|-----------|-----------------------|-------------------------|----------------------|--------------------|-------------|-------------|-----|-----------|
| Pre-Purge | | | | | | | | | |
| 0824 | | | 3 | 517.8 | 18.9 | 7.61 | 0.80 | 75 | |
| | | | 6 | 524.0 | 19.2 | 7.39 | 1.06 | 52 | |
| | 0826 | | 9 | 531.7 | 19.3 | 7.42 | 6.50 | 44 | |
| Static at Time Sampled | | | Total Gallons Purged | | | Sample Time | | | |
| <u>10.51</u> | | | <u>9</u> | | | <u>0955</u> | | | |
| Comments: <u>DRY AT 9 GALS</u> | | | | | | | | | |

Well No. MW-9

Purge Method: HB

Depth to Water (feet): 16.80

Depth to Product (feet):

Total Depth (feet): 19.82

LPH & Water Recovered (gallons):

Water Column (feet): 3.02

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 17.40

1 Well Volume (gallons): 1

| Time Start | Time Stop | Depth to Water (feet) | Volume Purged (gallons) | Conductivity (µS/cm) | Temperature (F.°C) | pH | D.O. (mg/L) | ORP | Turbidity |
|--|-----------|-----------------------|-------------------------|----------------------|--------------------|-------------|-------------|-----|-----------|
| Pre-Purge | | | | | | | | | |
| 0751 | | | 1 | 485.5 | 16.9 | 7.90 | 0.90 | 117 | |
| | | | 2 | 485.6 | 17.1 | 7.64 | 1.08 | 114 | |
| | 0758 | | 3 | — | — | — | — | — | |
| Static at Time Sampled | | | Total Gallons Purged | | | Sample Time | | | |
| <u>16.85</u> | | | <u>2</u> | | | <u>1003</u> | | | |
| Comments: <u>DRY AT 2 GALS. Did NOT recharge IN 45 mins.</u> | | | | | | | | | |

GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: 1871

Project No.: 173845

Date: 10/13/18

Well No. MW-1

Purge Method: DIA

Depth to Water (feet): 14.83

Depth to Product (feet): _____

Total Depth (feet): 24.05

LPH & Water Recovered (gallons): _____

Water Column (feet): 9.22

Casing Diameter (Inches): 2 + 4"

80% Recharge Depth(feet): 16.67

1 Well Volume (gallons): 7

| Time Start | Time Stop | Depth to Water (feet) | Volume Purged (gallons) | Conductivity (µS/cm) | Temperature (F, C) | pH | D.O. (mg/L) | ORP | Turbidity |
|--|-------------|-----------------------|-------------------------|----------------------|--------------------|-------------|-------------|------------|-----------|
| Pre-Purge | | | | | | | | | |
| <u>0839</u> | | | <u>7</u> | <u>342.0</u> | <u>19.5</u> | <u>7.96</u> | <u>0.96</u> | <u>-57</u> | |
| | <u>0842</u> | | <u>14</u> | <u>587.4</u> | <u>19.7</u> | <u>7.39</u> | <u>2.</u> | <u>-48</u> | |
| | | | <u>21</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | |
| Static at Time Sampled | | | Total Gallons Purged | | Sample Time | | | | |
| <u>19.08</u> | | | <u>14</u> | | <u>1043</u> | | | | |
| Comments: <u>DRY AT 14 GALS</u> | | | | | | | | | |

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) | Conductivity (µS/cm) | Temperature (F, C) | pH | D.O. (mg/L) | ORP | Turbidity |
|------------------------|-----------|-----------------------|-------------------------|----------------------|--------------------|----|-------------|-----|-----------|
| Pre-Purge | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Static at Time Sampled | | | Total Gallons Purged | | Sample Time | | | | |
| | | | | | | | | | |
| Comments: | | | | | | | | | |



Date of Report: 10/28/2010

Anju Farfan

TRC

123 Technology Drive
Irvine, CA 92618

RE: 1871
BC Work Order: 1014623
Invoice ID: B089097

Enclosed are the results of analyses for samples received by the laboratory on 10/18/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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BC LABORATORIES, INC.

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

CHAIN OF CUSTODY

Analysis Requested

10-14623

| | | | | | | |
|--------------------------------|--------------------|---|---------------------|---|--|---------------------------|
| Bill to: Conoco Phillips/ TRC | | Consultant Firm: TRC | | MATRIX <input checked="" type="checkbox"/> (GW) <input type="checkbox"/> Ground-water (S) <input type="checkbox"/> Soil (WW) <input type="checkbox"/> Waste-water (SL) <input type="checkbox"/> Sludge | BTEx/MTBE by 8021B, Gas by 8015 TPH GAS by 8015M TPH DIESEL by 8015 8260 full list w/ oxygenates BTEx/MTBE/OXYS BY 8260B ETHANOL by 8260B TPH - G by GC/MS BTEx/MTBE/TBA by 8260B EDB/EDC by 8260B | Turnaround Time Requested |
| Address: 96 MacArthur Blvd | | 21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan | | | | |
| City: oakland | | 4-digit site#: 1871 | | | | |
| State: CA Zip: | | Workorder # 01120-4512968395 | | | | |
| Conoco Phillips Mgr Bill Borgh | | Project #: 173845 | | | | |
| Lab# | Sample Description | Field Point Name | Date & Time Sampled | BOTTLES | | |
| -1 | | MW-10 | 10/13/10 0915 | 3 | | STD |
| -2 | | MW-11 | 0922 | | | |
| -3 | | MW-6 | 0939 | | | |
| -4 | | MW-8 | 0945 | | | |
| -5 | | MW-7 | 0955 | | | |
| -6 | | MW-9 | 1003 | | | |
| -7 | | MW-1 | 1043 | | | |

| | | | |
|---|--|------------------------------------|------------------------------|
| Comments: GLOBAL ID: T0600101493 | Relinquished by: (Signature) <i>Greg D. Lewis</i> | Received by: <i>Russ Wick</i> | Date & Time 10/13/10 1300 |
| | Relinquished by: (Signature) <i>Russ Wick 10-18-10</i> | Received by: <i>Russ Wick</i> | Date & Time 10-18-10 1750 |
| | Relinquished by: (Signature) <i>Russ Wick 10-18-10 2110</i> | Received by: <i>[Signature]</i> | Date & Time 10-18-10 2110 |

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. 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com



BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 10-14623

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
 Emissivity: 0.98 Container: 1004 Thermometer ID: #103
 Temperature: A 2.2 °C / C 2.2 °C
 Date/Time: 10/18/10 0940
 Analyst Init: S

| 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 | | | | | | | | | | |
| 202 NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT TOX | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PH4 PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | A.3 | A.3 | A.3 | A.3 | A.3 | A.3 | A.3 | | | |
| QT EPA 413.1, 413.2, 413.3 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 505/608/8080 | | | | | | | | | | |
| 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 AMBER | | | | | | | | | | |
| 8 OZ. JAR | | | | | | | | | | |
| 31 OZ. JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |

CHK BY: [Signature]
 DISTRIBUTION:
 SUB-CUT []

Comments: _____
 Sample Numbering Completed By: JMW Date/Time: 10/18/10 0012
 A = Actual / C = Corrected



TRC
123 Technology Drive
Irvine, CA 92618

Reported: 10/28/2010 10:18
Project: 1871
Project Number: 4512968395
Project Manager: Anju Farfan

Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information |
|------------|---------------------------|
|------------|---------------------------|

| | | |
|-------------------|---|---|
| 1014623-01 | COC Number: --- Project Number: 1871 Sampling Location: --- Sampling Point: MW-10 Sampled By: TRCI | Receive Date: 10/18/2010 21:10 Sampling Date: 10/13/2010 09:15 Sample Depth: --- Sample Matrix: Water Delivery Work Order: Global ID: T0600101493 Location ID (FieldPoint): MW-10 Matrix: W Sample QC Type (SACode): CS Cooler ID: |
|-------------------|---|---|

| | | |
|-------------------|---|---|
| 1014623-02 | COC Number: --- Project Number: 1871 Sampling Location: --- Sampling Point: MW-11 Sampled By: TRCI | Receive Date: 10/18/2010 21:10 Sampling Date: 10/13/2010 09:22 Sample Depth: --- Sample Matrix: Water Delivery Work Order: Global ID: T0600101493 Location ID (FieldPoint): MW-11 Matrix: W Sample QC Type (SACode): CS Cooler ID: |
|-------------------|---|---|

| | | |
|-------------------|--|--|
| 1014623-03 | COC Number: --- Project Number: 1871 Sampling Location: --- Sampling Point: MW-6 Sampled By: TRCI | Receive Date: 10/18/2010 21:10 Sampling Date: 10/13/2010 09:39 Sample Depth: --- Sample Matrix: Water Delivery Work Order: Global ID: T0600101493 Location ID (FieldPoint): MW-6 Matrix: W Sample QC Type (SACode): CS Cooler ID: |
|-------------------|--|--|

| | | |
|-------------------|--|--|
| 1014623-04 | COC Number: --- Project Number: 1871 Sampling Location: --- Sampling Point: MW-8 Sampled By: TRCI | Receive Date: 10/18/2010 21:10 Sampling Date: 10/13/2010 09:45 Sample Depth: --- Sample Matrix: Water Delivery Work Order: Global ID: T0600101493 Location ID (FieldPoint): MW-8 Matrix: W Sample QC Type (SACode): CS Cooler ID: |
|-------------------|--|--|



TRC
123 Technology Drive
Irvine, CA 92618

Reported: 10/28/2010 10:18
Project: 1871
Project Number: 4512968395
Project Manager: Anju Farfan

Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information |
|------------|---------------------------|
|------------|---------------------------|

| | | |
|-------------------|--|--|
| 1014623-05 | COC Number: --- Project Number: 1871 Sampling Location: --- Sampling Point: MW-7 Sampled By: TRCI | Receive Date: 10/18/2010 21:10 Sampling Date: 10/13/2010 09:55 Sample Depth: --- Sample Matrix: Water Delivery Work Order: Global ID: T0600101493 Location ID (FieldPoint): MW-7 Matrix: W Sample QC Type (SACode): CS Cooler ID: |
|-------------------|--|--|

| | | |
|-------------------|--|--|
| 1014623-06 | COC Number: --- Project Number: 1871 Sampling Location: --- Sampling Point: MW-9 Sampled By: TRCI | Receive Date: 10/18/2010 21:10 Sampling Date: 10/13/2010 10:03 Sample Depth: --- Sample Matrix: Water Delivery Work Order: Global ID: T0600101493 Location ID (FieldPoint): MW-9 Matrix: W Sample QC Type (SACode): CS Cooler ID: |
|-------------------|--|--|

| | | |
|-------------------|--|--|
| 1014623-07 | COC Number: --- Project Number: 1871 Sampling Location: --- Sampling Point: MW-1 Sampled By: TRCI | Receive Date: 10/18/2010 21:10 Sampling Date: 10/13/2010 10:43 Sample Depth: --- Sample Matrix: Water Delivery Work Order: Global ID: T0600101493 Location ID (FieldPoint): MW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID: |
|-------------------|--|--|



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Irvine, CA 92618

Reported: 10/28/2010 10:18
Project: 1871
Project Number: 4512968395
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

| | |
|----------------------------------|--|
| BCL Sample ID: 1014623-01 | Client Sample Name: 1871, MW-10, 10/13/2010 9:15:00AM |
|----------------------------------|--|

| Constituent | Result | Units | PQL | Method | MB Bias | Lab Quals | Run # |
|--|-------------|-------------|----------------------|-----------------|-----------|-----------|----------|
| Benzene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| 1,2-Dibromoethane | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Ethylbenzene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Methyl t-butyl ether | 0.58 | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Toluene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Total Xylenes | ND | ug/L | 1.0 | EPA-8260 | ND | | 1 |
| t-Butyl alcohol | ND | ug/L | 10 | EPA-8260 | ND | | 1 |
| Ethanol | ND | ug/L | 250 | EPA-8260 | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | ug/L | 50 | Luft-GC/MS | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 111 | % | 76 - 114 (LCL - UCL) | EPA-8260 | | | 1 |
| Toluene-d8 (Surrogate) | 102 | % | 88 - 110 (LCL - UCL) | EPA-8260 | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 101 | % | 86 - 115 (LCL - UCL) | EPA-8260 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260 | 10/25/10 | 10/26/10 10:43 | MGC | MS-V5 | 1 | BTJ1647 |



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Volatile Organic Analysis (EPA Method 8260)

| | |
|----------------------------------|--|
| BCL Sample ID: 1014623-02 | Client Sample Name: 1871, MW-11, 10/13/2010 9:22:00AM |
|----------------------------------|--|

| Constituent | Result | Units | PQL | Method | MB Bias | Lab Quals | Run # |
|--|--------|-------|----------------------|------------|---------|-----------|-------|
| Benzene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| 1,2-Dibromoethane | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Ethylbenzene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Methyl t-butyl ether | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Toluene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Total Xylenes | ND | ug/L | 1.0 | EPA-8260 | ND | | 1 |
| t-Butyl alcohol | ND | ug/L | 10 | EPA-8260 | ND | | 1 |
| Ethanol | ND | ug/L | 250 | EPA-8260 | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | ug/L | 50 | Luft-GC/MS | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 106 | % | 76 - 114 (LCL - UCL) | EPA-8260 | | | 1 |
| Toluene-d8 (Surrogate) | 100 | % | 88 - 110 (LCL - UCL) | EPA-8260 | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 97.7 | % | 86 - 115 (LCL - UCL) | EPA-8260 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260 | 10/25/10 | 10/26/10 11:10 | MGC | MS-V5 | 1 | BTJ1647 |



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Volatile Organic Analysis (EPA Method 8260)

| | |
|----------------------------------|---|
| BCL Sample ID: 1014623-03 | Client Sample Name: 1871, MW-6, 10/13/2010 9:39:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | Method | MB Bias | Lab Quals | Run # |
|--|------------|-------------|----------------------|-----------------|-----------|-----------|----------|
| Benzene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| 1,2-Dibromoethane | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Ethylbenzene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Methyl t-butyl ether | 2.0 | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Toluene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Total Xylenes | ND | ug/L | 1.0 | EPA-8260 | ND | | 1 |
| t-Butyl alcohol | ND | ug/L | 10 | EPA-8260 | ND | | 1 |
| Ethanol | ND | ug/L | 250 | EPA-8260 | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | ug/L | 50 | Luft-GC/MS | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 114 | % | 76 - 114 (LCL - UCL) | EPA-8260 | | | 1 |
| Toluene-d8 (Surrogate) | 99.9 | % | 88 - 110 (LCL - UCL) | EPA-8260 | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 103 | % | 86 - 115 (LCL - UCL) | EPA-8260 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260 | 10/25/10 | 10/26/10 11:37 | MGC | MS-V5 | 1 | BTJ1647 |



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Volatile Organic Analysis (EPA Method 8260)

| | |
|----------------------------------|---|
| BCL Sample ID: 1014623-04 | Client Sample Name: 1871, MW-8, 10/13/2010 9:45:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | Method | MB Bias | Lab Quals | Run # |
|--|------------|-------------|----------------------|-----------------|-----------|-----------|----------|
| Benzene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| 1,2-Dibromoethane | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Ethylbenzene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Methyl t-butyl ether | 3.0 | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Toluene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Total Xylenes | ND | ug/L | 1.0 | EPA-8260 | ND | | 1 |
| t-Butyl alcohol | ND | ug/L | 10 | EPA-8260 | ND | | 1 |
| Ethanol | ND | ug/L | 250 | EPA-8260 | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | ug/L | 50 | Luft-GC/MS | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 112 | % | 76 - 114 (LCL - UCL) | EPA-8260 | | | 1 |
| Toluene-d8 (Surrogate) | 99.8 | % | 88 - 110 (LCL - UCL) | EPA-8260 | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 102 | % | 86 - 115 (LCL - UCL) | EPA-8260 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260 | 10/25/10 | 10/26/10 12:04 | MGC | MS-V5 | 1 | BTJ1647 |



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Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

| | |
|----------------------------------|---|
| BCL Sample ID: 1014623-05 | Client Sample Name: 1871, MW-7, 10/13/2010 9:55:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | Method | MB Bias | Lab Quals | Run # |
|--|------------|-------------|----------------------|-----------------|-----------|-----------|----------|
| Benzene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| 1,2-Dibromoethane | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Ethylbenzene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Methyl t-butyl ether | 3.6 | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Toluene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Total Xylenes | ND | ug/L | 1.0 | EPA-8260 | ND | | 1 |
| t-Butyl alcohol | ND | ug/L | 10 | EPA-8260 | ND | | 1 |
| Ethanol | ND | ug/L | 250 | EPA-8260 | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | ND | ug/L | 50 | Luft-GC/MS | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 110 | % | 76 - 114 (LCL - UCL) | EPA-8260 | | | 1 |
| Toluene-d8 (Surrogate) | 102 | % | 88 - 110 (LCL - UCL) | EPA-8260 | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 101 | % | 86 - 115 (LCL - UCL) | EPA-8260 | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260 | 10/25/10 | 10/26/10 12:31 | MGC | MS-V5 | 1 | BTJ1647 |

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Volatile Organic Analysis (EPA Method 8260)

| | |
|----------------------------------|--|
| BCL Sample ID: 1014623-06 | Client Sample Name: 1871, MW-9, 10/13/2010 10:03:00AM |
|----------------------------------|--|

| Constituent | Result | Units | PQL | Method | MB Bias | Lab Quals | Run # |
|---|------------|-------------|----------------------|-------------------|-----------|------------|----------|
| Benzene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| 1,2-Dibromoethane | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Ethylbenzene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Methyl t-butyl ether | 160 | ug/L | 5.0 | EPA-8260 | ND | A01 | 2 |
| Toluene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Total Xylenes | ND | ug/L | 1.0 | EPA-8260 | ND | | 1 |
| t-Butyl alcohol | 11 | ug/L | 10 | EPA-8260 | ND | | 1 |
| Ethanol | ND | ug/L | 250 | EPA-8260 | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | 63 | ug/L | 50 | Luft-GC/MS | ND | A90 | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 113 | % | 76 - 114 (LCL - UCL) | EPA-8260 | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 100 | % | 76 - 114 (LCL - UCL) | EPA-8260 | | | 2 |
| Toluene-d8 (Surrogate) | 100 | % | 88 - 110 (LCL - UCL) | EPA-8260 | | | 1 |
| Toluene-d8 (Surrogate) | 100 | % | 88 - 110 (LCL - UCL) | EPA-8260 | | | 2 |
| 4-Bromofluorobenzene (Surrogate) | 100 | % | 86 - 115 (LCL - UCL) | EPA-8260 | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 99.0 | % | 86 - 115 (LCL - UCL) | EPA-8260 | | | 2 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260 | 10/25/10 | 10/26/10 12:58 | MGC | MS-V5 | 1 | BTJ1647 |
| 2 | EPA-8260 | 10/25/10 | 10/27/10 01:38 | MGC | MS-V5 | 10 | BTJ1647 |

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Reported: 10/28/2010 10:18
Project: 1871
Project Number: 4512968395
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

| | |
|----------------------------------|--|
| BCL Sample ID: 1014623-07 | Client Sample Name: 1871, MW-1, 10/13/2010 10:43:00AM |
|----------------------------------|--|

| Constituent | Result | Units | PQL | Method | MB Bias | Lab Quals | Run # |
|--|--------|-------|----------------------|------------|---------|-----------|-------|
| Benzene | 3.0 | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| 1,2-Dibromoethane | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Ethylbenzene | 180 | ug/L | 5.0 | EPA-8260 | ND | A01 | 2 |
| Methyl t-butyl ether | 5.6 | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Toluene | ND | ug/L | 0.50 | EPA-8260 | ND | | 1 |
| Total Xylenes | 73 | ug/L | 1.0 | EPA-8260 | ND | | 1 |
| t-Butyl alcohol | 73 | ug/L | 10 | EPA-8260 | ND | | 1 |
| Ethanol | ND | ug/L | 250 | EPA-8260 | ND | | 1 |
| Total Purgeable Petroleum Hydrocarbons | 4600 | ug/L | 500 | Luft-GC/MS | ND | A01 | 2 |
| 1,2-Dichloroethane-d4 (Surrogate) | 112 | % | 76 - 114 (LCL - UCL) | EPA-8260 | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 102 | % | 76 - 114 (LCL - UCL) | EPA-8260 | | | 2 |
| Toluene-d8 (Surrogate) | 104 | % | 88 - 110 (LCL - UCL) | EPA-8260 | | | 1 |
| Toluene-d8 (Surrogate) | 102 | % | 88 - 110 (LCL - UCL) | EPA-8260 | | | 2 |
| 4-Bromofluorobenzene (Surrogate) | 104 | % | 86 - 115 (LCL - UCL) | EPA-8260 | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 102 | % | 86 - 115 (LCL - UCL) | EPA-8260 | | | 2 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260 | 10/25/10 | 10/26/10 13:25 | MGC | MS-V5 | 1 | BTJ1647 |
| 2 | EPA-8260 | 10/25/10 | 10/27/10 02:05 | MGC | MS-V5 | 10 | BTJ1647 |

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Project: 1871
Project Number: 4512968395
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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|--|--------------|-----------|-------|----------------------|-----|-----------|
| QC Batch ID: BTJ1647 | | | | | | |
| Benzene | BTJ1647-BLK1 | ND | ug/L | 0.50 | | |
| 1,2-Dibromoethane | BTJ1647-BLK1 | ND | ug/L | 0.50 | | |
| 1,2-Dichloroethane | BTJ1647-BLK1 | ND | ug/L | 0.50 | | |
| Ethylbenzene | BTJ1647-BLK1 | ND | ug/L | 0.50 | | |
| Methyl t-butyl ether | BTJ1647-BLK1 | ND | ug/L | 0.50 | | |
| Toluene | BTJ1647-BLK1 | ND | ug/L | 0.50 | | |
| Total Xylenes | BTJ1647-BLK1 | ND | ug/L | 1.0 | | |
| t-Butyl alcohol | BTJ1647-BLK1 | ND | ug/L | 10 | | |
| Ethanol | BTJ1647-BLK1 | ND | ug/L | 250 | | |
| Total Purgeable Petroleum Hydrocarbons | BTJ1647-BLK1 | ND | ug/L | 50 | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BTJ1647-BLK1 | 104 | % | 76 - 114 (LCL - UCL) | | |
| Toluene-d8 (Surrogate) | BTJ1647-BLK1 | 99.9 | % | 88 - 110 (LCL - UCL) | | |
| 4-Bromofluorobenzene (Surrogate) | BTJ1647-BLK1 | 98.9 | % | 86 - 115 (LCL - UCL) | | |



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Reported: 10/28/2010 10:18
Project: 1871
Project Number: 4512968395
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab |
|-----------------------------------|--------------|------|--------|-------------|-------|------------------|-----|------------------|-----|-----|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BTJ1647 | | | | | | | | | | |
| Benzene | BTJ1647-BS1 | LCS | 25.470 | 25.000 | ug/L | 102 | | 70 - 130 | | |
| Toluene | BTJ1647-BS1 | LCS | 27.230 | 25.000 | ug/L | 109 | | 70 - 130 | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BTJ1647-BS1 | LCS | 10.130 | 10.000 | ug/L | 101 | | 76 - 114 | | |
| Toluene-d8 (Surrogate) | BTJ1647-BS1 | LCS | 10.030 | 10.000 | ug/L | 100 | | 88 - 110 | | |
| 4-Bromofluorobenzene (Surrogate) | BTJ1647-BS1 | LCS | 9.6200 | 10.000 | ug/L | 96.2 | | 86 - 115 | | |



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Reported: 10/28/2010 10:18
Project: 1871
Project Number: 4512968395
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Control Limits | | Lab Quals |
|-----------------------------------|------|---|------------------|--------|----------------|-------|-----|---------------------|---------------------|--------------|
| | | | | | | | | Percent Recovery | Percent Recovery | |
| QC Batch ID: BTJ1647 | | Used client sample: Y - Description: B-10, 10/14/2010 07:14 | | | | | | | | |
| Benzene | MS | 1014534-01 | 0.83000 | 26.290 | 25.000 | ug/L | | 102 | | 70 - 130 |
| | MSD | 1014534-01 | 0.83000 | 27.570 | 25.000 | ug/L | 4.9 | 107 | 20 | 70 - 130 |
| Toluene | MS | 1014534-01 | ND | 26.610 | 25.000 | ug/L | | 106 | | 70 - 130 |
| | MSD | 1014534-01 | ND | 27.830 | 25.000 | ug/L | 4.5 | 111 | 20 | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surrogate) | MS | 1014534-01 | ND | 11.250 | 10.000 | ug/L | | 112 | | 76 - 114 |
| | MSD | 1014534-01 | ND | 10.330 | 10.000 | ug/L | | 103 | | 76 - 114 |
| Toluene-d8 (Surrogate) | MS | 1014534-01 | ND | 9.9000 | 10.000 | ug/L | | 99.0 | | 88 - 110 |
| | MSD | 1014534-01 | ND | 10.000 | 10.000 | ug/L | | 100 | | 88 - 110 |
| 4-Bromofluorobenzene (Surrogate) | MS | 1014534-01 | ND | 10.390 | 10.000 | ug/L | | 104 | | 86 - 115 |
| | MSD | 1014534-01 | ND | 9.6400 | 10.000 | ug/L | | 96.4 | | 86 - 115 |



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Reported: 10/28/2010 10:18
Project: 1871
Project Number: 4512968395
Project Manager: Anju Farfan

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A90 TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.

STATEMENTS

Purge Water Disposal

Non-hazardous groundwater produced during purging and sampling of monitoring wells is accumulated at TRC's groundwater monitoring field office at Concord, California, for transportation by a licensed carrier to an authorized disposal facility. Currently, non-hazardous purge water is transported under a bulk non-hazardous waste manifest to Crosby and Overton, Inc. in Long Beach, California.

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.

ATTACHMENT C

Third Quarter 2010 Ozone Injection O&M Report

September 15, 2010

One Technology, Suite B-123
 Irvine, California 92618
 tel 949.486.0884
 fax 949.486.0885
 environstrategy.com

Mr. Jim Barnard
 Delta Environmental Consultants Inc
 3164 Gold Camp Road Suite 200
 Rancho Cordova, CA 95670

Project No. 400-A

Third Quarter 2010
Ozone Injection System O&M Report
76 Service Station No. 1871
 96 MacArthur Boulevard
 Oakland, California

Dear Mr. Barnard:

Environ Strategy Consultants, Inc. is pleased to submit this ozone injection system operation and maintenance (O&M) report for 76 Service Station No. 1871, located at 96 MacArthur Boulevard, Oakland, California. An ozone injection system was started on June 23, 2003 to remediate hydrocarbon-impacted groundwater.

| | |
|---|----------------------------------|
| Type of Remediation System: | KVA Ozone Injection System |
| Operation Data During: Reporting Period: Jun. 1, 2010 – Aug. 31, 2010 | Period hours of operation: 2,355 |
| System Operation Data Since Startup: June 23, 2003 | Total Hours of Operation: 37,385 |
| Note: | |

Environ Strategy appreciates the opportunity to be of service. If you have any questions or require additional information regarding this report, please do not hesitate to contact us at (949) 486-0884, or by email at tyler@environstrategy.com.

Respectfully submitted,



Tyler Colopy
Staff Scientist



Jinghui Niu, P.E.
Principal Engineer



Third Quarter 2010 O&M Report

76 Service Station No. 1871

September 15, 2010

Page 2

Attachments: Figure - Site Plan

Table 1 - Ozone Injection - System Operation Data

Table 2 - Ozone Injection - Groundwater Monitoring Data

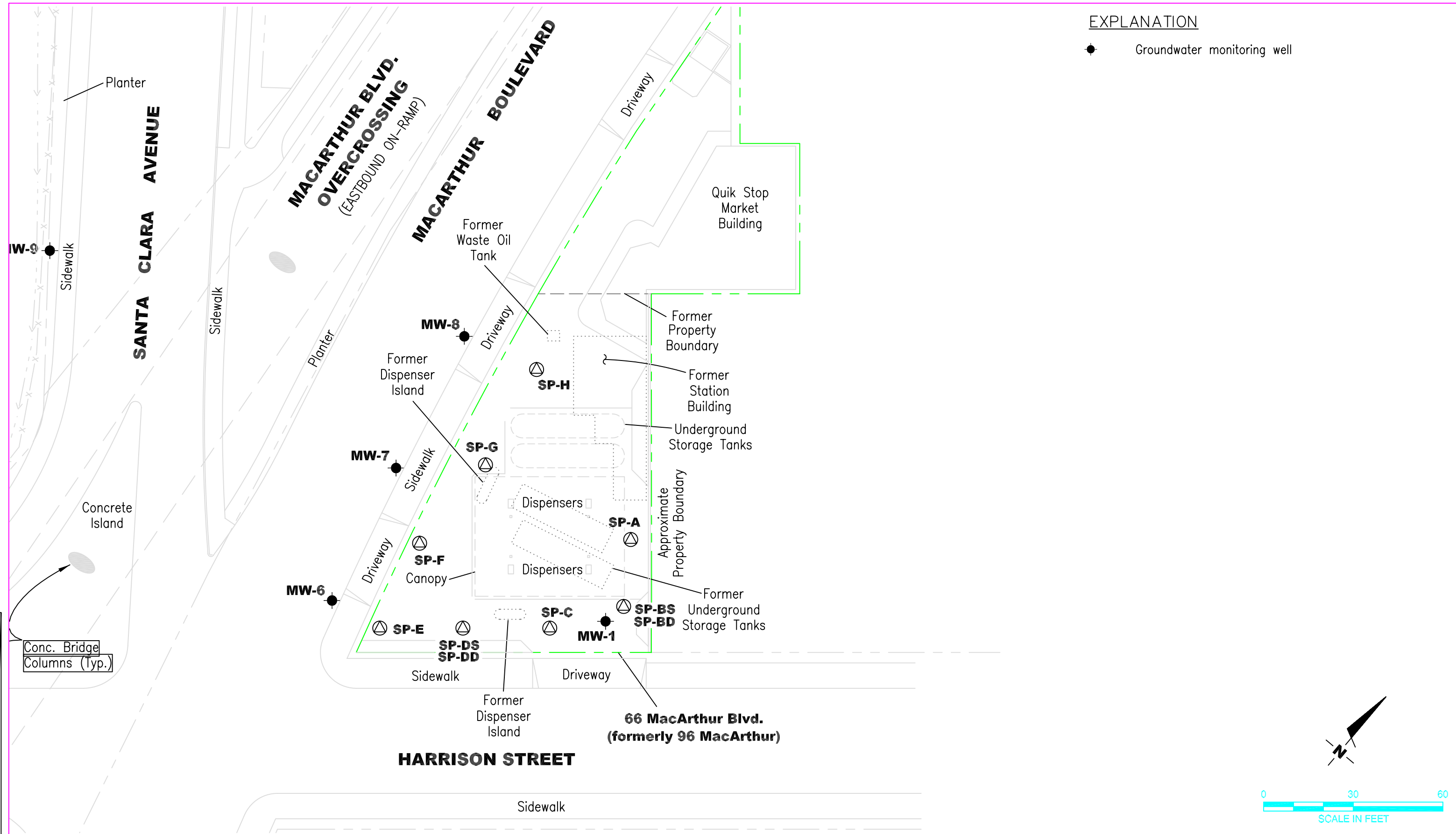
Graph 1 - MW-1 TPHg, Benzene, and MtBE Groundwater Concentrations

Graph 2 - MW-7 TPHg, Benzene, and MtBE Groundwater Concentrations

Appendix A - Field Notes

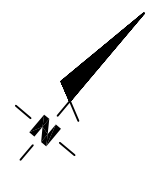
cc: Bill Borgh, ConocoPhillips Company (electronic copy)

Figure



EXPLANATION

● Groundwater monitoring well



Source: Caltrans As-Built Plans and Right of Way Maps confirmed by field observations

| | |
|-----------|---------------|
| DRAWN BY: | MD |
| CHECKED: | AD |
| APPROVED: | RB |
| DATE: | 3/22/04 PR |
| JOB NO.: | 77CP.60004.01 |
| CAD FILE: | SITEPLAN |


 environ strategy consultants, inc.
 ONE TECHNOLOGY, SUITE B-123
 IRVINE, CA

PREPARED FOR:
CONOCOPHILLIPS
76 STATION #1871
 96 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

FIGURE 1
 SITE PLAN

Tables

Table 1
Ozone Injection - System Operation Data
76 Service Station No. 1871
96 MacArthur Blvd., Oakland, California
Page 1 of 4

| Date | Notes | OZONE SPARGE SYSTEM | | | | | | SP-A | SP-BS | SP-BD | SP-C | SP-DS | SP-DD | SP-E | SP-F | SP-G | SP-H | |
|----------|-------|------------------------|-----------|-------------------|----------------------|--------------------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | System Status (On/Off) | | Hourmeter Reading | Period Online Factor | Cumulative Online Factor | Ozone Injected (lbs) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) |
| | | Arrival | Departure | | | | | | | | | | | | | | | |
| 6/23/03 | | On | On | 8807.26 | -- | 0.95 | -- | 20 | 18 | 19 | 20 | 21 | 23 | 20 | 26 | 14 | 26 | |
| 7/16/03 | | Off | On | 8850.46 | 0.09 | 0.91 | 0.39 | 27 | 18 | 31 | 40 | 28 | 29 | 31 | 38 | 24 | 25 | |
| 8/30/03 | | On | On | 9180.61 | 0.35 | 0.86 | 2.97 | 17 | 15 | 17 | 19 | 19 | 19 | 20 | 26 | 19 | 26 | |
| 9/18/03 | | On | On | 9327.43 | 0.37 | 0.84 | 1.32 | 13.5 | 14.7 | 17.0 | 16.3 | 16.0 | 19.7 | 16.8 | 19.8 | 15.7 | 20 | |
| 10/16/03 | | On | On | -- | -- | 0.84 | -- | 27.0 | 19.5 | 40.8 | 39.0 | 40.8 | 38.5 | 34.2 | 46.4 | 24.2 | 39.8 | |
| 11/17/03 | | On | On | 9696.55 | 0.29 | 0.81 | -- | 11.0 | 20.0 | 17.0 | 18.0 | 17.5 | 17.0 | 16.0 | 21.0 | 51.0 | 22.0 | |
| 12/5/03 | | On | On | 9804.98 | 0.29 | 0.80 | 0.98 | 33.0 | 21.0 | 44.0 | 40.0 | 43.0 | 39.0 | 33.5 | 44.0 | 26.0 | 33.0 | |
| 1/16/04 | | On | On | 10471.28 | 0.76 | 0.79 | 6.00 | 12.5 | 11.0 | 18.5 | 16.5 | 17.5 | 17.0 | 16.0 | 20.0 | 16.0 | 20.0 | |
| 2/3/04 | | On | On | 10727.69 | 0.68 | 0.79 | 2.31 | 12.3 | 11.5 | 18.2 | 16.5 | 18.2 | 17.3 | 16.0 | 19.0 | 16.0 | 18.2 | |
| 3/24/04 | | On | On | 11424.95 | 0.66 | 0.78 | 6.28 | 31.0 | 18.3 | 37.5 | 26.0 | 34.0 | 33.2 | 32.3 | 41.5 | 23.0 | 31.0 | |
| 4/14/04 | | On | On | 11676.10 | 0.57 | 0.77 | 2.26 | 32.0 | 19.0 | 38.7 | 26.0 | 37.7 | 37.1 | 32.8 | 41.8 | 23.8 | 29.5 | |
| 4/15/04 | a | On | On | 11685.29 | 0.44 | 0.77 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 4/16/04 | a | On | On | 11693.80 | 0.41 | 0.77 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 4/19/04 | a | On | On | 11742.90 | 0.78 | 0.77 | 0.44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 4/23/04 | a | On | On | 11773.10 | 0.36 | 0.77 | 0.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 5/4/04 | | Off | On | 11837.70 | 0.28 | 0.76 | 0.58 | 32.2 | 20.5 | 39.4 | 36.2 | 38.1 | 32.0 | 33.5 | 60.0 | 25.8 | 33.1 | |
| 5/11/04 | | On | On | 11950.51 | 0.77 | 0.76 | 1.02 | 32.5 | 20.0 | 38.5 | 29.8 | 38.8 | 39.5 | 34.8 | 60.0 | 23.5 | 35.9 | |
| 6/14/04 | b,c | On | On | 12464.64 | 0.72 | 0.76 | 4.63 | 20.0 | 21.0 | 38.8 | 27.2 | 37.0 | 38.2 | 35.2 | 60.0 | 24.0 | 32.1 | |
| 7/29/04 | d | On | On | 844.62 | 0.99 | 0.77 | 7.60 | 22 | 15 | -- | 26 | 35 | 34 | 35 | -- | 25 | 33 | |
| 8/12/04 | e | On | On | 1075.97 | 0.98 | 0.78 | 2.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/10/04 | | On | On | 1490.23 | 0.85 | 0.78 | 3.73 | 32 | 32 | 33 | 33 | 21 | 24 | 30 | 20 | 26 | 30 | |
| 10/5/04 | | On | On | 1868.83 | 0.90 | 0.78 | 3.41 | 31 | 32 | 33 | 31 | 22 | 23 | 31 | 21 | 26 | 28 | |
| 11/5/04 | | On | On | 2360.90 | 0.93 | 0.79 | 4.43 | 22 | 26 | 12 | 18 | 12 | 22 | 30 | 32 | 26 | 22 | |
| 12/2/04 | f | Off | Off | 2802.02 | 0.97 | 0.79 | 3.97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 1/13/05 | | Off | On | 2802.07 | 0.00 | 0.76 | 0.00 | 23 | 27 | 15 | 20 | 15 | 23 | 31 | 34 | 28 | 25 | |
| 2/25/05 | g | Off | Off | 2802.42 | 0.00 | 0.73 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 3/8/05 | h,i | Off | Off | 2802.42 | 0.00 | 0.72 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 4/5/05 | i | Off | Off | 2802.42 | 0.00 | 0.70 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 5/4/05 | j | Off | On | 2802.49 | 0.00 | 0.69 | 0.00 | 14 | 11 | 16 | 12 | 20 | 27 | 25 | 29 | 25 | 31 | |
| 6/2/05 | k | On | On | 3407.97 | 1.00 | 0.69 | 5.45 | 35 | 25 | Off | 40 | 41 | 36 | 35 | 34 | 27 | 25 | |
| 7/7/05 | k,l,m | On | On | 4067.42 | 1.29 | 0.71 | 5.94 | 31 | 23 | Off | 30 | Off | 26 | 32 | 28 | 25 | Off | |
| 8/26/05 | n | On | On | 4665.98 | 0.81 | 0.72 | 5.39 | 13 | 13 | Off | 14 | Off | 13 | 12 | 12 | 13 | Off | |
| 9/23/05 | o | On | On | 4947.97 | 0.69 | 0.71 | 2.54 | 16 | 15 | Off | Off | Off | 16 | 16 | 16 | 16 | Off | |
| 10/23/05 | p | On | On | 5264.28 | 0.72 | 0.71 | 2.85 | 16 | 16 | Off | Off | Off | 16 | 16 | 16 | 16 | Off | |
| 11/11/05 | q,r | On | Off | 0.90 | -- | 0.71 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 11/15/05 | s | Off | On | 0.90 | 0.00 | 0.71 | 0.00 | 35 | 16 | 16 | 22 | 23 | 18 | 23 | 23 | 23 | 24 | |
| 12/6/05 | t | Off | On | 2.49 | 0.00 | 0.70 | 0.01 | 22 | 20 | 19 | 24 | 24 | 22 | 26 | 23 | 24 | 25 | |
| 1/4/06 | u | Off | On | 6 | 0.01 | 0.69 | 0.03 | 20 | 20 | 18 | 17 | 23 | 20 | 25 | 19 | 22 | 20 | |
| 1/18/06 | u | Off | On | 203 | 0.67 | 0.69 | 1.77 | 22 | 19 | 19 | 20 | 19 | 18 | 21 | 22 | 22 | 23 | |
| 2/1/06 | v | Off | On | 316 | 0.38 | 0.68 | 1.02 | 20 | 20 | 18 | 22 | 22 | 18 | 23 | 23 | 22 | 25 | |
| 2/15/06 | v | Off | On | 344 | 0.10 | 0.68 | 0.25 | 20 | 19 | 18 | 17 | 19 | 20 | 23 | 19 | 22 | 20 | |
| 3/1/06 | v | Off | On | 417 | 0.25 | 0.67 | 0.66 | 21 | 20 | 19 | 19 | 21 | 17 | 24 | 23 | 21 | 21 | |

Table 1
Ozone Injection - System Operation Data
76 Service Station No. 1871
96 MacArthur Blvd., Oakland, California
Page 2 of 4

| Date | Notes | OZONE SPARGE SYSTEM | | | | | | SP-A | SP-BS | SP-BD | SP-C | SP-DS | SP-DD | SP-E | SP-F | SP-G | SP-H | |
|----------|-------|------------------------|-----------|-------------------|----------------------|--------------------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | System Status (On/Off) | | Hourmeter Reading | Period Online Factor | Cumulative Online Factor | Ozone Injected (lbs) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) |
| | | Arrival | Departure | | | | | | | | | | | | | | | |
| 3/16/06 | u | Off | On | 501 | 0.27 | 0.67 | 0.76 | 20 | 19 | 18 | 17 | 19 | 20 | 23 | 20 | 22 | 20 | |
| 3/29/06 | u | Off | On | 560 | 0.22 | 0.67 | 0.53 | 20 | 20 | 19 | 19 | 20 | 21 | 25 | 21 | 22 | 21 | |
| 4/16/06 | u | Off | On | 624 | 0.17 | 0.66 | 0.58 | 20 | 19 | 18 | 17 | 19 | 20 | 23 | 20 | 23 | 21 | |
| 4/25/06 | u | Off | On | 718 | 0.50 | 0.66 | 0.85 | 20 | 20 | 19 | 18 | 20 | 22 | 24 | 21 | 22 | 20 | |
| 5/9/06 | u | Off | On | 776 | 0.20 | 0.65 | 0.52 | 20 | 19 | 19 | 17 | 19 | 21 | 22 | 20 | 22 | 20 | |
| 5/23/06 | u | Off | On | 834 | 0.20 | 0.65 | 0.52 | 19 | 20 | 18 | 18 | 20 | 20 | 23 | 20 | 23 | 21 | |
| 6/6/06 | u | Off | On | 1,042 | 0.71 | 0.65 | 1.87 | 20 | 19 | 18 | 17 | 19 | 20 | 23 | 20 | 22 | 20 | |
| 6/20/06 | w | Off | On | 1,206 | 0.56 | 0.65 | 1.48 | 19 | 20 | 18 | 18 | 19 | 20 | 25 | 21 | 23 | 21 | |
| 7/7/06 | x | Off | Off | 1,313 | 0.30 | 0.65 | 0.96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 7/28/06 | y | Off | On | 1,313 | 0.00 | 0.64 | 0.00 | 19 | 17 | 16 | 19 | 24 | 17 | 22 | 19 | 21 | 23 | |
| 8/15/06 | u | Off | On | 1,616 | 0.80 | 0.64 | 2.73 | 19 | 17 | 17 | 16 | 19 | 19 | 23 | 19 | 21 | 21 | |
| 8/29/06 | u | Off | On | 1,801 | 0.63 | 0.64 | 1.67 | 19 | 19 | 17 | 17 | 21 | 18 | 21 | 19 | 22 | 23 | |
| 9/12/06 | u | Off | On | 2,022 | 0.75 | 0.64 | 1.99 | 23 | 19 | 17 | 16 | 19 | 19 | 25 | 19 | 22 | 21 | |
| 9/22/06 | u | Off | On | 2,204 | 0.87 | 0.64 | 1.64 | 21 | 21 | 19 | 20 | 23 | 21 | 26 | 23 | 25 | 27 | |
| 10/4/06 | u | Off | On | 2,313 | 0.43 | 0.64 | 0.98 | 18 | 18 | 17 | 18 | 18 | 18 | 25 | 23 | 22 | 21 | |
| 10/18/06 | u | Off | On | 2,401 | 0.30 | 0.64 | 0.79 | 20 | 19 | 17 | 16 | 18 | 19 | 20 | 20 | 21 | 27 | |
| 10/31/06 | w | Off | On | 2,516 | 0.42 | 0.63 | 1.04 | 22 | 20 | 19 | 20 | 19 | 19 | 23 | 21 | 25 | 23 | |
| 11/14/06 | u | Off | On | 2,636 | 0.41 | 0.63 | 1.08 | 18 | 18 | 17 | 17 | 18 | 18 | 22 | 24 | 22 | 24 | |
| 11/28/06 | u | Off | On | 2,744 | 0.37 | 0.63 | 0.97 | 20 | 20 | 19 | 20 | 22 | 21 | 25 | 25 | 22 | 23 | |
| 12/14/06 | u | Off | On | 2,801 | 0.17 | 0.63 | 0.51 | 19 | 19 | 18 | 18 | 19 | 19 | 22 | 22 | 23 | 22 | |
| 12/26/06 | u | Off | On | 2,906 | 0.42 | 0.62 | 0.95 | 20 | 20 | 19 | 20 | 21 | 20 | 25 | 25 | 20 | 24 | |
| 1/15/07 | u | Off | On | 2,983 | 0.18 | 0.62 | 0.69 | 19 | 20 | 18 | 18 | 19 | 19 | 22 | 23 | 22 | 22 | |
| 1/29/07 | v | Off | On | 3,076 | 0.32 | 0.62 | 0.84 | 20 | 20 | 19 | 20 | 20 | 20 | 24 | 21 | 23 | 24 | |
| 2/6/07 | u | Off | On | 3,156 | 0.48 | 0.62 | 0.72 | 19 | 20 | 18 | 17 | 19 | 19 | 21 | 24 | 21 | 23 | |
| 2/21/07 | u | Off | On | 3,303 | 0.47 | 0.62 | 1.32 | 20 | 21 | 20 | 20 | 18 | 21 | 23 | 21 | 25 | 23 | |
| 3/5/07 | u | Off | On | 3,378 | 0.30 | 0.61 | 0.68 | 19 | 20 | 18 | 18 | 18 | 20 | 21 | 23 | 22 | 22 | |
| 3/19/07 | u | Off | On | 3,476 | 0.33 | 0.61 | 0.88 | 20 | 21 | 20 | 19 | 18 | 21 | 23 | 24 | 23 | 24 | |
| 4/4/07 | u | Off | On | 3,515 | 0.12 | 0.61 | 0.35 | 19 | 20 | 18 | 17 | 18 | 19 | 21 | 21 | 21 | 22 | |
| 4/18/07 | u | Off | On | 3,606 | 0.31 | 0.60 | 0.82 | 21 | 21 | 20 | 20 | 18 | 21 | 24 | 24 | 24 | 23 | |
| 5/10/07 | u | Off | On | 3,676 | 0.15 | 0.60 | 0.63 | 19 | 20 | 19 | 17 | 18 | 19 | 20 | 23 | 20 | 21 | |
| 5/25/07 | u | Off | On | 3,758 | 0.26 | 0.60 | 0.74 | 22 | 21 | 20 | 19 | 19 | 21 | 22 | 22 | 22 | 23 | |
| 6/4/07 | u | Off | On | 3,801 | 0.18 | 0.59 | 0.39 | 18 | 20 | 18 | 18 | 17 | 19 | 19 | 20 | 21 | 20 | |
| 6/18/07 | | On | On | 4,137 | 1.00 | 0.60 | 3.02 | 20 | 20 | 19 | 19 | 19 | 20 | 22 | 22 | 20 | 22 | |
| 7/2/07 | | On | On | 4,373 | 0.70 | 0.60 | 2.12 | 15 | 21 | 19 | 18 | 20 | 19 | 24 | 21 | 21 | 23 | |
| 7/16/07 | | On | On | 4,409 | 0.11 | 0.59 | 0.32 | 18 | 20 | 20 | 19 | 21 | 20 | 26 | 23 | 22 | 25 | |
| 8/8/07 | | On | On | 4,961 | 1.00 | 0.60 | 4.97 | 13 | 20 | 20 | 18 | 20 | 18 | 29 | 22 | 20 | 24 | |
| 8/27/07 | | On | On | 5,411 | 0.99 | 0.60 | 4.05 | 14 | 21 | 19 | 20 | 21 | 19 | 30 | 20 | 21 | 21 | |
| 9/13/07 | | On | On | 5,822 | 1.00 | 0.61 | 3.70 | 22 | 21 | 21 | 23 | 21 | 22 | 30 | 20 | 21 | 21 | |
| 9/27/07 | | On | On | 6,155 | 0.99 | 0.61 | 3.00 | 28 | 25 | 25 | 27 | 25 | 26 | 32 | 21 | 26 | 25 | |
| 10/29/07 | | On | On | 6,917 | 0.99 | 0.62 | 6.86 | 28 | 25 | 24 | 25 | 33 | 32 | 32 | 21 | 30 | 30 | |

Table 1
Ozone Injection - System Operation Data
76 Service Station No. 1871
96 MacArthur Blvd., Oakland, California
Page 3 of 4

| Date | Notes | OZONE SPARGE SYSTEM | | | | | | SP-A | SP-BS | SP-BD | SP-C | SP-DS | SP-DD | SP-E | SP-F | SP-G | SP-H | |
|--|-------|------------------------|-----------|-------------------|----------------------|--------------------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | System Status (On/Off) | | Hourmeter Reading | Period Online Factor | Cumulative Online Factor | Ozone Injected (lbs) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) |
| | | Arrival | Departure | | | | | | | | | | | | | | | |
| 11/26/07 | | On | On | 7,591 | 1.00 | 0.62 | 6.07 | 26 | 22 | 24 | 25 | 31 | 30 | 32 | 22 | 30 | 30 | |
| 12/31/07 | | On | On | 8,425 | 0.99 | 0.63 | 7.51 | 26 | 20 | 24 | 24 | 30 | 32 | 32 | 30 | 28 | 30 | |
| 1/28/08 | | On | On | 9,103 | 1.01 | 0.63 | 6.10 | 26 | 21 | 22 | 21 | 26 | 30 | 28 | 26 | 27 | 27 | |
| 2/25/08 | | On | On | 9,778 | 1.00 | 0.64 | 6.08 | 23 | 19 | 22 | 20 | 25 | 30 | 30 | 28 | 27 | 28 | |
| 3/24/08 | | On | On | 10,475 | 1.00 | 0.64 | 6.27 | 25 | 20 | 21 | 20 | 24 | 30 | 28 | 27 | 26 | 27 | |
| 4/28/08 | | On | On | 11,317 | 1.00 | 0.65 | 7.58 | 24 | 22 | 20 | 22 | 22 | 30 | 29 | 24 | 26 | 26 | |
| 5/26/08 | | On | On | 11,992 | 1.00 | 0.65 | 6.08 | 23 | 20 | 22 | 22 | 23 | 30 | 30 | 25 | 27 | 28 | |
| 6/30/08 | | On | On | 12,828 | 1.00 | 0.66 | 7.52 | 25 | 22 | 21 | 23 | 22 | 31 | 29 | 26 | 27 | 26 | |
| 7/28/08 | | On | On | 13,498 | 1.00 | 0.66 | 6.03 | 22 | 26 | 24 | 28 | 23 | 30 | 22 | 27 | 29 | 21 | |
| 8/25/08 | | On | On | 14,261 | 1.00 | 0.66 | 6.87 | 18 | 15 | 25 | 14 | 19 | 22 | 23 | 25 | 24 | 20 | |
| 9/29/08 | | On | On | 15,100 | 1.00 | 0.67 | 7.55 | 20 | 14 | 15 | 16 | 18 | 28 | 28 | 20 | 19 | 22 | |
| 10/27/08 | z | On | On | 15,358 | 0.38 | 0.67 | 2.32 | 20 | 16 | 16 | 17 | 20 | 28 | 28 | 18 | 19 | 21 | |
| 11/24/08 | | On | On | 16,028 | 1.00 | 0.67 | 6.03 | 20 | 15 | 15 | 15 | 18 | 25 | 25 | 18 | 16 | 20 | |
| 12/29/08 | | On | On | 16,869 | 1.00 | 0.67 | 7.57 | 20 | 15 | 17 | 16 | 20 | 24 | 22 | 19 | 14 | 20 | |
| 1/26/09 | | On | On | 17,542 | 1.00 | 0.68 | 6.06 | 22 | 17 | 16 | 16 | 21 | 25 | 20 | 18 | 15 | 22 | |
| 2/23/09 | | On | On | 18,214 | 1.00 | 0.68 | 6.05 | 21 | 18 | 19 | 18 | 20 | 23 | 21 | 19 | 16 | 20 | |
| 3/30/09 | | On | On | 19,005 | 0.94 | 0.69 | 7.12 | 20 | 19 | 17 | 17 | 22 | 22 | 21 | 18 | 16 | 21 | |
| 4/27/09 | | On | On | 19,727 | 1.00 | 0.69 | 6.50 | 21 | 21 | 18 | 18 | 21 | 22 | 20 | 19 | 18 | 20 | |
| 5/25/09 | | On | On | 20,400 | 1.00 | 0.69 | 6.06 | 22 | 20 | 17 | 16 | 20 | 21 | 21 | 20 | 19 | 19 | |
| 6/22/09 | | On | On | 21,072 | 1.00 | 0.70 | 6.05 | 20 | 20 | 17 | 18 | 17 | 20 | 21 | 19 | 20 | 20 | |
| 7/27/09 | | On | On | 21,912 | 1.00 | 0.70 | 7.56 | 22 | 21 | 18 | 19 | 16 | 22 | 22 | 21 | 19 | 18 | |
| 8/3/09 | | On | Off | 22,080 | 1.00 | 0.70 | 1.51 | 21 | 20 | 20 | 21 | 18 | 21 | 20 | 20 | 21 | 19 | |
| 11/4/09 | | Off | On | 22,080 | 0.00 | 0.68 | 0.00 | 20 | 19 | 19 | 20 | 17 | 20 | 19 | 18 | 19 | 17 | |
| 12/30/09 | | On | On | 23,424 | 1.00 | 0.68 | 12.10 | 23 | 21 | 21 | 23 | 20 | 22 | 23 | 21 | 22 | 21 | |
| 1/27/10 | | On | On | 24,096 | 1.00 | 0.69 | 6.05 | 21 | 20 | 20 | 22 | 21 | 24 | 23 | 20 | 24 | 23 | |
| 2/24/10 | | On | On | 24,767 | 1.00 | 0.69 | 6.04 | 22 | 24 | 22 | 21 | 22 | 25 | 24 | 21 | 26 | 24 | |
| 3/30/10 | | On | On | 25,607 | 1.00 | 0.69 | 7.56 | 20 | 21 | 22 | 23 | 19 | 23 | 22 | 22 | 25 | 23 | |
| 4/27/10 | | On | On | 26,280 | 1.00 | 0.70 | 6.06 | 21 | 22 | 21 | 22 | 20 | 21 | 20 | 20 | 24 | 21 | |
| 5/25/10 | | On | On | 26,953 | 1.00 | 0.70 | 6.06 | 22 | 24 | 23 | 21 | 21 | 22 | 21 | 22 | 23 | 22 | |
| 6/29/10 | | On | On | 27,795 | 1.00 | 0.70 | 7.58 | 24 | 21 | 22 | 24 | 22 | 20 | 21 | 22 | 24 | 23 | |
| 7/27/10 | | On | On | 28,467 | 1.00 | 0.71 | 6.05 | 21 | 18 | 20 | 22 | 20 | 17 | 19 | 18 | 21 | 20 | |
| 8/31/10 | | On | On | 29,308 | 1.00 | 0.71 | 7.57 | 12 | 18 | 24 | 15 | 13 | 14 | 16 | 10 | 17 | 8 | |
| (6/23/2003-3/30/2009) Sparge time per cycle (min) | | | | | | | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| (4/27/2009 to 6/2/2009) Sparge Time per cycle (min) | | | | | | | | 7 | 7 | 7 | 7 | 8 | 8 | 7 | 7 | 7 | 7 | 7 |
| (6/2/2009 to present) Sparge Time per cycle (min) | | | | | | | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Number of Cycles per Day | | | | | | | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Reporting Period: Third Quarter 2010 (06/01/2010 to 08/31/2010) | | | | | | | | | | | | | | | | | | |
| Total Hours Operational: 37,385 | | | | | | | | | | | | | | | | | | |
| Total Pounds Ozone Injected: 336 | | | | | | | | | | | | | | | | | | |
| Period Hours Operational: 2355 | | | | | | | | | | | | | | | | | | |
| Period Percent Operational: 100% | | | | | | | | | | | | | | | | | | |
| Period Pounds Ozone Injected: 21 | | | | | | | | | | | | | | | | | | |

Table 1
Ozone Injection - System Operation Data
 76 Service Station No. 1871
 96 MacArthur Blvd., Oakland, California
 Page 4 of 4

Definitions:

psi Pounds per square inch
 -- Data not available
 NA Not applicable
 lbs Pounds

Notes:

Hour Meter Formula adjusted 12/19/07

June 4, 2007 - Control Panel retrofit installed.

August 3, 2009 - Ozone down by request of COP PM

November 4, 2009 - System restarted

System cycles through program 18 times per day, for 53% utilization

- a Troubleshooting time counter
- b Hourmeter replaced
- c Solenoid 8 has high pressure, taken offline
- d Solenoid 3 leaking, taken off line
- e Pressures not properly recorded
- f Ozone generator hose ruptured on effluent side to solenoid manifold. No Readings.
- g System down due to bad GFI
- h New GFI was installed.
- i Fan in compressor broken and tubing from compressor to manifold needs to be replaced. System left off until repairs made.
- j Installed new motor fan and manifold fittings, restarted system.
- k OZ-3 turned off due to high pressure of over 60 psi.
- l OZ-5 too brittle. Left off until lines are replaced.
- m OZ-10 turned off due to leak in secondary containment
- n Hourmeter reading not correct, will check next visit
- o Hourmeter not working properly.
- p Pressure gauge stuck at 16 psi.
- q New hourmeter, panel fan, and GFCI installed
- r Fuse blown in ozone generator, system left off
- s Replaced tubing to all wells and replaced ozone generator circuit board and pressure gauge
- t System down due to tripped GFI; foam on door may have been pressing reset button. Foam removed.
- u Ozone sensor tripped; system restarted.
- v Rainbird meter malfunction.
- w System down time due to tripped GFI; system restarted.
- x System off due to bad compressor.
- y Compressor repaired; system restarted.
- z September 10-27,2008 - System down for well repair.

Table 2
Ozone Injection - Groundwater Monitoring Data
76 Service Station No. 1871
96 MacArthur Blvd., Oakland, California
Page 1 of 1

| Date | Notes | Monitoring Well: MW-1 | | | | | | | | Monitoring Well: MW-7 | | | | | | | |
|------------|-------|-----------------------|-----------|-------------|----------------|----------------|----------------------|------------------------|-------------|-----------------------|-----------|-------------|----------------|----------------|----------------------|------------------------|-------------|
| | | ORP (mV) | DO (mg/l) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylenes (total) (µg/L) | MtBE (µg/L) | ORP (mV) | DO (mg/l) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylenes (total) (µg/L) | MtBE (µg/L) |
| 4/16/2003 | a | NM | NM | 510 | 57 | 0.62 | 29 | 61 | 160 | NM | NM | <25,000 | <250 | <250 | <250 | <500 | 37,000 |
| 6/23/2003 | a | NM | NM | 75 | <0.50 | <0.50 | <0.50 | 5.3 | 12 | NM | NM | 20,000 | 260 | <0.50 | <0.50 | <1.0 | 20,000 |
| 8/29/2003 | a | NM | NM | 11,000 | 64 | <1.0 | 330 | 1,400 | 440 | NM | NM | <10,000 | <100 | <100 | <100 | <200 | 24,000 |
| 9/18/2003 | | NM | NM | 390 | 2.3 | <0.50 | 3.6 | 31 | 30 | NM | NM | -- | -- | -- | -- | -- | -- |
| 10/16/2003 | | NM | NM | 2,100 | 6.0 | <0.50 | 24.0 | 120 | 110 | NM | NM | -- | -- | -- | -- | -- | -- |
| 11/17/2003 | | NM | NM | 130 | 0.51 | <0.50 | 2.1 | 7.9 | 43 | NM | NM | 16,000 | <130 | <130 | <130 | <250 | 17,000 |
| 12/5/2003 | | NM | NM | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 3.6 | NM | NM | 12,000 | <100 | <100 | <100 | <200 | 19,000 |
| 1/16/2004 | b | NM | NM | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <2.0 | NM | NM | 17,000 | 160 | 270 | <130 | <250 | 19,000 |
| 2/3/2004 | | 238 | NM | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <2.0 | 72 | NM | 10,000 | <25 | <25 | <25 | <50 | 15,000 |
| 3/24/2004 | b | 169 | NM | 55 | <0.50 | <0.50 | 0.80 | 2.9 | 7.8 | 56 | NM | 13,000 | <100 | <100 | <100 | <200 | 15,000 |
| 4/14/2004 | b | 0.4 | NM | 23,000 | 310 | 10 | 590 | 2400 | 1700 | 42 | NM | 9,000 | <50 | <50 | <50 | <100 | 11,000 |
| 5/11/2004 | c | NM | NM | 7,800 | 160 | <10 | 170 | 700 | 720 | -3 | NM | 8,300 | <50 | <50 | <50 | <100 | 11,000 |
| 6/14/2004 | | 20 | 5.25 | 110 | <0.50 | <0.50 | 1.0 | 6.4 | 3.4 | 35 | 1.45 | <5,000 | <50 | <50 | <50 | <100 | 6,500 |
| 7/26/2004 | | NM | NM | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 3.2 | NM | NM | <5,000 | <50 | <50 | <50 | <100 | 3,100 |
| 8/12/2004 | | 171 | 0.07 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 0.80 | 117 | 0.06 | 2,100 | <10 | <10 | <10 | <20 | 2,700 |
| 9/10/2004 | | 180 | 0.08 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 5.7 | 122 | 0.07 | 3,100 | <13 | <13 | <13 | <25 | 4,400 |
| 10/5/2004 | | 175 | 0.09 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 117 | 0.08 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 7.1 |
| 11/5/2004 | d | 117 | 0.05 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 0.89 | 210 | 0.06 | 50 | <0.50 | <0.50 | <0.50 | <1.0 | 1.1 |
| 12/2/2004 | | 109 | 0.03 | 83 | 0.83 | <0.50 | <0.50 | 1.2 | 44 | 214 | 0.03 | 180 | 1.6 | <0.50 | 66 | 4.5 | 51 |
| 1/13/2005 | | 105 | 0.04 | 1,100 | 26 | 1.2 | 2.10 | 70 | 630 | 201 | 0.05 | 1,000 | 25 | 1 | 1.9 | 68 | 460 |
| 2/25/2005 | c,f | -- | 2.67 | 24,000 | 350 | 10 | 820 | 2,200 | 1,300 | 21 | 2.05 | 680 | <2.0 | <2.0 | 2.3 | 58 | 2,500 |
| 3/8/2005 | g | -35 | 4.43 | 23,000 | 410 | <10 | 1,100 | 2,300 | 1,300 | NR | NR | -- | -- | -- | -- | -- | -- |
| 4/5/2005 | | -30 | 4.56 | 34,000 | 300 | <10 | 910 | 2,000 | 1,100 | 135 | 6.53 | <5,000 | <50 | <50 | <50 | <1.00 | 19,000 |
| 5/4/2005 | | -59 | 2.40 | 26,000 | 220 | 7.4 | 790 | 2,100 | 860 | -24 | 1.13 | <2,000 | <0.50 | <0.50 | <0.50 | <1.0 | 7,100 |
| 6/2/2005 | | -20 | 7.34 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 3.5 | -12 | 1.01 | 3500 | <0.50 | <0.50 | <0.50 | <1.0 | 4,000 |
| 7/7/2005 | i,j | 142 | 7.42 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 0.61 | 154 | 1.40 | 5000 | <0.50 | <0.50 | <0.50 | <1.0 | 8,900 |
| 9/23/2005 | | 16 | 7.77 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 56 | 1.39 | <500 | <5.0 | <5.0 | <5.0 | <10 | 1,900 |
| 10/23/2005 | | 154 | 7.13 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 0.56 | 191 | 1.59 | <250 | <2.5 | <2.5 | <2.5 | <5 | 680 |
| 11/1/2005 | k | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/20/2005 | | -- | -- | 10000 | 17 | 29 | 180 | 840 | 2400 | -- | -- | 1100 | 0.90 | <0.50 | 24 | 37 | 8200 |
| 3/10/2006 | | -- | -- | 10000 | 35 | <0.50 | 470 | 1300 | 960 | -- | -- | 1200 | 24 | <0.50 | 3.6 | <1.0 | 4700 |
| 6/23/2006 | | -- | -- | 11000 | 110 | <0.50 | 610 | 1600 | 780 | -- | -- | 1800 | 21 | <0.50 | <0.50 | <1.0 | 1500 |
| 9/27/2006 | | -- | -- | 8500 | 22 | <0.50 | 270 | 740 | 460 | -- | -- | <2,000 | <0.50 | <0.50 | <0.50 | <1.0 | 350 |
| 12/22/2006 | | -- | -- | 7300 | 35 | <0.50 | 370 | 850 | 210 | -- | -- | 24000 | <0.50 | <0.50 | <0.50 | <1.0 | 190 |
| 3/23/2007 | | -- | -- | 8800 | 28 | <0.50 | 440 | 910 | 170 | -- | -- | 85 | <0.50 | <0.50 | <0.50 | <1.0 | 92 |
| 6/26/2007 | | -- | -- | 6300 | 16 | <0.50 | 300 | 650 | 50 | -- | -- | -- | -- | -- | -- | -- | -- |
| 9/28/2007 | | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 1.2 | -- | -- | 50 | <0.50 | <0.50 | <0.50 | <1.0 | 37 |
| 12/17/2007 | | -- | -- | 4700 | <0.50 | <0.50 | 71 | 160 | 18 | -- | -- | -- | -- | -- | -- | -- | -- |
| 3/25/2008 | | -- | -- | 7400 | 28 | <0.50 | 430 | 540 | 170 | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 7.3 |
| 6/12/2008 | | -- | -- | 4900 | 6.4 | <0.50 | 170 | 280 | 16 | -- | -- | 52 | <0.50 | <0.50 | <0.50 | <1.0 | 9.4 |
| 9/25/2008 | | -- | -- | 2200 | 2.1 | <0.50 | 72 | 110 | 11 | -- | -- | 65 | <0.50 | <0.50 | <0.50 | <1.0 | 5.6 |
| 12/30/2008 | | -- | -- | 3200 | 2.5 | <0.50 | 100 | 150 | 8.3 | -- | -- | 130 | <0.50 | <0.50 | <0.50 | 1.1 | 5.7 |
| 3/24/2009 | | -- | -- | 3500 | 6.8 | <0.50 | 140 | 140 | 28 | -- | -- | 98 | 0.50 | <0.50 | <0.50 | <1.0 | 9.2 |
| 6/23/2009 | | -- | -- | 740 | <0.50 | <0.50 | 17 | 12 | 8 | -- | -- | 290 | 1.2 | <0.50 | <0.50 | <1.0 | 6.7 |
| 12/16/2009 | | -- | -- | 4600 | 10 | <0.50 | 270 | 140 | 52 | -- | -- | 150 | <0.50 | <0.50 | <0.50 | <1.0 | 3.7 |
| 4/14/2010 | | 54 | 1.88 | 1500 | 5 | <1.00 | 100 | 36 | 20 | 110 | 0.97 | 60 | <0.50 | <0.50 | <0.50 | <1.0 | 2.1 |

Definitions:

TPHg = Total petroleum hydrocarbons as gasoline
MtBE = Methyl tert-butyl ether
µg/L = Micrograms per liter

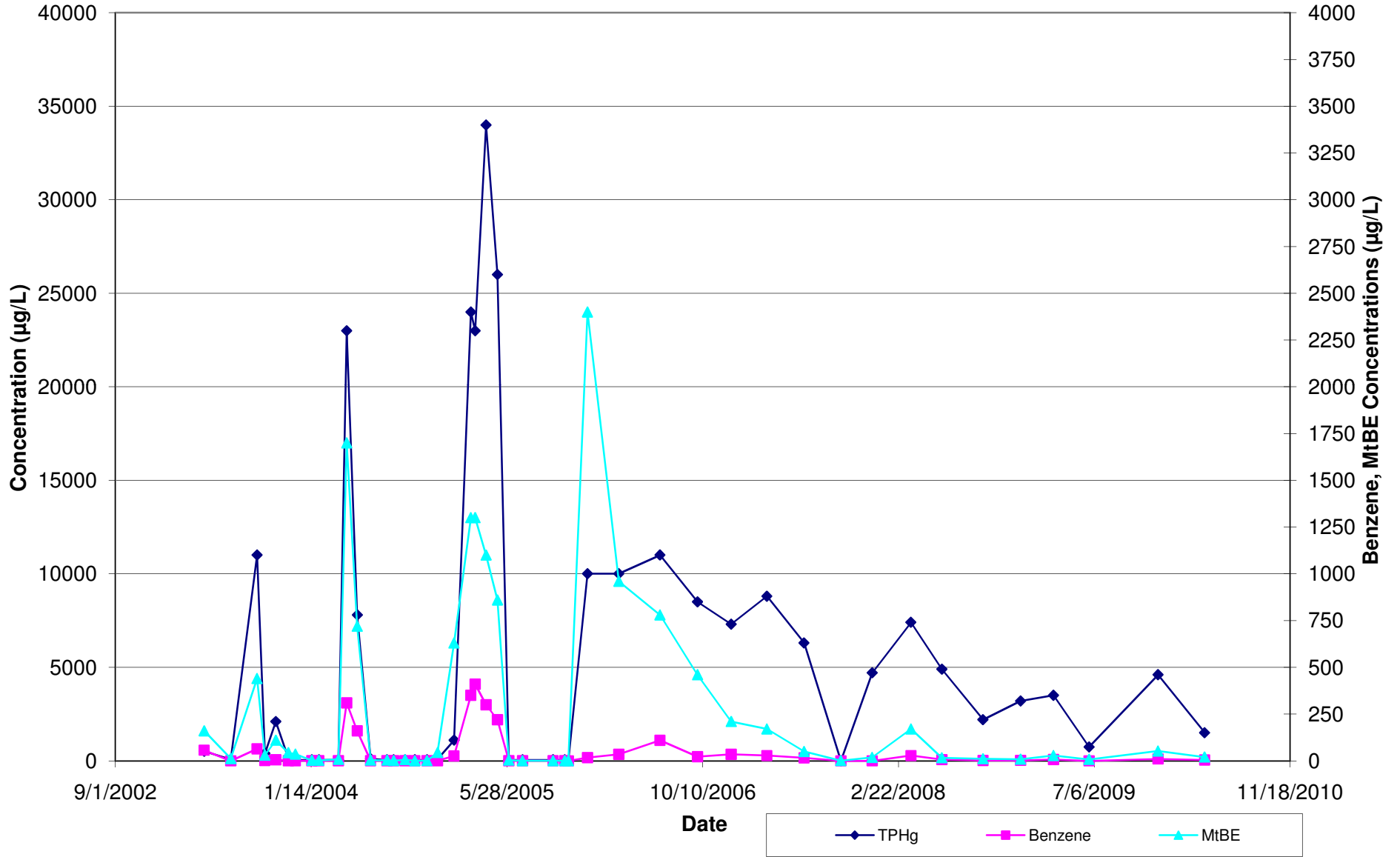
ORP = Oxidation Reduction Potential
DO = Dissolved Oxygen
mV = Millivolts
mg/l = Milligrams per liter

Notes:

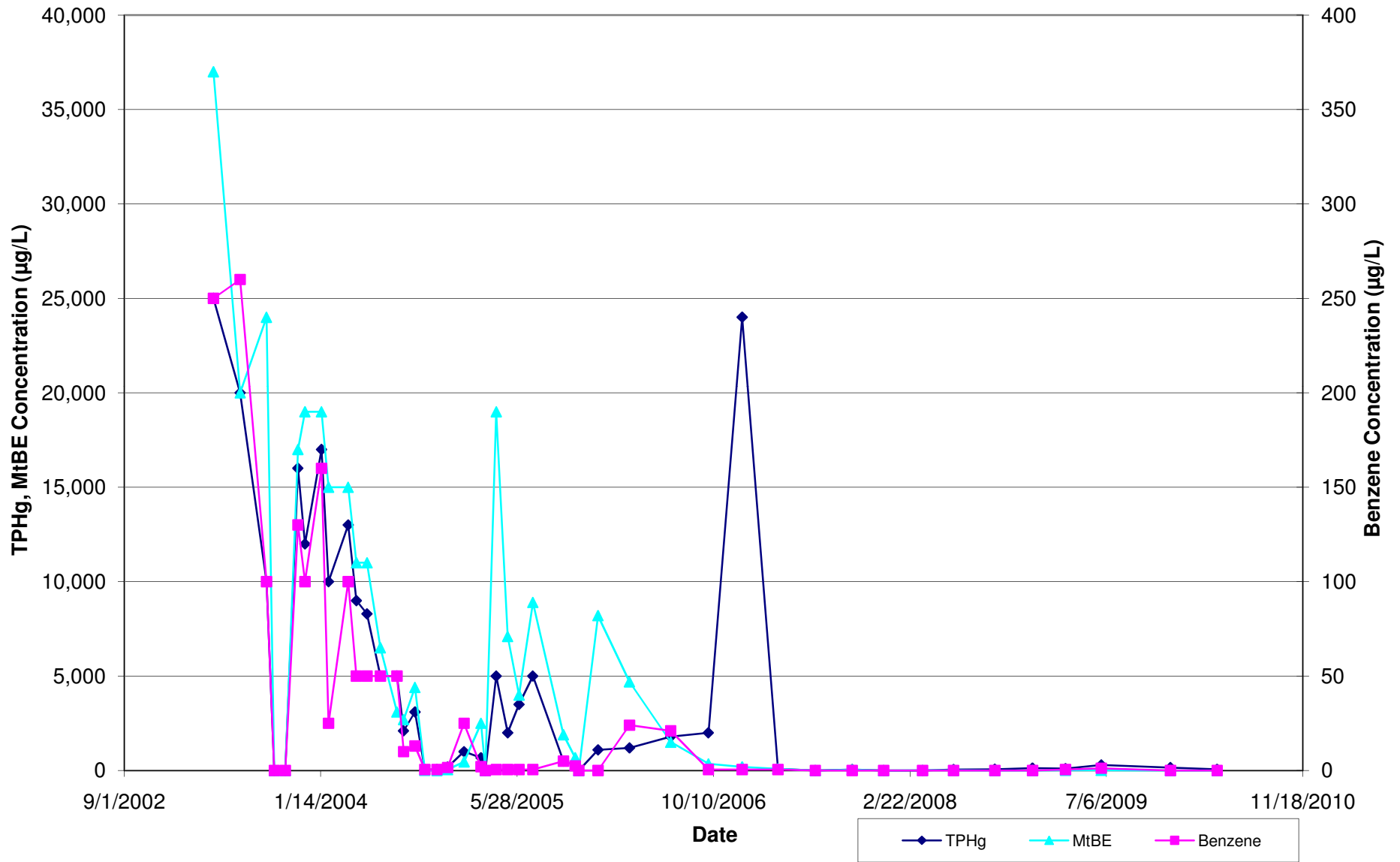
-- Data not available
NM Not Measured
a Sampled by Gettler-Ryan, Inc.
b Hydrocarbon in gasoline range does not match laboratory gasoline standard.
c ORP reading under the range
d Quantity of unknown hydrocarbon(s) in sample based on gasoline.
e Data not available at time of reporting
f MW-7 Estimated value of MtBE; concentration exceeded the calibration of analysis
g Car parked on MW-7.
h Data not available at time of reporting
i Siloxane peaks were found in the sample which are not believed to be gasoline related. If they were to be quantified as gasoline, the concentration would be 58 ug/L. (MW-1).
j The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern. (MW-1)
k Monthly sampling discontinued at the request of ConocoPhillips

Graphs

Graph 1
MW-1 TPHg, Benzene, and MtBE Groundwater Concentrations
 76 Service Station No. 1871
 96 MacArthur Blvd., Oakland, California



Graph 2
MW-7 TPHg, Benzene, and MtBE Groundwater Concentrations
 76 Service Station No. 1871
 96 MacArthur Blvd., Oakland, California



Appendix A
Field Notes

Ozone Injection System Data Sheet

Station No.: 1871

City: Oakland

| Date | Notes | Status ON/OFF | Cycles/Day | Hour Meter | Well I.D. 02-1 | | | | Well I.D. 02-2 | | | | Well I.D. 02-3 | | | |
|------------|-------|---------------|------------|------------|----------------|-------|----------|-----------|----------------|-------|----------|-----------|----------------|-------|----------|-----------|
| | | | | | Pressure | Temp. | Run Time | Flow Rate | Pressure | Temp. | Run Time | Flow Rate | Pressure | Temp. | Run Time | Flow Rate |
| | | | | | (psi) | (°F) | (min) | (acfm) | (psi) | (°F) | (min) | (acfm) | (psi) | (°F) | (min) | (acfm) |
| 29 June 10 | | on | 20 | 2798 | 24 | | 7 | | 21 | | 7 | | 22 | | 7 | |
| 27 July 10 | | on | 20 | 28467 | 22 | | 7 | | 18 | | 7 | | 20 | | 7 | |
| 31 Aug 10 | | on | 20 | 29200 | 22 | | 7 | | 18 | | 7 | | 24 | | 7 | |

| Date | Well I.D. 02-4 | | | | Well I.D. 02-5 | | | | Well I.D. 02-6 | | | | Well I.D. 02-7 | | | |
|------------|----------------|-------|----------|-----------|----------------|-------|----------|-----------|----------------|-------|----------|-----------|----------------|-------|----------|-----------|
| | Pressure | Temp. | Run Time | Flow Rate | Pressure | Temp. | Run Time | Flow Rate | Pressure | Temp. | Run Time | Flow Rate | Pressure | Temp. | Run Time | Flow Rate |
| | (psi) | (°F) | (min) | (acfm) | (psi) | (°F) | (min) | (acfm) | (psi) | (°F) | (min) | (acfm) | (psi) | (°F) | (min) | (acfm) |
| 29 June 10 | 24 | | 7 | | 22 | | 7 | | 20 | | 7 | | 21 | | 7 | |
| 27 July 10 | 22 | | 7 | | 20 | | 7 | | 17 | | 7 | | 19 | | 7 | |
| 31 Aug 10 | 15 | | 7 | | 13 | | 7 | | 14 | | 7 | | 16 | | 7 | |

| Date | Well I.D. 02-8 | | | | Well I.D. 02-9 | | | | Well I.D. 02-10 | | | | Well I.D. | | | |
|------------|----------------|-------|----------|-----------|----------------|-------|----------|-----------|-----------------|-------|----------|-----------|-----------|-------|----------|-----------|
| | Pressure | Temp. | Run Time | Flow Rate | Pressure | Temp. | Run Time | Flow Rate | Pressure | Temp. | Run Time | Flow Rate | Pressure | Temp. | Run Time | Flow Rate |
| | (psi) | (°F) | (min) | (acfm) | (psi) | (°F) | (min) | (acfm) | (psi) | (°F) | (min) | (acfm) | (psi) | (°F) | (min) | (acfm) |
| 29 June 10 | 22 | | 7 | | 24 | | 7 | | 23 | | 7 | | | | | |
| 27 July 10 | 18 | | 7 | | 21 | | 7 | | 20 | | 7 | | | | | |
| 31 Aug 10 | 10 | | 7 | | 17 | | 7 | | 8 | | 7 | | | | | |

Ozone System Maintenance and Inspection Log

| Date | Check/Repair Leaks | Check Hoses Fittings & Pipes | Check Air Filter (Document Date Replaced) | Check & Test Safety Interlock | Check Sparge Blower V-Belt Tension & Conditions | Check Controller Program | Change Blower Oil | Sparge Blower Grease Bearings | Sparge Blower Repair/Replace | Comments |
|------------|--------------------|------------------------------|---|-------------------------------|---|--------------------------|-------------------|-------------------------------|------------------------------|----------|
| 29 June 10 | OK | OK | OK | OK | N/A | OK | N/A | N/A | OK | |
| 27 July 10 | OK | OK | OK | OK | N/A | OK | N/A | N/A | OK | |
| 31 Aug 10 | OK | OK | OK | OK | N/A | OK | N/A | N/A | OK | |

Notes:

A = System down-breaker thrown

B = Compressor Overload.

C = Ozone sensor Tripped.

D = Temp. sensor tripped.

ATTACHMENT D

Fourth Quarter 2010 Ozone Injection O&M Report

December 15, 2010

One Technology, Suite B-123
 Irvine, California 92618
 tel 949.486.0884
 fax 949.486.0885
 environstrategy.com

Mr. Jim Barnard
 Delta Environmental Consultants Inc
 3164 Gold Camp Road Suite 200
 Rancho Cordova, CA 95670

Project No. 400-A

Fourth Quarter 2010
Ozone Injection System O&M Report
76 Service Station No. 1871
 96 MacArthur Boulevard
 Oakland, California

Dear Mr. Barnard:

Environ Strategy Consultants, Inc. is pleased to submit this ozone injection system operation and maintenance (O&M) report for 76 Service Station No. 1871, located at 96 MacArthur Boulevard, Oakland, California. An ozone injection system was started on June 23, 2003 to remediate hydrocarbon-impacted groundwater.

| | |
|--|----------------------------------|
| Type of Remediation System: | KVA Ozone Injection System |
| Operation Data During: Reporting Period: Sept. 1, 2010 – Nov. 30, 2010 | Period hours of operation: 2,184 |
| System Operation Data Since Startup: June 23, 2003 | Total Hours of Operation: 39,569 |
| Note: | |

Environ Strategy appreciates the opportunity to be of service. If you have any questions or require additional information regarding this report, please do not hesitate to contact us at (949) 486-0884, or by email at tyler@environstrategy.com.

Respectfully submitted,



Tyler Colopy
Staff Scientist



Jinghui Niu, P.E.
Principal Engineer



Fourth Quarter 2010 O&M Report

76 Service Station No. 1871

December 15, 2010

Page 2

Attachments: Figure - Site Plan

Table 1 - Ozone Injection - System Operation Data

Table 2 - Ozone Injection - Groundwater Monitoring Data

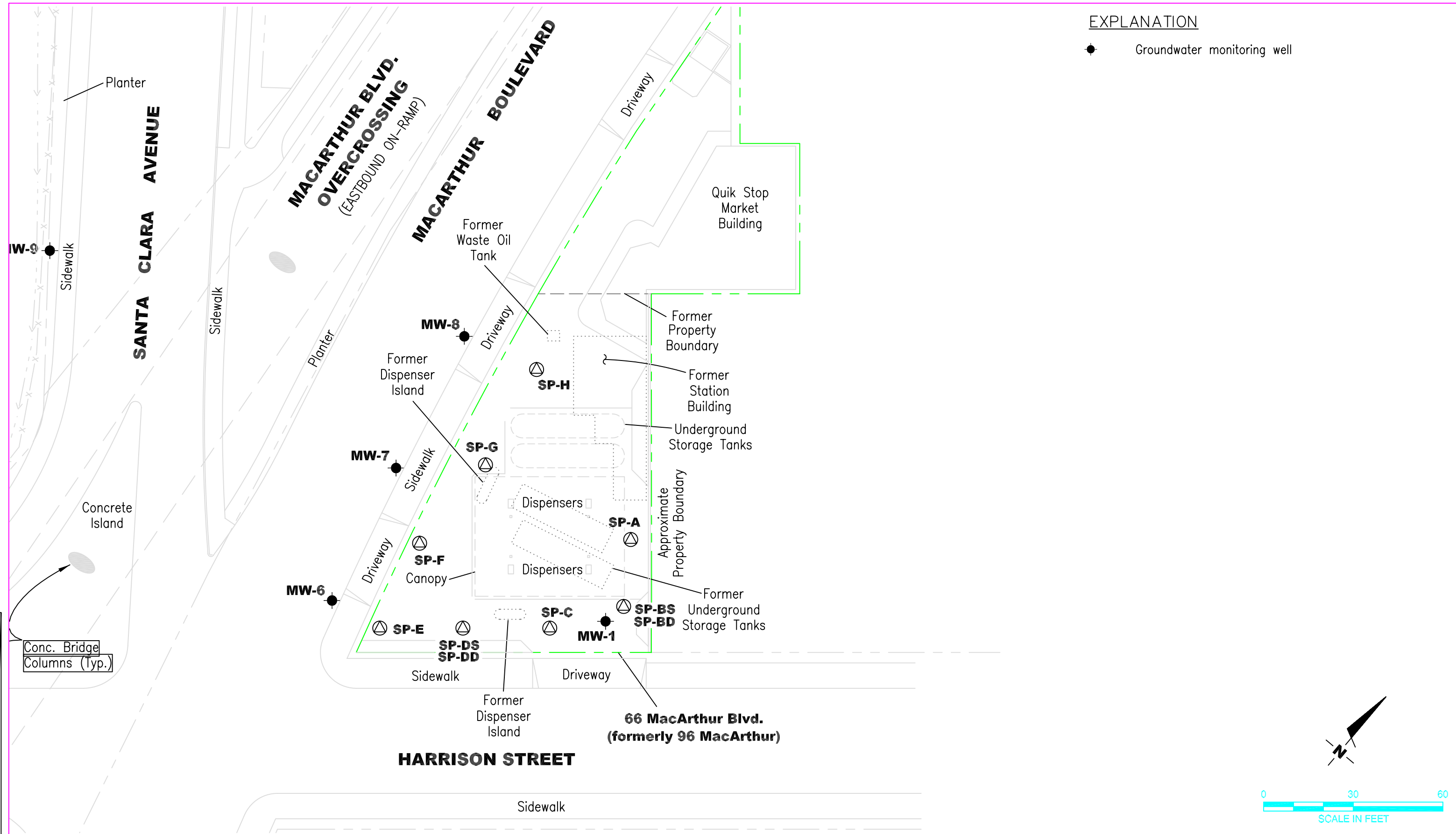
Graph 1 - MW-1 TPHg, Benzene, and MtBE Groundwater Concentrations

Graph 2 - MW-7 TPHg, Benzene, and MtBE Groundwater Concentrations

Appendix A - Field Notes

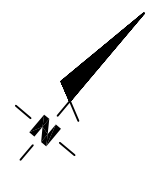
cc: Ted Moise, ConocoPhillips Company (electronic copy)

Figure



EXPLANATION

● Groundwater monitoring well



Source: Caltrans As-Built Plans and Right of Way Maps confirmed by field observations

| | |
|-----------|---------------|
| DRAWN BY: | MD |
| CHECKED: | AD |
| APPROVED: | RB |
| DATE: | 3/22/04 PR |
| JOB NO.: | 77CP.60004.01 |
| CAD FILE: | SITEPLAN |


 environ strategy consultants, inc.
 ONE TECHNOLOGY, SUITE B-123
 IRVINE, CA

PREPARED FOR:
CONOCOPHILLIPS
76 STATION #1871
 96 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

FIGURE 1
 SITE PLAN

Tables

Table 1
Ozone Injection - System Operation Data
76 Service Station No. 1871
96 MacArthur Blvd., Oakland, California
Page 1 of 4

| Date | Notes | OZONE SPARGE SYSTEM | | | | | | SP-A | SP-BS | SP-BD | SP-C | SP-DS | SP-DD | SP-E | SP-F | SP-G | SP-H | |
|----------|-------|------------------------|-----------|-------------------|----------------------|--------------------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | System Status (On/Off) | | Hourmeter Reading | Period Online Factor | Cumulative Online Factor | Ozone Injected (lbs) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) |
| | | Arrival | Departure | | | | | | | | | | | | | | | |
| 6/23/03 | | On | On | 8807.26 | -- | 0.95 | -- | 20 | 18 | 19 | 20 | 21 | 23 | 20 | 26 | 14 | 26 | |
| 7/16/03 | | Off | On | 8850.46 | 0.09 | 0.91 | 0.39 | 27 | 18 | 31 | 40 | 28 | 29 | 31 | 38 | 24 | 25 | |
| 8/30/03 | | On | On | 9180.61 | 0.35 | 0.86 | 2.97 | 17 | 15 | 17 | 19 | 19 | 19 | 20 | 26 | 19 | 26 | |
| 9/18/03 | | On | On | 9327.43 | 0.37 | 0.84 | 1.32 | 13.5 | 14.7 | 17.0 | 16.3 | 16.0 | 19.7 | 16.8 | 19.8 | 15.7 | 20 | |
| 10/16/03 | | On | On | -- | -- | 0.84 | -- | 27.0 | 19.5 | 40.8 | 39.0 | 40.8 | 38.5 | 34.2 | 46.4 | 24.2 | 39.8 | |
| 11/17/03 | | On | On | 9696.55 | 0.29 | 0.81 | -- | 11.0 | 20.0 | 17.0 | 18.0 | 17.5 | 17.0 | 16.0 | 21.0 | 51.0 | 22.0 | |
| 12/5/03 | | On | On | 9804.98 | 0.29 | 0.80 | 0.98 | 33.0 | 21.0 | 44.0 | 40.0 | 43.0 | 39.0 | 33.5 | 44.0 | 26.0 | 33.0 | |
| 1/16/04 | | On | On | 10471.28 | 0.76 | 0.79 | 6.00 | 12.5 | 11.0 | 18.5 | 16.5 | 17.5 | 17.0 | 16.0 | 20.0 | 16.0 | 20.0 | |
| 2/3/04 | | On | On | 10727.69 | 0.68 | 0.79 | 2.31 | 12.3 | 11.5 | 18.2 | 16.5 | 18.2 | 17.3 | 16.0 | 19.0 | 16.0 | 18.2 | |
| 3/24/04 | | On | On | 11424.95 | 0.66 | 0.78 | 6.28 | 31.0 | 18.3 | 37.5 | 26.0 | 34.0 | 33.2 | 32.3 | 41.5 | 23.0 | 31.0 | |
| 4/14/04 | | On | On | 11676.10 | 0.57 | 0.77 | 2.26 | 32.0 | 19.0 | 38.7 | 26.0 | 37.7 | 37.1 | 32.8 | 41.8 | 23.8 | 29.5 | |
| 4/15/04 | a | On | On | 11685.29 | 0.44 | 0.77 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 4/16/04 | a | On | On | 11693.80 | 0.41 | 0.77 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 4/19/04 | a | On | On | 11742.90 | 0.78 | 0.77 | 0.44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 4/23/04 | a | On | On | 11773.10 | 0.36 | 0.77 | 0.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 5/4/04 | | Off | On | 11837.70 | 0.28 | 0.76 | 0.58 | 32.2 | 20.5 | 39.4 | 36.2 | 38.1 | 32.0 | 33.5 | 60.0 | 25.8 | 33.1 | |
| 5/11/04 | | On | On | 11950.51 | 0.77 | 0.76 | 1.02 | 32.5 | 20.0 | 38.5 | 29.8 | 38.8 | 39.5 | 34.8 | 60.0 | 23.5 | 35.9 | |
| 6/14/04 | b,c | On | On | 12464.64 | 0.72 | 0.76 | 4.63 | 20.0 | 21.0 | 38.8 | 27.2 | 37.0 | 38.2 | 35.2 | 60.0 | 24.0 | 32.1 | |
| 7/29/04 | d | On | On | 844.62 | 0.99 | 0.77 | 7.60 | 22 | 15 | -- | 26 | 35 | 34 | 35 | -- | 25 | 33 | |
| 8/12/04 | e | On | On | 1075.97 | 0.98 | 0.78 | 2.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/10/04 | | On | On | 1490.23 | 0.85 | 0.78 | 3.73 | 32 | 32 | 33 | 33 | 21 | 24 | 30 | 20 | 26 | 30 | |
| 10/5/04 | | On | On | 1868.83 | 0.90 | 0.78 | 3.41 | 31 | 32 | 33 | 31 | 22 | 23 | 31 | 21 | 26 | 28 | |
| 11/5/04 | | On | On | 2360.90 | 0.93 | 0.79 | 4.43 | 22 | 26 | 12 | 18 | 12 | 22 | 30 | 32 | 26 | 22 | |
| 12/2/04 | f | Off | Off | 2802.02 | 0.97 | 0.79 | 3.97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 1/13/05 | | Off | On | 2802.07 | 0.00 | 0.76 | 0.00 | 23 | 27 | 15 | 20 | 15 | 23 | 31 | 34 | 28 | 25 | |
| 2/25/05 | g | Off | Off | 2802.42 | 0.00 | 0.73 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 3/8/05 | h,i | Off | Off | 2802.42 | 0.00 | 0.72 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 4/5/05 | i | Off | Off | 2802.42 | 0.00 | 0.70 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 5/4/05 | j | Off | On | 2802.49 | 0.00 | 0.69 | 0.00 | 14 | 11 | 16 | 12 | 20 | 27 | 25 | 29 | 25 | 31 | |
| 6/2/05 | k | On | On | 3407.97 | 1.00 | 0.69 | 5.45 | 35 | 25 | Off | 40 | 41 | 36 | 35 | 34 | 27 | 25 | |
| 7/7/05 | k,l,m | On | On | 4067.42 | 1.29 | 0.71 | 5.94 | 31 | 23 | Off | 30 | Off | 26 | 32 | 28 | 25 | Off | |
| 8/26/05 | n | On | On | 4665.98 | 0.81 | 0.72 | 5.39 | 13 | 13 | Off | 14 | Off | 13 | 12 | 12 | 13 | Off | |
| 9/23/05 | o | On | On | 4947.97 | 0.69 | 0.71 | 2.54 | 16 | 15 | Off | Off | Off | 16 | 16 | 16 | 16 | Off | |
| 10/23/05 | p | On | On | 5264.28 | 0.72 | 0.71 | 2.85 | 16 | 16 | Off | Off | Off | 16 | 16 | 16 | 16 | Off | |
| 11/11/05 | q,r | On | Off | 0.90 | -- | 0.71 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 11/15/05 | s | Off | On | 0.90 | 0.00 | 0.71 | 0.00 | 35 | 16 | 16 | 22 | 23 | 18 | 23 | 23 | 23 | 24 | |
| 12/6/05 | t | Off | On | 2.49 | 0.00 | 0.70 | 0.01 | 22 | 20 | 19 | 24 | 24 | 22 | 26 | 23 | 24 | 25 | |
| 1/4/06 | u | Off | On | 6 | 0.01 | 0.69 | 0.03 | 20 | 20 | 18 | 17 | 23 | 20 | 25 | 19 | 22 | 20 | |
| 1/18/06 | u | Off | On | 203 | 0.67 | 0.69 | 1.77 | 22 | 19 | 19 | 20 | 19 | 18 | 21 | 22 | 22 | 23 | |
| 2/1/06 | v | Off | On | 316 | 0.38 | 0.68 | 1.02 | 20 | 20 | 18 | 22 | 22 | 18 | 23 | 23 | 22 | 25 | |
| 2/15/06 | v | Off | On | 344 | 0.10 | 0.68 | 0.25 | 20 | 19 | 18 | 17 | 19 | 20 | 23 | 19 | 22 | 20 | |
| 3/1/06 | v | Off | On | 417 | 0.25 | 0.67 | 0.66 | 21 | 20 | 19 | 19 | 21 | 17 | 24 | 23 | 21 | 21 | |

Table 1
Ozone Injection - System Operation Data
76 Service Station No. 1871
96 MacArthur Blvd., Oakland, California
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| Date | Notes | OZONE SPARGE SYSTEM | | | | | | SP-A | SP-BS | SP-BD | SP-C | SP-DS | SP-DD | SP-E | SP-F | SP-G | SP-H |
|----------|-------|------------------------|-----------|-------------------|----------------------|--------------------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | System Status (On/Off) | | Hourmeter Reading | Period Online Factor | Cumulative Online Factor | Ozone Injected (lbs) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) |
| | | Arrival | Departure | | | | | | | | | | | | | | |
| 3/16/06 | u | Off | On | 501 | 0.27 | 0.67 | 0.76 | 20 | 19 | 18 | 17 | 19 | 20 | 23 | 20 | 22 | 20 |
| 3/29/06 | u | Off | On | 560 | 0.22 | 0.67 | 0.53 | 20 | 20 | 19 | 19 | 20 | 21 | 25 | 21 | 22 | 21 |
| 4/16/06 | u | Off | On | 624 | 0.17 | 0.66 | 0.58 | 20 | 19 | 18 | 17 | 19 | 20 | 23 | 20 | 23 | 21 |
| 4/25/06 | u | Off | On | 718 | 0.50 | 0.66 | 0.85 | 20 | 20 | 19 | 18 | 20 | 22 | 24 | 21 | 22 | 20 |
| 5/9/06 | u | Off | On | 776 | 0.20 | 0.65 | 0.52 | 20 | 19 | 19 | 17 | 19 | 21 | 22 | 20 | 22 | 20 |
| 5/23/06 | u | Off | On | 834 | 0.20 | 0.65 | 0.52 | 19 | 20 | 18 | 18 | 20 | 20 | 23 | 20 | 23 | 21 |
| 6/6/06 | u | Off | On | 1,042 | 0.71 | 0.65 | 1.87 | 20 | 19 | 18 | 17 | 19 | 20 | 23 | 20 | 22 | 20 |
| 6/20/06 | w | Off | On | 1,206 | 0.56 | 0.65 | 1.48 | 19 | 20 | 18 | 18 | 19 | 20 | 25 | 21 | 23 | 21 |
| 7/7/06 | x | Off | Off | 1,313 | 0.30 | 0.65 | 0.96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 7/28/06 | y | Off | On | 1,313 | 0.00 | 0.64 | 0.00 | 19 | 17 | 16 | 19 | 24 | 17 | 22 | 19 | 21 | 23 |
| 8/15/06 | u | Off | On | 1,616 | 0.80 | 0.64 | 2.73 | 19 | 17 | 17 | 16 | 19 | 19 | 23 | 19 | 21 | 21 |
| 8/29/06 | u | Off | On | 1,801 | 0.63 | 0.64 | 1.67 | 19 | 19 | 17 | 17 | 21 | 18 | 21 | 19 | 22 | 23 |
| 9/12/06 | u | Off | On | 2,022 | 0.75 | 0.64 | 1.99 | 23 | 19 | 17 | 16 | 19 | 19 | 25 | 19 | 22 | 21 |
| 9/22/06 | u | Off | On | 2,204 | 0.87 | 0.64 | 1.64 | 21 | 21 | 19 | 20 | 23 | 21 | 26 | 23 | 25 | 27 |
| 10/4/06 | u | Off | On | 2,313 | 0.43 | 0.64 | 0.98 | 18 | 18 | 17 | 18 | 18 | 18 | 25 | 23 | 22 | 21 |
| 10/18/06 | u | Off | On | 2,401 | 0.30 | 0.64 | 0.79 | 20 | 19 | 17 | 16 | 18 | 19 | 20 | 20 | 21 | 27 |
| 10/31/06 | w | Off | On | 2,516 | 0.42 | 0.63 | 1.04 | 22 | 20 | 19 | 20 | 19 | 19 | 23 | 21 | 25 | 23 |
| 11/14/06 | u | Off | On | 2,636 | 0.41 | 0.63 | 1.08 | 18 | 18 | 17 | 17 | 18 | 18 | 22 | 24 | 22 | 24 |
| 11/28/06 | u | Off | On | 2,744 | 0.37 | 0.63 | 0.97 | 20 | 20 | 19 | 20 | 22 | 21 | 25 | 25 | 22 | 23 |
| 12/14/06 | u | Off | On | 2,801 | 0.17 | 0.63 | 0.51 | 19 | 19 | 18 | 18 | 19 | 19 | 22 | 22 | 23 | 22 |
| 12/26/06 | u | Off | On | 2,906 | 0.42 | 0.62 | 0.95 | 20 | 20 | 19 | 20 | 21 | 20 | 25 | 25 | 20 | 24 |
| 1/15/07 | u | Off | On | 2,983 | 0.18 | 0.62 | 0.69 | 19 | 20 | 18 | 18 | 19 | 19 | 22 | 23 | 22 | 22 |
| 1/29/07 | v | Off | On | 3,076 | 0.32 | 0.62 | 0.84 | 20 | 20 | 19 | 20 | 20 | 20 | 24 | 21 | 23 | 24 |
| 2/6/07 | u | Off | On | 3,156 | 0.48 | 0.62 | 0.72 | 19 | 20 | 18 | 17 | 19 | 19 | 21 | 24 | 21 | 23 |
| 2/21/07 | u | Off | On | 3,303 | 0.47 | 0.62 | 1.32 | 20 | 21 | 20 | 20 | 18 | 21 | 23 | 21 | 25 | 23 |
| 3/5/07 | u | Off | On | 3,378 | 0.30 | 0.61 | 0.68 | 19 | 20 | 18 | 18 | 18 | 20 | 21 | 23 | 22 | 22 |
| 3/19/07 | u | Off | On | 3,476 | 0.33 | 0.61 | 0.88 | 20 | 21 | 20 | 19 | 18 | 21 | 23 | 24 | 23 | 24 |
| 4/4/07 | u | Off | On | 3,515 | 0.12 | 0.61 | 0.35 | 19 | 20 | 18 | 17 | 18 | 19 | 21 | 21 | 21 | 22 |
| 4/18/07 | u | Off | On | 3,606 | 0.31 | 0.60 | 0.82 | 21 | 21 | 20 | 20 | 18 | 21 | 24 | 24 | 24 | 23 |
| 5/10/07 | u | Off | On | 3,676 | 0.15 | 0.60 | 0.63 | 19 | 20 | 19 | 17 | 18 | 19 | 20 | 23 | 20 | 21 |
| 5/25/07 | u | Off | On | 3,758 | 0.26 | 0.60 | 0.74 | 22 | 21 | 20 | 19 | 19 | 21 | 22 | 22 | 22 | 23 |
| 6/4/07 | u | Off | On | 3,801 | 0.18 | 0.59 | 0.39 | 18 | 20 | 18 | 18 | 17 | 19 | 19 | 20 | 21 | 20 |
| 6/18/07 | | On | On | 4,137 | 1.00 | 0.60 | 3.02 | 20 | 20 | 19 | 19 | 19 | 20 | 22 | 22 | 20 | 22 |
| 7/2/07 | | On | On | 4,373 | 0.70 | 0.60 | 2.12 | 15 | 21 | 19 | 18 | 20 | 19 | 24 | 21 | 21 | 23 |
| 7/16/07 | | On | On | 4,409 | 0.11 | 0.59 | 0.32 | 18 | 20 | 20 | 19 | 21 | 20 | 26 | 23 | 22 | 25 |
| 8/8/07 | | On | On | 4,961 | 1.00 | 0.60 | 4.97 | 13 | 20 | 20 | 18 | 20 | 18 | 29 | 22 | 20 | 24 |
| 8/27/07 | | On | On | 5,411 | 0.99 | 0.60 | 4.05 | 14 | 21 | 19 | 20 | 21 | 19 | 30 | 20 | 21 | 21 |
| 9/13/07 | | On | On | 5,822 | 1.00 | 0.61 | 3.70 | 22 | 21 | 21 | 23 | 21 | 22 | 30 | 20 | 21 | 21 |
| 9/27/07 | | On | On | 6,155 | 0.99 | 0.61 | 3.00 | 28 | 25 | 25 | 27 | 25 | 26 | 32 | 21 | 26 | 25 |
| 10/29/07 | | On | On | 6,917 | 0.99 | 0.62 | 6.86 | 28 | 25 | 24 | 25 | 33 | 32 | 32 | 21 | 30 | 30 |
| 11/26/07 | | On | On | 7,591 | 1.00 | 0.62 | 6.07 | 26 | 22 | 24 | 25 | 31 | 30 | 32 | 22 | 30 | 30 |
| 12/31/07 | | On | On | 8,425 | 0.99 | 0.63 | 7.51 | 26 | 20 | 24 | 24 | 30 | 32 | 32 | 30 | 28 | 30 |
| 1/28/08 | | On | On | 9,103 | 1.01 | 0.63 | 6.10 | 26 | 21 | 22 | 21 | 26 | 30 | 28 | 26 | 27 | 27 |
| 2/25/08 | | On | On | 9,778 | 1.00 | 0.64 | 6.08 | 23 | 19 | 22 | 20 | 25 | 30 | 30 | 28 | 27 | 28 |

Table 1
Ozone Injection - System Operation Data
76 Service Station No. 1871
96 MacArthur Blvd., Oakland, California
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| Date | Notes | OZONE SPARGE SYSTEM | | | | | | SP-A | SP-BS | SP-BD | SP-C | SP-DS | SP-DD | SP-E | SP-F | SP-G | SP-H |
|---|-------|------------------------|-----------|-------------------|----------------------|--------------------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | System Status (On/Off) | | Hourmeter Reading | Period Online Factor | Cumulative Online Factor | Ozone Injected (lbs) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) | Pressure (psi) |
| | | Arrival | Departure | | | | | | | | | | | | | | |
| 3/24/08 | | On | On | 10,475 | 1.00 | 0.64 | 6.27 | 25 | 20 | 21 | 20 | 24 | 30 | 28 | 27 | 26 | 27 |
| 4/28/08 | | On | On | 11,317 | 1.00 | 0.65 | 7.58 | 24 | 22 | 20 | 22 | 22 | 30 | 29 | 24 | 26 | 26 |
| 5/26/08 | | On | On | 11,992 | 1.00 | 0.65 | 6.08 | 23 | 20 | 22 | 22 | 23 | 30 | 30 | 25 | 27 | 28 |
| 6/30/08 | | On | On | 12,828 | 1.00 | 0.66 | 7.52 | 25 | 22 | 21 | 23 | 22 | 31 | 29 | 26 | 27 | 26 |
| 7/28/08 | | On | On | 13,498 | 1.00 | 0.66 | 6.03 | 22 | 26 | 24 | 28 | 23 | 30 | 22 | 27 | 29 | 21 |
| 8/25/08 | | On | On | 14,261 | 1.00 | 0.66 | 6.87 | 18 | 15 | 25 | 14 | 19 | 22 | 23 | 25 | 24 | 20 |
| 9/29/08 | | On | On | 15,100 | 1.00 | 0.67 | 7.55 | 20 | 14 | 15 | 16 | 18 | 28 | 28 | 20 | 19 | 22 |
| 10/27/08 | z | On | On | 15,358 | 0.38 | 0.67 | 2.32 | 20 | 16 | 16 | 17 | 20 | 28 | 28 | 18 | 19 | 21 |
| 11/24/08 | | On | On | 16,028 | 1.00 | 0.67 | 6.03 | 20 | 15 | 15 | 15 | 18 | 25 | 25 | 18 | 16 | 20 |
| 12/29/08 | | On | On | 16,869 | 1.00 | 0.67 | 7.57 | 20 | 15 | 17 | 16 | 20 | 24 | 22 | 19 | 14 | 20 |
| 1/26/09 | | On | On | 17,542 | 1.00 | 0.68 | 6.06 | 22 | 17 | 16 | 16 | 21 | 25 | 20 | 18 | 15 | 22 |
| 2/23/09 | | On | On | 18,214 | 1.00 | 0.68 | 6.05 | 21 | 18 | 19 | 18 | 20 | 23 | 21 | 19 | 16 | 20 |
| 3/30/09 | | On | On | 19,005 | 0.94 | 0.69 | 7.12 | 20 | 19 | 17 | 17 | 22 | 22 | 21 | 18 | 16 | 21 |
| 4/27/09 | | On | On | 19,727 | 1.00 | 0.69 | 6.50 | 21 | 21 | 18 | 18 | 21 | 22 | 20 | 19 | 18 | 20 |
| 5/25/09 | | On | On | 20,400 | 1.00 | 0.69 | 6.06 | 22 | 20 | 17 | 16 | 20 | 21 | 21 | 20 | 19 | 19 |
| 6/22/09 | | On | On | 21,072 | 1.00 | 0.70 | 6.05 | 20 | 20 | 17 | 18 | 17 | 20 | 21 | 19 | 20 | 20 |
| 7/27/09 | | On | On | 21,912 | 1.00 | 0.70 | 7.56 | 22 | 21 | 18 | 19 | 16 | 22 | 22 | 21 | 19 | 18 |
| 8/3/09 | | On | Off | 22,080 | 1.00 | 0.70 | 1.51 | 21 | 20 | 20 | 21 | 18 | 21 | 20 | 20 | 21 | 19 |
| 11/4/09 | | Off | On | 22,080 | 0.00 | 0.68 | 0.00 | 20 | 19 | 19 | 20 | 17 | 20 | 19 | 18 | 19 | 17 |
| 12/30/09 | | On | On | 23,424 | 1.00 | 0.68 | 12.10 | 23 | 21 | 21 | 23 | 20 | 22 | 23 | 21 | 22 | 21 |
| 1/27/10 | | On | On | 24,096 | 1.00 | 0.69 | 6.05 | 21 | 20 | 20 | 22 | 21 | 24 | 23 | 20 | 24 | 23 |
| 2/24/10 | | On | On | 24,767 | 1.00 | 0.69 | 6.04 | 22 | 24 | 22 | 21 | 22 | 25 | 24 | 21 | 26 | 24 |
| 3/30/10 | | On | On | 25,607 | 1.00 | 0.69 | 7.56 | 20 | 21 | 22 | 23 | 19 | 23 | 22 | 22 | 25 | 23 |
| 4/27/10 | | On | On | 26,280 | 1.00 | 0.70 | 6.06 | 21 | 22 | 21 | 22 | 20 | 21 | 20 | 20 | 24 | 21 |
| 5/25/10 | | On | On | 26,953 | 1.00 | 0.70 | 6.06 | 22 | 24 | 23 | 21 | 21 | 22 | 21 | 22 | 23 | 22 |
| 6/29/10 | | On | On | 27,795 | 1.00 | 0.70 | 7.58 | 24 | 21 | 22 | 24 | 22 | 20 | 21 | 22 | 24 | 23 |
| 7/27/10 | | On | On | 28,467 | 1.00 | 0.71 | 6.05 | 21 | 18 | 20 | 22 | 20 | 17 | 19 | 18 | 21 | 20 |
| 8/31/10 | | On | On | 29,308 | 1.00 | 0.71 | 7.57 | 12 | 18 | 24 | 15 | 13 | 14 | 16 | 10 | 17 | 8 |
| 9/28/10 | | On | On | 29,980 | 1.00 | 0.71 | 6.05 | 11 | 18 | 15 | 19 | 20 | 17 | 23 | 16 | 15 | 20 |
| 10/26/10 | | On | On | 30,652 | 1.00 | 0.71 | 6.05 | 9 | 18 | 18 | 20 | 21 | 17 | 21 | 10 | 19 | 17 |
| 11/30/10 | | On | On | 31,492 | 1.00 | 0.72 | 7.56 | 13 | 22 | 19 | 18 | 28 | 20 | 19 | 15 | 17 | 19 |
| (6/23/2003-3/30/2009) Sparge time per cycle (min) | | | | | | | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| (4/27/2009 to 6/2/2009) Sparge Time per cycle (min) | | | | | | | | 7 | 7 | 7 | 7 | 8 | 8 | 7 | 7 | 7 | 7 |
| (6/2/2009 to present) Sparge Time per cycle (min) | | | | | | | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Number of Cycles per Day | | | | | | | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Reporting Period: Fourth Quarter 2010 (09/01/2010 to 11/30/2010) | | | | | | | | | | | | | | | | | |
| Total Hours Operational: 39,569 | | | | | | | | | | | | | | | | | |
| Total Pounds Ozone Injected: 356 | | | | | | | | | | | | | | | | | |
| Period Hours Operational: 2184 | | | | | | | | | | | | | | | | | |
| Period Percent Operational: 100% | | | | | | | | | | | | | | | | | |
| Period Pounds Ozone Injected: 20 | | | | | | | | | | | | | | | | | |

Table 1
Ozone Injection - System Operation Data
76 Service Station No. 1871
96 MacArthur Blvd., Oakland, California
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Definitions:

| | |
|-----|------------------------|
| psi | Pounds per square inch |
| -- | Data not available |
| NA | Not applicable |
| lbs | Pounds |

Notes:

Hour Meter Formula adjusted 12/19/07

June 4, 2007 - Control Panel retrofit installed.

August 3, 2009 - Ozone down by request of COP PM

November 4, 2009 - System restarted

System cycles through program 18 times per day, for 53% utilization

- a Troubleshooting time counter
- b Hourmeter replaced
- c Solenoid 8 has high pressure, taken offline
- d Solenoid 3 leaking, taken off line
- e Pressures not properly recorded
- f Ozone generator hose ruptured on effluent side to solenoid manifold. No Readings.
- g System down due to bad GFI
- h New GFI was installed.
- i Fan in compressor broken and tubing from compressor to manifold needs to be replaced. System left off until repairs made.
- j Installed new motor fan and manifold fittings, restarted system.
- k OZ-3 turned off due to high pressure of over 60 psi.
- l OZ-5 too brittle. Left off until lines are replaced.
- m OZ-10 turned off due to leak in secondary containment
- n Hourmeter reading not correct, will check next visit
- o Hourmeter not working properly.
- p Pressure gauge stuck at 16 psi.
- q New hourmeter, panel fan, and GFCI installed
- r Fuse blown in ozone generator, system left off
- s Replaced tubing to all wells and replaced ozone generator circuit board and pressure gauge
- t System down due to tripped GFI; foam on door may have been pressing reset button. Foam removed.
- u Ozone sensor tripped; system restarted.
- v Rainbird meter malfunction.
- w System down time due to tripped GFI; system restarted.
- x System off due to bad compressor.
- y Compressor repaired; system restarted.
- z September 10-27,2008 - System down for well repair.

Table 2
Ozone Injection - Groundwater Monitoring Data
 76 Service Station No. 1871
 96 MacArthur Blvd., Oakland, California
 Page 1 of 1

| Date | Notes | Monitoring Well: MW-1 | | | | | | | | Monitoring Well: MW-7 | | | | | | | |
|------------|-------|-----------------------|-----------|-------------|----------------|----------------|----------------------|------------------------|-------------|-----------------------|-----------|-------------|----------------|----------------|----------------------|------------------------|-------------|
| | | ORP (mV) | DO (mg/l) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylenes (total) (µg/L) | MtBE (µg/L) | ORP (mV) | DO (mg/l) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylenes (total) (µg/L) | MtBE (µg/L) |
| 4/16/2003 | a | NM | NM | 510 | 57 | 0.62 | 29 | 61 | 160 | NM | NM | <25,000 | <250 | <250 | <250 | <50 | 37,000 |
| 6/23/2003 | a | NM | NM | 75 | <0.50 | <0.50 | <0.50 | 5.3 | 12 | NM | NM | 20,000 | 260 | <0.50 | <0.50 | <1.0 | 20,000 |
| 8/29/2003 | a | NM | NM | 11,000 | 64 | <10 | 330 | 1,400 | 440 | NM | NM | <10,000 | <100 | <100 | <100 | <200 | 24,000 |
| 9/18/2003 | | NM | NM | 390 | 2.3 | <0.50 | 3.6 | 31 | 30 | NM | NM | -- | -- | -- | -- | -- | -- |
| 10/16/2003 | | NM | NM | 2,100 | 6.0 | <0.50 | 24.0 | 120 | 110 | NM | NM | -- | -- | -- | -- | -- | -- |
| 11/17/2003 | | NM | NM | 130 | 0.51 | <0.50 | 2.1 | 7.9 | 43 | NM | NM | 16,000 | <130 | <130 | <130 | <250 | 17,000 |
| 12/5/2003 | | NM | NM | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 36 | NM | NM | 12,000 | <100 | <100 | <100 | <200 | 19,000 |
| 1/16/2004 | b | NM | NM | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <2.0 | NM | NM | 17,000 | 160 | 270 | <130 | <250 | 19,000 |
| 2/3/2004 | | 238 | NM | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <2.0 | 72 | NM | 10,000 | <25 | <25 | <25 | <50 | 15,000 |
| 3/24/2004 | b | 169 | NM | 55 | <0.50 | <0.50 | 0.80 | 2.9 | 7.8 | 56 | NM | 13,000 | <100 | <100 | <100 | <200 | 15,000 |
| 4/14/2004 | b | 0.4 | NM | 23,000 | 310 | 10 | 590 | 2400 | 1700 | 42 | NM | 9,000 | <50 | <50 | <50 | <100 | 11,000 |
| 5/11/2004 | c | NM | NM | 7,800 | 160 | <10 | 170 | 700 | 720 | -3 | NM | 8,300 | <50 | <50 | <50 | <100 | 11,000 |
| 6/14/2004 | | 20 | 5.25 | 110 | <0.50 | <0.50 | 1.0 | 6.4 | 3.4 | 35 | 1.45 | <5,000 | <50 | <50 | <50 | <100 | 6,500 |
| 7/26/2004 | | NM | NM | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 3.2 | NM | NM | <5,000 | <50 | <50 | <50 | <100 | 3,100 |
| 8/12/2004 | | 171 | 0.07 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 0.80 | 117 | 0.06 | 2,100 | <10 | <10 | <10 | <20 | 2,700 |
| 9/10/2004 | | 180 | 0.08 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 5.7 | 122 | 0.07 | 3,100 | <13 | <13 | <13 | <25 | 4,400 |
| 10/5/2004 | | 175 | 0.09 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 117 | 0.08 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 7.1 |
| 11/5/2004 | d | 117 | 0.05 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 0.89 | 210 | 0.06 | 50 | <0.50 | <0.50 | <0.50 | <1.0 | 1.1 |
| 12/2/2004 | | 109 | 0.03 | 83 | 0.83 | <0.50 | <0.50 | 1.2 | 44 | 214 | 0.03 | 180 | 1.6 | <0.50 | 66 | 4.5 | 51 |
| 1/13/2005 | | 105 | 0.04 | 1,100 | 26 | 1.2 | 2.10 | 70 | 630 | 201 | 0.05 | 1,000 | 25 | 1 | 1.9 | 68 | 460 |
| 2/25/2005 | c,f | -- | 2.67 | 24,000 | 350 | 10 | 820 | 2,200 | 1,300 | 21 | 2.05 | 680 | <2.0 | <2.0 | 2.3 | 58 | 2,500 |
| 3/8/2005 | g | -35 | 4.43 | 23,000 | 410 | <10 | 1,100 | 2,300 | 1,300 | NR | NR | -- | -- | -- | -- | -- | -- |
| 4/5/2005 | | -30 | 4.56 | 34,000 | 300 | <10 | 910 | 2,000 | 1,100 | 135 | 6.53 | <5,000 | <50 | <50 | <50 | <1.00 | 19,000 |
| 5/4/2005 | | -59 | 2.40 | 26,000 | 220 | 7.4 | 790 | 2,100 | 860 | -24 | 1.13 | <2,000 | <0.50 | <0.50 | <0.50 | <1.0 | 7,100 |
| 6/2/2005 | | -20 | 7.34 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 3.5 | -12 | 1.01 | 3500 | <0.50 | <0.50 | <0.50 | <1.0 | 4,000 |
| 7/7/2005 | i,j | 142 | 7.42 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 0.61 | 154 | 1.40 | 5000 | <0.50 | <0.50 | <0.50 | <1.0 | 8,900 |
| 9/23/2005 | | 16 | 7.77 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 56 | 1.39 | <500 | <5.0 | <5.0 | <5.0 | <10 | 1,900 |
| 10/23/2005 | | 154 | 7.13 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 0.56 | 191 | 1.59 | <250 | <2.5 | <2.5 | <2.5 | <5 | 680 |
| 11/1/2005 | k | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/20/2005 | | -- | -- | 10000 | 17 | 29 | 180 | 840 | 2400 | -- | -- | 1100 | 0.90 | <0.50 | 24 | 37 | 8200 |
| 3/10/2006 | | -- | -- | 10000 | 35 | <0.50 | 470 | 1300 | 960 | -- | -- | 1200 | 24 | <0.50 | 3.6 | <1.0 | 4700 |
| 6/23/2006 | | -- | -- | 11000 | 110 | <0.50 | 610 | 1600 | 780 | -- | -- | 1800 | 21 | <0.50 | <0.50 | <1.0 | 1500 |
| 9/27/2006 | | -- | -- | 8500 | 22 | <0.50 | 270 | 740 | 460 | -- | -- | <2,000 | <0.50 | <0.50 | <0.50 | <1.0 | 350 |
| 12/22/2006 | | -- | -- | 7300 | 35 | <0.50 | 370 | 850 | 210 | -- | -- | 24000 | <0.50 | <0.50 | <0.50 | <1.0 | 190 |
| 3/23/2007 | | -- | -- | 8800 | 28 | <0.50 | 440 | 910 | 170 | -- | -- | 85 | <0.50 | <0.50 | <0.50 | <1.0 | 92 |
| 6/26/2007 | | -- | -- | 6300 | 16 | <0.50 | 300 | 650 | 50 | -- | -- | -- | -- | -- | -- | -- | -- |
| 9/28/2007 | | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 1.2 | -- | -- | 50 | <0.50 | <0.50 | <0.50 | <1.0 | 37 |
| 12/17/2007 | | -- | -- | 4700 | <0.50 | <0.50 | 71 | 160 | 18 | -- | -- | -- | -- | -- | -- | -- | -- |
| 3/25/2008 | | -- | -- | 7400 | 28 | <0.50 | 430 | 540 | 170 | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 7.3 |
| 6/12/2008 | | -- | -- | 4900 | 6.4 | <0.50 | 170 | 280 | 16 | -- | -- | 52 | <0.50 | <0.50 | <0.50 | <1.0 | 9.4 |
| 9/25/2008 | | -- | -- | 2200 | 2.1 | <0.50 | 72 | 110 | 11 | -- | -- | 65 | <0.50 | <0.50 | <0.50 | <1.0 | 5.6 |
| 12/30/2008 | | -- | -- | 3200 | 2.5 | <0.50 | 100 | 150 | 8.3 | -- | -- | 130 | <0.50 | <0.50 | <0.50 | 1.1 | 5.7 |
| 3/24/2009 | | -- | -- | 3500 | 6.8 | <0.50 | 140 | 140 | 28 | -- | -- | 98 | 0.50 | <0.50 | <0.50 | <1.0 | 9.2 |
| 6/23/2009 | | -- | -- | 740 | <0.50 | <0.50 | 17 | 12 | 8 | -- | -- | 290 | 1.2 | <0.50 | <0.50 | <1.0 | 6.7 |
| 12/16/2009 | | -- | -- | 4600 | 10 | <0.50 | 270 | 140 | 52 | -- | -- | 150 | <0.50 | <0.50 | <0.50 | <1.0 | 3.7 |
| 4/14/2010 | | 54 | 1.88 | 1500 | 5 | <1.00 | 100 | 36 | 20 | 110 | 0.97 | 60 | <0.50 | <0.50 | <0.50 | <1.0 | 2.1 |
| 10/13/2010 | | -- | -- | 4600 | 3 | <0.50 | 180 | 73 | 6 | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 3.6 |

Definitions:

TPHg = Total petroleum hydrocarbons as gasoline
 MtBE = Methyl tert-butyl ether
 µg/L = Micrograms per liter

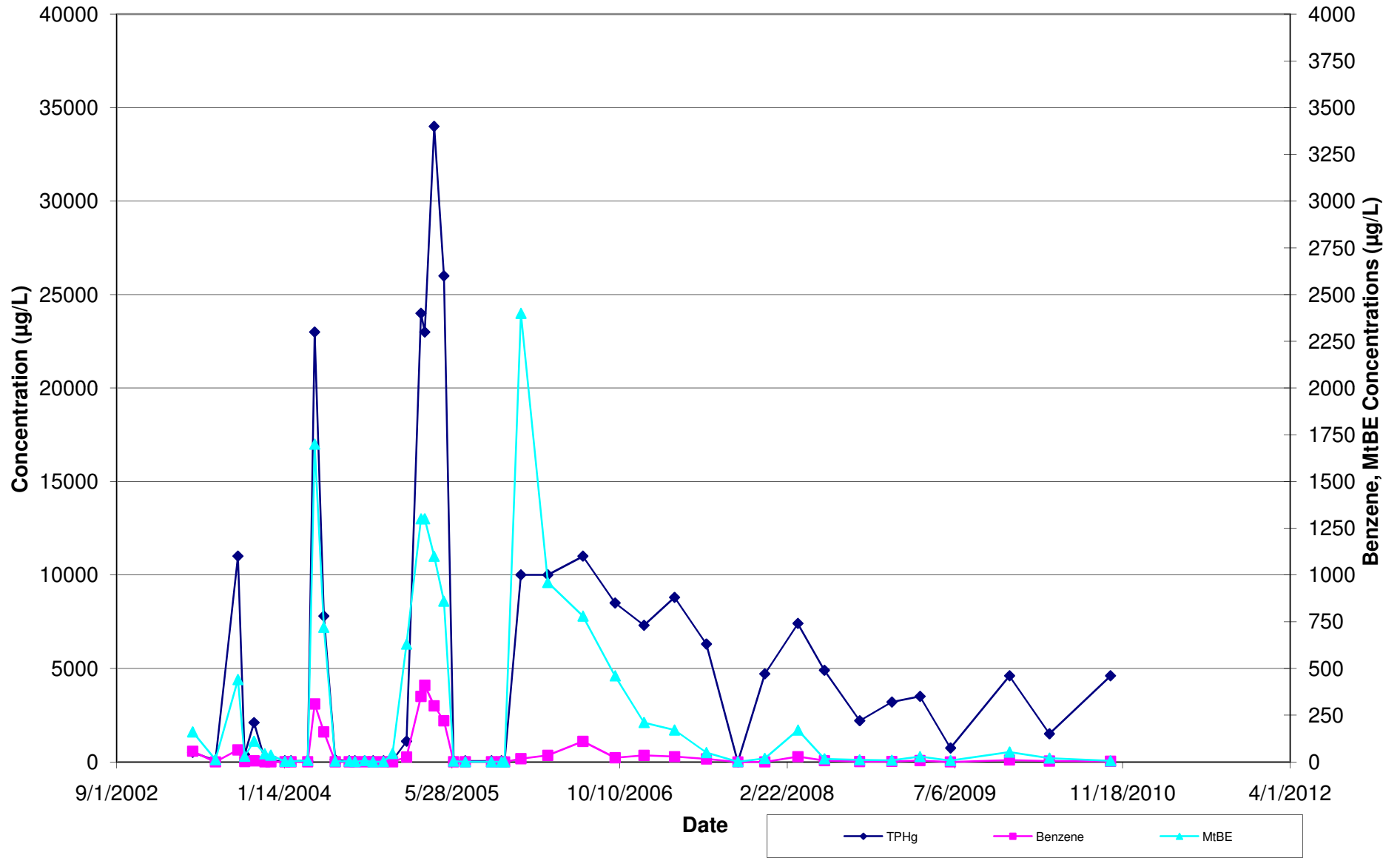
ORP = Oxidation Reduction Potential
 DO = Dissolved Oxygen
 mV = Millivolts
 mg/l = Milligrams per liter

Notes:

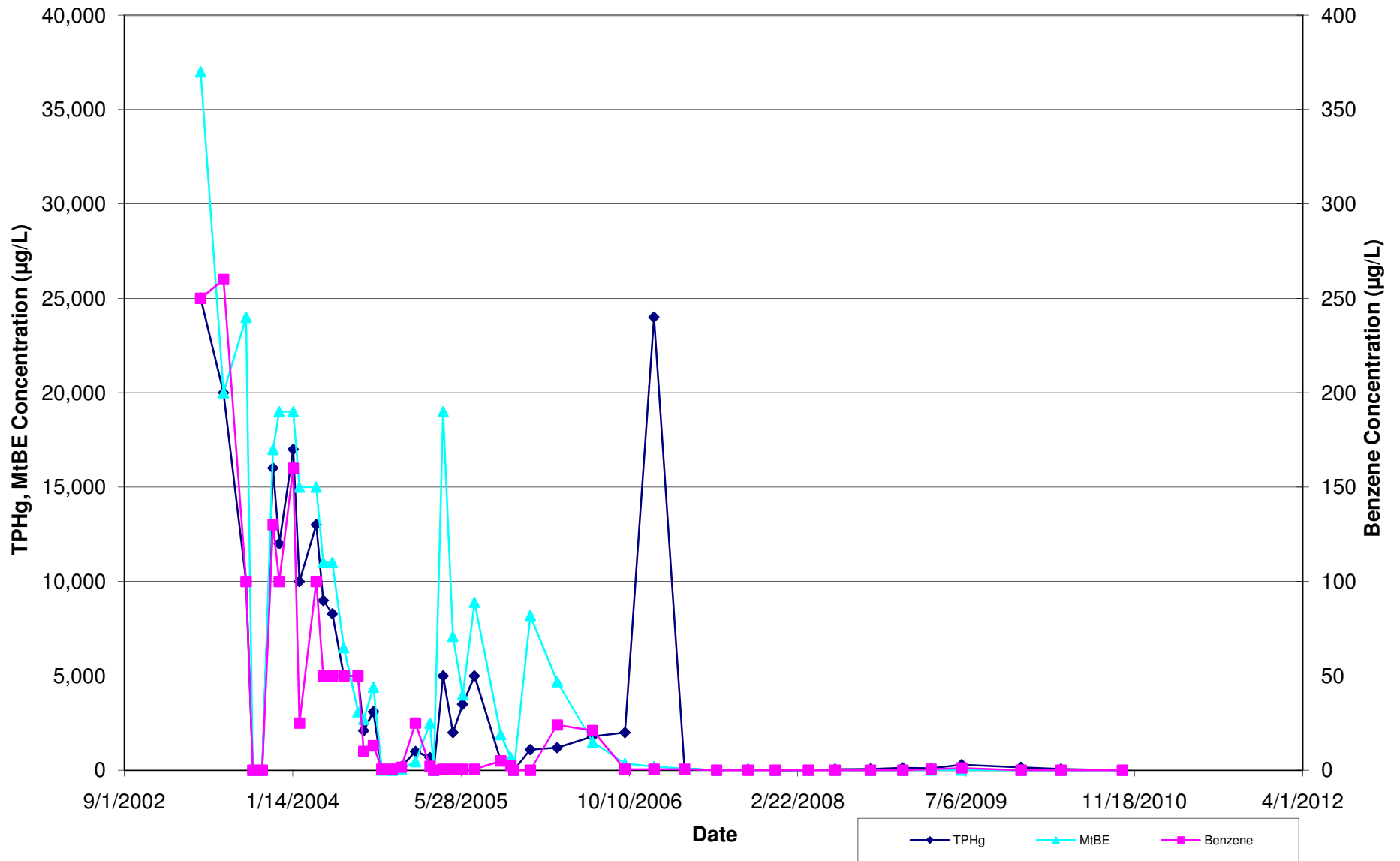
- Data not available
- NM Not Measured
- a Sampled by Gettler-Ryan, Inc.
- b Hydrocarbon in gasoline range does not match laboratory gasoline standard.
- c ORP reading under the range
- d Quantity of unknown hydrocarbon(s) in sample based on gasoline.
- e Data not available at time of reporting
- f MW-7 Estimated value of MtBE; concentration exceeded the calibration of analysis
- g Car parked on MW-7.
- h Data not available at time of reporting
- i Siloxane peaks were found in the sample which are not believed to be gasoline related. If they were to be quantified as gasoline, the concentration would be 58 µg/L. (MW-1)
- j The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern. (MW-1)
- k Monthly sampling discontinued at the request of ConocoPhillips

Graphs

Graph 1
MW-1 TPHg, Benzene, and MtBE Groundwater Concentrations
 76 Service Station No. 1871
 96 MacArthur Blvd., Oakland, California



Graph 2
MW-7 TPHg, Benzene, and MtBE Groundwater Concentrations
 76 Service Station No. 1871
 96 MacArthur Blvd., Oakland, California



Appendix A
Field Notes

Ozone Injection System Data Sheet

Station No.: 1871

City: Oakland

| Date | Notes | Status ON/OFF | Cycles/Day | Hour Meter | Well I.D. 02-1 | | | | Well I.D. 02-2 | | | | Well I.D. 02-3 | | | |
|------------|-------|---------------|------------|------------|----------------|-------|----------|-----------|----------------|-------|----------|-----------|----------------|-------|----------|-----------|
| | | | | | Pressure | Temp. | Run Time | Flow Rate | Pressure | Temp. | Run Time | Flow Rate | Pressure | Temp. | Run Time | Flow Rate |
| | | | | | (psi) | (°F) | (min) | (acfm) | (psi) | (°F) | (min) | (acfm) | (psi) | (°F) | (min) | (acfm) |
| 28 Sept 10 | | on/off | 20 | 29980 | 11 | | 7 | | 18 | | 7 | | 15 | | 7 | |
| 26 Oct 10 | | on/off | 20 | 30652 | 9 | | 7 | | 18 | | 7 | | 18 | | 7 | |
| 30 Nov 10 | | on/off | 20 | 31492 | 13 | | 7 | | 22 | | 7 | | 19 | | 7 | |

| Date | Well I.D. 02-4 | | | | Well I.D. 02-5 | | | | Well I.D. 02-6 | | | | Well I.D. 02-7 | | | |
|------------|----------------|-------|----------|-----------|----------------|-------|----------|-----------|----------------|-------|----------|-----------|----------------|-------|----------|-----------|
| | Pressure | Temp. | Run Time | Flow Rate | Pressure | Temp. | Run Time | Flow Rate | Pressure | Temp. | Run Time | Flow Rate | Pressure | Temp. | Run Time | Flow Rate |
| | (psi) | (°F) | (min) | (acfm) | (psi) | (°F) | (min) | (acfm) | (psi) | (°F) | (min) | (acfm) | (psi) | (°F) | (min) | (acfm) |
| 28 Sept 10 | 19 | | 7 | | 20 | | 7 | | 17 | | 7 | | 23 | | 7 | |
| 26 Oct 10 | 20 | | 7 | | 21 | | 7 | | 17 | | 7 | | 21 | | 7 | |
| 30 Nov 10 | 18 | | 7 | | 28 | | 7 | | 20 | | 7 | | 19 | | 7 | |

| Date | Well I.D. 02-8 | | | | Well I.D. 02-9 | | | | Well I.D. 02-10 | | | | Well I.D. | | | |
|------------|----------------|-------|----------|-----------|----------------|-------|----------|-----------|-----------------|-------|----------|-----------|-----------|-------|----------|-----------|
| | Pressure | Temp. | Run Time | Flow Rate | Pressure | Temp. | Run Time | Flow Rate | Pressure | Temp. | Run Time | Flow Rate | Pressure | Temp. | Run Time | Flow Rate |
| | (psi) | (°F) | (min) | (acfm) | (psi) | (°F) | (min) | (acfm) | (psi) | (°F) | (min) | (acfm) | (psi) | (°F) | (min) | (acfm) |
| 20 Sept 10 | 16 | | 7 | | 15 | | 7 | | 20 | | 7 | | | | | |
| 26 Oct 10 | 10 | | 7 | | 19 | | 7 | | 17 | | 7 | | | | | |
| 30 Nov 10 | 15 | | 7 | | 17 | | 7 | | 19 | | 7 | | | | | |

Ozone System Maintenance and Inspection Log

| Date | Check/Repair Leaks | Check Hoses Fittings & Pipes | Check Air Filter (Document Date Replaced) | Check & Test Safety Interlock | Check Sparge Blower V-Belt Tension & Conditions | Check Controller Program | Change Blower Oil | Sparge Blower Grease Bearings | Sparge Blower Repair/Replace | Comments |
|------------|--------------------|------------------------------|---|-------------------------------|---|--------------------------|-------------------|-------------------------------|------------------------------|----------|
| 28 Sept 10 | OK | OK | OK | OK | N/A | OK | N/A | N/A | OK | |
| 26 Oct 10 | OK | OK | OK | OK | N/A | OK | N/A | N/A | OK | |
| 30 Nov 10 | OK | OK | OK | OK | N/A | OK | N/A | N/A | OK | |

Notes:

A = System down-breaker thrown

B = Compressor Overload.

C = Ozone sensor Tripped.

D = Temp. sensor tripped.