



July 6, 2004

Project 4097041918 Task 01

Mr. David Blaine
BPS Reprographic Services
945 Bryant Street
San Francisco, California 94103

**First Quarter Groundwater Remediation and Monitoring Report
January through May, 2004
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California**

Dear Mr. Christoff:

MACTEC Engineering and Consulting, Inc., presents this quarterly status letter-report on the groundwater monitoring and remedial activities at the BPS Reprographic Services (BPS) facility located at 1700 Jefferson Street in Oakland, California (Plate 1). This letter-report covers the period from January through May 31, 2004, and was prepared to satisfy the quarterly groundwater monitoring requirements of the Alameda County Department of Health Care Services (ACHCS). The data presented in this letter-report represents the First Quarter 2004 monitoring point despite the actual monitoring not having occurred until May 18, 2004.

BACKGROUND

Three underground gasoline storage tanks were removed from the property in 1987 and a preliminary soil and groundwater investigation indicated that a release of fuel into the subsurface had occurred. Three groundwater-monitoring wells (MW-1, MW-2, and MW-3) were installed on the property to evaluate the distribution of petroleum hydrocarbons in the groundwater and to determine the direction of groundwater flow. Free phase hydrocarbon (FPH) was found in MW-1. Groundwater level measurements at that time indicated that the local groundwater gradient was in a north to northwest direction. Groundwater level measurements would later indicate the direction of the local groundwater gradient changing (to typically east to west or north to northwest) presumably due to construction of new buildings in the immediate vicinity of the site, which extended below the groundwater surface.

In November 1987, monitoring well MW-2 was abandoned to facilitate the construction of the present BPS facility and, in January 1988, two additional wells, MW-1A and MW-4, were installed as

July 6, 2004
4097041918 Task 01
Mr. David Blaine
BPS Reprographic Services
Page 2

groundwater extraction wells. MACTEC also installed one offsite monitoring well, MW-5, in August 1988 and a second offsite well, MW-6, in April 1996. The monitoring well locations are shown on Plate 1.

In 1992, a groundwater extraction system was constructed at the site to remove FPH from the groundwater surface. Groundwater was extracted from MW-1A and MW-4 and passed through an oil-water separator that removed the FPH. The water was then drawn into a 3,000-gallon bioreactor tank for treatment by hydrocarbon reducing microbes. Air and nutrients were supplied to the water within the bioreactor to facilitate microbial growth. The treated water from the bioreactor was pumped in batches of approximately 500 gallons through three granular activated carbon vessels before discharge under a wastewater discharge permit from the East Bay Municipal Utility District to the sanitary sewer. The treatment system processed approximately 1,385,490 gallons of groundwater and an estimated 5,062 pounds of FPH were recovered.

By 1999, the oil-water separator was no longer recovering FPH and FPH was no longer present in any of the groundwater monitoring wells. Dissolved hydrocarbon concentrations were decreasing and MACTEC requested approval from the ACHCS to terminate groundwater extraction and to modify the remediation technique to in situ-bioremediation using an oxygen-releasing compound (ORC™). ORC™ is manufactured and distributed by Regensis, Inc.; its purpose is to increase the concentration of dissolved oxygen (DO) in the groundwater and to augment the ability of naturally occurring microbial organisms in the groundwater to biodegrade the dissolved petroleum hydrocarbons. The ACHCS approved this plan in a letter dated September 28, 1999, following the submittal of an ORC™ calculation sheet and a Groundwater Monitoring Plan, dated September 23, 1999.

MACTEC implemented the in situ bioremediation technique by placing ORC™ in treatment wells: MW-1A, MW-3, MW-4, and MW-5 on September 29, 1999. The ORC™ is contained in fabric "socks" which release oxygen over time until the compound's oxygen releasing potential is depleted. MACTEC installed five socks in each treatment well at the approximate depth of the well's screened interval. As described in the Groundwater Monitoring Plan, the ORC™ socks are removed from the treatment wells two weeks before each quarterly groundwater monitoring event, then replaced after sampling is complete.

The Groundwater Monitoring Plan outlined procedures for groundwater sampling using a non-purge method approved by the Regional Water Quality Control Board in a letter dated January 31, 1997. The first quarter that the new Groundwater Monitoring Plan was implemented, sampling included duplicate sampling using both the purge and non-purge methods (see MACTEC's quarterly report, dated October 25, 1999).

During the Fourth Quarter 2002 groundwater monitoring event MACTEC removed the ORC™ socks from the treatment wells per a request from the ACHCS in a September 27, 2002 letter to BPS. The

July 6, 2004
4097041918 Task 01
Mr. David Blaine
BPS Reprographic Services
Page 3

ACHCS suggested that contaminant concentrations may not be accurate due to the presence of the ORC™ socks and requested the socks be removed and DO allowed to return to back ground levels. Additionally, the ACHCS suggested in the same letter that the ORC™ socks appear to be ineffective as contaminant concentrations continue to be high in MW-1 and MW-5.

During the Fourth Quarter 2002 groundwater monitoring event MACTEC monitored groundwater monitoring MW-1, MW-3, MW-5 and MW-6 for tert Amyl Methyl Ether, Ethyl tert Butyl Ether, Diisopropyl Ether, tert Butyl Alcohol, Ethylene Dibromide, and Ethylene Dichloride (EDC) per a request from the ACHCS in the September 27, 2002 letter to BPS. Analytical results indicated none of these analytes were detected in any wells except EDC in MW-1 and MW-5. EDC is monitored in MW-1 and MW-5 quarterly now as required by the ACHCS.

During the ORC™ socks removal effort from MW-5 it was discovered that the socks were stuck. ORC™ socks can become stuck in monitoring wells when the well casing has become disturbed or bent. This can typically be caused by even minor seismic occurrences in the area of the well. The ORC™ socks remained stuck in MW-5 despite three removal attempts including attempts incorporating an industrial winch and tripod. An ORC™ sock removal effort was performed on September 17, 2003 utilizing a drill rig. The socks were successfully removed with no apparent damage to the monitoring well.

FIRST QUARTER 2004 GROUNDWATER SAMPLING AND ANALYSIS

On May 18, 2004, MACTEC conducted the quarterly groundwater monitoring of MW-1, MW-3, MW-5 and MW-6 (Plate 1) using the non-purge sampling method as described in the Enhanced In-situ Bioremediation and Groundwater Monitoring Procedures letter dated August 17, 1999. The non-purge sampling method was re-evaluated as requested by the ACHCS in a letter dated September 27, 2003. After review of the evaluation data and analysis presented in the Second Quarter 2003 Groundwater Monitoring Report, the ACHCS approved non-purge sampling for use at the site in a letter dated February 13, 2004.

Groundwater parameters collected during sampling are shown on Table 1. Prior to sampling, MACTEC measured the depth to groundwater from the top of casing (TOC) of wells MW-1, MW-3, MW-5 and MW-6 using an electronic water level indicator. These measurements are displayed on Plate 2 and tabulated in Table 2.

Immediately after sample collection, MACTEC labeled and stored the samples in a cooler with ice. The groundwater samples were kept chilled until submitted to Sequoia Analytical Laboratory (Sequoia), a California state-certified laboratory (CA ELAP Certificate #2374), under chain-of-custody protocol for the following analyses:

- Total petroleum hydrocarbons as gasoline (TPHg) in accordance with EPA Method 8015 modified.

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) in accordance with EPA Method 8020.
- Methyl tertiary butyl ether (MTBE) in accordance with EPA Method 8020 with confirmation of detections by EPA Method 8260.
- Ethylene Dichloride (EDC) by EPA Method 8260.

The analytical results for TPH-g, BTEX and MTBE are displayed on Plates 3 and 4. Historical groundwater elevations are shown graphically on Plate 5. Historical analytical results for TPH-g, BTEX and MTBE through September 29, 1999 are shown on Table 3. Quarterly groundwater analytical results collected after September 29, 1999 are presented on Table 4. Analytical results for Tert-amyl methyl ether (TAME), Tert-butyl alcohol (TBA), Di-isopropyl ether (DIPE), Ethylene Dibromide (EDB), Ethyl tert Butyl Ether (ETBE) and EDC are displayed on Table 5. The certified analytical reports (CARs) are presented in the Appendix A.

DISCUSSION

Groundwater Monitoring Data

As shown in Table 2 and on Plate 5, the groundwater surface elevation decreased an average of 0.50 feet across the site as compared to last quarter's measurements. Using the groundwater elevations from MW-1, MW-3, MW-5 and MW-6 as measured on May 18, 2004, groundwater contours were created and are shown on Plate 2. Based on the groundwater elevations, the groundwater gradient is approximately 0.006 ft/ft. The direction of flow appears to be in a Westerly direction.

Table 3 displays a summary of historical groundwater sample results through September 29, 1999, when the typical purge and sample protocol was terminated. Plate 3 presents the sample results from this quarter's sampling event. Table 4 and Plate 4 display historical groundwater sample results since instituting *in situ* bioremediation using ORC™ socks and a non-purge sampling protocol. Sample results from July, September and December 2003 were collected post purge per ACHCS instructions. Sample results from May 18, 2004 were collected using the non-purge method previously used prior to July 2003. As of December 2002 *in situ* bioremediation using ORC™ socks was suspended per ACHCS instructions.

As shown on Plate 4 and Table 4, concentrations of TPH-g, BTEX and MTBE remained within the range of historical values (including historical concentrations monitored prior to September 1999) for all the wells sampled. TPH-g and BTEX concentrations in MW-5 are within the historical range but appear to have rebounded to values typically seen before and just after initiating *in situ* remediation using ORC™ in September 1999. However, TPH-g and BTEX concentrations in MW-5 are the lowest measured in this well since First Quarter 2003. TPH-g and BTEX concentrations in MW-1 have decreased since last quarter to the lowest concentrations measured since the First Quarter 2003. TPH-g and BTEX

July 6, 2004
4097041918 Task 01
Mr. David Blaine
BPS Reprographic Services
Page 5

concentrations in MW-3 have decreased since last quarter to the lowest concentrations measured since the First Quarter 2002. The reductions in TPH-g and BTEX concentrations in MW-1, MW-3 and MW-5 appear to be associated with the seasonally high groundwater elevations monitored this event. TPH-g and BTEX concentrations in MW-6 remained undetected.

TPH-g ranged from non-detectable with a detection limit of 0.05 mg/l (MW-6) to 23 mg/l (MW-1). Benzene ranged from non-detectable with a detection limit of 0.5 ug/l (MW-6) to 5,000 ug/l (MW-5). Toluene ranged from non-detectable with a detection limit of 0.05 ug/l (MW-6) to 4,700 ug/l (MW-1). Ethylbenzene ranged from non-detectable with a detection limit of 0.5 ug/l (MW-6) to 450 ug/l (MW-1). Total Xylenes ranged from non-detectable with a detection limit of 0.5 ug/l (MW-6) to 1,500 ug/l (MW-1). MTBE was not detected in samples from any of the groundwater monitoring wells this quarter with detection limits ranging from 2.5 ug/l (MW-6) to 50 ug/L (MW-1 and MW-5).

Analytical results for TAME, TBA, DIPE, EDB, ETBE and EDC are displayed on Table 5. As described in the ACHCS September 27, 2002 letter to BPS these analyses were performed per ACHCS request during the Fourth Quarter 2002 monitoring event. None of these analytes were detected in any of the groundwater samples collected from MW-1, MW-3, MW-5 and MW-6 except for EDC. EDC was detected in the samples collected from MW-1 at a concentration of 370 ug/L and MW-5 at a concentration of 220 ug/L. Per ACHCS direction, if any of these analytes were not detected during the Fourth Quarter 2002 monitoring event then the analyte does not need subsequent monitoring. Analysis for EDC was performed in groundwater samples from MW-1 and MW-5 during the First Quarter 2004 event. EDC was detected in the sample from MW-1 at a concentration of 320 ug/L. EDC was detected in the sample from MW-5 at a concentration of 290 ug/L.

As described above, the ORC™ socks were removed from all treatment wells during the Fourth Quarter 2002 monitoring event per ACHCS request (except MW-5, ORC™ socks removed from this well September 17, 2003). The ORC™ socks were removed to allow the DO concentrations in each well to return to background levels. Prior to sampling during the First Quarter 2004 event, DO was monitored in each well. The DO concentrations ranged from 0.42 in MW-1 to 0.45 in MW-6. The DO concentrations appear to have returned to background levels. DO will continue to be monitored in these wells.

RECOMMENDATIONS

MACTEC recommends continued quarterly groundwater monitoring to re-evaluate the use of ORC™ at the site.

July 6, 2004
4097041918 Task 01
Mr. David Blaine
BPS Reprographic Services
Page 6

MACTEC recommends that Blue Print Services send a copy of this report to the following address:

Mr. Don Hwang
Alameda County
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California, 94502-6577

While under contract to BPS, MACTEC will continue to provide quarterly groundwater monitoring and reporting as required by The County.


If you have any questions, please contact the undersigned at (415) 278-2118.

Sincerely,

MACTEC ENGINEERING AND CONSULTING, INC.



David S. Nanstad
Project Engineer



Henry Lin
Principal Engineer

California Civil Engineer
CE 24488
Expire 12/31/2005

DSN SFOmain/Ctrybluc/3q03

4 copies submitted

July 6, 2004
4097041918 Task 01
Mr. David Blaine
BPS Reprographic Services
Page 7

Attachments: Table 1 – Groundwater Parameters
Table 2 – Groundwater Elevation Data
Table 3 – Historical Groundwater Monitoring Analytical Results - Using Purge Method
Table 4 – Groundwater Monitoring Analytical Results
Table 5 – Groundwater Monitoring Analytical Results – EPA Method 8260

Plate 1 – Site Map
Plate 2 – Groundwater Contours
Plate 3 – TPH-g, BTEX and MTBE Concentrations in Groundwater
Plate 4 – BTEX and DO Results
Plate 5 – Groundwater Elevation Data

Appendix A – Laboratory Reports
Appendix B – Groundwater Sampling Forms
Table B1. Sample Location/Sample Description Cross-Reference

Table 1.
Groundwater Parameters
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

| Dissolved Oxygen (mg/L) | MW-1 | MW-3 | MW-5 | MW-6 |
|--------------------------------|-------------|-------------|-----------------|-----------------|
| 9/29/1999 | 2.90 | 1.70 | 0.40 | 1.80 |
| 11/5/1999 | 4.00 | 10.30 | 4.00 | 2.80 |
| 11/22/1999 | 1.80 | 2.40 | 2.00 | 3.20 |
| 1/28/2000 | 2.90 | 8.40 | 3.60 | 2.20 |
| 2/11/2000 | 2.50 | 2.30 | 1.80 | 3.50 |
| 5/12/2000 | 2.00 | 7.40 | 2.40 | 1.70 |
| 5/30/2000 | 1.90 | 2.60 | 1.80 | 3.20 |
| 9/1/2000 | 2.90 | 3.40 | 2.30 | 2.70 |
| 9/15/2000 | 2.00 | 1.80 | 2.20 | 3.80 |
| 11/9/2000 | NA | 5.00 | 5.30 | NA |
| 11/17/2000 | 3.10 | 4.20 | 3.40 | 6.00 |
| 3/15/2001 | 2.00 | 7.00 | 1.40 | 2.10 |
| 4/2/2001 | 1.00 | 0.78 | 2.00 | 0.99 |
| 6/1/2001 | 0.22 | 0.24 | 6.62 | 0.32 |
| 6/28/2001 | 0.32 | 0.56 | 0.53 | 0.71 |
| 8/16/2001 | 0.48 | 6.52 | 1.61 | 0.78 |
| 8/30/2001 | 0.33 | 0.40 | 0.23 | 0.46 |
| 12/14/2001 | 0.03 | 3.76 | 2.22 | 0.16 |
| 12/26/2001 | 0.16 | 0.28 | 0.19 | 0.21 |
| 4/10/2002 | 0.55 | 0.63 | 0.20 | 0.37 |
| 4/23/2002 | 0.30 | 0.35 | 0.90 | 0.45 |
| 6/3/2002 | 0.38 | 5.16 | 4.32 | 0.65 |
| 6/14/2002 | 0.29 | 0.34 | 0.38 | 0.31 |
| 8/5/2002 | 0.33 | 0.28 | 0.40 | 0.39 |
| 8/14/2002 | 0.34 | 0.28 | 0.42 | 0.63 |
| 12/6/2002 | 1.00 | 0.90 | NA ² | 0.62 |
| 12/27/2002 | 0.94 | 0.96 | NA ² | 1.24 |
| 4/1/2003 ^b | 0.30 | 1.06 | NA ² | NA ¹ |
| 7/1/2003 ^{ab} | 7.65 | 7.70 | NA ² | 7.2 |
| 9/24/2003 ^b | 6.25 | 7.16 | 0.55 | 0.9 |
| 12/29/2003 ^b | 0.18 | 0.33 | 0.58 | 0.6 |
| 5/18/2004 | 0.42 | 0.45 | 0.44 | 0.44 |
| REDOX (mvolts) | | | | |
| 5/30/2000 | -322 | 197 | -128 | 203 |
| 9/15/2000 | -269 | 3 | -89 | 206 |
| 11/17/2000 | 64 | 178 | 296 | 230 |
| 4/2/2001 | -194 | 26 | -36 | 102 |
| 6/28/2001 | -310 | -283 | -360 | 107 |
| 8/30/2001 | NA | NA | NA | NA |
| 12/26/2001 | 12 | 11 | 11 | 11 |
| 4/23/2002 | 3 | 62 | -299 | 158 |
| 6/14/2002 | 0 | 245 | -215 | 254 |
| 8/20/2002 | -294 | -315 | -238 | 228 |
| 12/27/2002 | -315 | -357 | NA ² | -12 |
| 4/1/2003 ^b | -82 | -75 | NA ² | 172 |
| 7/1/2003 ^b | 212 | 230 | NA ² | 227 |
| 9/24/2003 ^b | -166 | -300 | -183 | 50 |
| 12/29/2003 ^b | -329 | -198 | -269.1 | 113.7 |
| 5/18/2004 | -309 | -189 | -248 | 115.4 |
| Temperature (deg F) | | | | |
| 9/29/1999 | 67.0 | 72.6 | 67.7 | 73.8 |
| 11/22/1999 | 66.4 | 62.9 | 65.0 | 69.8 |
| 2/11/2000 | 61.3 | 63.2 | 62.0 | 68.5 |
| 5/30/2000 | 77.7 | 74.8 | 76.3 | 76.2 |
| 9/15/2000 | 64.4 | 64.3 | 64.7 | 67.0 |
| 11/17/2000 | 54.5 | 58.1 | 68.1 | 65.9 |
| 4/2/2001 | 63.5 | 64.9 | 66.2 | 66.4 |
| 6/28/2001 | 73.0 | 71.2 | 74.7 | 74.3 |
| 8/30/2001 | 74.8 | 77.6 | 78.3 | 78.7 |
| 12/26/2001 | 65.7 | 65.8 | 65.8 | 65.1 |
| 4/23/2002 | 64.4 | 69.8 | 37.1 | 71.6 |
| 6/14/2002 | 66.7 | 67.5 | 66.7 | 68.0 |
| 8/20/2002 | 64.6 | 67.6 | 66.2 | 68.0 |
| 12/27/2002 | 41.7 | 42.5 | NA ² | 41.7 |
| 4/1/2003 ^b | 64.6 | 67.6 | NA ² | 68.0 |
| 7/1/2003 ^{ab} | 79.4 | 80.3 | NA ² | 81.9 |
| 9/24/2003 ^b | 65.1 | 67.1 | 65.7 | 68.5 |
| 12/29/2003 ^b | 65.0 | 67.5 | 67.1 | 68.0 |
| 5/18/2004 | 69.0 | 69.0 | 63.0 | 68.0 |

Table 1.
Groundwater Parameters
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

| pH | MW-1 | MW-3 | MW-5 | MW-6 |
|-------------------------------------|-------------|-------------|-----------------|-------------|
| 9/29/1999 | 8.39 | 8.53 | 8.43 | 8.44 |
| 11/22/1999 | 6.86 | 8.42 | 6.84 | 6.79 |
| 2/11/2000 | 6.80 | 6.94 | 6.83 | 6.72 |
| 5/30/2000 | 7.02 | 7.35 | 7.54 | 7.56 |
| 9/15/2000 | 7.06 | 7.54 | 6.76 | 6.62 |
| 11/17/2000 | 7.37 | 7.69 | 7.12 | 7.34 |
| 4/2/2001 | 6.98 | 6.61 | 7.07 | 6.96 |
| 6/28/2001 | 6.90 | 6.74 | 6.78 | 6.83 |
| 8/30/2001 | 7.85 | 7.91 | 7.9 | 8.41 |
| 12/26/2001 | 6.23 | 6.91 | 7.11 | 6.72 |
| 4/23/2002 | 6.90 | 6.95 | 6.94 | 6.86 |
| 6/14/2002 | 7.05 | 7.24 | 7.08 | 6.89 |
| 8/20/2002 | NA | 6.89 | NA ¹ | 6.91 |
| 12/27/2002 | 6.33 | 6.41 | NA ² | 6.49 |
| 4/1/2003 ^b | 6.90 | 7.08 | NA ² | 6.70 |
| 7/1/2003 ^b | 7.42 | 7.59 | NA ² | 7.68 |
| 9/24/2003 ^b | 7.12 | 7.34 | 7.25 | 7.17 |
| 12/29/2003 ^b | 6.72 | 6.47 | 6.75 | 6.69 |
| 5/18/2004 | 6.67 | 6.54 | 6.7 | 6.48 |
| Specific Conductance (µS/cm) | | | | |
| 9/29/1999 | 976 | 880 | 1,577 | 966 |
| 11/22/1999 | 1,004 | 1,500 | 1,352 | 1,038 |
| 2/11/2000 | 992 | 1,327 | 1,275 | 1,149 |
| 5/30/2000 | 845 | 1,020 | 758 | 924 |
| 9/15/2000 | 800 | 917 | 989 | 1,009 |
| 11/17/2000 | 785 | 970 | 742 | 886 |
| 4/2/2001 | 725 | 365 | 839 | 821 |
| 6/28/2001 | 1080 | 704 | 876 | 1021 |
| 8/30/2001 | 924 | 1015 | 975 | 931 |
| 12/26/2001 | 848 | 496 | 333 | 891 |
| 4/23/2002 | 922 | 601 | 848 | 977 |
| 6/14/2002 | 932 | 767 | 810 | 961 |
| 8/20/2002 | 1015 | 809 | 891 | 985 |
| 12/27/2002 | 956 | 791 | NA ² | 903 |
| 4/1/2003 ^b | 1128 | 800 | NA ² | 1021 |
| 7/1/2003 ^b | 1020 | 690 | NA ² | 970 |
| 9/24/2003 ^b | 951 | 697 | 987 | 890 |
| 12/29/2003 ^b | 1143 | 396 | 993 | 934 |
| 5/18/2004 | 1060 | 692 | 922 | 1037 |

Note:

Baseline dissolved oxygen measurement taken on 09/29/99, prior to initial installation of oxygen releasing compound

mg/l = milligrams per liter

mvols = millivolts

deg F = degrees Fahrenheit

µS/cm = micro-ohms per centimeter

NA = Not Available

1 = indicates data not available due to equipment malfunction

2 = DO not available due to ORC socks stuck in well on these dates

a = indicates dissolved oxygen and temperature readings collected on this date above typical range and should be considered suspect

b = indicates this data collected post purge

**Table 2. Groundwater Elevation Data
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California**

| Date Sampled | MW-1 TOC Elev. 32.36 | | MW-3 TOC Elev. 31.77 | | MW-5 TOC Elev. 30.56 | | MW-6 TOC Elev. 31.26 | | Average Change Since Preceding Quarter |
|--------------|---------------------------|-----------------|---------------------------|-----------------|---------------------------|-----------------|---------------------------|-----------------|--|
| | Water Level | Water Elevation | Water Level | Water Elevation | Water Level | Water Elevation | Water Level | Water Elevation | |
| 3/6/1996 | NM | -- | 24.79 | 6.98 | 23.53 | 7.03 | NA | -- | |
| 6/11/1996 | FP | -- | 25.60 | 6.17 | 23.78 | 6.78 | 25.16 | 6.10 | -0.53 |
| 9/19/1996 | FP | -- | 26.09 | 5.68 | 24.48 | 6.08 | 25.76 | 5.50 | -0.60 |
| 12/23/1996 | FP | -- | FP | -- | 24.83 | 5.73 | 25.88 | 5.38 | -0.23 |
| 3/27/1997 | FP | -- | FP | -- | 23.82 | 6.74 | 24.78 | 6.48 | 1.06 |
| 6/4/1997 | 26.41 | 5.95 | 25.11 | 6.66 | 23.92 | 6.64 | 24.60 | 6.66 | 0.04 |
| 9/26/1997 | 26.80 | 5.56 | 25.41 | 6.36 | 24.29 | 6.27 | 24.80 | 6.46 | -0.32 |
| 12/22/1997 | 26.00 | 6.36 | 24.91 | 6.86 | 24.02 | 6.54 | 24.71 | 6.55 | 0.42 |
| 3/31/1998 | 26.06 | 6.30 | 24.05 | 7.72 | 22.78 | 7.78 | 23.75 | 7.51 | 0.75 |
| 6/18/1998 | 25.60 | 6.76 | 23.71 | 8.06 | 22.51 | 8.05 | 23.22 | 8.04 | 0.40 |
| 8/28/1998 | 25.45 | 6.91 | 23.70 | 8.07 | 22.74 | 7.82 | 22.23 | 9.03 | 0.23 |
| 12/2/1998 | 24.92 | 7.44 | 23.60 | 8.17 | 23.16 | 7.40 | 23.72 | 7.54 | -0.32 |
| 3/10/1999 | 24.90 | 7.46 | 22.65 | 9.12 | 22.82 | 7.74 | 23.54 | 7.72 | 0.37 |
| 6/30/1999 | 25.53 | 6.83 | 23.07 | 8.70 | 22.41 | 8.15 | 23.04 | 8.22 | -0.04 |
| 9/29/1999 | 24.23 | 8.13 | 23.03 | 8.74 | 22.81 | 7.75 | 23.42 | 7.84 | 0.14 |
| 11/22/1999 | 24.33 | 8.03 | 23.68 | 8.09 | 22.88 | 7.68 | 23.64 | 7.62 | -0.26 |
| 2/11/2000 | 24.38 | 7.98 | 23.74 | 8.03 | 22.74 | 7.82 | 23.67 | 7.59 | 0.00 |
| 5/30/2000 | 23.57 | 8.79 | 22.97 | 8.80 | 21.73 | 8.83 | 22.82 | 8.44 | 0.86 |
| 9/15/2000 | 23.85 | 8.51 | 23.12 | 8.65 | 22.14 | 8.42 | 23.10 | 8.16 | -0.28 |
| 11/16/2000 | 24.14 | 8.22 | 23.40 | 8.37 | 22.39 | 8.17 | 23.41 | 7.85 | -0.28 |
| 4/2/2001 | 23.40 | 8.96 | 23.40 | 8.37 | 22.07 | 8.49 | 23.33 | 7.93 | 0.29 |
| 6/28/2001 | 23.58 | 8.78 | 23.17 | 8.60 | 22.15 | 8.41 | 23.15 | 8.11 | 0.04 |
| 8/30/2001 | 24.00 | 8.36 | 23.35 | 8.42 | 22.35 | 8.21 | 23.35 | 7.91 | -0.25 |
| 12/26/2001 | 24.18 | 8.18 | 23.54 | 8.23 | 22.49 | 8.07 | 23.27 | 7.99 | -0.11 |
| 4/23/2002 | NA | NA | 22.89 | 8.88 | 21.07 | 9.49 | 22.89 | 8.37 | 0.82 |
| 6/14/2002 | 23.41 | 8.95 | 22.85 | 8.92 | 21.80 | 8.76 | 22.81 | 8.45 | -0.20 |
| 8/20/2002 | 23.85 | 8.51 | 23.11 | 8.66 | 22.14 | 8.42 | 23.15 | 8.11 | -0.31 |
| 12/27/2002 | 24.10 | 8.26 | 23.34 | 8.43 | *NA | *NA | 23.41 | 7.85 | -0.24 |
| 4/1/2003 | 23.75 | 8.61 | 22.90 | 8.87 | *NA | *NA | 23.16 | 8.10 | 0.35 |
| 7/1/2003 | 23.50 | 8.86 | 22.80 | 8.97 | *NA | *NA | 22.75 | 8.51 | 0.25 |
| 9/24/2003 | 23.82 | 8.54 | 23.15 | 8.62 | 22.21 | 8.35 | 23.16 | 8.10 | -0.27 |
| 12/29/2003 | 24.07 | 8.29 | 23.45 | 8.32 | 22.56 | 8.00 | 23.47 | 7.79 | -0.30 |
| 5/18/2004 | 23.64 | 8.72 | 22.98 | 8.79 | 21.85 | 8.71 | 22.87 | 8.39 | 0.55 |

TOC Elev. = top of casing elevation

NM = not monitored

FP = free product

-- = no data collected

NA = not available

* This data not available due to ORC socks stuck in well

Table 3. Groundwater Monitoring Analytical Results - Using Purge Method
8/1/1991 to 9/29/1999
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

| TPHg (mg/L) | Date Sampled | | | | | | | | | | | | | | Date Sampled | | | | | | | | | | | | |
|-------------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|------------|----------|-----------|-----------|--------------|-----------|----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------------------|--------|
| | 8/1/1991 | 9/30/1992 | 3/30/1993 | 1/13/1994 | 4/13/1994 | 6/29/1994 | 12/8/1994 | 4/3/1995 | 6/27/1995 | 9/19/1995 | 12/13/1995 | 3/6/1996 | 6/11/1996 | 9/19/1996 | 12/23/1996 | 3/27/1997 | 6/4/1997 | 9/26/1997 | 12/23/1997 | 3/31/1998 | 6/18/1998 | 8/28/1998 | 12/2/1998 | 3/10/1999 | 6/30/1999 | 9/29/1999 ¹ | |
| MW-1 | FP | FP | FP | FP | FP | FP | FP | NA | NA | NA | NA | NA | FP | FP | FP | FP | 68 | 59 | 41 | 44 | 32 | 26 | 26 | 26 | 18 | 21 | |
| MW-1A | 350 | FP | FP | FP | FP | 170 | 95 | 190 | 67 | 53 | 52 | 62 | 200 | 140 | 100 | FP | 66 | 54 | 73 | 66 | 51 | 50 | 15 | 41 | 10 | 18 | NA |
| MW-3 | 74 | FP | FP | FP | FP | 39 | 4,600 | 51 | 20 | 6.2 | 19 | 7 | 16 | 6 | FP | FP | 85 | 47 | 32 | 32 | 16 | 17 | 3.2 | 9.6 | 7.9 | 5.0 | |
| MW-4 | 86 | FP | FP | FP | FP | 58 | 16 | 92 | 35 | 13 | 14 | 11 | 110 | 260 | 95 | FP | 37 | 24 | 41 | 48 | NA | 25 | 48 | 10 | 11 | 8.8 | NA |
| MW-5 | 120 | 51 | 74 | 80 | 63 | 64 | 59 | 51 | 41 | 50 | 45 | 51 | 48 | 48 | 45 | 44 | 35 | 36 | 39 | 48 | 17 | 16 | 15 | 23 | 7.7 | 11 | |
| MW-6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) | |
| Benzene (µg/L) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-1 | FP | FP | FP | FP | FP | FP | FP | NA | NA | NA | NA | NA | FP | FP | FP | FP | 2,200 | 6,000 | 6,800 | 8,300 | 1,100 | 8,600 | 9,200 | 8,200 | 7,000 | 9,200 | |
| MW-1A | 17,000 | FP | FP | FP | FP | 17,000 | 16,000 | 13,000 | 11,000 | 11,000 | 8,900 | 9,900 | 14,000 | 18,000 | 16,000 | FP | 12,000 | 11,000 | 10,000 | 10,000 | 9,100 | 11,000 | 1,100 | 8,500 | 2,300 | 6,400 | NA |
| MW-3 | 1,600 | FP | FP | FP | FP | 3,200 | 1,500 | 1,100 | 270 | 70 | 220 | 120 | 170 | 45 | FP | FP | 8,500 | 610 | 640 | 690 | 180 | 84 | 39 | 86 | 31 | 120 | |
| MW-4 | 1,500 | FP | FP | FP | FP | 1,500 | 1,300 | 1,700 | 1,200 | 1,300 | 2,200 | 630 | 2,600 | 6,600 | 9,900 | FP | 2,600 | 2,600 | 2,900 | 6,000 | NA | 2,000 | 9,700 | 1,700 | 2,300 | 1,800 | NA |
| MW-5 | 20,000 | 13,000 | 16,000 | 19,000 | 14,000 | 29,000 | 13,000 | 15,000 | 12,000 | 1,600 | 13,000 | 15,000 | 12,000 | 12,000 | 12,000 | 11,000 | 8,900 | 7,900 | 13,000 | 10,000 | 9,500 | 5,400 | 8,400 | 14,000 | 5,200 | 9,600 | |
| MW-6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | |
| Toluene (µg/L) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-1 | FP | FP | FP | FP | FP | FP | FP | NA | NA | NA | NA | NA | FP | FP | FP | FP | 14,000 | 4,500 | 3,000 | 3,000 | 3,700 | 3,800 | 2,300 | 4,300 | 5,900 | 5,800 | 10,000 |
| MW-1A | 31,000 | FP | FP | FP | FP | 31,000 | 21,000 | 21,000 | 13,000 | 9,900 | 9,200 | 11,000 | 22,000 | 28,000 | 22,000 | FP | 15,000 | 12,000 | 16,000 | 16,000 | 11,000 | 15,000 | 830 | 11,000 | 1,900 | 7,800 | NA |
| MW-3 | 4,600 | FP | FP | FP | FP | 2,900 | 4,200 | 2,300 | 550 | 140 | 480 | 170 | 270 | 30 | FP | FP | 13,000 | 6,000 | 5,300 | 3,800 | 1,500 | 1,100 | 85 | 540 | 330 | 340 | |
| MW-4 | 6,200 | FP | FP | FP | FP | 2,500 | 790 | 4,100 | 3,400 | 1,600 | 2,100 | 470 | 3,600 | 19,000 | 19,000 | FP | 6,900 | 3,200 | 5,000 | 11,000 | NA | 460 | 11,000 | 610 | 2,100 | 3,000 | NA |
| MW-5 | 14,000 | 5,900 | 5,000 | 8,200 | 3,500 | 5,400 | 3,800 | 2,200 | 2,100 | 2,700 | 2,100 | 2,800 | 2,900 | 4,500 | 2,200 | 1,100 | 560 | 270 | 500 | 400 | 310 | 160 | 120 | 300 | 270 | 710 | |
| MW-6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | |
| o-Xylenes (µg/L) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-1 | FP | FP | FP | FP | FP | FP | FP | NA | NA | NA | NA | NA | FP | FP | FP | FP | 1,500 | 1,600 | 1,400 | 1,100 | 550 | 730 | 820 | 870 | 950 | 1,200 | |
| MW-1A | 3,000 | FP | FP | FP | FP | 2,100 | 1,500 | 1,400 | 910 | 500 | 710 | 790 | 2,700 | 2,800 | 2,100 | FP | 1,400 | 1,000 | 1,400 | 1,400 | 1,100 | 870 | 31 | 720 | 1,600 | 660 | NA |
| MW-3 | 670 | FP | FP | FP | FP | 580 | 6,000 | 580 | 190 | 68 | 140 | 49 | 68 | 15 | FP | FP | 2,400 | 930 | 800 | 870 | 490 | 430 | 25 | 250 | 200 | 230 | |
| MW-4 | 1,000 | FP | FP | FP | FP | 520 | 51 | 310 | 280 | 77 | 110 | 14 | 780 | 3,700 | 2,000 | FP | 540 | 140 | 350 | 580 | NA | ND(15) | 890 | ND(15) | 88 | 150 | NA |
| MW-5 | 1,900 | 1,400 | 1,800 | 1,400 | 1,500 | 2,800 | 1,800 | 2,800 | 1,400 | 2,000 | 16,000 | 2,000 | 2,000 | 2,300 | 2,700 | 1,900 | 1,500 | 1,500 | 1,900 | 2,000 | 420 | 1,100 | 1,500 | 1,800 | 1,100 | 1,100 | |
| MW-6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 0.5 | ND(0.5) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | |
| m-Xylenes (µg/L) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-1 | FP | FP | FP | FP | FP | FP | FP | NA | NA | NA | NA | NA | FP | FP | FP | FP | 11,000 | 8,600 | 6,600 | 4,300 | 3,000 | 2,100 | 2,800 | 3,500 | 2,500 | 5,500 | |
| MW-1A | 22,000 | FP | FP | FP | FP | 14,000 | 12,000 | 11,000 | 9,800 | 6,300 | 6,800 | 5,300 | 22,000 | 19,000 | 14,000 | FP | 100 | 7,200 | 8,500 | 12,000 | 6,800 | 5,800 | 3,000 | 6,700 | 2,300 | 4,100 | NA |
| MW-3 | 4,300 | FP | FP | FP | FP | 4,300 | 95,000 | 4,800 | 1,700 | 500 | 1,700 | 440 | 1,500 | 300 | FP | FP | 16,000 | 5,900 | 5,900 | 5,200 | 3,700 | 3,800 | 360 | 2,300 | 1,800 | 1,300 | |
| MW-4 | 7,300 | FP | FP | FP | FP | 3,200 | 3,400 | 5,400 | 5,800 | 1,800 | 2,100 | 1,800 | 10,000 | 28,000 | 13,000 | FP | 5,500 | 3,500 | 4,800 | 8,200 | NA | 6,400 | 5,000 | 2,300 | 1,600 | 2,700 | NA |
| MW-5 | 4,900 | 2,600 | 2,700 | 2,700 | 2,100 | 4,500 | 2,900 | 4,500 | 1,600 | 2,100 | 1,900 | 2,400 | 2,700 | 4,000 | 6,500 | 2,800 | 1,700 | 1,300 | 1,700 | 2,200 | 850 | 900 | 840 | 1,100 | 690 | 1,100 | |
| MW-6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(0.60) | ND(0.60) | ND(0.60) | ND(0.60) | ND(0.60) | ND(0.60) | |
| MTBE (µg/L) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | FP | FP | ND(500) | ND(500) | 300 | 420 | ND(50) | ND(50) | ND(50) | ND(50) | ND(25) | ND(250) | |
| MW-1A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 1,800 | ND(500) | ND(500) | 1,900 | 300 | ND(50) | ND(50) | ND(50) | ND(50) | ND(25) | NA | |
| MW-3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | FP | FP | ND(500) | ND(100) | ND(300) | 350 | ND(25) | ND(50) | ND(50) | ND(25) | ND(25) | 10 | |
| MW-4 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 1,400 | ND(300) | ND(500) | 270 | NA | ND(50) | ND(50) | ND(50) | ND(25) | ND(25) | NA | |
| MW-5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 600 | 300 | ND(100) | ND(500) | ND(1000) | 350 | ND(10) | ND(50) | ND(50) | ND(50) | ND(25) | ND(100) | |
| MW-6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | NA | NA | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(5) | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | |

TPHg = total petroleum hydrocarbons as gasoline
 MTBE = methyl t-butyl ether
 (mg/l) milligrams per liter
 (µg/l) micrograms per liter

ND = Not detected above the reporting limit in parenthesis
 NA = Not analyzed
 FP = Free Product - well not sampled
 -- = Well did not exist at date indicated

¹ A sample was collected on this date both post and pre purge. The sample results collected pre purge is shown on Table 3.

**Table 4. Groundwater Monitoring Analytical Results
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California**

| | 9/29/1999 ^f | 11/22/1999 | 2/11/2000 | 5/30/2000 | 9/15/2000 | 11/16/2000 | 4/2/2001 | 6/28/2001 | 8/30/2001 | 12/26/2001 | 4/24/2002 | 6/14/2002 | 8/20/2002 | 12/27/2002 | 4/1/2003 ^g |
|---|------------------------|------------|-----------|---------------------|----------------------|----------------------|--------------------|-------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|------------|-----------------------|
| TPHg (mg/L) | | | | | | | | | | | | | | | |
| MW-1 | 14 | 24 | 19 | 19 | 20 | 18 | 19 | 39 | 31 | 34 | 35 | 35 | 26 | 28 | 16 |
| MW-3 | 4.1 | 3.1 | 0.54 | 0.49 | 1.5 | 1.3 | 0.17 | 4.9 | 3.1 | 0.95 | 300 | 4.6 | 4.9 | 4 | 5.9 |
| MW-5 | 10 | 30 | 23 | 19 | 24 | 1.8 | 15 | 3.6 | 34 | 1.9 | 9.4 | 1.7 | 3.2 | *6.2 | NA ⁴ |
| MW-6 | ND<0.5 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | 0.066 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 |
| Benzene (µg/L) | | | | | | | | | | | | | | | |
| MW-1 | 6,200 | 4,900 | 4,100 | 5,700 | 4,100 | 3,500 | 4,700 | 5,200 | 5,600 | 5,300 | 4,900 | 5400 | 4100 | 4,500 | 4500 |
| MW-3 | 180 | 6.5 | 8.3 | 11 | 28 | 20 | 9 | 150 | 42 | 8 | 11 | 130 | 330 | 110 | 370 |
| MW-5 | 14,000 | 11,000 | 12,000 | 9,900 | 3,800 | 470 | 7,400 | 300 | 8,300 | 300 | 2,300 | 110 | 320 | *2200 | NA ⁴ |
| MW-6 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.30 | ND<0.30 | ND<0.50 | ND<0.50 | 3.6 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | ND<0.5 |
| Toluene (µg/L) | | | | | | | | | | | | | | | |
| MW-1 | 5,900 | 5,000 | 4,800 | 8,400 | 5,700 | 4,300 | 5,200 | 4,200 | 5,100 | 5,200 | 6,000 | 6,800 | 4700 | 5,000 | 6000 |
| MW-3 | 340 | 33 | 20 | 5.6 | 14 | 34 | 6.2 | 240 | 48 | 5.2 | 4.8 | 470 | 170 | 280 | 150 |
| MW-5 | 470 | 3,400 | 4,500 | 6,900 | 3,000 | 220 | 3,000 | 11 | 3,000 | 110 | 130 | ND<2.5 | 8.6 | *140 | NA ⁴ |
| MW-6 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.30 | ND<0.30 | 2.9 | ND<0.50 | 3.6 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.05 | ND<0.05 |
| Ethylbenzene (µg/L) | | | | | | | | | | | | | | | |
| MW-1 | 620 | 730 | 530 | 730 | 540 | 640 | 570 | 660 | 560 | 630 | 740 | 870 | 620 | 660 | 680 |
| MW-3 | 130 | 27 | 2.4 | 0.45 | 2.6 | 25 | 1.4 | 38 | 26 | 1.1 | 0.72 | 91 | 40 | 57 | 44 |
| MW-5 | 1,100 | 1,500 | 1,200 | 1,200 | 460 | 39 | 1000 | 16 | 1,400 | 55 | 300 | 7.2 | 22 | *160 | NA ⁴ |
| MW-6 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.30 | ND<0.30 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | ND<0.5 |
| Total Xylenes (µg/L) | | | | | | | | | | | | | | | |
| MW-1 | 3,500 | 3,500 | 2,800 | 3,500 | 2,700 | 3,200 | 2,600 | 3,900 | 2,500 | 2,400 | 3,100 | 3500 | 2700 | 3,000 | 3100 |
| MW-3 | 580 | 260 | 28 | 17 | 160 | 28 | 8.1 | 160 | 210 | 7 | 1.4 | 390 | 150 | 260 | 230 |
| MW-5 | 600 | 2,500 | 1,300 | 2,600 | 1,200 | 100 | 2,200 | 15 | 2,600 | 120 | 270 | ND<2.5 | 19 | *250 | NA ⁴ |
| MW-6 | ND<0.6 | ND<0.6 | ND<0.6 | ND<0.6 | ND<0.6 | ND<0.60 | ND<0.30 | 2.7 | ND<0.50 | 8.7 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | ND<0.5 |
| MTBE (µg/L) (EPA Method 8020) | | | | | | | | | | | | | | | |
| MW-1 | ND<250 | ND<100 | 6.6 | ND<5.0 ¹ | ND<12 ^{1,2} | ND<40 ^{1,2} | 50 ¹ | 8.5 ¹ | ND<100 ^{1,2} | ND<120 | ND<120 | ND<250 | ND<120 | ND<120 | ND<120 |
| MW-3 | 14 | ND<1.0 | 31 | ND<5.0 ¹ | ND<5 ¹ | ND<5 ¹ | 77 ¹ | ND<2 ¹ | ND<1.2 ¹ | ND<0.50 ¹ | ND<0.50 ¹ | ND<0.50 ¹ | ND<5 ¹ | 19 | ND<1.0 ¹ |
| MW-5 | ND<100 | ND<100 | 6.6 | ND<200 | ND<10 ^{1,2} | ND<5 ¹ | ND<50 ¹ | 4.4 ¹ | ND<50 ¹ | ND<10 ¹ | ND<50 | ND<0.50 ¹ | ND<0.50 ¹ | *ND(25) | NA ⁴ |
| MW-6 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | 5 ^{1,3} | 17 ¹ | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 |
| Ethylene Dichloride⁷ (µg/L) (EPA Method 8260) | | | | | | | | | | | | | | | |
| MW-1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 370 | ND<120 |
| MW-3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND<12 | NA |
| MW-5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 220 | NA ⁴ |
| MW-6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND<0.5 | NA |

mg/l = milligrams per liter

µg/l = micrograms per liter

ND = Not detected above the reporting limit following the less than sign

NA = Not Applicable

MTBE = methyl t-butyl ether

1 Result of MTBE confirmation by EPA Method 8260.

2 Reporting limits elevated due to matrix interference.

3 Detection limit = 5 µg/L, backup sample analyzed after hold time had a result of ND<5 µg/l.

4 Data from April 1 and July 1, 2003 sampling event not available due to ORC sock obstruction in well (see report for details)

5 Samples collected post purge on this date, all other samples collected pre-purge

6 A sample was collected on this date both post and pre purge. The sample results collected post purge is shown on Table 3.

7 Monitoring for EDC began 12/27/02 per ACHCS requirement - See Table 5 for complete list of EPA 8260 analytes initially requested for monitoring. EDC was the only analyte detected of the ACHCS list and only in wells MW-1 and MW-5.

DN53087.001/Final1Q04.xls

MACTEC

* = Fourth Quarter 2002 analytical data for MW-5 collected on January 3, 2003

Table 4. (Continued)
Groundwater Monitoring Analytical Results
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

| | 7/1/2003 ² | 9/25/2003 ⁵ | 12/29/2003 ³ | 5/18/2004 |
|---|-----------------------|------------------------|-------------------------|-----------|
| TPHg (mg/L) | | | | |
| MW-1 | 61 | 59 | 46 | 23 |
| MW-3 | 12 | 10 | 7.3 | 1.5 |
| MW-5 | NA ⁴ | 43 | 26 | 15 |
| MW-6 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 |
| Benzene (µg/L) | | | | |
| MW-1 | 7,700 | 7600 | 6600 | 4,100 |
| MW-3 | 200 | 150 | 160 | 77 |
| MW-5 | NA ⁴ | 12000 | 7700 | 5,000 |
| MW-6 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| Toluene (µg/L) | | | | |
| MW-1 | 11,000 | 9400 | 7900 | 4,700 |
| MW-3 | 460 | 300 | 250 | 72 |
| MW-5 | NA ⁴ | 2800 | 1900 | 1,300 |
| MW-6 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.5 |
| Ethylbenzene (µg/L) | | | | |
| MW-1 | 1200 | 1000 | 960 | 450 |
| MW-3 | 130 | 120 | 79 | 19.00 |
| MW-5 | NA ⁴ | 1500 | 910 | 380 |
| MW-6 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| Total Xylenes (µg/L) | | | | |
| MW-1 | 6700 | 4800 | 4000 | 1,500 |
| MW-3 | 390 | 280 | 210 | 59 |
| MW-5 | NA ⁴ | 3000 | 210 | 770 |
| MW-6 | ND<2.5 | ND<2.5 | ND<0.5 | ND<0.5 |
| MTBE (µg/L) (EPA Method 8020) | | | | |
| MW-1 | ND<250 | ND<1200 | ND<250 | ND<50 |
| MW-3 | ND<5 ¹ | ND<2.5 ¹ | ND<2.5 ¹ | ND<12 |
| MW-5 | NA ⁴ | ND<1200 | ND<2.5 ¹ | ND<50 |
| MW-6 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 |
| Ethylene Dichloride (µg/L) (EPA Method 8260) | | | | |
| MW-1 | 400 | ⁶ 500 | 360 | 320 |
| MW-3 | NA | NA | NA | NA |
| MW-5 | NA | 610 | 410 | 290 |
| MW-6 | NA | NA | NA | NA |

mg/l = milligrams per liter

µg/l = micrograms per liter

ND = Not detected above the reporting limit following the less than sign

NA = Not Applicable

MTBE = methyl t-butyl ether

1 Result of MTBE confirmation by EPA Method 8260.

2 Reporting limits elevated due to matrix interference.

3 Detection limit = 5 µg/L, backup sample analyzed after hold time had a result of ND<5 µg/L.

4 Data from April 1 and July 1, 2003 sampling event not available due to ORC sock obstruction in well (see report for details)

5 Samples collected post purge on this date, all other samples collected pre-purge

6 A sample was collected on this date both post and pre purge. The sample results collected post purge is shown on Table 3.

7 Monitoring for EDC began 12/27/02 per ACHCS requirement - See Table 5

for complete list of EPA 8260 analytes initially requested for monitoring.

EDC was the only analyte detected of the ACHCS list and only in MW-1 and MW-5.

MACTEC

Table 5. Groundwater Monitoring Analytical Results
EPA Method 8260
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

| | ¹ 12/27/2002 | ² 4/1/2003 | ² 7/1/2003 | ² 9/25/2003 | ² 12/29/2003 | ¹ 5/18/2004 |
|--------------------------------------|-------------------------|-----------------------|-----------------------|------------------------|-------------------------|------------------------|
| tert Amyl Methyl Ether (µg/L) | | | | | | |
| MW-1 | ND<250 | NR | NR | NR | NR | NR |
| MW-3 | ND<25 | NR | NR | NR | NR | NR |
| MW-5 | *ND<100 | NR | NR | NR | NR | NR |
| MW-6 | ND<1 | NR | NR | NR | NR | NR |
| Ethyl tert Butyl Ether (µg/L) | | | | | | |
| MW-1 | ND<250 | NR | NR | NR | NR | NR |
| MW-3 | ND<25 | NR | NR | NR | NR | NR |
| MW-5 | *ND<100 | NR | NR | NR | NR | NR |
| MW-6 | ND<1 | NR | NR | NR | NR | NR |
| Di-isopropyl Ether (µg/L) | | | | | | |
| MW-1 | ND<250 | NR | NR | NR | NR | NR |
| MW-3 | ND<25 | NR | NR | NR | NR | NR |
| MW-5 | *ND<100 | NR | NR | NR | NR | NR |
| MW-6 | ND<1 | NR | NR | NR | NR | NR |
| tert Butyl Alcohol (µg/L) | | | | | | |
| MW-1 | ND<5000 | NR | NR | NR | NR | NR |
| MW-3 | ND<500 | NR | NR | NR | NR | NR |
| MW-5 | *ND<2000 | NR | NR | NR | NR | NR |
| MW-6 | ND<20 | NR | NR | NR | NR | NR |
| Ethylene Dibromide (µg/L) | | | | | | |
| MW-1 | ND<120 | NR | NR | NR | NR | NR |
| MW-3 | ND<12 | NR | NR | NR | NR | NR |
| MW-5 | *ND<50 | NR | NR | NR | NR | NR |
| MW-6 | ND<0.5 | NR | NR | NR | NR | NR |
| Ethylene Dichloride (µg/L) | | | | | | |
| MW-1 | 370 | ND<120 | 400 | ^a 500 | 360 | 320 |
| MW-3 | ND<12 | NR | NR | NR | NR | NR |
| MW-5 | *220 | NR | NR | 610 | 410 | 290 |
| MW-6 | ND<0.5 | NR | NR | NR | NR | NR |

Notes:

Analtes shown on this table monitored per ACHCS requiement described in the September 27, 2002 letter to BPS from the ACHCS (see report text for details).

µg/l = micrograms per liter

ND = Not detected above the reporting limit

NR = Not Required per ACHCS direction indicating if analyte not detected during 12/27/02 sampling event then the anayted does not need continued monitoring/MW-1 and MW-5 are the only wells currently sampled for Ethylene Dichloride (see report text for details)



* = Analytical data collected for MW-5 on January 3, 2003

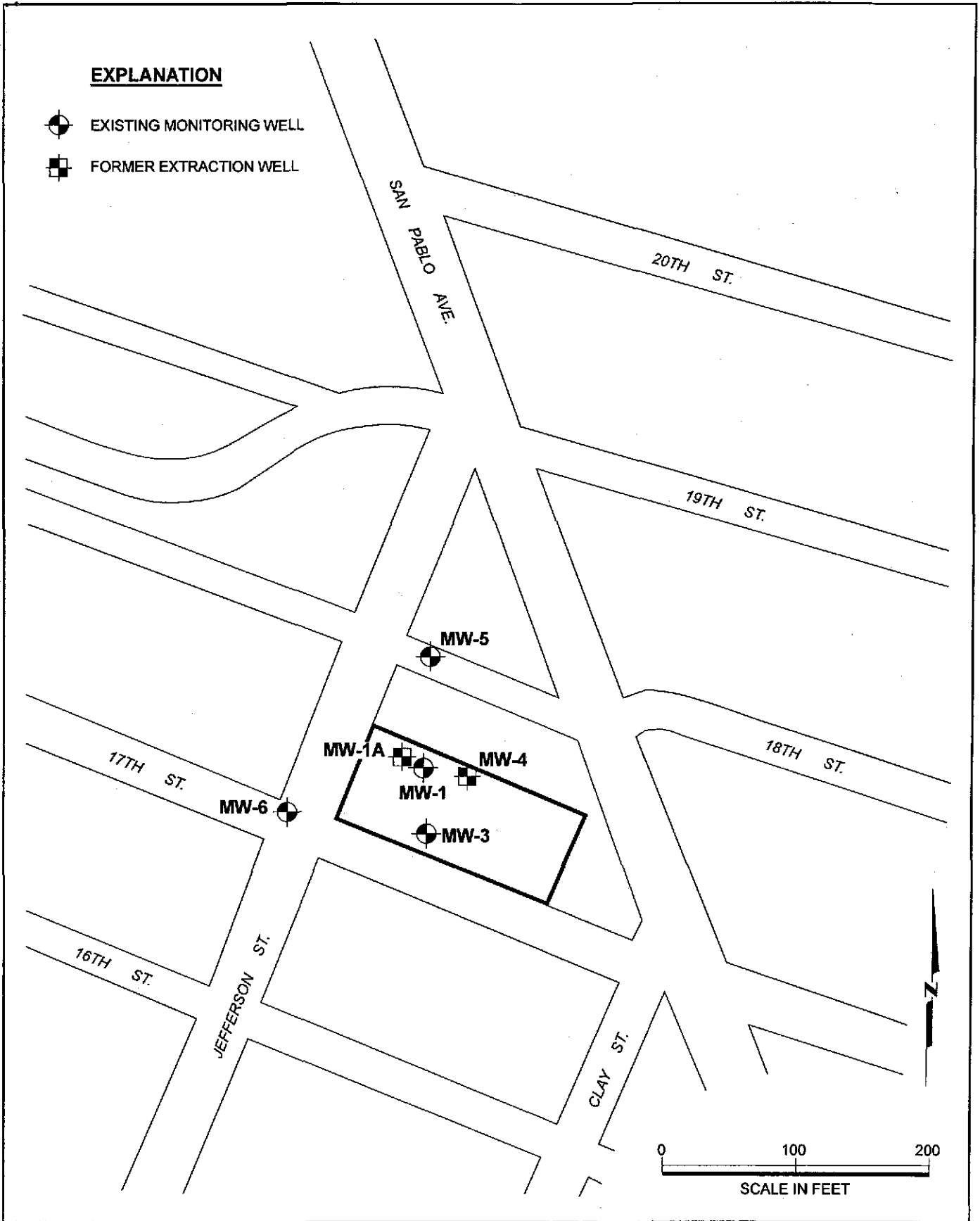
a = EDC detected at same concentration as detecton limit

1 = Samples on this date collected pre purge

2=Samples on this date collected post purge

EXPLANATION

-  EXISTING MONITORING WELL
-  FORMER EXTRACTION WELL



MACTEC




Site Map
First Quarter 2004
1700 Jefferson Street
BPS Reprographic Services Facility
Oakland, California

PLATE

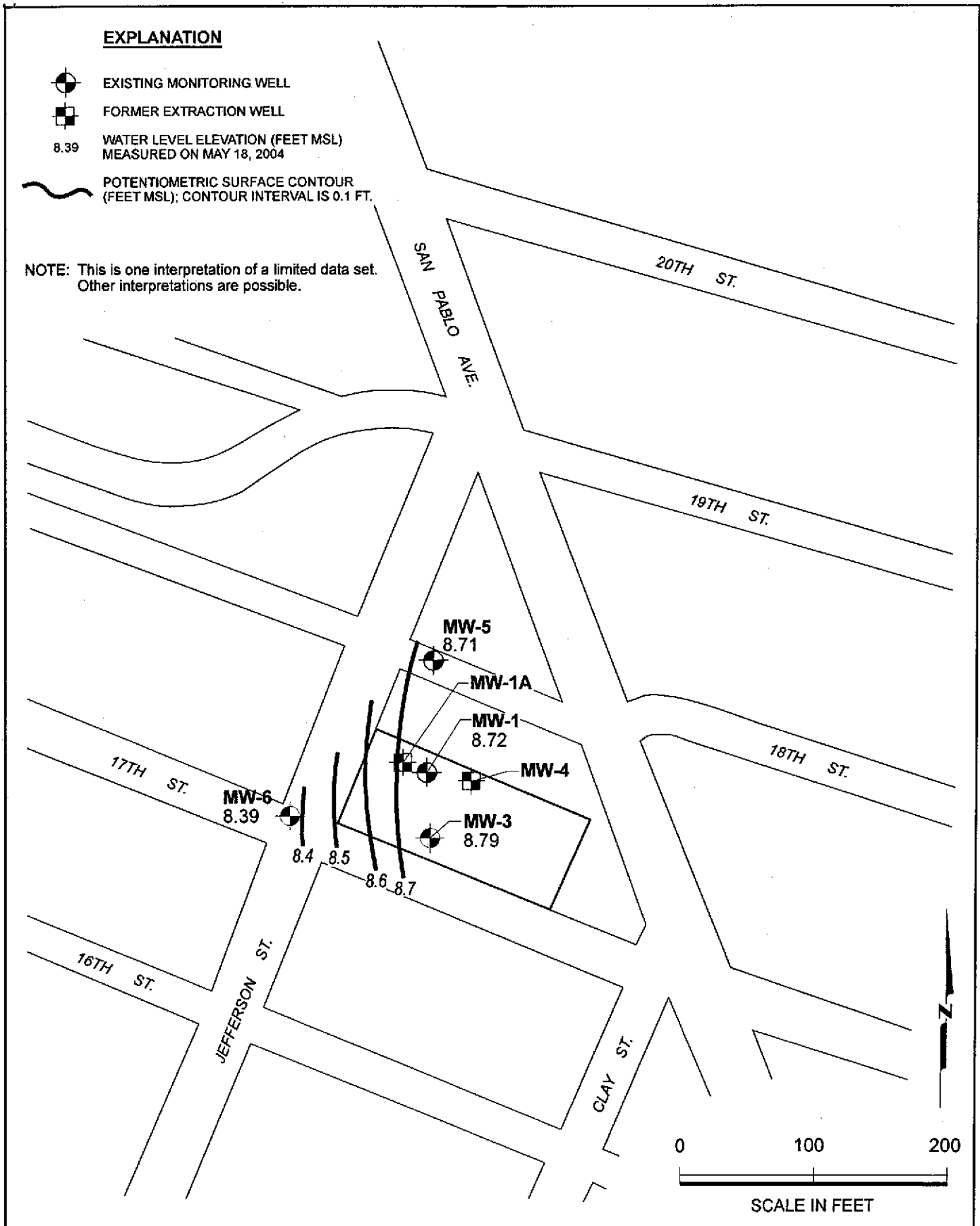
1

| | | | | |
|-------------|---------------------------------|----------|--------------|--------------|
| DRAWN CN | PROJECT NUMBER 4097041918 01 | APPROVED | DATE 6/04 | REVISED DATE |
|-------------|---------------------------------|----------|--------------|--------------|

EXPLANATION

-  EXISTING MONITORING WELL
-  FORMER EXTRACTION WELL
- 8.39 WATER LEVEL ELEVATION (FEET MSL)
MEASURED ON MAY 18, 2004
-  POTENTIOMETRIC SURFACE CONTOUR
(FEET MSL); CONTOUR INTERVAL IS 0.1 FT.

NOTE: This is one interpretation of a limited data set.
Other interpretations are possible.



MACTEC

Groundwater Contours
First Quarter 2004
1700 Jefferson Street
BPS Reprographic Services Facility
Oakland, California

PLATE

2

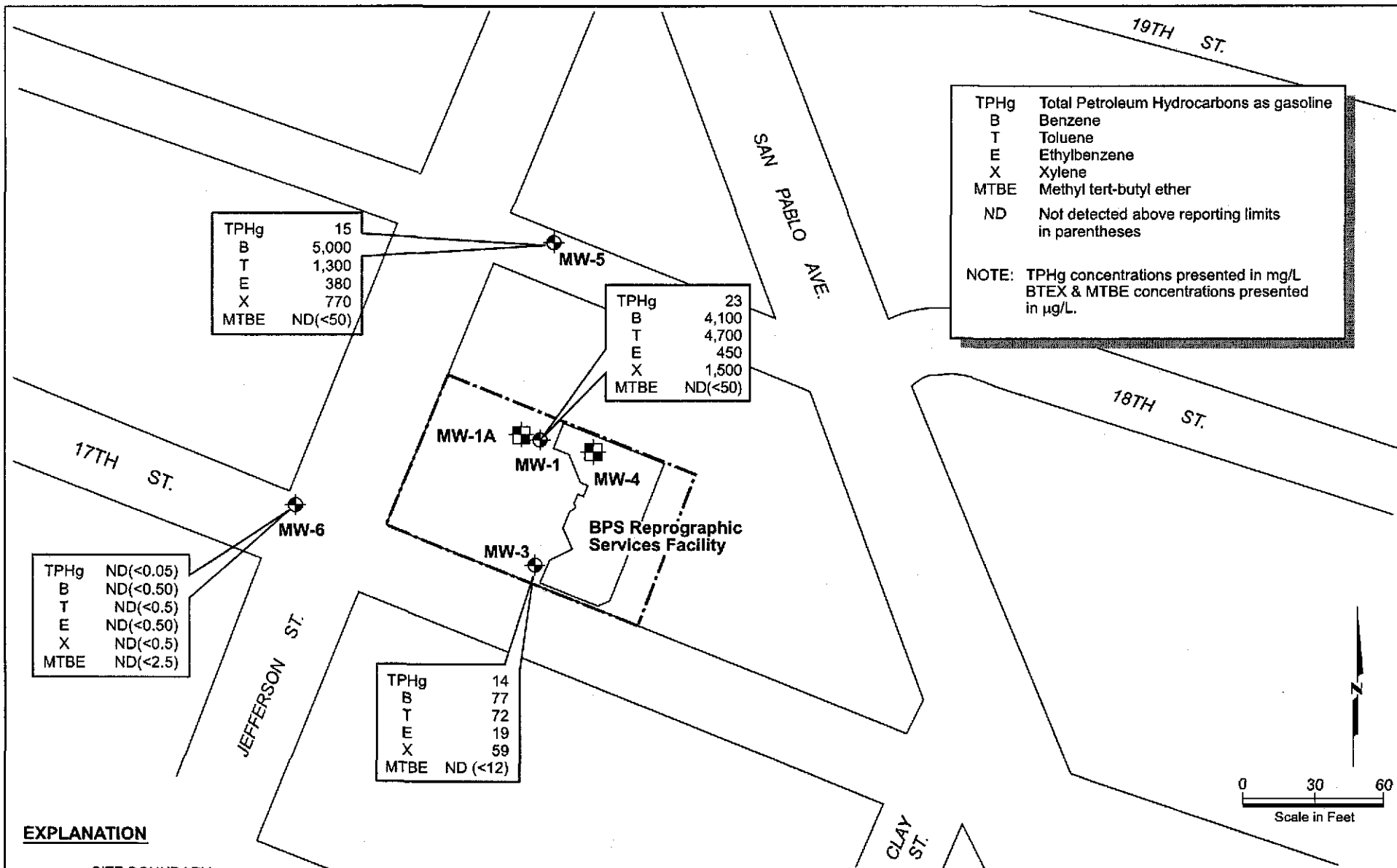
DRAWN
CN

PROJECT NUMBER
4097041918 01

APPROVED

DATE
6/04

REVISED DATE



EXPLANATION

- SITE BOUNDARY
- ⊕ MONITORING WELL
- ⊞ FORMER EXTRACTION WELL
- mg/L MILIGRAMS PER LITER
- µg/L MICROGRAMS PER LITER



MACTEC

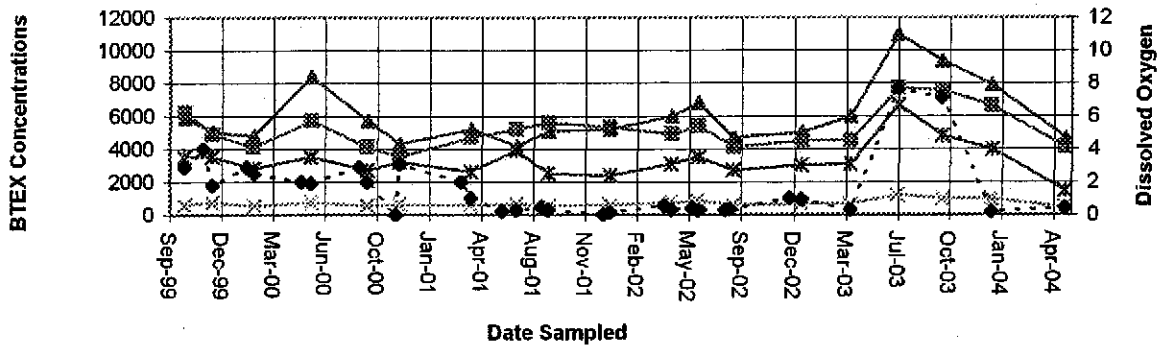
DRAWN PROJECT NUMBER
CN 4904048788 01

TPHg, BTEX, and MTBE Concentrations in Groundwater PLATE
First Quarter 2004
1700 Jefferson Street
BPS Reprographic Services Facility
Oakland, California

APPROVED DATE REVISED DATE
6/04

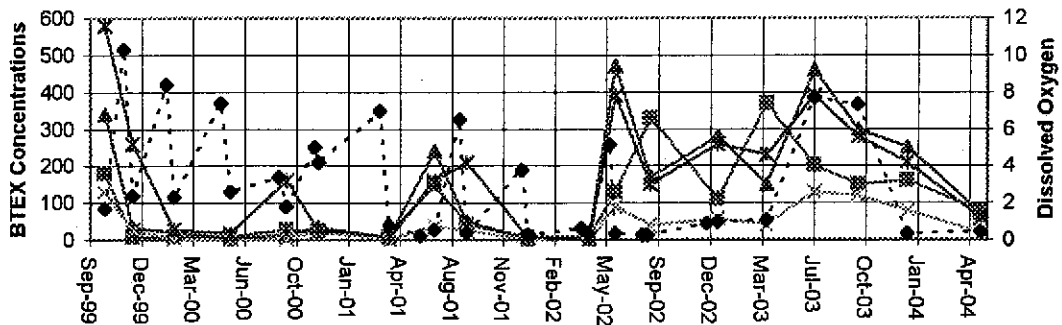
3

MW-1



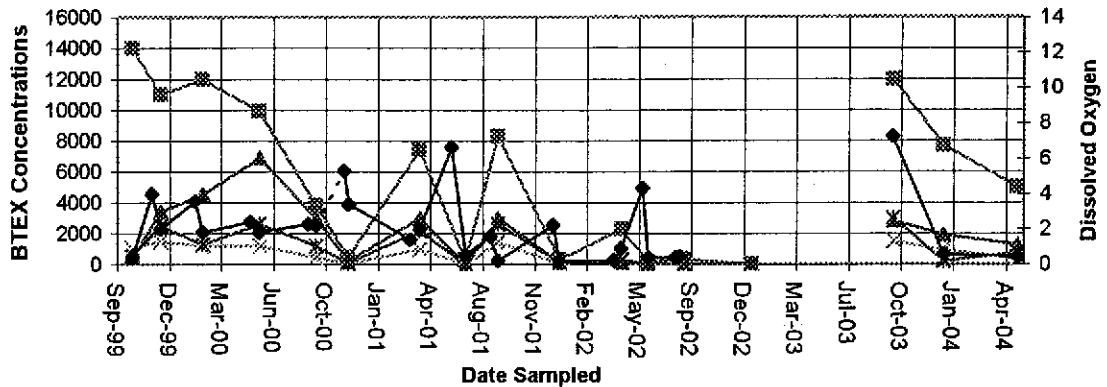
Date Sampled
 (Samples collected post purge between July, 2003 and December, 2003, all other samples collected pre-purge.
 ORC removed after Sept. 2002.)

MW-3



Date Sampled
 (Samples collected post purge between July, 2003 and December, 2003, all other samples collected pre-purge.
 ORC removed after Sept. 2002.)

MW-5



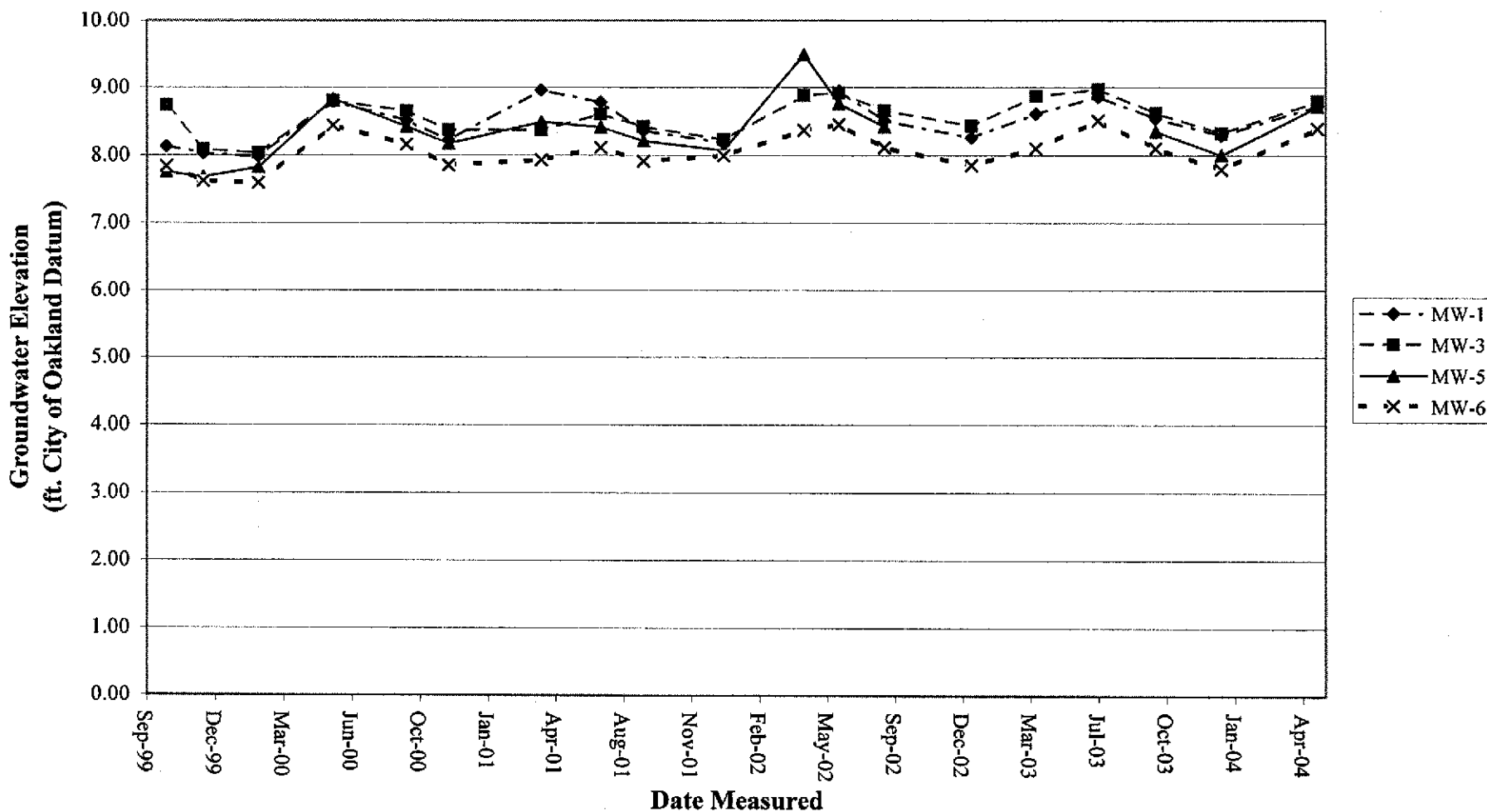
Date Sampled
 (Samples collected post purge between July 2003 and December 2003, all other samples collected pre-purge.
 ORC Sock stuck in MW-5 from Jan. 2003 to Sep. 2003.)

Benzene (µg/L)
 Toluene (µg/L)
 Ethylbenzene (µg/L)
 Total Xylenes (µg/L)
 Dissolved Oxygen (mg/L)



BTEX and DO Results
 First Quarter 2004
 BPS Reprographic Services Facility
 1700 Jefferson Steet
 Oakland, California

Plate
4



(ORC sock stuck in MW-5 between Jan. to Sep. 2003 - No groundwater elevations monitored in MW-5 during that time)



Groundwater Elevation Data
 First Quarter 2004
 BPS Reprographic Services Facility
 1700 Jefferson Steet
 Oakland, California

Plate

5

| DRAWN | JOB NUMBER | APPROVED | DATE | REVISION DATE |
|-------|------------|----------|----------|---------------|
| DSN | 4097041918 | | 6/1/2004 | |

APPENDIX A
LABORATORY REPORTS



10 June, 2004

Basil Falcone
MACTEC E&C - Petaluma
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

RE: General Commercial
Work Order: P405531

Enclosed are the results of analyses for samples received by the laboratory on 05/18/04 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stacy P. Hoch
Dept Manager - Client Services

CA ELAP Certificate #2374



MACTEC E&C - Petaluma
5341 Old Redwood Highway, Suite 300
Petaluma CA, 94954

Project: General Commercial
Project Number: BPS Services Formerly City Blue
Project Manager: Basil Falcone

P405531
Reported:
06/10/04 09:58

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| 530876 | P405531-01 | Water | 05/18/04 08:15 | 05/18/04 14:15 |
| 530875 | P405531-02 | Water | 05/18/04 09:20 | 05/18/04 14:15 |
| 530873 | P405531-03 | Water | 05/18/04 10:25 | 05/18/04 14:15 |
| 530871 | P405531-04 | Water | 05/18/04 11:00 | 05/18/04 14:15 |
| 530877 | P405531-05 | Water | 05/18/04 11:50 | 05/18/04 14:15 |

eo!

MACTEC E&C - Petaluma
 5341 Old Redwood Highway, Suite 300
 Petaluma CA, 94954

 Project: General Commercial
 Project Number: BPS Services Formerly City Blue
 Project Manager: Basil Falcone

 P405531
 Reported:
 06/10/04 09:58

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B
Sequoia Analytical - Petaluma

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|---------|----------|----------|--------------------|-------|
| 530876 (P405531-01) Water Sampled: 05/18/04 08:15 Received: 05/18/04 14:15 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | 1 | 4050700 | 05/28/04 | 05/28/04 | EPA 8015B/8021B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | ND | 2.5 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 103 % | 65-135 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 102 % | 65-135 | | " | " | " | " | |
| 530875 (P405531-02) Water Sampled: 05/18/04 09:20 Received: 05/18/04 14:15 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | 1500 | 1000 | ug/l | 20 | 4050700 | 05/28/04 | 05/28/04 | EPA 8015B/8021B | |
| Benzene | 500 | 10 | " | " | " | " | " | " | |
| Toluene | 1300 | 10 | " | " | " | " | " | " | |
| Ethylbenzene | 380 | 10 | " | " | " | " | " | " | |
| Xylenes (total) | 770 | 10 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | ND | 50 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 101 % | 65-135 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 102 % | 65-135 | | " | " | " | " | |
| 530873 (P405531-03) Water Sampled: 05/18/04 10:25 Received: 05/18/04 14:15 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | 1500 | 250 | ug/l | 5 | 4050700 | 05/28/04 | 05/28/04 | EPA 8015B/8021B | |
| Benzene | 77 | 2.5 | " | " | " | " | " | " | |
| Toluene | 72 | 2.5 | " | " | " | " | " | " | |
| Ethylbenzene | 19 | 2.5 | " | " | " | " | " | " | |
| Xylenes (total) | 59 | 2.5 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | ND | 12 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 102 % | 65-135 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 103 % | 65-135 | | " | " | " | " | |

MACTEC E&C - Petaluma
 5341 Old Redwood Highway, Suite 300
 Petaluma CA, 94954

 Project: General Commercial
 Project Number: BPS Services Formerly City Blue
 Project Manager: Basil Falcone

 P405531
 Reported:
 06/10/04 09:58

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B
Sequoia Analytical - Petaluma

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|---------|----------|----------|--------------------|-------|
| 530871 (P405531-04) Water Sampled: 05/18/04 11:00 Received: 05/18/04 14:15 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | 23000 | 1000 | ug/l | 20 | 4050700 | 05/28/04 | 05/28/04 | EPA 8015B/8021B | |
| Benzene | 4100 | 10 | " | " | " | " | " | " | |
| Toluene | 4700 | 10 | " | " | " | " | " | " | |
| Ethylbenzene | 450 | 10 | " | " | " | " | " | " | |
| Xylenes (total) | 1500 | 10 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | ND | 50 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 105 % | 65-135 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 99 % | 65-135 | | " | " | " | " | |
| 530877 (P405531-05) Water Sampled: 05/18/04 11:50 Received: 05/18/04 14:15 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | 1 | 4050700 | 05/28/04 | 05/28/04 | EPA 8015B/8021B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | ND | 2.5 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 103 % | 65-135 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 103 % | 65-135 | | " | " | " | " | |



MACTEC E&C - Petaluma
 5341 Old Redwood Highway, Suite 300
 Petaluma CA, 94954

Project: General Commercial
 Project Number: BPS Services Formerly City Blue
 Project Manager: Basil Falcone

P405531
 Reported:
 06/10/04 09:58

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Petaluma

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|---------|----------|----------|-----------|-------|
| 530875 (P405531-02) Water Sampled: 05/18/04 09:20 Received: 05/18/04 14:15 | | | | | | | | | |
| 1,2-Dichloroethane | 290 | 100 | ug/l | 100 | 4060017 | 06/01/04 | 06/01/04 | EPA 8260B | |
| Surrogate: Dibromofluoromethane | | 97 % | 84-122 | | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 100 % | 74-135 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 87 % | 84-119 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 94 % | 86-119 | | " | " | " | " | |
| 530871 (P405531-04) Water Sampled: 05/18/04 11:00 Received: 05/18/04 14:15 | | | | | | | | | |
| 1,2-Dichloroethane | 320 | 100 | ug/l | 100 | 4060017 | 06/01/04 | 06/01/04 | EPA 8260B | |
| Surrogate: Dibromofluoromethane | | 90 % | 84-122 | | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 95 % | 74-135 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 88 % | 84-119 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 90 % | 86-119 | | " | " | " | " | |



MACTEC E&C - Petaluma
 5341 Old Redwood Highway, Suite 300
 Petaluma CA, 94954

Project: General Commercial
 Project Number: BPS Services Formerly City Blue
 Project Manager: Basil Falcone

P405531
 Reported:
 06/10/04 09:58

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
Sequoia Analytical - Petaluma

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 4050700 - EPA 5030B, waters

Blank (4050700-BLK1)

Prepared & Analyzed: 05/28/04

| | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|-----|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | " | | | | | | | |
| Toluene | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Xylenes (total) | ND | 0.50 | " | | | | | | | |
| Methyl tert-butyl ether | ND | 2.5 | " | | | | | | | |
| Surrogate: a,a,a-Trifluorotoluene | 304 | | " | 300 | | 101 | 65-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 325 | | " | 300 | | 108 | 65-135 | | | |

Laboratory Control Sample (4050700-BS1)

Prepared & Analyzed: 05/28/04

| | | | | | | | | | | |
|-----------------------------------|------|------|------|------|--|-----|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 2080 | 50 | ug/l | 2750 | | 76 | 65-135 | | | |
| Benzene | 33.6 | 0.50 | " | 34.0 | | 99 | 65-135 | | | |
| Toluene | 186 | 0.50 | " | 192 | | 97 | 65-135 | | | |
| Ethylbenzene | 39.8 | 0.50 | " | 46.0 | | 87 | 65-135 | | | |
| Xylenes (total) | 204 | 0.50 | " | 222 | | 92 | 65-135 | | | |
| Methyl tert-butyl ether | 74.2 | 2.5 | " | 56.5 | | 131 | 65-135 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 328 | | " | 300 | | 109 | 65-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 329 | | " | 300 | | 110 | 65-135 | | | |

Matrix Spike (4050700-MS1)

Source: P405437-09

Prepared & Analyzed: 05/28/04

| | | | | | | | | | | |
|-----------------------------------|------|------|------|------|------|-----|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 1950 | 50 | ug/l | 2750 | 21 | 70 | 65-135 | | | |
| Benzene | 32.8 | 0.50 | " | 34.0 | 0.23 | 96 | 65-135 | | | |
| Toluene | 183 | 0.50 | " | 192 | ND | 95 | 65-135 | | | |
| Ethylbenzene | 38.7 | 0.50 | " | 46.0 | ND | 84 | 65-135 | | | |
| Xylenes (total) | 201 | 0.50 | " | 222 | 0.41 | 90 | 65-135 | | | |
| Methyl tert-butyl ether | 72.6 | 2.5 | " | 56.5 | 0.36 | 128 | 65-135 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 333 | | " | 300 | | 111 | 65-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 314 | | " | 300 | | 105 | 65-135 | | | |



MACTEC E&C - Petaluma
 5341 Old Redwood Highway, Suite 300
 Petaluma CA, 94954

Project: General Commercial
 Project Number: BPS Services Formerly City Blue
 Project Manager: Basil Falcone

P405531
 Reported:
 06/10/04 09:58

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
Sequoia Analytical - Petaluma

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 4050700 - EPA 5030B, waters

Matrix Spike Dup (4050700-MSD1)

Source: P405437-09

Prepared & Analyzed: 05/28/04

| | | | | | | | | | | |
|-----------------------------------|------|------|------|------|------|-----|--------|-----|----|--|
| Gasoline Range Organics (C6-C10) | 1970 | 50 | ug/l | 2750 | 21 | 71 | 65-135 | 1 | 20 | |
| Benzene | 32.5 | 0.50 | " | 34.0 | 0.23 | 95 | 65-135 | 0.9 | 20 | |
| Toluene | 185 | 0.50 | " | 192 | ND | 96 | 65-135 | 1 | 20 | |
| Ethylbenzene | 39.3 | 0.50 | " | 46.0 | ND | 85 | 65-135 | 2 | 20 | |
| Xylenes (total) | 202 | 0.50 | " | 222 | 0.41 | 91 | 65-135 | 0.5 | 20 | |
| Methyl tert-butyl ether | 72.1 | 2.5 | " | 56.5 | 0.36 | 127 | 65-135 | 0.7 | 20 | |
| Surrogate: a,a,a-Trifluorotoluene | 334 | | " | 300 | | 111 | 65-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 319 | | " | 300 | | 106 | 65-135 | | | |



MACTEC E&C - Petaluma
 5341 Old Redwood Highway, Suite 300
 Petaluma CA, 94954

Project: General Commercial
 Project Number: BPS Services Formerly City Blue
 Project Manager: Basil Falcone

P405531
 Reported:
 06/10/04 09:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 4060017 - EPA 5030B waters

Blank (4060017-BLK1)

Prepared & Analyzed: 06/01/04

| | | | | | | | | | | |
|-----------------------------|----|-----|------|--|--|--|--|--|--|--|
| Acetone | ND | 10 | ug/l | | | | | | | |
| Benzene | ND | 1.0 | " | | | | | | | |
| Bromobenzene | ND | 1.0 | " | | | | | | | |
| Bromochloromethane | ND | 1.0 | " | | | | | | | |
| Bromodichloromethane | ND | 1.0 | " | | | | | | | |
| Bromoform | ND | 1.0 | " | | | | | | | |
| Bromomethane | ND | 1.0 | " | | | | | | | |
| 2-Butanone | ND | 10 | " | | | | | | | |
| n-Butylbenzene | ND | 1.0 | " | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | " | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | " | | | | | | | |
| Carbon disulfide | ND | 10 | " | | | | | | | |
| Carbon tetrachloride | ND | 1.0 | " | | | | | | | |
| Chlorobenzene | ND | 1.0 | " | | | | | | | |
| Chloroethane | ND | 1.0 | " | | | | | | | |
| Chloroform | ND | 1.0 | " | | | | | | | |
| Chloromethane | ND | 1.0 | " | | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | " | | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | " | | | | | | | |
| Dibromochloromethane | ND | 1.0 | " | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | " | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | " | | | | | | | |
| Dibromomethane | ND | 1.0 | " | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | " | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | " | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | " | | | | | | | |
| Dichlorodifluoromethane | ND | 1.0 | " | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | " | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | " | | | | | | | |
| 1,1-Dichloroethene | ND | 1.0 | " | | | | | | | |
| cis-1,2-Dichloroethene | ND | 1.0 | " | | | | | | | |
| trans-1,2-Dichloroethene | ND | 1.0 | " | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | " | | | | | | | |
| 1,3-Dichloropropane | ND | 1.0 | " | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | " | | | | | | | |
| 1,1-Dichloropropene | ND | 1.0 | " | | | | | | | |

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



MACTEC E&C - Petaluma
5341 Old Redwood Highway, Suite 300
Petaluma CA, 94954

Project: General Commercial
Project Number: BPS Services Formerly City Blue
Project Manager: Basil Falcone

P405531
Reported:
06/10/04 09:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 4060017 - EPA 5030B waters

Blank (4060017-BLK1)

Prepared & Analyzed: 06/01/04

| | | | | | | | | | | |
|----------------------------------|------|-----|------|------|--|----|--------|--|--|--|
| cis-1,3-Dichloropropene | ND | 1.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | " | | | | | | | |
| Ethylbenzene | ND | 1.0 | " | | | | | | | |
| Freon 113 | ND | 1.0 | " | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | " | | | | | | | |
| 2-Hexanone | ND | 10 | " | | | | | | | |
| Isopropylbenzene | ND | 1.0 | " | | | | | | | |
| p-Isopropyltoluene | ND | 1.0 | " | | | | | | | |
| Methylene chloride | ND | 1.0 | " | | | | | | | |
| 4-Methyl-2-pentanone | ND | 10 | " | | | | | | | |
| Methyl tert-butyl ether | ND | 1.0 | " | | | | | | | |
| Naphthalene | ND | 1.0 | " | | | | | | | |
| Propylbenzene | ND | 1.0 | " | | | | | | | |
| Styrene | ND | 1.0 | " | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | " | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | " | | | | | | | |
| Tetrachloroethene | ND | 1.0 | " | | | | | | | |
| Toluene | ND | 1.0 | " | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | " | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | " | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | " | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | " | | | | | | | |
| Trichloroethene | ND | 1.0 | " | | | | | | | |
| Trichlorofluoromethane | ND | 1.0 | " | | | | | | | |
| 1,2,3-Trichloropropane | ND | 1.0 | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | " | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | " | | | | | | | |
| Vinyl acetate | ND | 20 | " | | | | | | | |
| Vinyl chloride | ND | 1.0 | " | | | | | | | |
| m,p-Xylene | ND | 1.0 | " | | | | | | | |
| o-Xylene | ND | 1.0 | " | | | | | | | |
| Surrogate: Dibromofluoromethane | 4.02 | | " | 4.50 | | 89 | 84-122 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 4.17 | | " | 4.50 | | 93 | 74-135 | | | |
| Surrogate: Toluene-d8 | 4.07 | | " | 4.50 | | 90 | 84-119 | | | |
| Surrogate: 4-Bromofluorobenzene | 4.13 | | " | 4.50 | | 92 | 86-119 | | | |

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



MACTEC E&C - Petaluma
 5341 Old Redwood Highway, Suite 300
 Petaluma CA, 94954

Project: General Commercial
 Project Number: BPS Services Formerly City Blue
 Project Manager: Basil Falcone

P405531
 Reported:
 06/10/04 09:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 4060017 - EPA 5030B waters

Laboratory Control Sample (4060017-BS1)

Prepared & Analyzed: 06/01/04

| | | | | | | | | | | |
|----------------------------------|------|-----|------|------|--|-----|--------|--|--|--|
| Benzene | 4.80 | 1.0 | ug/l | 5.00 | | 96 | 81-118 | | | |
| Chlorobenzene | 4.88 | 1.0 | " | 5.00 | | 98 | 88-119 | | | |
| 1,1-Dichloroethene | 4.21 | 1.0 | " | 5.00 | | 84 | 77-121 | | | |
| Toluene | 4.93 | 1.0 | " | 5.00 | | 99 | 84-119 | | | |
| Trichloroethene | 4.67 | 1.0 | " | 5.00 | | 93 | 83-126 | | | |
| Surrogate: Dibromofluoromethane | 3.87 | | " | 4.50 | | 86 | 84-122 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 4.03 | | " | 4.50 | | 90 | 74-135 | | | |
| Surrogate: Toluene-d8 | 4.42 | | " | 4.50 | | 98 | 84-119 | | | |
| Surrogate: 4-Bromofluorobenzene | 4.61 | | " | 4.50 | | 102 | 86-119 | | | |

Laboratory Control Sample Dup (4060017-BSD1)

Prepared & Analyzed: 06/01/04

| | | | | | | | | | | |
|----------------------------------|------|-----|------|------|--|-----|--------|---|----|--|
| Benzene | 5.13 | 1.0 | ug/l | 5.00 | | 103 | 81-118 | 7 | 20 | |
| Chlorobenzene | 5.10 | 1.0 | " | 5.00 | | 102 | 88-119 | 4 | 20 | |
| 1,1-Dichloroethene | 4.41 | 1.0 | " | 5.00 | | 88 | 77-121 | 5 | 20 | |
| Toluene | 5.25 | 1.0 | " | 5.00 | | 105 | 84-119 | 6 | 20 | |
| Trichloroethene | 5.09 | 1.0 | " | 5.00 | | 102 | 83-126 | 9 | 20 | |
| Surrogate: Dibromofluoromethane | 4.03 | | " | 4.50 | | 90 | 84-122 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 4.02 | | " | 4.50 | | 89 | 74-135 | | | |
| Surrogate: Toluene-d8 | 4.38 | | " | 4.50 | | 97 | 84-119 | | | |
| Surrogate: 4-Bromofluorobenzene | 4.64 | | " | 4.50 | | 103 | 86-119 | | | |



MACTEC E&C - Petaluma
5341 Old Redwood Highway, Suite 300
Petaluma CA, 94954

Project: General Commercial
Project Number: BPS Services Formerly City Blue
Project Manager: Basil Falcone

P405531
Reported:
06/10/04 09:58

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



Harding ESE

A MACTEC COMPANY
90 Digital Drive
Novato, CA 94949
(415) 883-0112

CHAIN OF CUSTODY FORM

Seq. No.: N^o 10271
Lab: Seqoum

Job Number: BPS Services formerly City Blue
Name/Location: Oakland
Project Manager: _____
Samplers: David Browne
Recorder: David Browne
(Signature Required)

| MATRIX | #CONTAINERS & PRESERV. | | | | SAMPLE NUMBER | DATE | | | | |
|--------|------------------------|------|-----|--------------------------------|---------------|------|-----|----|----|-----|
| | Water | Soil | Air | Unpres | | YR | SEQ | YR | MO | DAY |
| | | | | H ₂ SO ₄ | 530876 | 04 | 05 | 18 | 08 | 15 |
| | | | | HNO ₃ | 530875 | 04 | 05 | 18 | 09 | 20 |
| | | | | HCL | 530873 | 04 | 05 | 18 | 02 | 25 |
| | | | | | 530871 | 04 | 05 | 18 | 11 | 00 |
| | | | | | 530877 | 04 | 05 | 18 | 11 | 50 |

| STATION DESCRIPTION | DEPTH |
|---------------------|-------|
| P405531-01 | |
| -02 | |
| -03 | |
| -04 | |
| -05 | |

| ANALYSIS REQUESTED | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics 8015B | | | | | | | | | | |
| Diesel Range Organics 8015B | | | | | | | | | | |
| BTEX plus MTBE | | | | | | | | | | |
| CCR Title 22 Metals (17) | | | | | | | | | | |
| EPA 8021B | | | | | | | | | | |
| EPA 8260B | | | | | | | | | | |
| EPA 8270C | | | | | | | | | | |
| TPH gas (6015) | X | X | X | X | X | X | X | X | X | X |
| BTEX | X | X | X | X | X | X | X | X | X | X |
| MTBE | X | X | X | X | X | X | X | X | X | X |
| Ethylene Dichloride | X | X | X | X | X | X | X | X | X | X |

| ADDITIONAL INFORMATION | | | | | | | | | | |
|------------------------|-----|--|--|--|--|--|--|--|--|--|
| SAMPLE NUMBER | | | | | TURNAROUND TIME/REMARKS | | | | | |
| YR | SEQ | | | | STANDARD TAT | | | | | |
| | | | | | COOL CUSTODY SEAL <input type="checkbox"/> | | | | | |
| | | | | | NO CONTACT <input type="checkbox"/> | | | | | |
| | | | | | COOLER TEMPERATURE <u>5.7</u> °C | | | | | |

| CHAIN OF CUSTODY RECORD | | | |
|--|--|---|--|
| Relinquished By: <u>David Browne</u> <small>(signature)</small> | <u>David Browne</u> <small>(Print Name)</small> | <u>MACTEC</u> <small>(Company)</small> | <u>5/18/04 11:41</u> <small>Date/Time</small> |
| Received By: <u>Gail Herman</u> <small>(signature)</small> | <u>GAIL HERMANN</u> <small>(Print Name)</small> | <u>Seqoum</u> <small>(Company)</small> | <u>5/18/04 14:11</u> <small>Date/Time</small> |
| Relinquished By: _____ <small>(signature)</small> | _____ <small>(Print Name)</small> | _____ <small>(Company)</small> | _____ <small>Date/Time</small> |
| Received By: _____ <small>(signature)</small> | _____ <small>(Print Name)</small> | _____ <small>(Company)</small> | _____ <small>Date/Time</small> |
| Relinquished By: _____ <small>(signature)</small> | _____ <small>(Print Name)</small> | _____ <small>(Company)</small> | _____ <small>Date/Time</small> |
| Received By: _____ <small>(signature)</small> | _____ <small>(Print Name)</small> | _____ <small>(Company)</small> | _____ <small>Date/Time</small> |
| Relinquished By: _____ <small>(signature)</small> | _____ <small>(Print Name)</small> | _____ <small>(Company)</small> | _____ <small>Date/Time</small> |
| Received By: _____ <small>(signature)</small> | _____ <small>(Print Name)</small> | _____ <small>(Company)</small> | _____ <small>Date/Time</small> |

Method of Shipment: _____

APPENDIX B
GROUNDWATER SAMPLING FORM

APPENDIX B
GROUNDWATER SAMPLING FORM

**Table B1. Sample Location/Sample Description Cross-Reference
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California**

| Well/Sample Number | Client Sample ID |
|--------------------|------------------|
| MW-1 | 53087-1 |
| MW-3 | 53087-3 |
| MW-5 | 53087-5 |
| MW-6 | 53087-6 |

MACTEC

Job Name: City Blue
 Job Number: 53087 007
 Recorded By: _____
 (Signature)

Well Number: MW-1
 Well Type: Monitor Extraction Other
 PVC St. Steel Other
 Date: 5/18/2004
 Sampled By: D.S.B
 (Initials)

WELL PURGING

PURGE VOLUME
 Casing Diameter (D in inches): 2
 Total Depth of Casing (TD in ft BTOC): 33.5
 Water Level Depth (WL in ft BTOC): _____
 No. of Well Volumes to be purged (# V): 3

PURGE METHOD
 Bailor - Type: PVC - DSB
 Submersible - Type: _____
 Other - Type: Micro Purge

PURGE VOLUME CALCULATION

_____ X 3 X 0.0408 = _____ gals
 TD (feet) WL (Feet) D (inches) # V Calculated Purge Volume

PUMP IN TAKE SETTING

Near Bottom Near Top
 Other _____
 Depth in feet (BTOC): 5' off bottom
 Screen Interval in feet (BTOC): from _____ to _____

Field Parameter Measurement

| Minutes | pH | Conductivity (µS) | Temp. <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F | Turbidity (NTU) |
|---------|-------------|-------------------|--|-----------------|
| Initial | <u>6.67</u> | <u>1060 µS</u> | <u>20.0</u> | <u>15.2</u> |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Meter S/N _____

PURGE TIME
 Purge Start: _____
 Purge Stop: _____
 Elapsed: _____

PURGE RATE
 GPM: _____
 GPM: _____

PURGE VOLUME
 Volume: _____ gallons
 D.O. 0.42 mg/l Redox -309.8 mv
 Observations During Purging (Well Condition, Color, Odor): _____

Discharge Water Disposal: Sanitary Sewer
 Storm Sewer Other 55 Gal. drum on site

WELL SAMPLING

Bailer - Type: GRAB Sample Time: 1100

| Sample No. | Volume/Cont. | Analysis Requested | Preservatives | Lab | Comments |
|------------|--------------|---------------------------|---------------|--------|----------|
| 53087-1 | 6VOA's | T.P.H gas (8015 Modified) | HCL | Saguoa | |
| | | BTEX (8020) | | | |
| | | MTBE (8020) | | | |
| | | Ethylene Dichloride | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

Duplicate Samples

| Original Sample No. | Dupl. Sample No. |
|---------------------|------------------|
| | |
| | |
| | |

Blank Samples

| Type | Sample No. |
|-------------|---------------|
| <u>TRIP</u> | <u>1190</u> |
| | <u>530877</u> |

Other Samples

| Type | Sample No. |
|------|------------|
| | |
| | |
| | |

MACTEC

GROUNDWATER SAMPLING FORM

Job Name: City Blue
 Job Number: 53087 007
 Recorded By: David Boone
 (Signature)

Well Number: MW-3
 Well Type: Monitor Extraction Other
 PVC St. Steel Other
 Date: 5/18/2004
 Sampled By: D.S.B
 (Initials)

WELL PURGING

PURGE VOLUME
 Casing Diameter (D in inches): 4
 Total Depth of Casing (TD in ft BTOC): 31
 Water Level Depth (WL in ft BTOC):
 No. of Well Volumes to be purged (# V) 3

PURGE METHOD
 Bailor - Type: P.V.C.
 Submersible - Type:
 Other - Type: Micro Purge

PURGE VOLUME CALCULATION

$(\text{---}) \times (\text{---})^2 \times 3 \times 0.0408 = \text{---} \text{ gals}$
 TD (feet) WL (feet) D (Inches) # V Calculated Purge Volume

PUMP INTAKE SETTING

Near Bottom Near Top
 Other
 Depth in feet (BTOC): 5 ft off bottom
 Screen Interval in feet (BTOC): from _____ to _____

Field Parameter Measurement

| Minutes | pH | Conductivity (µS) | Temp. | | Turbidity (NTU) |
|---------|-------------|-------------------|--|-----------------------------|-----------------|
| | | | <input checked="" type="checkbox"/> °C | <input type="checkbox"/> °F | |
| Initial | <u>6.54</u> | <u>692µS</u> | <u>20.0</u> | | <u>10.6</u> |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Meter S/N _____

PURGE TIME

Purge Start: _____
 Purge Stop: _____
 Elapsed: _____

PURGE RATE

GPM: _____
 GPM: _____

PURGE VOLUME

Volume: _____ gallons
 D.O. 0.45 ^{mg/l} Redox -289 mV
 Observations During Purging (Well Condition, Color, Odor):
clear slight hydrocarbon odor - no sheen
 Discharge Water Disposal: Sanitary Sewer
 Storm Sewer D56 Other 55 Gal. drum on site

WELL SAMPLING

Bailor - Type: Grab / Micro Purge Sample Time: 1025

| Sample No. | Volume/Cont. | Analysis Requested | Preservatives | Lab | Comments |
|----------------|----------------|----------------------------------|---------------|----------------|----------|
| <u>53087-3</u> | <u>3 VOA's</u> | <u>T.P.H gas (8015 Modified)</u> | <u>HCL</u> | <u>Sequoia</u> | |
| | | <u>BTEX (8020)</u> | <u>↓</u> | <u>f</u> | |
| | | <u>MTBE (8020)</u> | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

QUALITY CONTROL SAMPLES

| Duplicate Samples | |
|---------------------|------------------|
| Original Sample No. | Dupl. Sample No. |
| | |
| | |
| | |

| Blank Samples | |
|---------------|------------|
| Type | Sample No. |
| | |
| | |
| | |

| Other Samples | |
|---------------|------------|
| Type | Sample No. |
| | |
| | |
| | |



GROUNDWATER SAMPLING FORM

Job Name: City Blue
Job Number: 53087 007
Recorded By: David Beane (Signature)

Well Number: MW-6
Well Type: Monitor (checked), PVC (checked)
Date: 5/18/2004
Sampled By: D.S.B. (Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches): 2
Total Depth of Casing (TD in ft BTOC): 32.5
Water Level Depth (WL in ft BTOC): 22.87
No. of Well Volumes to be purged (# V): 3

PURGE METHOD

Bailer - Type: P.V.C. D.S.B. (checked)
Submersible - Type:
Other - Type: Micro purge

PURGE VOLUME CALCULATION

() x 3 x 0.0408 = gals
TD (feet) WL (feet) D (inches) # V Calculated Purge Volume

PUMP INTAKE SETTING

Near Bottom (checked), Near Top (unchecked), Other (unchecked)
Depth in feet (BTOC): 5' off Bottom
Screen Interval in feet (BTOC): from to

Field Parameter Measurement

Table with columns: Minutes, pH, Conductivity (uS), Temp. (C/F), Turbidity (NTU). Initial row contains handwritten values: 6.48, 1037 uS, 19.8, >1000.

PURGE TIME

Purge Start: GPM:
Purge Stop: GPM:
Elapsed:

PURGE RATE

PURGE VOLUME

Volume: gallons
D.O. 0.49 mg/l Redox 115.4 MV
Observations During Purging (Well Condition, Color, Odor): cloudy olive brown, odorless
Discharge Water Disposal: Storm Sewer (checked), Sanitary Sewer (unchecked), Other 55 Gal. drum on site (checked, D.S.B.)

WELL SAMPLING

Bailer - Type: Micro Purge / Grab
Sample Time: 0815

Table with columns: Sample No., Volume/Cont., Analysis Requested, Preservatives, Lab, Comments. Row 1: 53087-6, 3 VOA's, T.P.H gas (8015 Modified), BTEX (8020), MTBE (8020), HCL, Sequoia.

QUALITY CONTROL SAMPLES

Duplicate Samples table with columns: Original Sample No., Dupl. Sample No.

Blank Samples table with columns: Type, Sample No.

Other Samples table with columns: Type, Sample No.

Project: BPS - City Blue Job No.: 53087.007
 Subject: FIELD INVESTIGATION DAILY REPORT Date: 5/18/04
 Equipment Rental: _____ Company: _____ To: Dave Naushad
 Equipment Hours: _____ F.E. Time from: _____ to: _____ By: D. Brown

(Outside service and expense record must be attached for any outside costs)

0530 Depart Petaluma for Oakland
 0640C BPS Oakland Start water levels
 0715 @ MW-6 Measure out Poly Tubing & Remain
 in Christy Box for Micro Analy
 0800 D.O. = 0.44 mg/l Redox = 115.4 mv
 0815 Sample MW-6
 Sample # 53087-6 3vots for TPHg, BTEX, MTBE
 0840 ICE up Samples
 0850 @ MW-5
 D.O. = 0.49 mg/l Redox = -298 mv
 Set up Tubing - Tubing is 6' longer than TD.
 0920 Sample MW-5
 Sample # 53087-5 6vots for TPHg, BTEX, MTBE
 0950 @ MW-3 Ethylene Dichloride
 D.O. = 0.45 mg/l Redox = 189 mv
 1025 Sample MW-3
 Sample # 53087-3 3vots for TPHg, BTEX, MTBE
 1040 @ MW-1
 D.O. = 0.42 mg/l Redox = -309.8 mv
 1100 Sample MW1
 Sample # 53087-1 6vots for TPHg, BTEX, MTBE (EDC)
 1150 TRIP
 Sample # 53087-7 3vots for TPHg, BTEX, MTBE
 1200 Depart Site
 1255 @ MACTEL Petaluma
 1415 Returnish Samples to Seysun's

DSB
5/18/04

Attachments:

Initial DSB

Groundwater Monitoring Data Sheet

City Blue
1700 Jefferson Street
Oakland, CA

| Well Number | Date | Time | Water Depth First Reading (TOC) | Water Depth Second Reading (TOC) | Cap | Lock | Casing | Box/Lid | Well Diameter | Comments |
|-------------|------|------|---------------------------------|----------------------------------|-----|------|--------|---------|---------------|----------|
| MW-1 | | 0705 | 23.64 | 23.64 | Yes | No | Good | Good | 4" | |
| MW-3 | | 0650 | 22.98 | 22.98 | Yes | No | Good | Good | 4" | |
| MW-5 | | 0700 | 21.85 | 21.85 | Yes | No | Good | Good | 2" | |
| MW-6 | | 0645 | 22.87 | 22.87 | Yes | No | Good | Good | 2" | |
| MW-1A | | 0715 | 22.05 | 22.05 | Yes | No | Good | Good | 4" | |
| MW-4 | | | | | | | | | | |

MW-1A 22.0

Please record all monitoring equipment model numbers, serial numbers and calibration dates here. Also record expiration dates of calibration fluids if applicable:

pH: Hanna 9025 Serial # DB03

Temperature: 11 11 11

Specific Conductance: YSI 30 Serial # 9090 1394

Dissolved Oxygen: Serial 0075

Turbidity: Hach 2100P Serial # 9090