Barbara Jakub
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

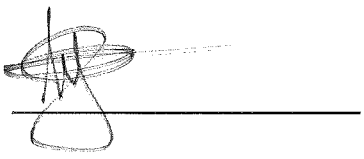
Re: BPS Reprographics (Formerly City Blue Print)
RWQCB Case #01-0210
1700 Jefferson St
Oakland CA, 94612

Dear Barbara Jakub,

BPS had directed MACTEC to provide, on our behalf, professional environmental consulting services to the best of their ability. To the best of my knowledge the information in this report is accurate and all local Agency and/or Regional Water Quality Control Board regulations and guidelines have been followed.

This report was prepared by MACTEC and BPS has relied on their advice and assistance. I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,



Authorized Representative

Attachment: Report

TRANSMITTAL

To: Mr. David Blain
BPS Reprographic Services
945 Bryant Street
San Francisco, California 94103

From: David S. Nanstad
MACTEC E&C

Date: May 7, 2008

Subject: First Quarter 2008 Groundwater Remediation and Monitoring Report
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

Project Number: 4088087514 Task 01

Enclosed please find 3 sets (1 original and 2 copies) of the *Groundwater Remediation and Monitoring Report for the First Quarter 2008* for the subject Site.

Please be advised that this report is due to the Alameda County Environmental Health Services (ACEHS) as recommended in the report.

Evaluation of current and historical groundwater monitoring information suggests that contaminant concentrations are not decreasing at a rate that would support a request for monitoring frequency reduction to Alameda County Health Care Services (the local oversight agency). As we discussed, MACTEC recommends performing a cost benefit analysis of appropriate remedial technologies that could be used to hasten site cleanup, minimize ongoing monitoring, and potentially result in long-term cost savings.

If you have any questions please feel free to call me at (415) 278-2118.

Enclosed: First Quarter 2008 Groundwater Remediation and Monitoring Report
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

Cc: Warren Chamberlain – MACTEC E&C, Transmittal Only

MACTEC
Engineering and Environmental Services
28 Second Street, Suite 700
San Francisco, CA 94103

MACTEC

engineering and constructing a better tomorrow

May 5, 2008

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

Subject: **Groundwater Remediation and Monitoring Report**
First Quarter 2008
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California
MACTEC Project No. 4088087514 01

Dear Mr. Blain:

MACTEC Engineering and Consulting, Inc. (MACTEC) 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). The Fourth Quarter 2007 groundwater monitoring event was performed on December 13, 2007, and results were presented in a letter report dated March 11, 2008. The First Quarter 2008 groundwater monitoring event was performed on March 26, 2008. Information presented in this letter-report represent the First Quarter 2008 (January 1, 2008 through March 31, 2008) groundwater conditions at the subject site, and was prepared to satisfy the quarterly groundwater monitoring requirements of the Alameda County Department of Health Care Services (ACHCS).

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. Subsequent investigation indicated the presence of free phase hydrocarbons (FPH) in groundwater beneath the site and a local groundwater gradient direction that ranges from north-northwest to west.

The existing groundwater monitoring wells (MW-1, MW-3, MW-5, and MW-6) and extraction wells (MW-1A and MW-4) are shown on Plate 1. Groundwater extraction and treatment began in 1992. The treatment system consisted of an oil-water separator that removed the FPH, a 3,000-gallon bioreactor tank for treatment by hydrocarbon reducing microbes, and three granular activated carbon vessels. The treated water was discharged under a wastewater discharge permit from the East Bay Municipal Utility District to the sanitary sewer. During its operation, 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. In June 1999, as approved by the ACHCS, groundwater extraction and treatment ceased. In September 1999, MACTEC implemented *in-situ* bioremediation using ORC™ in treatment wells MW-1A, MW-3, MW-4, and MW-5. The ORC™ is contained in fabric "socks" and releases oxygen over time to encourage aerobic microbes to metabolize the hydrocarbons. As described in the Groundwater Monitoring Plan, the ORC™ socks were removed from the treatment wells two weeks before each quarterly groundwater monitoring event, and then replaced after sampling was complete. *In-situ* bioremediation continued until the Fourth Quarter 2002. In late 2002 and early 2003, MACTEC removed the ORC™ socks from the monitoring wells, as requested by the ACHCS in their letter dated September 27, 2002. Since then, the ORC has not been replaced; however, quarterly monitoring has continued.

FIRST QUARTER 2008 GROUNDWATER SAMPLING AND ANALYSIS

On March 26, 2008, MACTEC conducted quarterly groundwater monitoring of MW-1, MW-3, MW-5, and MW-6 (Plate 1) using a non-purge method, in accordance with the SFBRWQCB January 31, 1997 letter *Utilization of Non-Purge Approach for Sampling of Monitoring Wells Impacted by Petroleum Hydrocarbons, BTEX and MTBE,* file No. 1123.64.

Table 1 presents groundwater field parameters, including DO, collected prior to sampling. During the First Quarter 2008 event, the DO concentrations ranged from 0.5 mg/L in MW-1 to 1.3 milligrams per liter (mg/L) in MW-6. MACTEC will continue to monitor DO in these wells.

Prior to sampling, MACTEC measured the depth to groundwater within each well casing from the top of casing (TOC) of wells MW-1, MW-3, MW-5, and MW-6 using an electronic water level indicator. The groundwater elevation at each well is calculated by subtracting the measured depth to water from the surveyed top of well casing elevation. Current and historical groundwater measurements and groundwater elevations are tabulated in Table 2 and a time history plot of groundwater elevations are displayed on Plate 2. As presented in Table 2, the elevation of the groundwater surface increased an average of 0.46 feet across the site, as compared to last quarter's measurements. MACTEC will continue to monitor groundwater elevations in at Site wells.

The groundwater elevation contours shown on Plate 3 were drawn using the March 26, 2008 groundwater measurements from wells MW-1, MW-3, MW-5, and MW-6. Based on the groundwater elevations, the groundwater gradient is approximately 0.0037 ft/ft. The direction of flow appears to be in the west-westerly direction.

Immediately after sample collection, MACTEC labeled and stored the samples in a cooler with ice. The groundwater samples were kept chilled until submitted to Test America Analytical Testing Corporation (Test America), a California state-certified laboratory (CA ELAP Certificate #1214), 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 First Quarter 2008 analytical results for TPHg, BTEX, MTBE, and EDC are displayed on Plate 4. Historical analytical results for TPHg, BTEX, and MTBE collected through September 29, 1999, are shown in Table 3. Analytical results collected since September 29, 1999, are shown in Table 4 and presented graphically on Plates 5a, 5b, and 5c. The certified analytical reports (CARs) for this quarter's monitoring event are presented in Appendix A.

DISCUSSION

As shown in Table 4 and Plates 5a, 5b, and 5c, the First Quarter 2008 monitoring event concentrations of TPHg and BTEX are within the range of historical concentrations of these compounds. The range of chemical concentrations detected in samples collected during the First Quarter 2008 event are as follows:

- TPHg ranged from non-detectable with a detection limit of 0.05 milligrams per liter (mg/L; MW-6) to 28 mg/L (MW-1 and MW-5).
- Benzene ranged from non-detectable with a detection limit of 0.5 micrograms per liter (µg/L; MW-6) to 7,700 µg/L (MW-5).
- Toluene ranged from 0.68 µg/L (MW-6) to 4,900 µg/L (MW-1).
- Ethylbenzene ranged from non-detectable with a detection limit of 0.5 µg/L (MW-6) to 860 µg /L (MW-5).
- Total Xylenes ranged from 0.88 µg/L (MW-6) to 2,100 µg/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 µg/L (MW-6) to 1,200 µg/L (MW-5).
- EDC was detected in MW-1 at a concentration of 240 µg/L and in MW-5 at a concentration of 220 µg/L.

An overview of recent concentration trends observed in each monitoring well is presented below.

In MW-1, chemical concentrations peaked during the Second Quarter 2003 monitoring event, decreased to unusually low levels during the Third Quarter 2005, and increased again through the First Quarter 2006 (Plate 5a). Since then concentrations have remained relatively stable with seasonal fluctuations. The

First Quarter 2008 concentrations of TPHg and BTEX in MW-1 have increased since the Fourth Quarter 2007 concentrations, and remain within their respective recent historical ranges.

In MW-3, chemical concentrations peaked in 2003; decreased significantly in mid-2005, and subsequently increased (Plate 5b). Since then, concentrations have remained relatively stable. The First Quarter 2008 concentrations of TPHg and BTEX in MW-3 have all decreased, with the exception of Benzene, has been on the increase, since the Fourth Quarter 2007 . Chemical concentrations remain within their respective recent historical ranges.

Chemical concentrations in MW-5 decreased to historical lows during the First and Second Quarter 2006 (Plate 5c). Subsequently, TPHg and BTEX concentrations have increased, but remain within their respective recent historical ranges. First Quarter 2008 concentrations of TPHg and BTEX in MW-5 have decreased since the Fourth Quarter 2007 concentrations, and remain within their respective recent historical ranges.

Typically, groundwater collected from MW-6 contains no detectable concentrations of TPHg or BTEX compounds. However, Fourth Quarter 2007 monitoring data from MW-6 indicated Toluene was detected at a concentration of 0.84 µg/L. First Quarter 2008 data indicate Toluene and Xylenes were detected at 0.68 and 0.88 µg/L, respectively. These concentrations are far below the California maximum contaminant level (MCL) for Toluene and Xylenes of 1.5 and 1.75 mg/L, respectively. MW-6 will continue to be monitored for these analytes.

Beginning with the Fourth Quarter 2002 event, EDC was added to the list of analytes monitored at MW-1 and MW-5. The current concentrations of EDC detected in MW-1 and MW-5 (240 µg /L and 220 µg /L, respectively) are similar to concentrations detected during previous quarters. EDC concentrations in both wells remain within their respective historical concentration ranges.

RECOMMENDATIONS

MACTEC recommends continued groundwater monitoring at the Site to satisfy the quarterly groundwater monitoring requirements of the ACHCS, and continued evaluation of monitoring parameters for more favorable conditions under which to make a monitoring frequency reduction request. MACTEC recommends that BPS send a copy of this report to the following address:

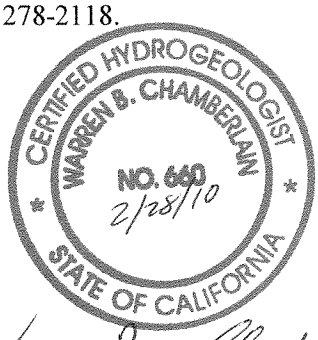
Mr. Don Hwang
Alameda County
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California, 94502-6577

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

If you have any questions, please contact David S. Nanstad at (415) 278-2118.

Yours very truly,

MACTEC ENGINEERING AND CONSULTING, INC.



David S. Nanstad, REA
Project Engineer

Warren B. Chamberlain RG, CHG, PE
Senior Principal Engineer

DSN/mlb:MB62783_1Q08.doc-BPS

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

Plate 1 – Site Map
Plate 2 – Groundwater Elevation Data
Plate 3 – Groundwater Contours
Plate 4 – TPHg, BTEX, MTBE and EDC Concentrations in Groundwater
Plate 5a – MW-1 BTEX and DO Results
Plate 5b – MW-3 BTEX and DO Results
Plate 5c – MW-5 BTEX and DO Results

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

TABLES

Table 1. Groundwater Parameters
BPS Reprographic Services Facility
1700 Jefferson St.
Oakland CA

Dissolved Oxygen (mg/L)	MW-1	MW-3	MW-5	MW-6
9/29/1999	2.9	1.7	0.4	1.8
11/5/1999	4.0	10.3	4.0	2.8
11/22/1999	1.8	2.4	2.0	3.2
1/28/2000	2.9	8.4	3.6	2.2
2/11/2000	2.5	2.3	1.8	3.5
5/12/2000	2.0	7.4	2.4	1.7
5/30/2000	1.9	2.6	1.8	3.2
9/1/2000	2.9	3.4	2.3	2.7
9/15/2000	2.0	1.8	2.2	3.8
11/9/2000	NA	5.0	5.3	NA
11/17/2000	3.1	4.2	3.4	6.0
3/15/2001	2.0	7.0	1.4	2.1
4/2/2001	1.0	0.8	2.0	1.0
6/1/2001	0.2	0.2	6.6	0.3
6/28/2001	0.3	0.6	0.5	0.7
8/16/2001	0.5	6.5	1.6	0.8
8/30/2001	0.3	0.4	0.2	0.5
12/14/2001	0.0	3.8	2.2	0.2
12/26/2001	0.2	0.3	0.2	0.2
4/10/2002	0.6	0.6	0.2	0.4
4/23/2002	0.3	0.4	0.9	0.5
6/3/2002	0.4	5.2	4.3	0.7
6/14/2002	0.3	0.3	0.4	0.3
8/5/2002	0.3	0.3	0.4	0.4
8/14/2002	0.3	0.3	0.4	0.6
12/6/2002	1.0	0.9	NA[1]	0.6
12/27/2002	0.9	1.0	NA[2]	1.2
4/1/2003	0.3	1.1	NA[2]	NA[1]
7/1/2003	7.7	7.7	NA[2]	7.2
9/24/2003	6.3	7.2	0.6	0.9
12/29/2003	0.2	0.3	0.6	0.6
5/18/2004	0.4	0.5	0.4	0.4
6/30/2004	0.4	0.7	0.5	1.1
9/23/2004	4.6	1.0	1.2	1.8
12/28/2004	0.4	0.2	0.3	4.3
3/16/2005	0.4	0.1	0.5	0.5
6/23/2005	0.6	0.6	0.8	0.6
9/9/2005	0.6	0.6	0.7	1.1
12/2/2005	1.5	2.0	1.1	0.9
3/24/2006	0.8	0.7	0.9	0.9
6/29/2006	1.1	1.1	0.7	1.2
9/13/2006	0.6	1.0	1.5	1.1
12/27/2006	7.9	7.0	0.4	0.6
3/30/2007	1.3	1.3	1.9	1.9
7/2/2007	2.0	1.5	1.6	1.7
10/2/2007	6.3	7.8	5.7	0.2
12/13/2007	0.6	0.3	0.7	0.7
3/26/2008	0.5	0.5	0.6	1.3

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BPS Reprographic Services Facility
1700 Jefferson St.
Oakland CA

REDOX (mvolts)	MW-1	MW-3	MW-5	MW-6
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[1]	NA[1]	NA[1]	NA[1]
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	114
5/18/2004	-309	-189	-248	115
6/30/2004	-270	-343	-165	104
9/23/2004	-314	-284	-162	96
12/28/2004	-303	101	-110	127
3/16/2005	-36	-50	-162	177
6/23/2005	-225	-42	-117	109
9/9/2005	-30	-52	-152	98
12/2/2005	-26	-141	-108	20
3/24/2006	-179	-118	-112	87
6/29/2006	-202	-182	-151	6
9/13/2006	-270	-257	-222	36
12/27/2006	-329	-265	-305	36
3/30/2007	-324	-340	243	-61
7/2/2007	-317	-292	169	-93
10/2/2007	13	-305	-217	16
12/13/2007	-283	-322	-240	106
3/26/2008	-171.8	-33.6	-90.8	229.0
Temperature (deg F)	**MW-1**	**MW-3**	**MW-5**	**MW-6**
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

Table 1. Groundwater Parameters
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1700 Jefferson St.
Oakland CA

Temperature (deg F)	MW-1	MW-3	MW-5	MW-6
12/29/2003[b]	65.0	67.5	67.1	68.0
5/18/2004	69.0	69.0	63.0	68.0
6/30/2004	65.8	68.0	69.1	70.0
9/23/2004	67.6	69.3	68.9	74.5
12/28/2004	60.3	60.4	59.2	62.6
3/16/2005	63.3	66.0	64.4	66.0
6/23/2005	64.4	66.7	65.8	66.9
9/9/2005	69.0	70.3	69.8	71.0
12/2/2005	61.5	63.7	62.2	62.1
3/24/2006	63.7	66.4	65.3	62.6
6/29/2006	69.3	68.2	71.2	72.1
9/13/2006	64.8	66.6	65.7	68.5
12/26/2006	59.7	60.4	61.2	57.9
3/30/2007	64.0	65.8	66.0	64.4
7/2/2007	65.1	66.6	66.6	66.0
10/2/2007	68.0	67.3	66.0	71.6
12/13/2007	60.1	62.4	61.5	61.3
3/26/2008	66.6	64.9	64.1	66.6
pH	**MW-1**	**MW-3**	**MW-5**	**MW-6**
9/29/1999	8.4	8.5	8.4	8.4
11/22/1999	6.9	8.4	6.8	6.8
2/11/2000	6.8	6.9	6.8	6.7
5/30/2000	7.0	7.4	7.5	7.6
9/15/2000	7.1	7.5	6.8	6.6
11/17/2000	7.4	7.7	7.1	7.3
4/2/2001	7.0	6.6	7.1	7.0
6/28/2001	6.9	6.7	6.8	6.8
8/30/2001	7.9	7.9	7.9	8.4
12/26/2001	6.2	6.9	7.1	6.7
4/23/2002	6.9	7.0	6.9	6.9
6/14/2002	7.1	7.2	7.1	6.9
8/20/2002	NA[1]	6.9	NA[1]	6.9
12/27/2002	6.3	6.4	NA[2]	6.5
4/1/2003[b]	6.9	7.1	NA[2]	6.7
7/1/2003[b]	7.4	7.6	NA[2]	7.7
9/24/2003[b]	7.1	7.3	7.3	7.2
12/29/2003[b]	6.7	6.5	6.8	6.7
5/18/2004	6.7	6.5	6.7	6.5
6/30/2004	6.6	6.6	6.3	NA[1]
9/23/2004	6.7	6.6	6.5	6.5
12/28/2004	6.5	5.3	6.6	6.8
3/16/2005	6.3	5.7	5.8	6.2
6/23/2005	6.4	6.1	6.5	6.6
9/9/2005	6.5	6.1	6.1	7.0
12/2/2005	6.5	5.9	7.6	7.1
3/24/2006	7.1	7.6	6.8	7.4
6/29/2006	6.5	6.1	7.3	7.0
9/13/2006	6.9	7.4	6.6	8.3
12/27/2006	6.3	5.2	6.0	6.0
3/30/2007	6.5	5.5	6.4	6.3
7/2/2007	6.3	6.1	6.7	6.5
10/2/2007	6.1	5.9	6.4	6.7
12/13/2007	6.9	6.8	7.1	6.8
3/26/2008	6.9	6.0	6.8	6.9

Table 1. Groundwater Parameters
BPS Reprographic Services Facility
1700 Jefferson St.
Oakland CA

Specific Conductance (µS/cm)	MW-1	MW-3	MW-5	MW-6
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
6/30/2004	1006	725	970	962
9/23/2004	1027	656	966	1007
12/28/2004	875	69	807	873
3/16/2005	899	69	831	872
6/23/2005	799	102	718	814
9/9/2005	852	103	817	881
12/2/2005	891	39	750	811
3/24/2006	1156	208	996	1042
6/29/2006	1113	658	795	932
9/13/2006	1088	591	873	650
12/27/2006	996	145	775	847
3/30/2007	1063	303	919	918
7/2/2007	887	337.8	949	776
10/2/2007	1133	364.4	930	1033
12/13/2007	1033	490	839	394.3
3/26/2008	1208	242	670	1080

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

mg/l = milligrams per liter
mvolts = millivolts
deg F = degrees Fahrenheit
µS/cm = micro-ohms per centimeter
NA = Not Available
1 = indicates data not available due to equipment malfunction
2= 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

Checked
Accepted

Table 2. Groundwater Elevation Data
BPS Reprographic Services Facility
1700 Jefferson St
Oakland CA

	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
Date Sampled	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Since Preceding Quarter
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
6/30/2004	23.64	8.72	23.04	8.73	22.00	8.56	22.43	8.83	0.06
9/23/2004	23.98	8.38	23.32	8.45	22.36	8.20	23.30	7.96	-0.46
12/28/2004	24.07	8.29	28.71	3.06**	22.42	8.14	23.42	7.84	-1.42
3/16/2005	23.80	8.56	23.70	8.07	22.11	8.45	23.60	7.66	1.35
6/23/2005	22.90	9.46	22.40	9.37	21.20	9.36	22.27	8.99	1.11
9/9/2005	23.27	9.09	22.63	9.14	21.68	8.88	22.55	8.71	-0.34
12/2/2005	23.75	8.61	23.03	8.74	22.19	8.37	23.05	8.21	-0.47
3/24/2006	23.05	9.31	22.57	9.20	21.01	9.55	22.50	8.76	0.72
6/29/2006	22.56	9.80	21.93	9.84	20.78	9.78	21.85	9.41	0.50
9/13/2006	23.00	9.36	22.35	9.42	21.35	9.21	22.31	8.95	-0.47
12/27/2006	23.47	8.89	22.82	8.95	21.82	8.74	22.85	8.41	-0.49
3/30/2007	23.51	8.85	22.91	8.86	21.70	8.86	22.88	8.38	-0.01
7/2/2007	23.39	8.97	22.88	8.89	21.81	8.75	22.75	8.51	0.04
10/2/2007	23.87	8.49	23.20	8.57	22.22	8.34	23.17	8.09	-0.41
12/13/2007	24.05	8.31	23.40	8.37	22.31	8.25	23.37	7.89	-0.17
3/26/2008	23.56	8.80	23.00	8.77	21.77	8.79	22.97	8.29	0.46

Note: All measurements shown in feet.
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
** This data is suspect due to probable equipment malfunction or operator error.

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Approved

Table 3. Groundwater Monitoring Analytical Results - Using Purge Method
8/1/1991 to 9/29/1999

	Date Sampled												Date Sampled												
TPHg (mg/L)	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	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	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	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	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	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	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	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)
Ethylbenzene (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	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	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)	0.5	ND(0.5)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
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	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	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. Sample results collected pre purge are shown on Table 3.
Sample results collected post purge are shown on Table 4.

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Table 4. Groundwater Monitoring Analytical Results
BPS Reprographic Services Facility
1700 Jefferson St
Oakland CA

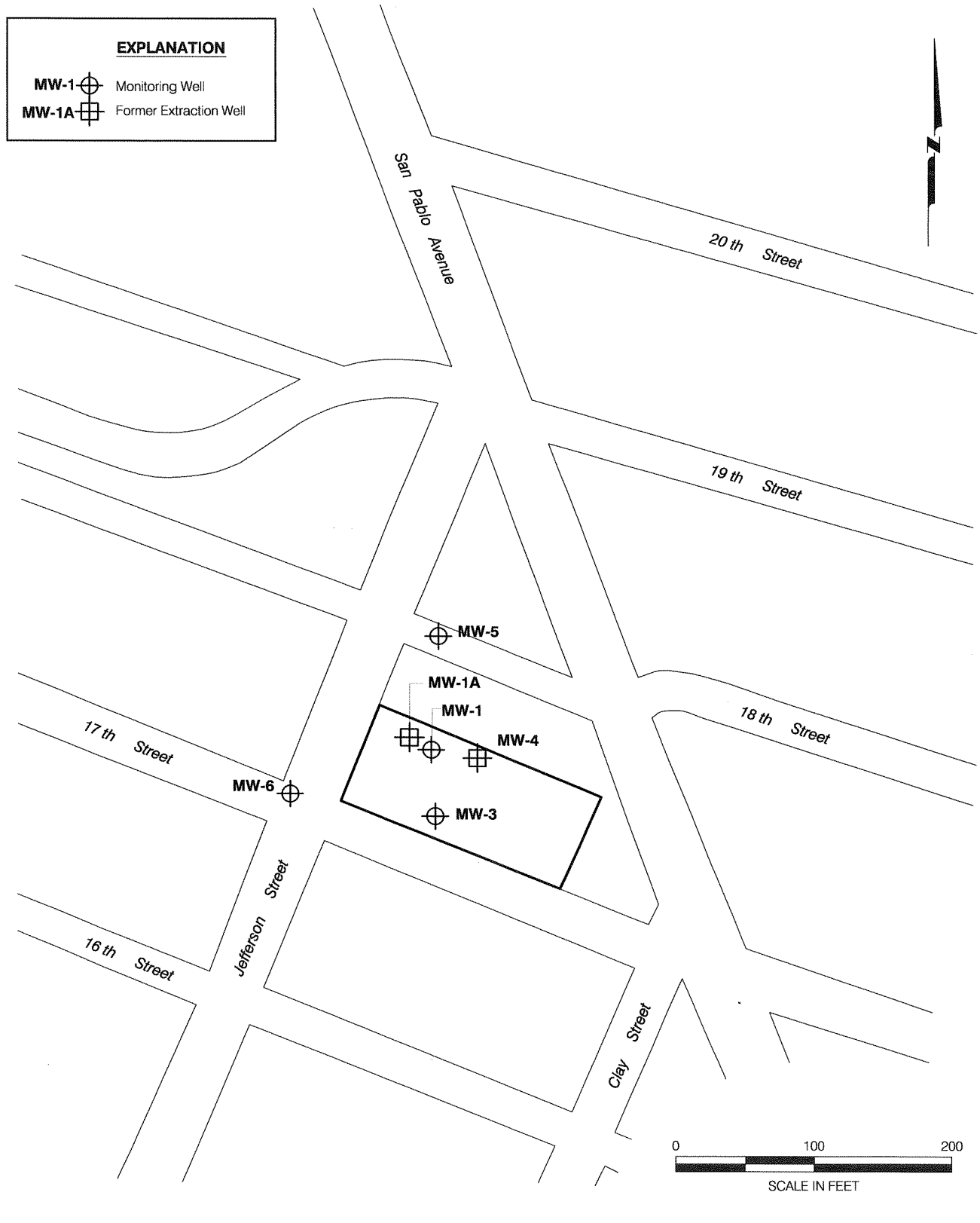
		Date Sampled																														
TPHg (mg/L)		9/29/1999[6]	11/22/1999	2/11/2000	5/30/2000	9/15/2000	11/16/2000	4/2/2001	6/28/2001	8/30/2001	12/26/2001	4/24/2002	6/14/2002	8/20/2002	12/27/2002	4/1/2003	7/1/2003[5]	9/25/2003[5]	12/29/2003[5]	5/18/2004	6/30/2004	9/23/2004	12/28/2004	3/16/2005	6/23/2005	9/9/2005	12/2/2005	3/24/2006	6/29/2006	9/13/2006	12/27/2006	3/30/2007	7/2/2007	10/2/2007	12/13/2007	3/26/2008
	MW-1	14	24	19	19	20	18	19	39	31	34	35	35	26	28	16	61	59	46	23	24	24	22	21	30	7.1	19	29	23	20	31	30	14	19	18	28
	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	12	10	7.3	1.5	2.0	3.4	3.9	0.97	0.85	3.9	0.76	0.59	1.1	1.3	3	3.1	2.6	1.9	2.9	2.3
	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]	NA[4]	43	26	15	18	42	41	37	27	46	21	ND<10	1.2	5.8	16	31	33	36	34	28
	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	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.059	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	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	4,500	7,700	7600	6600	4,100	3,500	3,800	3,400	4,100	5,400	840	3,600	6,200	4,800	4500	6000	5000	2500	3400	3500	4900
	MW-3	180	6.5	8.3	11	28	20	9	150	42	8	11	130	330	110	370	200	150	160	77	81	140	340	1.4	56	470	14	83	130	260	250	250	250	170	250	340
	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]	NA[4]	12,000	7700	5,000	5,700	12,000	10,000	11,000	7,700	10,000	5900	2800	240	1600	4300	10000	9400	11000	11,000	7,700
	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	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<0.5	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<0.5	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	11,000	9400	7900	4,700	3,600	3,900	3,400	4,200	5,500	950	3,500	6,000	4,000	3900	5300	4600	2000	2700	2700	4900
	MW-3	340	33	20	5.6	14	34	6.2	240	48	5.2	4.8	470	170	280	150	460	300	250	72	37	95	37	1.8	7.3	100	8	41	38	71	160	260	250	140	170	95
	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]	NA[4]	2800	1900	1,300	1,600	3,900	3,800	3,800	1,700	2,700	1500	450	11	210	610	1400	1400	2100	2600	1900
	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	ND<0.05	ND<0.05	ND<0.05	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<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.84	0.68
Ethylbenzene (µg/L)																																				
	MW-1	620	730	530	730	540	640	570	660	560	630	740	870	620	660	680	1200	1000	960	450	390	470	380	470	520	120	410	620	330	400	710	520	280	400	390	530
	MW-3	130	27	2.4	0.45	2.6	25	1.4	38	26	1.1	0.72	91	40	57	44	130	120	79	19.00	34.0	36	11	0.66	ND<5	33	2.4	7.3	16	44	49	46	54	24	66	26
	MW-5	1,100	1,500	1,200	1,200	460	39	1000	16	1,400	55	300	7.2	22	*160	NA[4]	NA[4]	1500	910	380	540	1,200	1,000	1,100	680	1,100	600	190	13	180	460	1100	1000	1100	1200	860
	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	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<0.5	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<0.5	ND<0.5	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	6700	4800	4000	1,500	1,300	1,400	1,400	1,300	1,900	410	1,300	2,000	1,200	1400	2500	1700	930	1200	1100	2100
	MW-3	580	260	28	17	160	28	8.1	160	210	7	1.4	390	150	260	230	390	280	210	59	40	40	60	2.9	12	96	17	33	21	28	140	110	130	48	120	64
	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]	NA[4]	3000	210	770	1,200	2,400	2,300	2,400	1,300	2,100	1200	180	18	270	750	1600	1500	1700	1900	1300
	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	ND<2.5	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6	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<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MTBE (µg/L)																																				
	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	ND<250	ND<1200	ND<250	ND<50	ND<50	[1]ND<25	ND<250	ND<50[1]	ND<1,200	ND<120	ND<2.5	ND<500	ND<500	ND<250	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500
	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]	ND<5[1]	ND<2.5[1]	ND<2.5[1]	ND<12	ND<1.0	[1]ND<10	ND<5[1]	ND<2.5	ND<25	ND<62	ND<0.5	ND<12	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25
	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]	NA[4]	ND<1200	ND<2.5[1]	ND<50	ND<50	ND<120	ND<250	ND<120	ND<1,200	ND<1,200	ND<500	ND<500	ND<2.5	ND<120	ND<500	ND<500	ND<500	ND<620	ND<1,200	ND<1,200
	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	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
Ethylene Dichloride (µg/L)																																				
	MW-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370	ND<120	400	[7]500	360	320	320	260	180	190	240	290	300	280	ND<0.50	260	350	220	220	190	180	240
	MW-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<12	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	MW-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*220	[4]NA	[4]NA	610	410	290	610	670	290	610	190	300	320	330	ND<0.50	55	180	360	410	400	340	220
	MW-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<0.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

mg/L = milligrams per liter
µg/L = micrograms per liter
ND = Not detected above the reporting limit following the less than sign
NA = Not Available
MTBE = methyl t-butyl ether
NR = Not Requried 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)
1 Result of MTBE confirmation by EPA Method 8260.
2 Reporting limits elevated due to matrix interference.
3 Detection limit = 5 ug/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 without purging (see report for details)
6 A sample was collected on this date both post and pre purge. The sample results collected post purge are shown on Table 3.
7 EDC Detected at same concentration as detection limit.

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

Checked
Approved

PLATES



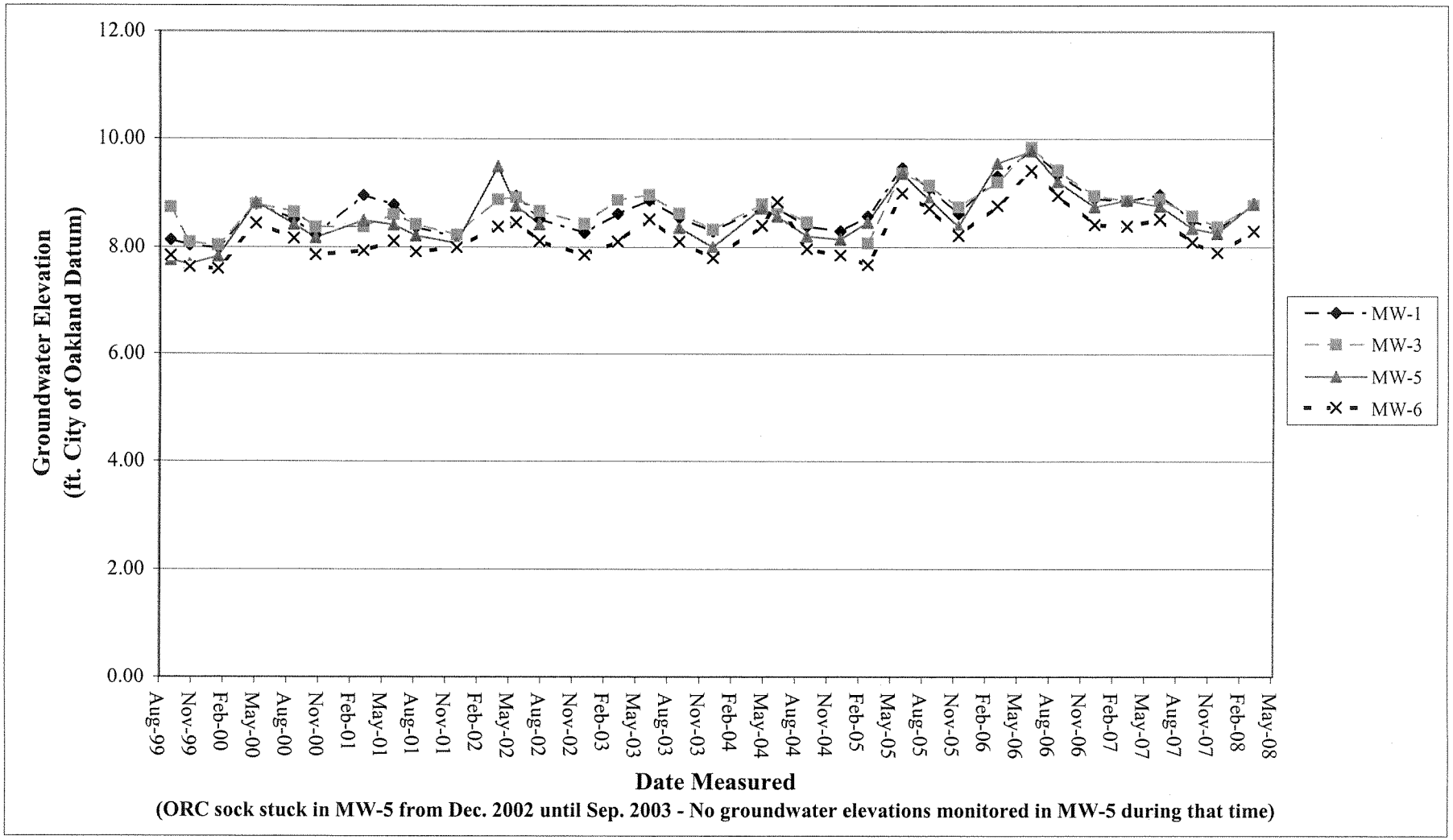
4097041918002.DWG 40.0
20080228.0915

MACTEC

Site Map
Groundwater Remediation and Monitoring Report
First Quarter 2008
BPS Reprographic Services Facility
Oakland, California

PLATE
1

DRAWN	JOB NUMBER	CHECKED	CHECKED DATE	APPROVED	APPROVED DATE
JHD	4088087514 01	PKS	04/08	GAS	5.6.08



(ORC sock stuck in MW-5 from Dec. 2002 until Sep. 2003 - No groundwater elevations monitored in MW-5 during that time)

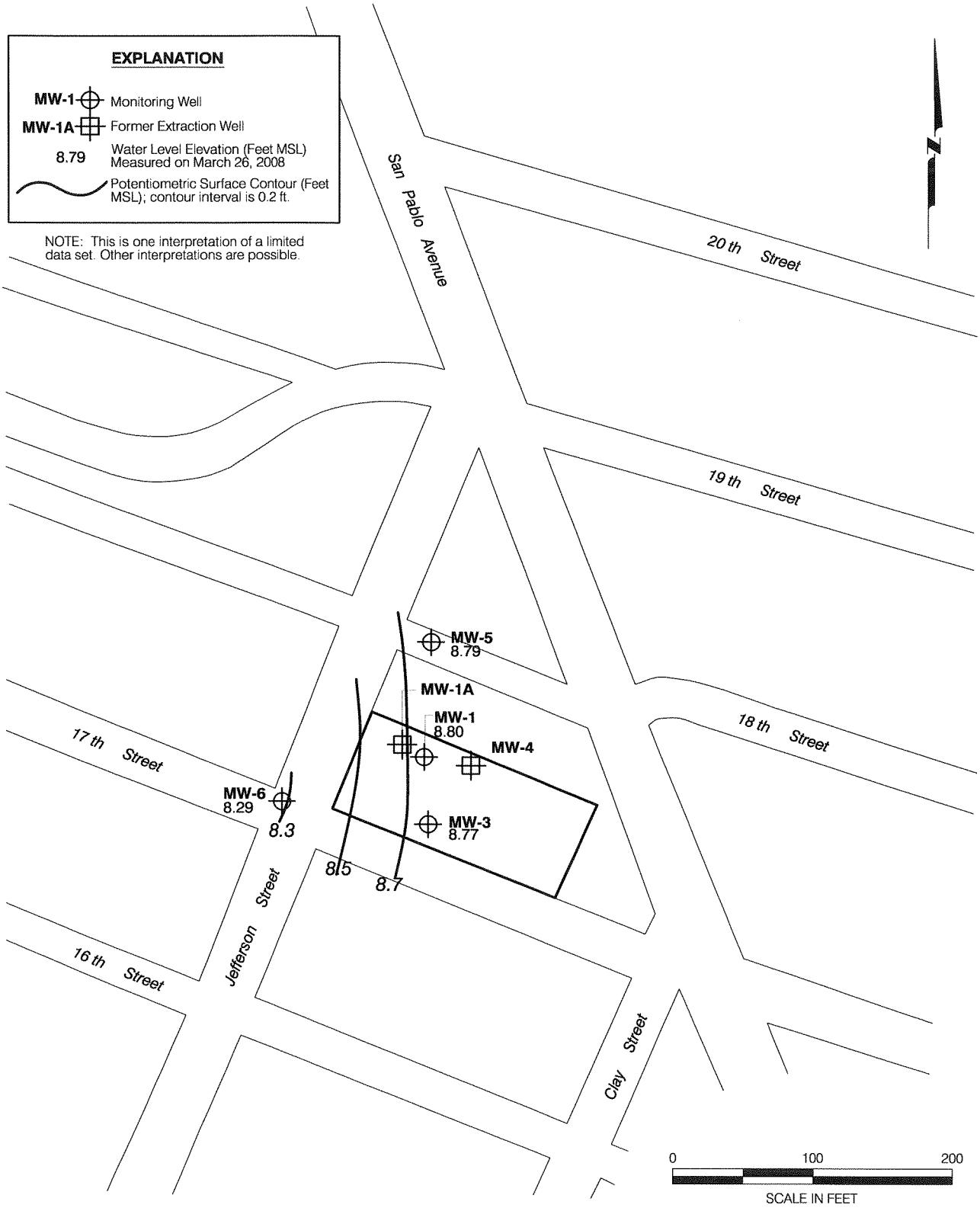
MACTEC

Groundwater Elevation Data
First Quarter 2008
BPS Reprographic Services Facility
1700 Jefferson Steet
Oakland, California

Plate
2

DRAWN	JOB NUMBER	APPROVED	DATE	REVISION DATE
DSN	4088087514	SAB	May-08	

Reviewed by: DSN

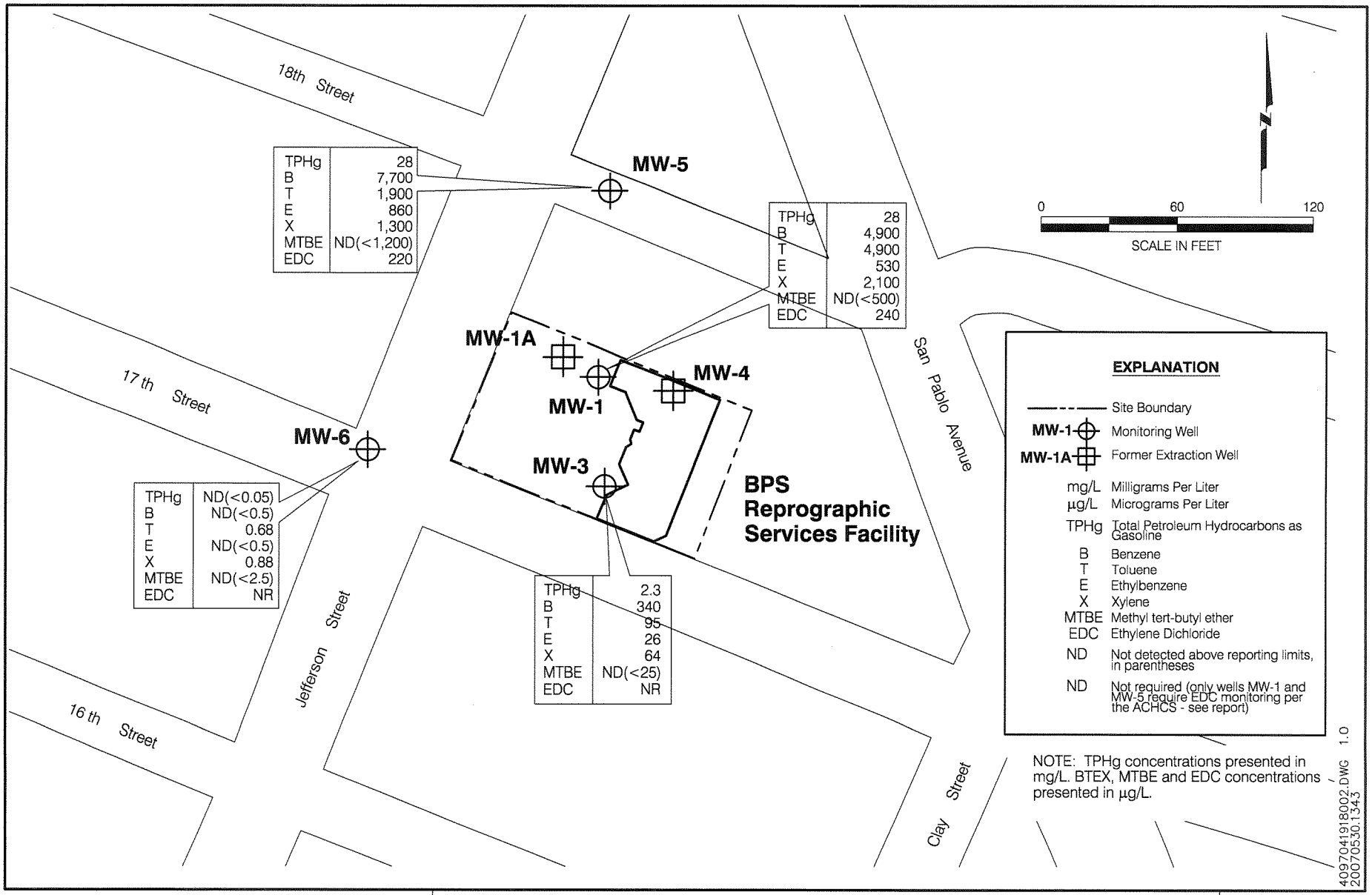


MACTEC

Groundwater Elevation Map
Groundwater Remediation and Monitoring Report
First Quarter 2008
BPS Reprographic Services Facility
Oakland, California

PLATE **3**

DRAWN	JOB NUMBER	CHECKED	CHECKED DATE	APPROVED	APPROVED DATE
JHD	4088087514 01	BM	04/08	SAS	5.1.08

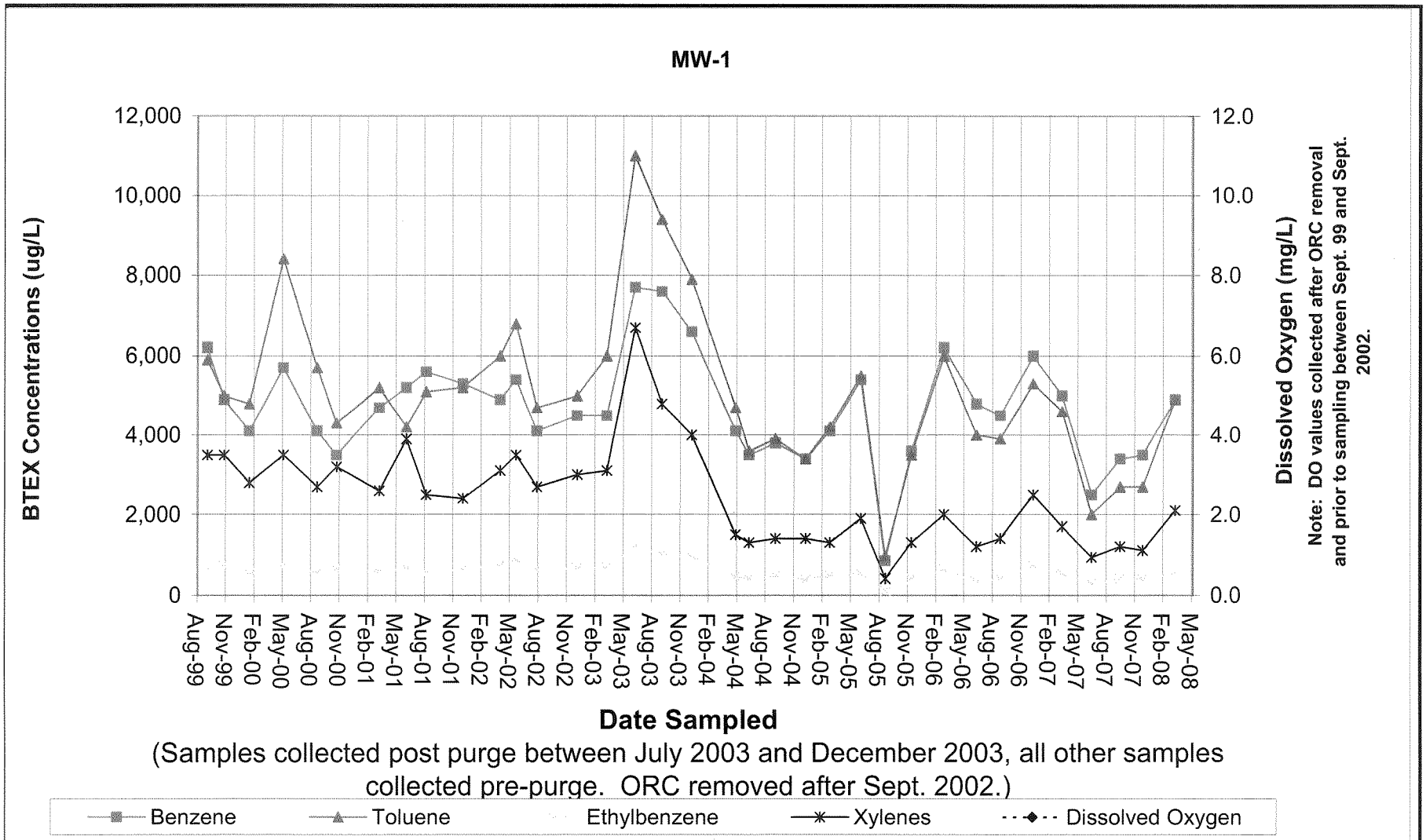


MACTEC

TPHg, BTEX, MTBE and EDC Concentrations in Groundwater
Groundwater Remediation and Monitoring Report
First Quarter 2008
BPS Reprographic Services Facility
Oakland, California

PLATE
4

DRAWN	JOB NUMBER	CHECKED	CHECKED DATE	APPROVED	APPROVED DATE
JHD	4088087514 01	BV	04/08		5-6-08



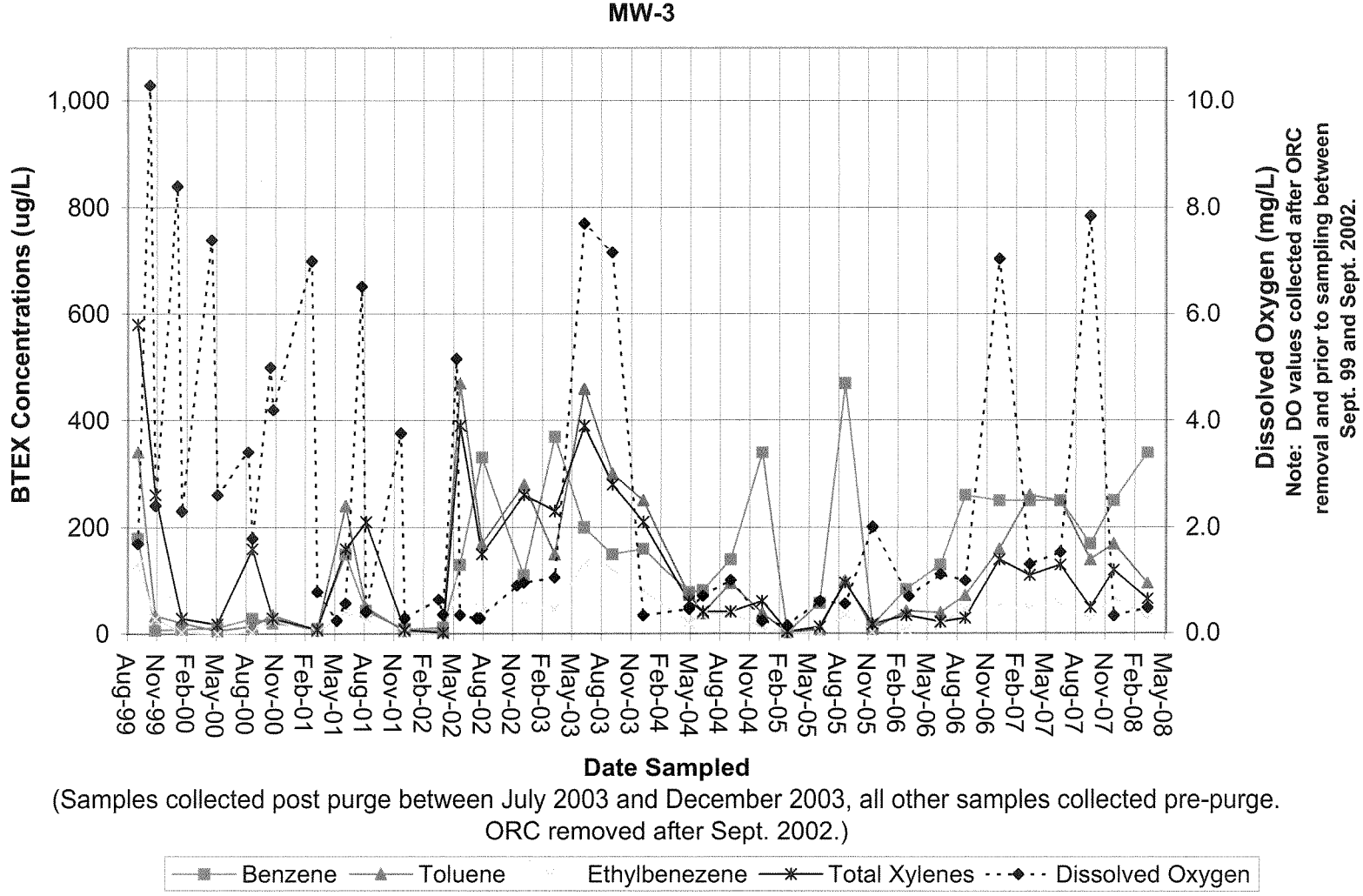
MACTEC

MW-1 BTEX and DO Results
First Quarter 2008
BPS Reprographic Services Facility
1700 Jefferson Steet
Oakland, California

Plate
5a

DRAWN	JOB NUMBER	APPROVED	DATE	REVISION DATE
JHD	4088087514		May-2008	

Reviewed by: _____



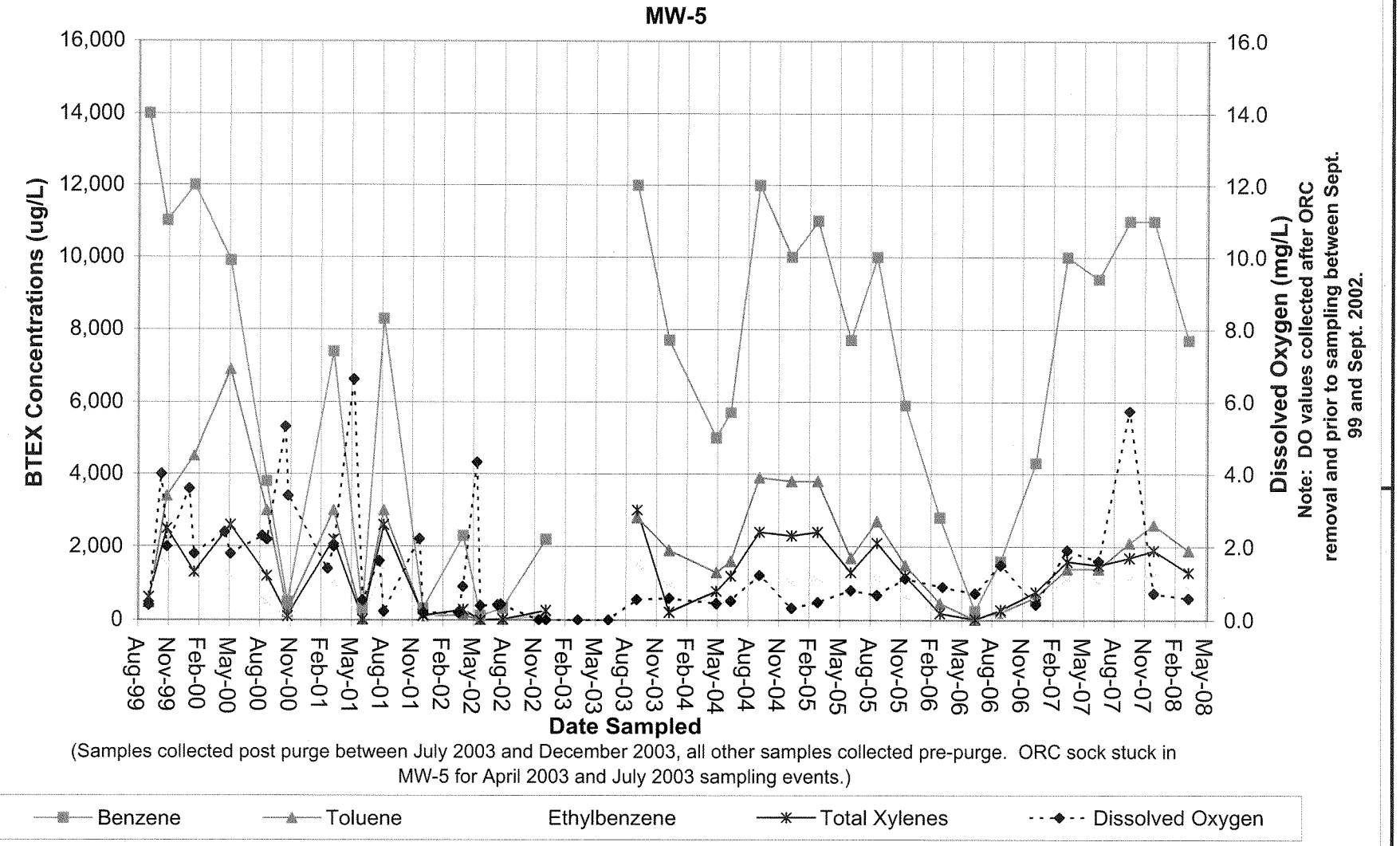
MACTEC

MW-3 BTEX and DO Results
First Quarter 2008
BPS Reprographic Services Facility
1700 Jefferson Steet
Oakland, California

Plate
5b

DRAWN	JOB NUMBER	APPROVED	DATE	REVISION DATE
JHD	4088087514	SAD	May - 2008	

Reviewed by: _____



MACTEC

MW-5 BTEX and DO Results
First Quarter 2008
BPS Reprographic Services Facility
1700 Jefferson Steet
Oakland, California

Plate
5c

DRAWN	JOB NUMBER	APPROVED	DATE	REVISION DATE
JHD	4088087514		May-2008	

Reviewed by: _____

APPENDIX A

LABORATORY REPORTS

TestAmerica
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885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
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10 April, 2008

David Nanstad
MACTEC Engineering & Consulting [Petaluma]
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

RE: BPS City Blue
Work Order: MRC0633

Enclosed are the results of analyses for samples received by the laboratory on 03/27/08 09:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate # 2682

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.

For Volatile Analysis a trip blank is required to be provided. If trip blank results are not included in the report, then either the trip blank was not submitted or requested to be analyzed.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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MACTEC Engineering & Consulting [Petaluma]	Project: BPS City Blue	MRC0633
5341 Old Redwood Highway, Suite 300	Project Number: 4097041918-05	**Reported:**
Petaluma CA, 94954	Project Manager: David Nanstad	04/10/08 15:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
4097041918-1	MRC0633-01	Water	03/26/08 11:35	03/27/08 09:15
4097041918-2	MRC0633-02	Water	03/26/08 10:35	03/27/08 09:15
4097041918-3	MRC0633-03	Water	03/26/08 11:05	03/27/08 09:15
4097041918-4	MRC0633-04	Water	03/26/08 09:50	03/27/08 09:15
4097041918-5	MRC0633-05	Water	03/26/08 08:00	03/27/08 09:15

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MACTEC Engineering & Consulting [Petaluma]	Project: BPS City Blue	MRC0633
5341 Old Redwood Highway, Suite 300	Project Number: 4097041918-05	**Reported:**
Petaluma CA, 94954	Project Manager: David Nanstad	04/10/08 15:33

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4097041918-1 (MRC0633-01) Water	**Sampled: 03/26/08 11:35 Received: 03/27/08 09:15**								
Gasoline Range Organics (C4-C12)	**28000**	10000	ug/l	200	8D01004	04/01/08	04/01/08	EPA 8015B/8021B	
Benzene	**4900**	100	"	"	"	"	"	"	
Toluene	**4900**	100	"	"	"	"	"	"	
Ethylbenzene	**530**	100	"	"	"	"	"	"	
Xylenes (total)	**2100**	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*	*70-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96 %*	*70-125*		"	"	"	"	
4097041918-2 (MRC0633-02) Water	**Sampled: 03/26/08 10:35 Received: 03/27/08 09:15**								
Gasoline Range Organics (C4-C12)	**2300**	500	ug/l	10	8D01004	04/01/08	04/01/08	EPA 8015B/8021B	
Benzene	**340**	5.0	"	"	"	"	"	"	
Toluene	**95**	5.0	"	"	"	"	"	"	
Ethylbenzene	**26**	5.0	"	"	"	"	"	"	
Xylenes (total)	**64**	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*98 %*	*70-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98 %*	*70-125*		"	"	"	"	
4097041918-3 (MRC0633-03) Water	**Sampled: 03/26/08 11:05 Received: 03/27/08 09:15**								
Gasoline Range Organics (C4-C12)	**28000**	25000	ug/l	500	8D01004	04/01/08	04/01/08	EPA 8015B/8021B	
Benzene	**7700**	250	"	"	"	"	"	"	
Toluene	**1900**	250	"	"	"	"	"	"	
Ethylbenzene	**860**	250	"	"	"	"	"	"	
Xylenes (total)	**1300**	250	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*70-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*70-125*		"	"	"	"	

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MACTEC Engineering & Consulting [Petaluma]	Project: BPS City Blue	MRC0633
5341 Old Redwood Highway, Suite 300	Project Number: 4097041918-05	**Reported:**
Petaluma CA, 94954	Project Manager: David Nanstad	04/10/08 15:33

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4097041918-4 (MRC0633-04) Water	**Sampled: 03/26/08 09:50 Received: 03/27/08 09:15**								
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	8D01004	04/01/08	04/01/08	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	**0.68**	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	**0.88**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*106 %*		*70-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95 %*		*70-125*	"	"	"	"	

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MACTEC Engineering & Consulting [Petaluma]	Project: BPS City Blue	MRC0633
5341 Old Redwood Highway, Suite 300	Project Number: 4097041918-05	**Reported:**
Petaluma CA, 94954	Project Manager: David Nanstad	04/10/08 15:33

Volatile Organic Compounds by EPA Method 8260B

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4097041918-1 (MRC0633-01) Water	**Sampled: 03/26/08 11:35 Received: 03/27/08 09:15**								
1,2-Dichloroethane	**240**	5.0	ug/l	10	8C28010	03/28/08	03/28/08	EPA 8260B	
Surrogate: Dibromofluoromethane		*96 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*55-130*		"	"	"	"	
4097041918-3 (MRC0633-03) Water	**Sampled: 03/26/08 11:05 Received: 03/27/08 09:15**								
1,2-Dichloroethane	**220**	10	ug/l	20	8C28010	03/28/08	03/28/08	EPA 8260B	
Surrogate: Dibromofluoromethane		*100 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99 %*	*60-150*		"	"	"	"	
Surrogate: Toluene-d8		*99 %*	*75-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*55-130*		"	"	"	"	

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MACTEC Engineering & Consulting [Petaluma]	Project: BPS City Blue	MRC0633
5341 Old Redwood Highway, Suite 300	Project Number: 4097041918-05	**Reported:**
Petaluma CA, 94954	Project Manager: David Nanstad	04/10/08 15:33

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8D01004 - EPA 5030B [P/T] / EPA 8015B/8021B										
Blank (8D01004-BLK1)				Prepared & Analyzed: 04/01/08						
Gasoline Range Organics (C4-C12)	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	*42.2*		"	*40.0*		*106*	*70-135*			
Surrogate: 4-Bromofluorobenzene	*37.2*		"	*40.0*		*93*	*70-125*			
Laboratory Control Sample (8D01004-BS1)				Prepared & Analyzed: 04/01/08						
Benzene	9.63	0.50	ug/l	10.0		96	75-140			
Toluene	9.90	0.50	"	10.0		99	65-125			
Ethylbenzene	9.91	0.50	"	10.0		99	60-125			
Xylenes (total)	30.0	0.50	"	30.0		100	60-130			
Methyl tert-butyl ether	9.09	2.5	"	10.0		91	60-145			
Surrogate: a,a,a-Trifluorotoluene	*42.3*		"	*40.0*		*106*	*70-135*			
Laboratory Control Sample (8D01004-BS2)				Prepared & Analyzed: 04/01/08						
Gasoline Range Organics (C4-C12)	222	50	ug/l	250		89	60-120			
Surrogate: 4-Bromofluorobenzene	*40.7*		"	*40.0*		*102*	*70-125*			
Laboratory Control Sample Dup (8D01004-BSD2)				Prepared & Analyzed: 04/01/08						
Gasoline Range Organics (C4-C12)	215	50	ug/l	250		86	60-120	3	20	
Surrogate: 4-Bromofluorobenzene	*40.1*		"	*40.0*		*100*	*70-125*			
Matrix Spike (8D01004-MS1)	**Source: MRC0667-03**			Prepared & Analyzed: 04/01/08						
Gasoline Range Organics (C4-C12)	106	50	ug/l	91.0	ND	116	45-135			
Benzene	9.89	0.50	"	10.0	ND	99	70-150			
Toluene	10.2	0.50	"	10.0	ND	102	65-130			
Ethylbenzene	10.1	0.50	"	10.0	ND	101	65-125			
Xylenes (total)	30.9	0.50	"	30.0	ND	103	65-130			
Methyl tert-butyl ether	9.61	2.5	"	10.0	ND	96	45-150			
Surrogate: a,a,a-Trifluorotoluene	*42.2*		"	*40.0*		*106*	*70-135*			
Surrogate: 4-Bromofluorobenzene	*41.2*		"	*40.0*		*103*	*70-125*			

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5341 Old Redwood Highway, Suite 300	Project Number: 4097041918-05	**Reported:**
Petaluma CA, 94954	Project Manager: David Nanstad	04/10/08 15:33

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

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8D01004 - EPA 5030B [P/T] / EPA 8015B/8021B										
Matrix Spike Dup (8D01004-MSD1)	**Source: MRC0667-03**			Prepared & Analyzed: 04/01/08						
Gasoline Range Organics (C4-C12)	95.5	50	ug/l	91.0	ND	105	45-135	10	20	
Benzene	9.63	0.50	"	10.0	ND	96	70-150	3	25	
Toluene	9.84	0.50	"	10.0	ND	98	65-130	4	20	
Ethylbenzene	9.90	0.50	"	10.0	ND	99	65-125	2	25	
Xylenes (total)	30.3	0.50	"	30.0	ND	101	65-130	2	20	
Methyl tert-butyl ether	9.61	2.5	"	10.0	ND	96	45-150	0.03	25	
Surrogate: a,a,a-Trifluorotoluene	*42.4*		"	*40.0*		*106*	*70-135*			
Surrogate: 4-Bromofluorobenzene	*37.7*		"	*40.0*		*94*	*70-125*			

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

MACTEC Engineering & Consulting [Petaluma]	Project: BPS City Blue	MRC0633
5341 Old Redwood Highway, Suite 300	Project Number: 4097041918-05	**Reported:**
Petaluma CA, 94954	Project Manager: David Nanstad	04/10/08 15:33

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8C28010 - EPA 5030B P/T / EPA 8260B										
Blank (8C28010-BLK1)				Prepared & Analyzed: 03/28/08						
1,2-Dichloroethane	ND	0.50	ug/l							
Surrogate: Dibromofluoromethane	*2.36*		"	*2.50*		*94*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.44*		"	*2.50*		*98*	*60-150*			
Surrogate: Toluene-d8	*2.21*		"	*2.50*		*88*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.01*		"	*2.50*		*80*	*55-130*			
Laboratory Control Sample (8C28010-BS1)				Prepared & Analyzed: 03/28/08						
1,2-Dichloroethane	9.74	0.50	ug/l	10.0		97	65-130			
Surrogate: Dibromofluoromethane	*2.53*		"	*2.50*		*101*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.46*		"	*2.50*		*98*	*60-150*			
Surrogate: Toluene-d8	*2.48*		"	*2.50*		*99*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.60*		"	*2.50*		*104*	*55-130*			
Matrix Spike (8C28010-MS1)	**Source: MRC0652-02**			Prepared & Analyzed: 03/28/08						
1,2-Dichloroethane	10.8	0.50	ug/l	10.0	ND	108	65-145			
Surrogate: Dibromofluoromethane	*2.52*		"	*2.50*		*101*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.50*		"	*2.50*		*100*	*60-150*			
Surrogate: Toluene-d8	*2.47*		"	*2.50*		*99*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.67*		"	*2.50*		*107*	*55-130*			
Matrix Spike Dup (8C28010-MSD1)	**Source: MRC0652-02**			Prepared & Analyzed: 03/28/08						
1,2-Dichloroethane	10.6	0.50	ug/l	10.0	ND	106	65-145	2	25	
Surrogate: Dibromofluoromethane	*2.56*		"	*2.50*		*102*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.52*		"	*2.50*		*101*	*60-150*			
Surrogate: Toluene-d8	*2.44*		"	*2.50*		*98*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*2.66*		"	*2.50*		*106*	*55-130*			

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MACTEC Engineering & Consulting [Petaluma]	Project: BPS City Blue	MRC0633
5341 Old Redwood Highway, Suite 300	Project Number: 4097041918-05	**Reported:**
Petaluma CA, 94954	Project Manager: David Nanstad	04/10/08 15:33

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

MACTEC

CHAIN OF CUSTODY RECORD

490$

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

MRCO 633

SAMPLING INFORMATION

NAME OF FACILITY: Test America
STREET ADDRESS:
CITY / STATE: Morgan Hill, CA ZIP:

PROJECT NAME	JOB NO.
BPS (Formerly City Blue)	4097041918-05
SAMPLERS (SIGNATURE)	SAMPLERS INITIALS (PRINT)
David Allbut	D. Allbut
SAMPLING DATE	
3/26/08	

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: TPH-g (8015 modified)	BTEX (8020)	MtBE (8020)	EDC (Ethylene Dichloride)	FOR LAB USE ONLY
1135	X		W	4097041918-1			3	X	X	X	X	-01
1035	X		W	4097041918-2			3	X	X	X		-02
1105	X		W	4097041918-3			3	X	X	X	X	-03
0950	X		W	4097041918-4			3	X	X	X		-04
0800	X		W	4097041918-5		On Hold	2	X	X	X		-05

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME	RELINQUISHED BY:	RECEIVED BY:	DATE / TIME
David Allbut (SIGNATURE)	3/27/08	DLuna TAMM (SIGNATURE)	3/27/08 0915	(SIGNATURE)	(SIGNATURE)	

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

3.2°

REMARKS

Standard TAT
Detections of MtBE are to be confirmed by EPA 8260
Sample 4097041918-5 is "on hold" Project Manager = David Nanstad

For Lab Use Only

Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: MACTEC
REC. BY (PRINT) D. Luna
WORKORDER: MRC0633

DATE REC'D AT LAB: 3/27/08
TIME REC'D AT LAB: 9:15
DATE LOGGED IN: 3/27/08

For Regulatory Purposes?
___ DRINKING WATER
___ WASTE WATER
✓ OTHER

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent (circled: Absent)	-01	409704 1918-1	3 VOA	HCl	—	W	3/26/08	
	Intact / Broken*	-02	409701918-2	↓	↓	↓	↓	↓	
2. Chain-of-Custody	Present / Absent* (circled: Present)	-03	409701918-3	↓	↓	↓	↓	↓	
3. Traffic Reports or Packing List:	Present / Absent (circled: Absent)	-04	4097041918-4	↓	↓	↓	↓	↓	
		-05	4097041918-5	2 VOA	HCl	↓	↓	↓	
4. Airbill:	Airbill / Sticker Present / Absent (circled: Absent)								
5. Airbill #:	—								
6. Sample Labels:	Present / Absent (circled: Present)								
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody (circled: Listed)								
8. Sample Condition:	Intact / Broken* / Leaking* (circled: Intact)								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	**Yes / No*** (circled: Yes)								
10. Sample received within hold time?	Yes / No* (circled: Yes)								
11. Adequate sample volume received?	Yes / No* (circled: Yes)								
12. Proper preservatives used?	Yes / No* (circled: Yes)								
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / No* (circled: Yes)								
14. Read Temp:	4.2								
Correction Factor:	-1.0								
Corrected Temp:	3.2								
Is corrected temp. 0-6°C?	Yes / No** (circled: Yes)								
**Exception (if any): Metals / Perchlorate DFF on Ice or Problem COC									

Rec'd 3/27/08 D. Luna TAmst

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

SAMPLERECEIPTLOG
Revision 9 (10/26/07)

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	Sample ID
MW-1	4097041918-1
MW-3	4097041918-2
MW-5	4097041918-3
MW-6	4097041918-4

MACTEC

GROUNDWATER SAMPLING FORM

Job Name: BPS Services Oakland, CA
Job Number: 409704191 8-05
Recorded By: David Allen (Signature)

Well Number: MW-6
Well Type: X Monitor Extraction Other
X PVC St. Steel Other
Date: 3/26/08
Sampled By: DA ~~SK~~ (initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches): 2
Total Depth of Casing (TD in ft BTOC): ~
Water Level Depth (WL in ft BTOC): 22.97
No. of Well Volumes to be purged (# V): N/A no purge

PURGE METHOD

Bailer - Type:
Submersible - Type:
X Other - Type: peristaltic w/ dedicated tubing

PUMP INTAKE SETTING

Near Bottom X Near Top 3' below TOC
Other
Depth in feet (BTOC):
Screen Interval in feet (BTOC): from — to —

PURGE VOLUME CALCULATION

(~ - ~) X ~ ² X 3 X 0.0408 = ~ gals
TD (feet) WL (Feet) D (inches) # V Calculated Purge Volume

Field Parameter Measurement

Minutes	pH	Conductivity (µS)	Temp. X °C ☐ °F	Turbidity (NTU)	DO (mg/L)
Initial	6.85	1080	19.21	21.2	1.29
				ORP 229.0 (mV)	
Meter S/N					

PURGE TIME

Purge Start: 0940
Purge Stop: 0950
Elapsed: 10 min

PURGE RATE

~~GPM~~: 200 ml/min → 100
GPM:

PURGE VOLUME

Volume: 280 ml ~~gallons~~ ml

Observations During Purging (Well Condition, Color, Odor):
clear

Discharge Water Disposal: Sanitary Sewer
Storm Sewer Other N/A

WELL SAMPLING

Bailer - Type: peristaltic pump w/ dedicated tubing Sample Time: 0950

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
409704191 8-4	3x40mL Voa	TPH-G, BTEX, MTBE	HCl	C&T	Time = 0950

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank Samples		Other Samples	
Original Sample No.	Dupl. Sample No.	Type	Sample No.	Type	Sample No.

MACTEC

GROUNDWATER SAMPLING FORM

Job Name: BPS Services Oakland, CA
Job Number: 409704.1918.05
Recorded By: David Adler (Signature)

Well Number: MW-3
Well Type: X Monitor / Extraction / Other; X PVC / St. Steel / Other
Date: 3/26/08
Sampled By: DA ~~SK~~ (initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches): 2
Total Depth of Casing (TD in ft BTOC): —
Water Level Depth (WL in ft BTOC): 23.00
No. of Well Volumes to be purged (# V): no purge

PURGE METHOD

Bailer - Type:
Submersible - Type:
X Other - Type: peristaltic w/dedicated tubing

PUMP INTAKE SETTING

Near Bottom / X Near Top 3' below DTW / Other
Depth in feet (BTOC):
Screen Interval in feet (BTOC): from — to —

PURGE VOLUME CALCULATION

(— - —) X —² X 3 X 0.0408 = — gals
TD (feet) WL (Feet) D (inches) # V Calculated Purge Volume

Field Parameter Measurement

Minutes	pH	Conductivity (µS)	Temp. (X °C / °F)	Turbidity (NTU)	DO (mg/L)
Initial	5.98	242	18.25	14.5	0.47
				ORP (mV)	-33.6
Meter S/N					

PURGE TIME

Purge Start: 1025
Purge Stop: 1040
Elapsed: 15 min

PURGE RATE

~~GPM~~: 200 mL/min → 100
GPM:

PURGE VOLUME

Volume: 280 ~~gallons~~ mL

Observations During Purging (Well Condition, Color, Odor):
clear, slight hydrocarbon odor

Discharge Water Disposal: Sanitary Sewer / Storm Sewer / Other N/A

WELL SAMPLING

Bailer - Type: dedicated tubing
Sample Time: 1035

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
409704.1918-2	3x40mL VOA	TPH-G; BTEX; MTBE	HCl	C&T	time = 1035

QUALITY CONTROL SAMPLES

Duplicate Samples	
Original Sample No.	Dupl. Sample No.

Blank Samples	
Type	Sample No.

Other Samples	
Type	Sample No.

MACTEC

GROUNDWATER SAMPLING FORM

Job Name: BPS Services Oakland, CA
Job Number: 409704191B-05
Recorded By: David Allaut (Signature)

Well Number: MW-5
Well Type: X Monitor Extraction Other
X PVC St. Steel Other
Date: 3/26/08
Sampled By: ~~SK~~ DA (initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches): 2
Total Depth of Casing (TD in ft BTOC): –
Water Level Depth (WL in ft BTOC): 21.77
No. of Well Volumes to be purged (# V): no purge

PURGE METHOD

Bailer - Type:
Submersible - Type:
X Other - Type: peristaltic w/dedicated tubing

PUMP INTAKE SETTING

Near Bottom X Near Top 3' below PTW
Other
Depth in feet (BTOC): –
Screen Interval in feet (BTOC): from – to –

PURGE VOLUME CALCULATION

(– - –) X – ² X 3 X 0.0408 = – gals
TD (feet) WL (Feet) D (inches) # V Calculated Purge Volume

Field Parameter Measurement

Minutes	pH	Conductivity (µS)	Temp. X °C ☐ °F	Turbidity (NTU)	DO mg/L
Initial	6.77	670	17.83	13.9	0.58
				ORP (mV)	-90.8
Meter S/N					

PURGE TIME

Purge Start: 1055
Purge Stop: 1109
Elapsed: 8 min

PURGE RATE

GPM: 200 ml/min = 100
GPM:

PURGE VOLUME

Volume: 280 gallons ml

Observations During Purging (Well Condition, Color, Odor):
clear, hydrocarbon odor

Discharge Water Disposal: Sanitary Sewer
Storm Sewer Other no purge

WELL SAMPLING

Bailer - Type: dedicated tubing
Sample Time: 1105

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
409704191B-3	3x40mlVOA	TPH-g, BTEX, MtBE	HCl	C&T	time = 1105

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank Samples		Other Samples	
Original Sample No.	Dupl. Sample No.	Type	Sample No.	Type	Sample No.

MACTEC

GROUNDWATER SAMPLING FORM

Job Name: BPS Services Oakland, CA
Job Number: 409704191 8-05
Recorded By: David Allbut (Signature)

Well Number: MW-1
Well Type: X Monitor / Extraction / Other; X PVC / St. Steel / Other
Date: 3/26/08
Sampled By: ~~SK~~ DA (initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches): 4
Total Depth of Casing (TD in ft BTOC): —
Water Level Depth (WL in ft BTOC): 23.56
No. of Well Volumes to be purged (# V): no purge

PURGE METHOD

Bailer - Type:
Submersible - Type:
X Other - Type: peristaltic w/ dedicated tubing

PUMP INTAKE SETTING

Near Bottom / X Near Top 3' below DTW
Other
Depth in feet (BTOC):
Screen Interval in feet (BTOC): from — to —

PURGE VOLUME CALCULATION

(— - —) X —² X 3 X 0.0408 = — gals
TD (feet) WL (Feet) D (inches) # V Calculated Purge Volume

Field Parameter Measurement

Minutes	pH	Conductivity (µS)	Temp. X °C / °F	Turbidity (NTU) DO (mg/L)
Initial	6.90	1208	19.20	13.0 / 0.46
				ORP (mV) -171.8
Meter S/N				

PURGE TIME

Purge Start: 1125
Purge Stop: 1138
Elapsed: 13 min

PURGE RATE

GPM: 200 ml/min = .1 GPM
GPM:

PURGE VOLUME

Volume: 280 ~~gallons~~ ml

Observations During Purging (Well Condition, Color, Odor):
clear, hydrocarbon odor

Discharge Water Disposal: Sanitary Sewer / Storm Sewer / Other no purge

WELL SAMPLING

Bailer - Type: dedicated tubing
Sample Time: 1135

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
409704191 8-01	3x40 ml VOA	~~TPH-G~~ 8260, BTEX, MTBE	HCl	C&T	time = 1135

QUALITY CONTROL SAMPLES

Duplicate Samples	
Original Sample No.	Dupl. Sample No.

Blank Samples	
Type	Sample No.
Trip Blank	409704191 8-5
	Time = 0800

Other Samples	
Type	Sample No.

MACTEC

CHAIN OF CUSTODY RECORD

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

SAMPLING INFORMATION

NAME OF FACILITY: Test America
STREET ADDRESS:
CITY / STATE: Morgan Hill, CA ZIP:

PROJECT NAME	JOB NO.
BP's (Formerly City Blue)	409704 1918 -05
SAMPLERS (SIGNATURE)	SAMPLERS INITIALS (PRINT)
David Allbut	D. Allbut
SAMPLING DATE	
3/26/08	

TIME	GRAB	COMP.	* MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT	TOTAL NO. OF CONTAINERS	ANALYSES: TPH-g (GC/FID modified)	BTEX (8021B)	MtBE (8021B)	EDC (Ethylene Dichloride)	FOR LAB USE ONLY
1135	X		W	409704 1918-1	MW-1		3	X	X	X	X	
1035	X		W	409704 1918-2	MW-3		3	X	X	X		
1105	X		W	409704 1918-3	MW-5		3	X	X	X	X	
0950	X		W	409704 1918-4	MW-6		3	X	X	X		
0800	X		W	409704 1918-5	Trip Blank	On Hold	2	X	X	X		

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME	RELINQUISHED BY:	RECEIVED BY:	DATE / TIME
David Allbut (SIGNATURE)	3/27/08 0915	DLuna TAMH (SIGNATURE)	3/27/08 0915	(SIGNATURE)	(SIGNATURE)	

*MATRIX
WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.

REMARKS

Standard TAT
Detections of MtBE are to be confirmed by EPA 8260
Sample 409704 1918-5 is "on hold" Project Manager = David Nanstad

For Lab Use Only

Are Custody Seals Present? Yes ☐ No ☐ Are Custody Seals Intact? Yes ☐ No ☐ N/A ☐ Inspected By: Date:

F1008 (05/00)

MACTEC

MODIFIED 2/26/2008

FIELD INVESTIGATION DAILY REPORT

Date: 3/26/08

Project name/task: BPS Services / Olin Standard Fusee

Project No.: 40970419 18-05, 61000800 13-02,

Team Members: DA

Time work started: 0700

Time work ended: 1700

Description of work completed: Sampled BPS Services site in Oakland, Arranged Bottled water sampling logs

Number and type of wells sampled: BPS → 6 water levels, 4 - NAPL purge samples

Problems encountered: N/A

Corrective actions taken: N/A

QA/QC Check list:

COCs	Field Logs & Parameter Sheets
☑ Sample ID, date, and time has been cross-checked with COC, field log, and sample bottle.	☑ Every appropriate line has been filled out completely and accurately.
☑ Project name and # is correct.	☑ Calibration of equipment is w/in 1 day.
☑ Analyses requested is correctly indicated.	☑ Any corrections have been initialed.
☑ Sampler has been initialed.	☑ Log book is accurate and complete.
☑ Proper zone has been indicated.	☑ Appropriate sample registry has been updated.
☑ Any corrections have been initialed.	
Misc.	
☑ Field equipment has been cleaned and stored in proper location.	☑ Field logs and COCs are separated and in chronological order.
☑ Team file boxes are in field trailer and sufficiently stocked.	☑ An attention to detail has been applied to all aspects of my work today.

Additional comments:

Signatures: [signature] **Date & Time** 3/26/08

Notebook No. _____

Continued From Page _____

DATE: 3/26/08
FIELD PERSONNEL: David Allbut
PROJECT #: 409704 1918-05
PROJECT DESCRIPTION: 1Q08 Sampling
WEATHER CONDITIONS: clear, mild

BPS Services (former City Blue)
Oakland, CA

0700 left for Oakland
0800 Site arrival, decon
0805 Began water levels
0830 Finished water levels
0845 left for MACTEC Oakland office to pick up equipment
0930 Returned to site; calibrated YSI
0940 @ MW-6 No-purge sample for 8015, 8020, DO pre-purge
1020 @ MW-3 No-purge sample for 8015, 8020, DO pre-purge
1050 @ MW-5 Pre-purge DO, No-purge sample for 8015, 8020, EDC
1120 @ MW-1 Pre-purge DO, No-purge sample for 8015, 8020, EDC
1140 Paperwork; QA/QC;
1200 Left site

DA

Continued on Page

Read and Understood By

David Allbut 3/27/08

Signed Date Signed Date

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	3/26/08	0818	23.56	23.56	Y	N	OK	OK	4	
MW-3	↓	0812	23.00	23.00	Y	N	OK	OK	4	No sheen detected w/ IF
MW-5		0815	21.77	21.77	Y	N	OK	OK	2	
MW-6		0807	22.97	22.97	Y	N	OK		2	3/3 tabs stripped
MW-1A		0825	22.03	22.03	Y	N	OK		4	2/2 tabs stripped
MW-4		0830	23.48	23.48	Y	N	OK	OK	4	↓

Please record all monitoring equipment model numbers, serial numbers and calibration dates here. Also record expiration dates of calibration fluids if applicable: 3/26/08

	Meter:	Calibration Solution Info
pH:	YSI 556 #04A0031A1	pH 7: Exp 5/10/08 Lot 5713 pH 10: Exp 12/23/08 Lot 1706759
Temperature:	↓	N/A
Specific Conductance:	↓	1000 µS/cm; Exp 4/4/08 Lot 5666
Dissolved Oxygen:	YSI 55 #01D0873AD	N/A
Turbidity:	LaMotte 2020 #2766-3601	N/A
Redox:	YSI 556 #04A0031A1	Exp 2/8/09 Lot# 020808