



December 15, 2005

Project 4097041918 Task 01

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

**Groundwater Remediation and Monitoring Report
Third Quarter 2005
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California**

Dear Mr. Blain:

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). Information presented in this letter-report represents groundwater conditions at the subject site during the Third Quarter 2005 (April through June), 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. 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).

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 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

December 15, 2005
4097041918 Task 01
Mr. David Blain
BPS Reprographic Services
Page 2

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 Regenesis, 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 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.

THIRD QUARTER 2005 GROUNDWATER SAMPLING AND ANALYSIS

On September 9, 2005, 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 Insitu-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, 2002. 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.

Table 1 shows groundwater parameters collected during sampling including DO concentrations. 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 Third Quarter 2005 event, DO was monitored in each well. The DO concentrations ranged from 0.6 mg/L in MW-1 and MW-3 to 1.1 mg/L in MW-6. MACTEC will continue to monitor DO in these wells.

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. As shown in Table 2, the groundwater surface elevation decreased an average of 0.34 feet across the site as compared to last quarter's measurements. Groundwater elevations at the site have generally been increasing since groundwater monitoring began. MACTEC will continue to monitor *groundwater elevations* in these wells.

Using the groundwater elevations from MW-1, MW-3, MW-5 and MW-6 as measured on June 23, 2005, groundwater contours were created and are shown on Plate 3. Based on the groundwater elevations, the groundwater gradient is approximately 0.005 ft/ft. The direction of flow appears to be in the 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 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.

Historical analytical results for TPH-g, BTEX and MTBE collected through September 29, 1999 are shown on Table 3. Third Quarter 2005 analytical results for TPH-g, BTEX, MTBE and EDC are displayed on Plate 4. Analytical results collected since September 29, 1999 are shown on Table 4 and presented graphically on Plate 5. 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 Appendix A.

DISCUSSION

As shown on Table 4 and Plate 5, Third Quarter 2005 monitoring event concentrations of TPH-g and BTEX appear generally within the wells historical fluctuation ranges respectively. These results are discussed further below.

Significant spikes in TPH-g and BTEX concentrations occurred in MW-1 during the Second Quarter 2003 monitoring event. Since that event concentrations in MW-1 appear to be trending down. Third Quarter 2005 concentration data in MW-1 indicate an overall significant decrease in TPH-g and BTEX concentrations compared to Second Quarter 2005 concentration data.

Significant spikes in TPH-g and TEX concentrations occurred in MW-3 during the Second Quarter 2003 monitoring event and a significant spike in Benzene in MW-3 occurred during the First Quarter 2003 monitoring event. Except for the spike in benzene concentration detected Fourth Quarter 2004, the overall concentrations in MW-3 appear to be trending down since the Second Quarter 2003. However, Third Quarter 2005 analytical results for Benzene in this well indicate the highest Benzene concentration monitored since the First Quarter 1998. Third Quarter 2005 concentration data for TPH-g and TEX in MW-3 indicate moderate increases compared to Second Quarter 2005 data.

Significant spikes in TPH-g and BTEX concentrations occurred in MW-5 during the Third Quarter 2003 monitoring event. Since that event, TPH-g and BTEX concentrations appeared to be trending down until the Third Quarter 2004. The Third Quarter 2004 monitoring data indicated that TPH-g and BTEX concentrations increased significantly and were approaching high concentration levels monitored during the Third Quarter 2003. Third Quarter 2005 concentration data indicate an overall moderate increase in TPH-g and BTEX concentrations compared to Second Quarter 2005 concentration data.

Typically groundwater collected from MW-6 contains no detectable concentrations of TPH-g or BTEX compounds. Third Quarter 2005 monitoring data for MW-6 indicates no concentrations of TPH-g or BTEX compounds were detected in this well. MW-6 will continue to be monitored for these analytes.

The following show the range of monitored data for the Third Quarter 2005 event as shown on Table 4:

TPH-g ranged from non-detectable [with a detection limit of 0.05 mg/L (MW-6)] to 46 mg/l (MW-5). Benzene ranged from non-detectable with a detection limit of 0.5 ug/L (MW-6) to 10,000 ug/L (MW-5). Toluene ranged from non-detectable with a detection limit of 0.5 ug/L (MW-6) to 2,700 ug/L (MW-5). Ethylbenzene ranged from non-detectable with a detection limit of 0.5 ug/L (MW-6) to 1,100 ug/L (MW-5). Total Xylenes ranged from non-detectable with a detection limit of 0.5 ug/L (MW-6) to 2,100

December 15, 2005
4097041918 Task 01
Mr. David Blain
BPS Reprographic Services
Page 5

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 1,200 ug/L (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 Third Quarter 2005 event. Concentrations of EDC in MW-1 and MW-5 remain within a similar range as previously detected. EDC was detected in the sample from MW-1 at a concentration of 290 ug/L, a slight increase from last quarter results of 240 ug/L. EDC was detected in MW-5 at a concentration of 300 ug/L, a moderate increase from last quarter results of 190 ug/L.

RECOMMENDATIONS

MACTEC recommends continued groundwater monitoring at the Site. 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 The County.

November 21, 2005
4097041918 Task 01
Mr. David Blain
BPS Reprographic Services
Page 6

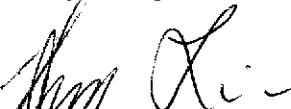
If you have any questions, please contact David S. Nanstad at (415) 278-2118.

Sincerely,

MACTEC ENGINEERING AND CONSULTING, INC.



David S. Nanstad, REA
Project Engineer



Henry Lin, PE
Principal Engineer



Exp. Dec. 31, 2005

4 copies submitted

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

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

DSN:/Cityblue/3Q05

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

Disolved 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
REDOX (mvols)				
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 ⁵	-82	-75	NA ²	172
7/1/2003 ⁵	212	230	NA ²	227
9/24/2003 ⁵	-166	-300	-183	50
12/29/2003 ⁵	-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	-130	127
3/16/2005	-36	-50	-162	177
6/23/2005	-225	-42	-117	109
9/9/2005	-30	-52	-152	98
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 ⁵	64.6	67.6	NA ²	68.0
7/1/2003 ⁵	79.4	80.3	NA ²	81.9
9/24/2003 ⁵	65.1	67.1	65.7	68.5
12/29/2003 ⁵	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	63.5	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

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	8.4	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 ^a	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

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	963
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

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

mg/l = milligrams per liter
 mvolt = 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

**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
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

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.

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

	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 ³	9/25/2003 ⁵	12/29/2003 ³	5/18/2004	6/30/2004	9/23/2004	12/28/2004	3/16/2005	6/23/2005	9/9/2005	
TPHg (mg/L)																										
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	
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	
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	
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	
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	5,400	4,100	4,500	4,500	7,700	7,600	6,600	4,100	3,500	3,800	3,400	4,100	5,400	840	
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	
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	7,700	5,000	5,700	12,000	10,000	11,000	7,700	10,000	
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	
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	4,700	5,000	6,000	11,000	9,400	7,900	4,700	3,600	3,900	3,400	4,200	5,500	950	
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	
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	1,900	1,300	1,600	3,900	3,800	3,800	1,700	2,700	
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<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	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	1,200	1,000	960	450	390	470	380	470	520	120	
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	
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	1,500	910	380	540	1,200	1,000	1,100	680	1,100	
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	
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	3,500	2,700	3,000	3,100	6,700	4,800	4,000	1,500	1,300	1,400	1,400	1,300	1,900	410	
MW-3	580	260	28	17	160	28	8.1	160	210	7	1.4	390	150	260	230	390	210	59	40	40	60	2.9	12	96		
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	3,000	210	770	1,200	2,400	2,300	2,400	1,300	2,100	
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	ND<0.5	ND<0.5	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	ND<250	ND<1200	ND<250	ND<50	ND<50	ND<25	ND<250	ND<50 ¹	ND<1,200	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	ND<5 ¹	ND<2.5 ¹	ND<2.5 ¹	ND<12	ND<1.0	ND<10	ND<5 ¹	ND<2.5	ND<25	ND<62	
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	
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

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
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 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.

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

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	¹ 6/30/2004	¹ 9/23/2004	¹ 12/28/2004	¹ 3/16/2005	6/23/2005	9/9/2005
tert Amyl Methyl Ether (µg/L)												
MW-1	ND<250	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-3	ND<25	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*ND<100	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-6	ND<1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Ethyl tert Butyl Ether (µg/L)												
MW-1	ND<250	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-3	ND<25	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*ND<100	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-6	ND<1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Di-isopropyl Ether (µg/L)												
MW-1	ND<250	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-3	ND<25	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*ND<100	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-6	ND<1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
tert Butyl Alcohol (µg/L)												
MW-1	ND<5000	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-3	ND<500	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*ND<2000	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-6	ND<20	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Ethylene Dibromide (µg/L)												
MW-1	ND<120	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-3	ND<12	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*ND<50	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-6	ND<0.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Ethylene Dichloride (µg/L)												
MW-1	370	ND<120	400	*500	360	320	320	260	180	190	240	290
MW-3	ND<12	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*220	¹ NA	¹ NA	610	410	290	610	670	290	610	190	300
MW-6	ND<0.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

Notes:

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

µg/l = micrograms per liter

NA = Not Applicable

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 analyte does not need continued monitoring/MW-1 and MW-5 are the only wells currently sampled for Ethylene Dichloride (see report text for details)

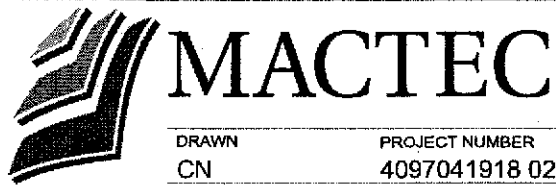
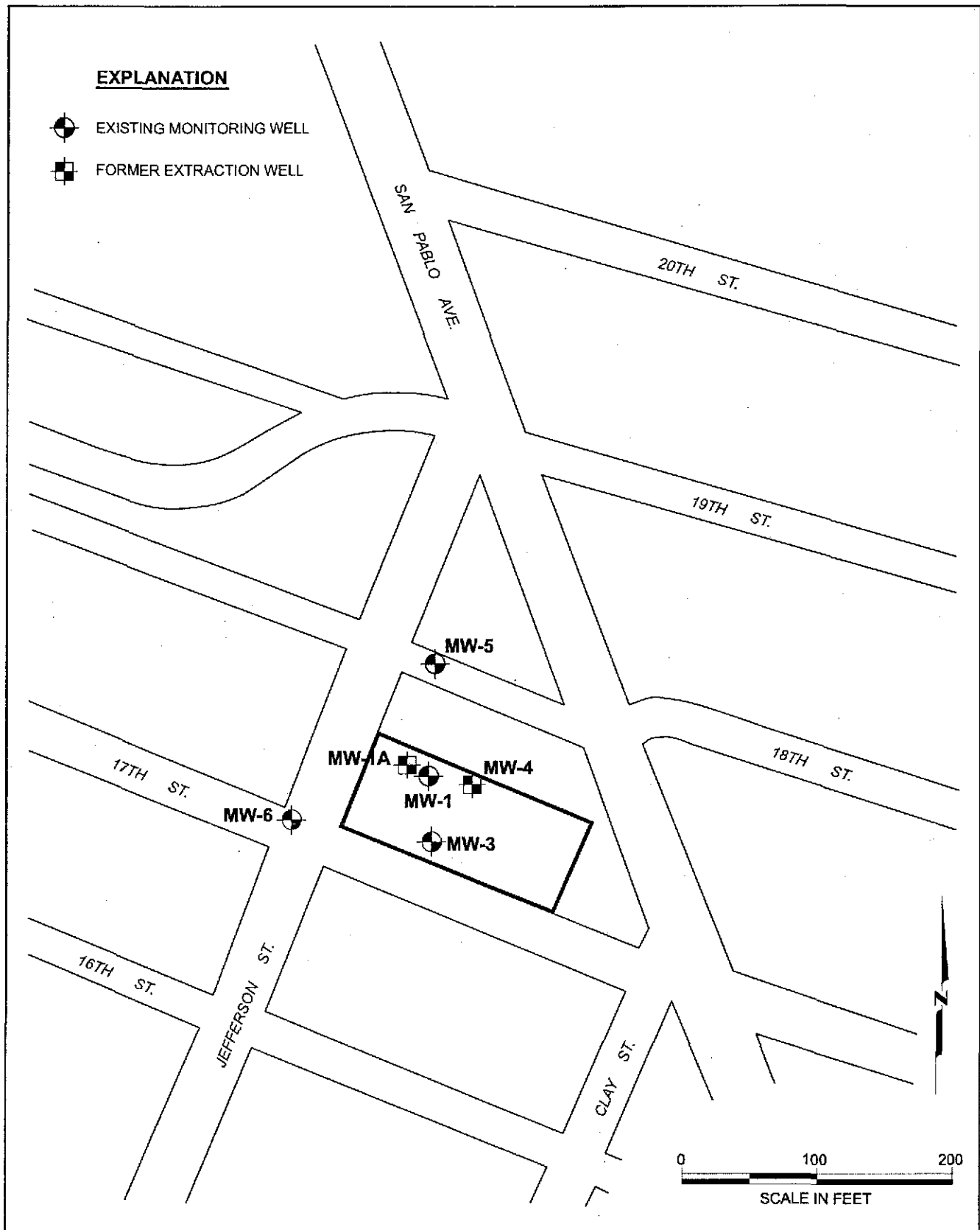
* = Analytical data collected for MW-5 on January 3, 2003

a = EDC detected at same concentration as detection limit

1 = Samples on this date collected without purging

2 = Samples on this date collected post purge

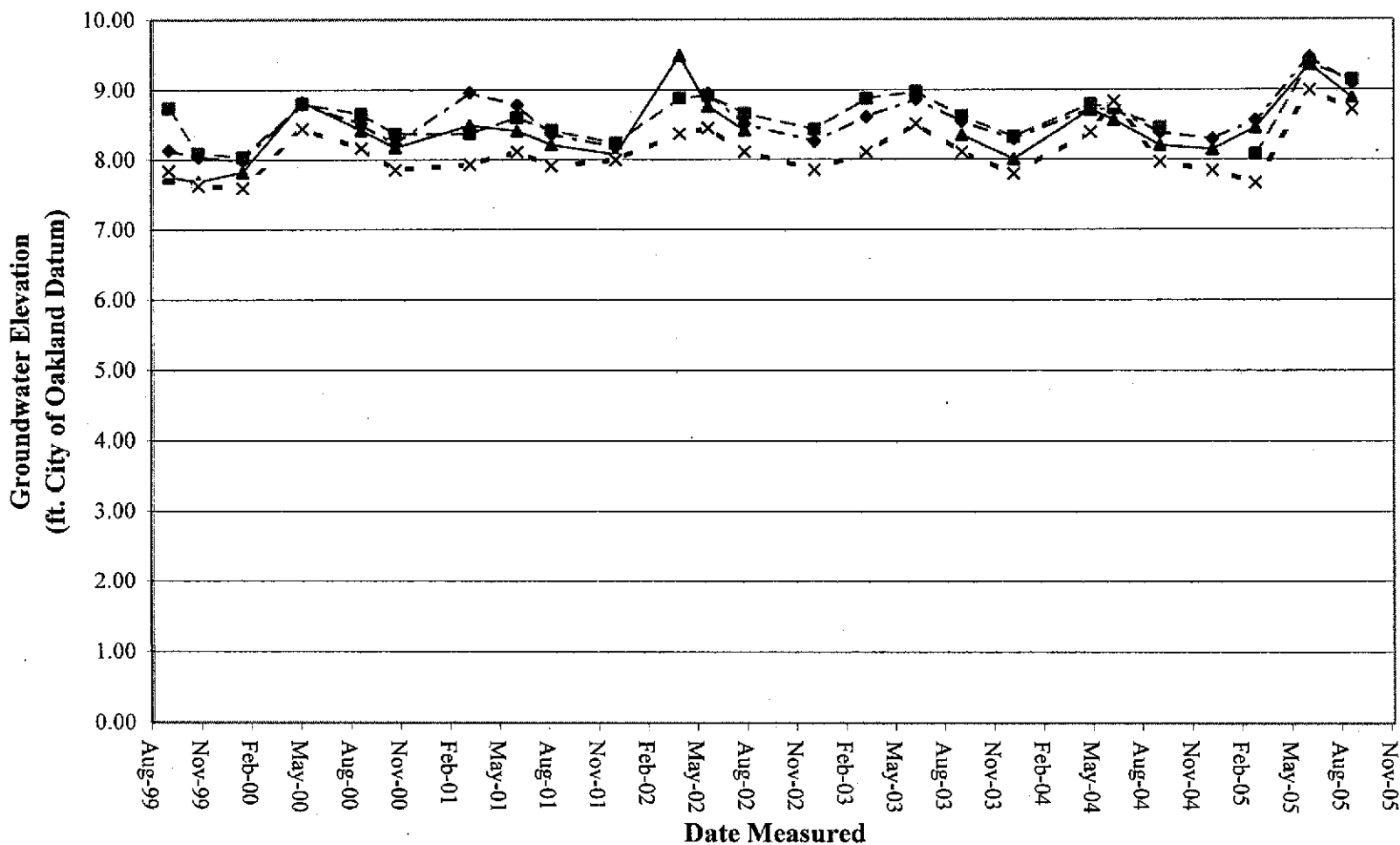
3 = Data from April 1 and July 1, 2003 sampling event not available due to stuck ORC socks obstructing well (see Report for details).



Site Map
 Third Quarter 2005
 1700 Jefferson Street
 BPS Reprographic Services Facility
 Oakland, California

PLATE
1

DRAWN	PROJECT NUMBER	CHECKED	DATE	APPROVED	DATE
CN	4097041918 02	<i>BN</i>	11/05		



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



Groundwater Elevation Data
 Third Quarter 2005
 BPS Reprographic Services Facility
 1700 Jefferson Street
 Oakland, California

Plate

2

DRAWN
DSN




JOB NUMBER
4097041918

APPROVED
[Signature]

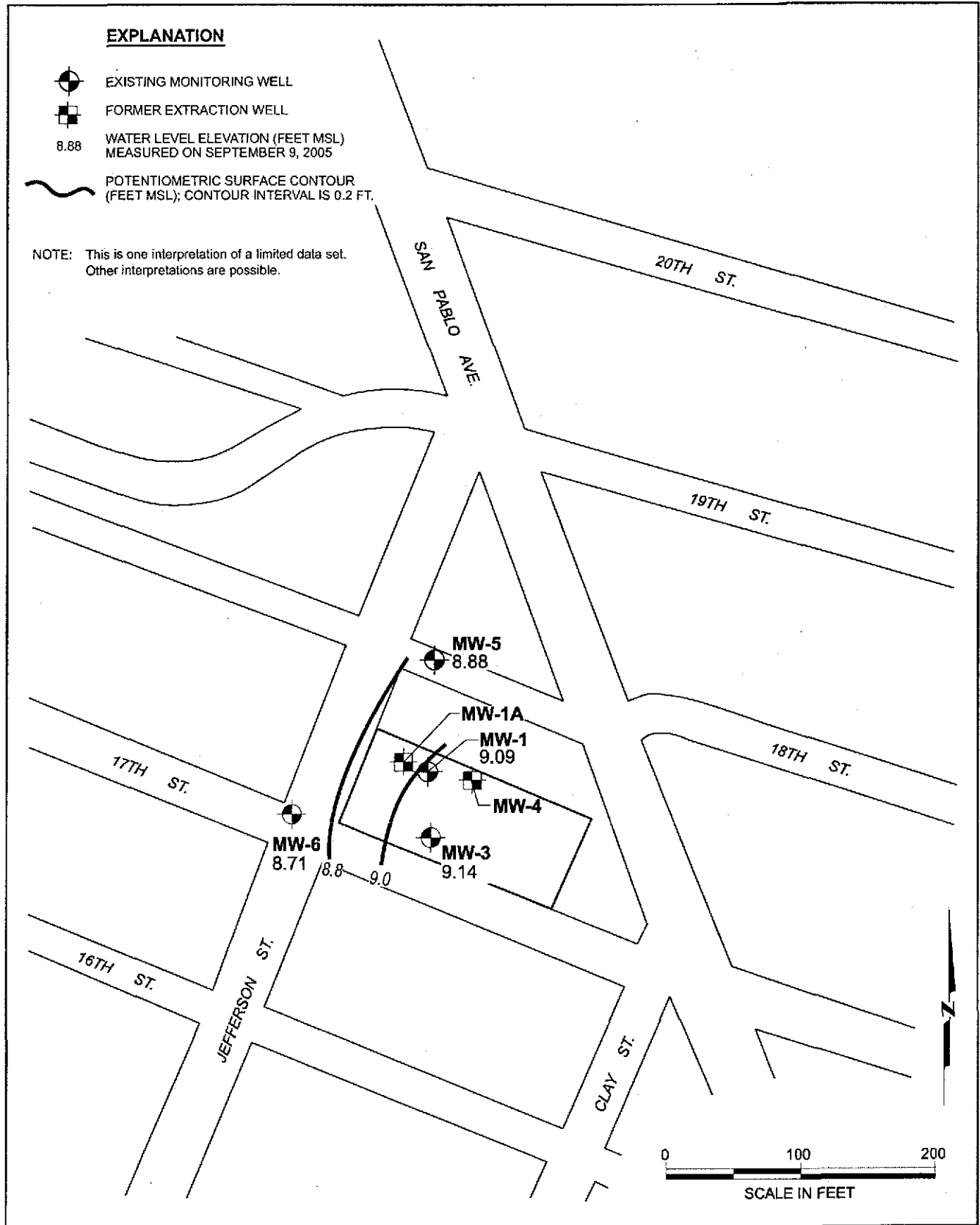
DATE
October-05

REVISION DATE

EXPLANATION

-  EXISTING MONITORING WELL
-  FORMER EXTRACTION WELL
- 8.88 WATER LEVEL ELEVATION (FEET MSL)
MEASURED ON SEPTEMBER 9, 2005
-  POTENTIOMETRIC SURFACE CONTOUR
(FEET MSL); CONTOUR INTERVAL IS 0.2 FT.

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



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Groundwater Contours
Third Quarter 2005
1700 Jefferson Street
BPS Reprographic Services Facility
Oakland, California

PLATE

3

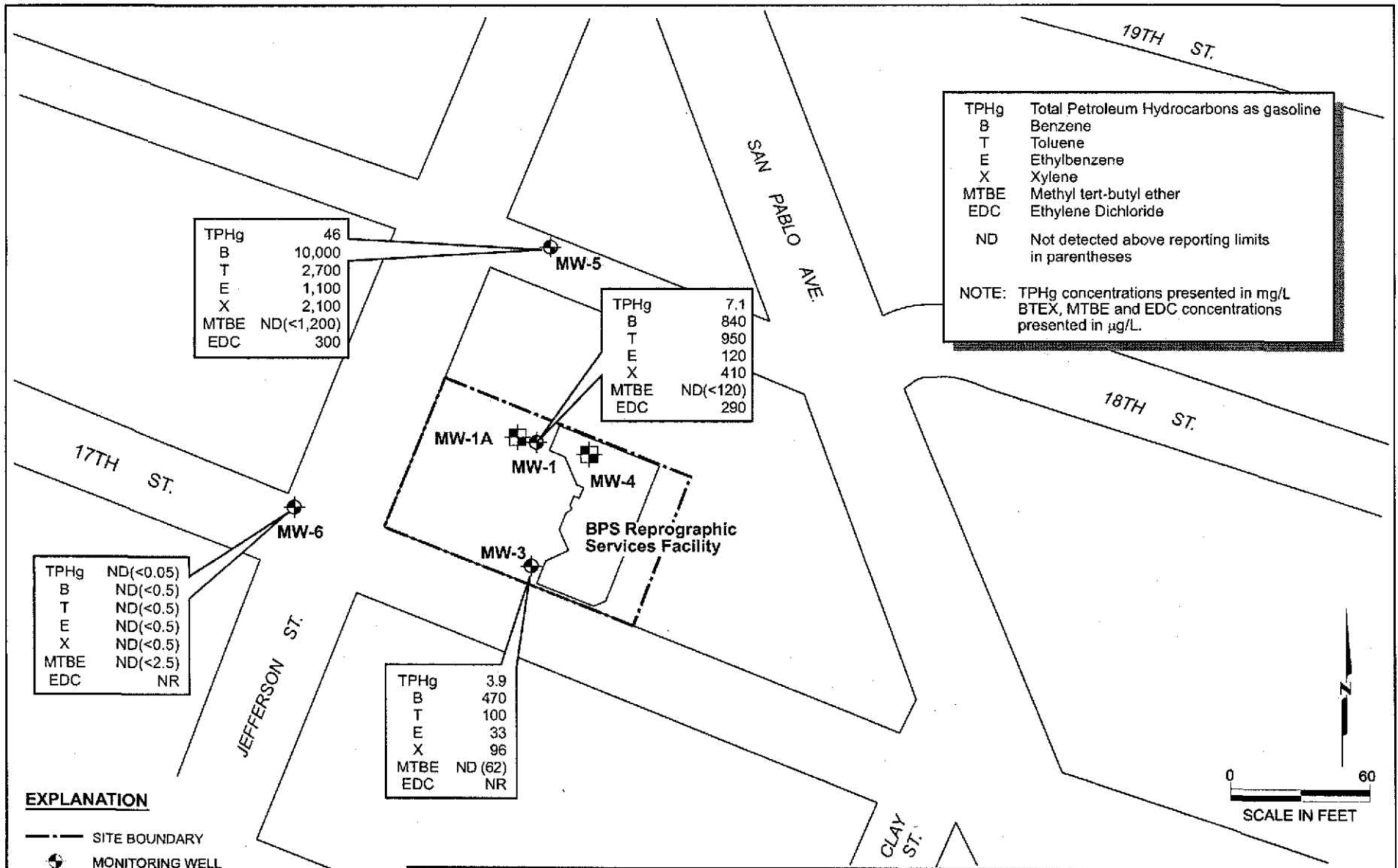
DRAWN
CN

PROJECT NUMBER
4097041918 02

CHECKED


DATE
11/05

APPROVED DATE



TPHg	Total Petroleum Hydrocarbons as gasoline
B	Benzene
T	Toluene
E	Ethylbenzene
X	Xylene
MTBE	Methyl tert-butyl ether
EDC	Ethylene Dichloride
ND	Not detected above reporting limits in parentheses

NOTE: TPHg concentrations presented in mg/L
BTEX, MTBE and EDC concentrations presented in µg/L.

TPHg	46
B	10,000
T	2,700
E	1,100
X	2,100
MTBE	ND(<1,200)
EDC	300

TPHg	7.1
B	840
T	950
E	120
X	410
MTBE	ND(<120)
EDC	290

TPHg	ND(<0.05)
B	ND(<0.5)
T	ND(<0.5)
E	ND(<0.5)
X	ND(<0.5)
MTBE	ND(<2.5)
EDC	NR

TPHg	3.9
B	470
T	100
E	33
X	96
MTBE	ND (62)
EDC	NR

EXPLANATION

- SITE BOUNDARY
- ⊙ MONITORING WELL
- ⊕ FORMER EXTRACTION WELL
- mg/L MILLIGRAMS PER LITER
- µg/L MICROGRAMS PER LITER
- NR NOT REQUIRED (ONLY WELLS MW-1 AND MW-5 REQUIRE EDC MONITORING - SEE REPORT)



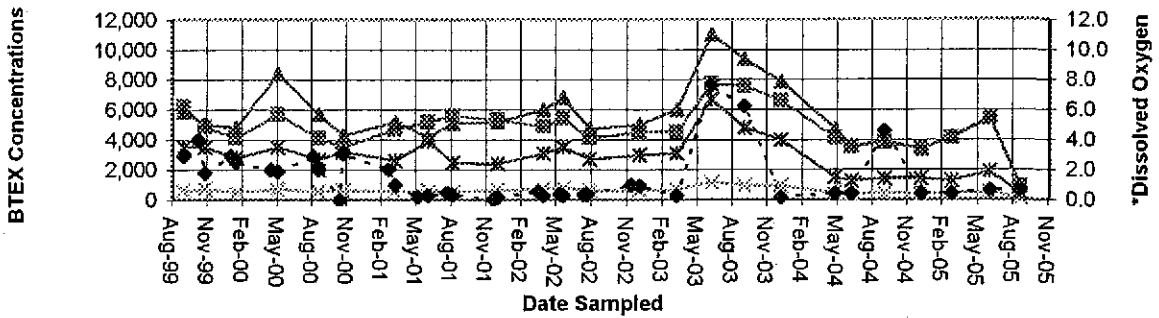
MACTEC

TPHg, BTEX, MTBE and EDC Concentrations in Groundwater
Third Quarter 2005
1700 Jefferson Street
BPS Reprographic Services Facility
Oakland, California

PLATE
4

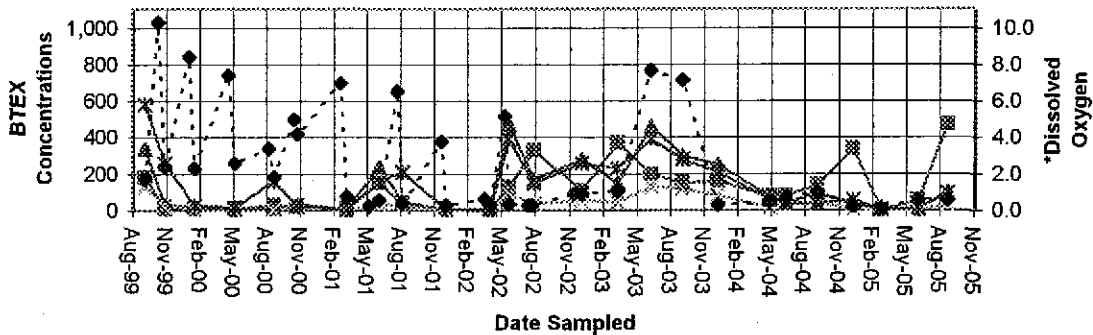
DRAWN CN	PROJECT NUMBER 4097041918 02	CHECKED <i>[Signature]</i>	DATE 11/05	APPROVED	DATE
-------------	---------------------------------	-------------------------------	---------------	----------	------

MW-1



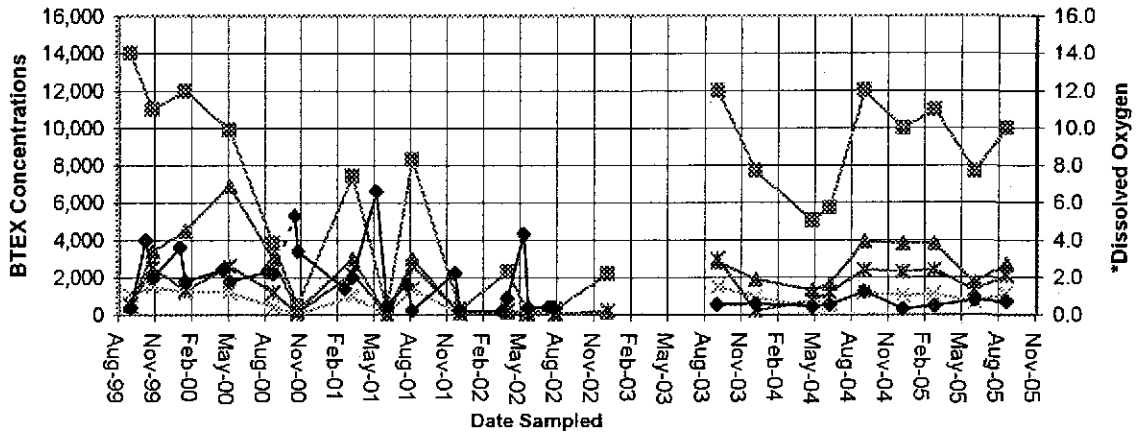
(Samples collected post purge between July 2003 and December 2003, all other samples collected pre-purge. ORC removed after Sept. 2002.)

MW-3



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

MW-5



(Samples collected post purge between July 2003 and December 2003, all other samples collected pre-purge. ORC sock stuck in MW-5 for April 2003 and July 2003 sampling events.)

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

* DO values collected after ORC removal and prior to sampling between Sept. 99 and Sept. 2002.



MACTEC

BTEX and DO Results

Third Quarter 2005
 BPS Reprographic Services Facility
 1700 Jefferson Street
 Oakland, California

Plate

5

Drawn by
DSN

JOB NUMBER
4097041918

APPROVED
[Signature]

DATE
Oct-05

REVISION DATE

APPENDIX A

LABORATORY REPORTS

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

Well/Sample Number	Sample ID
MW-1	05364097-1
MW-3	05364097-2
MW-5	05364097-3
MW-6	05364097-4
Trip Blank	05364097-5



September 28 , 2005

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

RE: BPS City Blue
Work Order: MOI0382

Enclosed are the results of analyses for samples received by the laboratory on 09/10/05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate Number 1210





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

Project: BPS City Blue
Project Number: 4097041918.01
Project Manager: David Nanstad

MOI0382
Reported:
09/28/05 11:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
05364097-4	MOI0382-01	Water	09/09/05 08:00	09/10/05 08:30
05364097-2	MOI0382-02	Water	09/09/05 08:45	09/10/05 08:30
05364097-3	MOI0382-03	Water	09/09/05 10:15	09/10/05 08:30
05364097-1	MOI0382-04	Water	09/09/05 09:30	09/10/05 08:30
05364097-5	MOI0382-05	Water	09/09/05 10:00	09/10/05 08:30





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

Project: BPS City Blue
Project Number: 4097041918.01
Project Manager: David Nanstad

MOI0382
Reported:
09/28/05 11:27

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
05364097-4 (MOI0382-01) Water Sampled: 09/09/05 08:00 Received: 09/10/05 08:30									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	5I21027	09/21/05	09/22/05	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: <i>a,a,a</i> -Trifluorotoluene		106 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	80-120	"	"	"	"	"	
05364097-2 (MOI0382-02) Water Sampled: 09/09/05 08:45 Received: 09/10/05 08:30									
Gasoline Range Organics (C4-C12)	3900	1200	ug/l	25	5I21027	09/21/05	09/21/05	EPA 8015B/8021B	
Benzene	470	12	"	"	"	"	"	"	
Toluene	100	12	"	"	"	"	"	"	
Ethylbenzene	33	12	"	"	"	"	"	"	
Xylenes (total)	96	12	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	62	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		94 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	80-120	"	"	"	"	"	
05364097-3 (MOI0382-03) Water Sampled: 09/09/05 10:15 Received: 09/10/05 08:30									
Gasoline Range Organics (C4-C12)	46000	25000	ug/l	500	5I21027	09/21/05	09/21/05	EPA 8015B/8021B	
Benzene	10000	250	"	"	"	"	"	"	
Toluene	2700	250	"	"	"	"	"	"	
Ethylbenzene	1100	250	"	"	"	"	"	"	
Xylenes (total)	2100	250	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1200	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		100 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	80-120	"	"	"	"	"	





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

Project: BPS City Blue
Project Number: 4097041918.01
Project Manager: David Nanstad

MOI0382
Reported:
09/28/05 11:27

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
05364097-1 (MOI0382-04) Water Sampled: 09/09/05 09:30 Received: 09/10/05 08:30									
Gasoline Range Organics (C4-C12)	7100	2500	ug/l	50	5121027	09/21/05	09/21/05	EPA 8015B/8021B	
Benzene	840	25	"	"	"	"	"	"	
Toluene	950	25	"	"	"	"	"	"	
Ethylbenzene	120	25	"	"	"	"	"	"	
Xylenes (total)	410	25	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	120	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	80-120		"	"	"	"	
05364097-5 (MOI0382-05) Water Sampled: 09/09/05 10:00 Received: 09/10/05 08:30									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	5121027	09/21/05	09/22/05	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		105 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	80-120		"	"	"	"	





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MOI0382
Reported:
09/28/05 11:27

**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
05364097-3 (MOI0382-03) Water Sampled: 09/09/05 10:15 Received: 09/10/05 08:30									
1,2-Dichloroethane	300	100	ug/l	200	5122002	09/22/05	09/22/05	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>114 %</i>	<i>60-135</i>		"	"	"	"	
05364097-1 (MOI0382-04) Water Sampled: 09/09/05 09:30 Received: 09/10/05 08:30									
1,2-Dichloroethane	290	10	ug/l	20	5122002	09/22/05	09/22/05	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>128 %</i>	<i>60-135</i>		"	"	"	"	





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Project: BPS City Blue
Project Number: 4097041918.01
Project Manager: David Nanstad

MOI0382
Reported:
09/28/05 11:27

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

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

Batch 5I21027 - EPA 5030B [P/T] / EPA 8015B/8021B

Blank (5I21027-BLK1)

Prepared & Analyzed: 09/21/05

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	41.2		"	40.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	44.4		"	40.0		111	80-120			

Laboratory Control Sample (5I21027-BS1)

Prepared & Analyzed: 09/21/05

Gasoline Range Organics (C4-C12)	271	50	ug/l	275		99	55-130			
Benzene	3.66	0.50	"	4.10		89	75-150			
Toluene	20.6	0.50	"	20.7		100	80-115			
Ethylbenzene	4.08	0.50	"	4.85		84	75-115			
Xylenes (total)	22.8	0.50	"	23.8		96	75-115			
Surrogate: a,a,a-Trifluorotoluene	40.8		"	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	46.5		"	40.0		116	80-120			

Matrix Spike (5I21027-MS1)

Source: MOI0499-01

Prepared & Analyzed: 09/21/05

Gasoline Range Organics (C4-C12)	236	50	ug/l	275	ND	86	55-130			
Benzene	3.25	0.50	"	4.10	ND	79	75-150			
Toluene	19.6	0.50	"	20.7	ND	95	80-115			
Ethylbenzene	3.89	0.50	"	4.85	ND	80	75-115			
Xylenes (total)	22.0	0.50	"	23.8	ND	92	75-115			
Surrogate: a,a,a-Trifluorotoluene	42.3		"	40.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	45.5		"	40.0		114	80-120			

Matrix Spike Dup (5I21027-MSD1)

Source: MOI0499-01

Prepared & Analyzed: 09/21/05

Gasoline Range Organics (C4-C12)	223	50	ug/l	275	ND	81	55-130	6	35	
Benzene	3.13	0.50	"	4.10	ND	76	75-150	4	25	
Toluene	16.9	0.50	"	20.7	ND	82	80-115	15	25	
Ethylbenzene	3.32	0.50	"	4.85	ND	68	75-115	16	25	QM02
Xylenes (total)	19.0	0.50	"	23.8	ND	80	75-115	15	25	
Surrogate: a,a,a-Trifluorotoluene	39.2		"	40.0		98	80-120			
Surrogate: 4-Bromofluorobenzene	46.8		"	40.0		117	80-120			

Sequoia Analytical - Morgan Hill

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.





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5341 Old Redwood Highway, Suite 300
Petaluma CA, 94954

Project: BPS City Blue
Project Number: 4097041918.01
Project Manager: David Nanstad

MOI0382
Reported:
09/28/05 11:27

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5I22002 - EPA 5030B P/T / EPA 8260B										
Blank (5I22002-BLK1) Prepared & Analyzed: 09/22/05										
1,2-Dichloroethane	ND	0.50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	5.13		"	5.00		103	60-135			
Blank (5I22002-BLK2) Prepared & Analyzed: 09/22/05										
1,2-Dichloroethane	ND	0.50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	5.71		"	5.00		114	60-135			
Laboratory Control Sample (5I22002-BS1) Prepared & Analyzed: 09/22/05										
1,2-Dichloroethane	16.0	0.50	ug/l	14.7		109	85-130			
Surrogate: 1,2-Dichloroethane-d4	5.25		"	5.00		105	60-135			
Laboratory Control Sample (5I22002-BS2) Prepared & Analyzed: 09/22/05										
1,2-Dichloroethane	17.2	0.50	ug/l	14.7		117	85-130			
Surrogate: 1,2-Dichloroethane-d4	5.50		"	5.00		110	60-135			
Matrix Spike (5I22002-MS1) Source: MOI0432-18 Prepared & Analyzed: 09/22/05										
1,2-Dichloroethane	95.6	2.5	ug/l	73.6	1.0	129	85-130			
Surrogate: 1,2-Dichloroethane-d4	5.62		"	5.00		112	60-135			
Matrix Spike Dup (5I22002-MSD1) Source: MOI0432-18 Prepared & Analyzed: 09/22/05										
1,2-Dichloroethane	88.1	2.5	ug/l	73.6	1.0	118	85-130	8	20	
Surrogate: 1,2-Dichloroethane-d4	5.60		"	5.00		112	60-135			





MACTEC Engineering & Consulting [Petaluma]
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Petaluma CA, 94954

Project: BPS City Blue
Project Number: 4097041918.01
Project Manager: David Nanstad

MOI0382
Reported:
09/28/05 11:27

Notes and Definitions

- QM02 The spike recovery was below control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



CHAIN OF CUSTODY FORM

Seq. No.: No 1121

Samplers: C. Simpson (CCS)

Lab: Sag.

Job Number: 4097041918.01

Name/Location: APS City Blue

Project Manager: D. Nanstad

Recorder: CHJ MOF0382
(Signature Required)

MATRIX			# CONTAINERS & PRESERV.				SAMPLE NUMBER				DATE			
Water	Soil	Air	Unpres.	H2SO4	HNO3	HCL	YR	SEQ	YR	MO	DAY	TIME		
X						3	05	364097-4	05	09	09	0806		
X						3	05	364097-2	05	09	09	0845		
X						5	05	364097-3	05	09	09	1015		
X						5	05	364097-1	05	09	09	0930		
X						3	05	364097-5	05	09	09	1000		

STATION DESCRIPTION		DEPTH
MW-6		01
MW-3		02
MW-5		03
MW-1		04
TB		05

				ANALYSIS REQUESTED																			
TPH-1	8015	BTX	8030	MTBE	8020	* Ethylene Dichloride																	
X	X	X	X	X	X																		
X	X	X	X	X	X																		
X	X	X	X	X	X																		
X	X	X	X	X	X																		
X	X	X	X	X	X																		

ADDITIONAL INFORMATION													
SAMPLE NUMBER								TURNAROUND TIME/ REMARKS					
YR	SEQ												
								Standard TAT					
								* MTBE Confirmed using EPA 8260					

CHAIN OF CUSTODY RECORD			
Relinquished By (Signature)	Chad Simpson	MacTec	9/19/05/1400
Received By (Signature)	Paul Heermann	SAIL Heermann	8/19/05
Relinquished By (Signature)	E. Fallin	SA	9/19/05 830
Received By (Signature)			
Relinquished By (Signature)			
Received By (Signature)			
Method of Shipment:			

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Mactec
 REC. BY (PRINT) E. Fallin
 WORKORDER: 1201.0382

DATE REC'D AT LAB: 9/10/05
 TIME REC'D AT LAB: 830
 DATE LOGGED IN: 9-13-08

For Regulatory Purposes?
 DRINKING WATER YES/NO NO
 WASTE WATER YES/NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="checkbox"/> Absent Intact / Broken*	01	A-C	05364097-4	Voa(3)	HCL	-	L	9-9-05	
2. Chain-of-Custody Present / <input checked="" type="checkbox"/> Absent*	02	L	-2	↓	↓	↓	↓	↓	
3. Traffic Reports or Packing List: Present / <input checked="" type="checkbox"/> Absent	03	A-C	-3	Voa(5)	↓	↓	↓	↓	
4. Airbill: <input checked="" type="checkbox"/> Airbill / Sticker Present / Absent	04	L	-1	↓	↓	↓	↓	↓	
5. Airbill #: <u>CON 01001006672 009</u>	05	A-C	-5	Voa(3)	↓	↓	↓	↓	
6. Sample Labels: Present / Absent									
7. Sample IDs: Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*									
10. Sample received within hold time? Yes / No*									
11. Adequate sample volume received? Yes / No*									
12. Proper preservatives used? Yes / No*									
13. <input checked="" type="checkbox"/> Trip Blank / <input checked="" type="checkbox"/> Terra Blank Received? (circle which, if yes) Yes / No*									
14. Read Temp: <u>5.1°C</u> Corrected Temp: <u>5.1°C</u> Is corrected temp 4 +/-2°C? Yes / No**									
(Acceptance range for samples requiring thermal pres.) **Exception (if any): METALS / DFF ON/OE or Problem COC									

HSP 9/10/05

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

APPENDIX B

GROUNDWATER SAMPLING FORM

Project: BPS - City Blue Job No.: 4097041918-01
 Subject: FIELD INVESTIGATION DAILY REPORT Date: 9/9/05
 Equipment Rental: N/A Company: Mactec To: D. VanStad
 Equipment Hours: N/A F.E. Time from: _____ to: _____ By: C Simpson

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

0530 Depart Suisun City, Ca For Oakland Ca
 0700 Arrive BPS City Blue
 0710 Calibrate meters.
 DO USE SS SN# 0100873 to elevation 0
 pH, Cond, Temp USE GB SN# 00M0186 at 7:00/4.00 station
 Turbidity SN# 920506601210
 0-10 = 5.00 10-100 = 50.8 100-1000 = 555

0730 MW-6 WL = 22.55 DO = 1.09 Redox = 98
 no tubing in well casing will use Bacter to purge/sample.
 added rubber expansion plug to PVC

0800 Sampled MW-6
 # 05364097-4 3 vials w/ HCL

0815 MW-3 WL = 22.63 DO = .55 Redox = -51.8
 Tubing washed and broken - used Disposable Bacter

0845 Sampled MW-3
 # 05364097-2 3 vials w/ HCL

0910 MW-1 WL = 23.27 DO = .59 Redox = -29.7

0930 Sampled MW-1
 # 05364097-1 5 vials

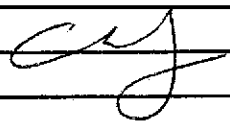
0940 MW-1A WL = 21.73

0950 MW-5 WL = 21.68 DO = .67 Redox = -152.1

1000 Staff micro purge

1015 Sampled MW-5
 # 05364097-3 5 vials

1400 Sequoia dropped off Sampler - for following

Attachments: 

Initial

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	9/9/05	0910	23.27	23.27	Y	N	OK	OK	4"	Remaind tubing - old - need new
MW-3	9/9/05	0815	22.63	22.63	Y	N	OK	OK	4"	Remaind Tubing - Broken (cracked)
MW-5	9/9/05	1000	21.68	21.68	Y	N	OK	OK	2"	
MW-6	9/9/05	0730	22.55	22.55	N	N	OK	OK	2"	added 2" rubber expansion plug
MW-1A	9/9/05	0940	21.73	21.73	Y	N	OK	OK	4"	Diske in well.
MW-4	not able									to locate / Boxes in the wall

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

pH: 00M0186
SN # 0100873

Temperature: " 11

Specific Conductance: " 11

Dissolved Oxygen: 0100873

Turbidity: 920500001210



GROUNDWATER SAMPLING FORM

Job Name: City Blue
 Job Number: 4097041918
 Recorded By: *CHJ* (Signature)

Well Number: MW-3
 Well Type: Monitor Extraction Other
 PVC St. Steel Other
 Date: 9/9/05
 Sampled By: CCS (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): 22.63
 No. of Well Volumes to be purged (# V): 3

PURGE METHOD

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

PURGE VOLUME CALCULATION

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

PUMP INTAKE SETTING

Near Bottom Near Top
 Other _____
 Depth in feet (BTOC): _____
 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	5.99	97	20.7	19.2
1hr	6.13	102.6	21.3	28.6
Meter S/N				

PURGE TIME

Purge Start: 0830
 Purge Stop: 0845
 Elapsed: 05

PURGE RATE

GPM: -
 GPM: -

PURGE VOLUME

Volume: 1hr gallons
 D.O. 55 Redox -51.8

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

Tubing Bent and cracked - hand bailed w/ Disposable Bailor.

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

WELL SAMPLING

Bailor - Type: Grab Disposable Bailor Sample Time: 0845

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
<u>05-364097-2</u>	<u>3 VOA's</u>	<u>T.P.H gas (8015 Modified)</u> <u>BTEX (8020)</u> <u>MTBE (8020)</u>	<u>HCL</u>	<u>Sequoia</u>	

QUALITY CONTROL SAMPLES

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



GROUNDWATER SAMPLING FORM

Job Name: City Blue
 Job Number: 4097041918
 Recorded By: [Signature]
(signature)

Well Number: MW-5
 Well Type: Monitor Extraction Other
 PVC St. Steel Other
 Date: 9/9/05
 Sampled By: CCS
(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): 21.68
 No. of Well Volumes to be purged (# V): 3

PURGE METHOD

Bailer - Type: P.V.C.
 Submersible - Type: _____
 Other - Type: Micro Purge

PURGE VOLUME CALCULATION

$(\text{TL (feet)} - \text{WL (feet)}) \times D (\text{inches}) \times 3 \times 0.0408 = \text{Calculated Purge Volume (gals)}$

PUMP INTAKE SETTING

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

Field Parameter Measurement

Minutes	pH	Conductivity (µS)	<input checked="" type="checkbox"/> °C	Turbidity (NTU)
			Temp. <input type="checkbox"/> °F	
Initial	<u>5.98</u>	<u>821</u>	<u>20.9</u>	<u>6.78</u>
<u>1ct</u>	<u>4.14</u>	<u>817</u>	<u>21.0</u>	<u>8.0</u>
Meter S/N				

PURGE TIME

Purge Start: 1000
 Purge Stop: 1010
 Elapsed: 10

PURGE RATE

GPM: _____
 GPM: _____

PURGE VOLUME

Volume: 1ct gallons
 D.O. .67 Redox -152.1
 Observations During Purging (Well Condition, Color, Odor):
5:54 odor - yellowish tint

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

WELL SAMPLING

Bailer - Type: Grab Sample Time: 1015

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
<u>05364097-3</u>	<u>6 VOA's</u>	<u>T.P.H gas (8015 Modified)</u>	<u>HCL</u>	<u>Sequoia</u>	
		<u>BTEX (8020)</u>			
		<u>MTBE (8020)</u>			
		<u>Ethylene Dichloride</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: 4097041918
 Recorded By: *CWJ*
 (Signature)

Well Number: MW-1
 Well Type: Monitor Extraction Other
 PVC St. Steel Other
 Date: 9/9/05
 Sampled By: CCS
 (initials)
 Reviewed by _____

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): 23.27
 No. of Well Volumes to be purged (# V): 3

PURGE METHOD
 Bailer - Type: P.V.C.
 Submersible - Type: _____
 Other - Type: _____

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

PUMP INTAKE SETTING
 Near Bottom Near Top
 Other _____
 Depth in feet (BTOC): _____
 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	6.27	810	21.2	24.7
1ct	6.47	852	21.6	13.6
Meter S/N				

PURGE TIME **PURGE RATE**
 Purge Start: 0920 GPM: _____
 Purge Stop: 0925 GPM: _____
 Elapsed: 05
PURGE VOLUME
 Volume: 127 gallons
 D.O. .59 Redox -29.7
 Observations During Purging (Well Condition, Color, Odor):
Slight odor - yellow tint
 Discharge Water Disposal: Sanitary Sewer
 Storm Sewer Other 55 Gal. drum on site

WELL SAMPLING

Bailer - Type: Grab Bailer Sample Time: 0930

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
<u>05364097-1</u>	<u>6 VOA's</u>	<u>T.P.H gas (8015 Modified)</u> <u>BTEX (8020)</u> <u>MTBE (8020)</u> <u>Ethylene Dichloride</u>	<u>HCL</u>	<u>Sequoia</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: 4097041918
Recorded By: [Signature]

Well Number: MW-6
Well Type: Monitor, PVC
Date: 09/09/05
Sampled By: CCS

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): 22.55
No. of Well Volumes to be purged (# V): 3

PURGE METHOD

Bailer Type: P.V.C. Bailer
Submersible Type:
Other Type: Micro Purge

PURGE VOLUME CALCULATION

TD (feet) x WL (feet) x D (inches) x 0.0408 = Calculated Purge Volume

PUMP INTAKE SETTING

Near Bottom, Near Top, Other
Depth in feet (BTOC):
Screen Interval in feet (BTOC): from to

Field Parameter Measurement

Table with columns: Minutes, pH, Conductivity (uS), Temp. (C/F), Turbidity (NTU). Includes handwritten data for Initial and 1st readings.

PURGE TIME and PURGE RATE

Purge Start: 0745, Purge Stop: 0750, Elapsed: 05, GPM: -

PURGE VOLUME

Volume: 1.47 gallons, D.O. 1.09, Redox 98. Observations During Purging: Dedicated tubing used, added rubber plug to PVC. Discharge Water Disposal: Sanitary Sewer.

WELL SAMPLING

Bailer Type: Grab - Bailer, Sample Time: 0800

Table with columns: Sample No., Volume/Cont., Analysis Requested, Preservatives, Lab, Comments. Includes handwritten sample number 05364097-4 and analysis details.

QUALITY CONTROL SAMPLES

Table for Duplicate Samples with columns: Original Sample No., Dupl. Sample No.

Table for Blank Samples with columns: Type, Sample No.

Table for Other Samples with columns: Type, Sample No.