Prepared for: Superfund Standby Program Albany, NY 60133923 Prepared by: AECOM Latham, NY

September 30, 2011

DRAFT

Annual Groundwater Sampling Report

Bedford Village Wells Hunting Ridge Mall Site 360009

Contents

1.0	Introd	duction	1-1
	1.1	Background	1-1
2.0	Groui	ndwater Sampling	2-1
	2.1	Methodology	2-1
3.0	Resu	lts	3-1
	3.1	Well Conditions	3-1
	3.2	Groundwater Elevation and Flow	3-1
	3.3	Volatile Organic Compounds	3-1
	3.4	Metals	3-3
	3.5	Field Parameters	3-3
4.0	Conc	lusions and Recommendations	4-1
	4.1	Remedial Action Performance	4-1
	4.2	Recommendations	4-1

AECOM Environment ji

List of Tables

Table 1 Summary of VOC Analysis

Table 2 Summary of Field Parameters and Metals Analysis

List of Figures

Figure 1	Site Location
Figure 2	Site Layout
Figure 3	Groundwater Elevation Map (June 2011)
Figure 4	Chlorinated Volatile Organic Compounds Plume Map (June 2011)
Figure 5	MW-3M Chlorinated Volatile Organic Compounds Trend Chart
Figure 6	MW-14 Chlorinated Volatile Organic Compounds Trend Chart
Figure 7	MW-16 Chlorinated Volatile Organic Compounds Trend Chart

List of Appendices

Appendix A Field Sampling Forms

AECOM Environment 1-1

1.0 Introduction

At the request of the New York State Department of Environmental Conservation (NYSDEC), AECOM Technical Services, Northeast, Inc. (AECOM) has prepared this Annual Groundwater Sampling Report for the Bedford Village Wells – Hunting Ridge Mall Inactive Hazardous Waste Disposal Site #3-60-009 (the "Site") located in the Town of Bedford, Westchester County, NY (**Figure 1**).

1.1 Background

The Site was investigated in 1978 as part of a county wide investigation of potable water supplies. It was discovered that a dry cleaner formerly located at the site was the source of chlorinated solvents in groundwater. In-situ chemical oxidation (ISCO) injection was selected as the remedy for groundwater at the Site in the NYSDEC Record of Decision (ROD), 1990.

A Preliminary Design Report, prepared by AECOM and submitted to the NYSDEC in February 2009, concluded that the information was insufficient to design a cost-effective mitigation program for the Site. AECOM conducted a Supplemental Site Investigation (SSI) in September 2009 to evaluate the distribution of contamination in soil and groundwater, to design a cost-effective mitigation program for the Site. The SSI Report was submitted to the NYSDEC in December 2009.

A Remedial Design Report was submitted to the NYSDEC in February 2010. The design included the installation of an additional monitoring well (MW-16), the injection of a 5-percent solution of sodium permanganate into the contaminated groundwater in the area extending from GP-6 to MW-3M (Figure 2), and pre and post injection groundwater sampling.

A Remedial Action Progress Report was submitted to the NYSDEC in November 2010. This report documented the ISCO injection conducted in August and September 2010 and the associated well installation and baseline groundwater sampling

This Annual Groundwater Sampling Report presents a discussion of the post ISCO injection groundwater sampling events.

AECOM Environment 2-1

2.0 Groundwater Sampling

There have been four groundwater sampling events conducted over the past year to monitor the effectiveness of the sodium permanganate injections conducted in August and September of 2010. Baseline groundwater samples were collected in August 2010 prior to the permanganate injection. Remedial action performance groundwater monitoring was conducted on October 25, 2010, January 6, 2011, March 31, 20011, and June 28, 2011. These monitoring events included the collection of groundwater samples from eight monitoring wells; MW-3M, MW-5M, MW-6M, MW-6S, MW-12, MW-14, MW-15 and MW-16. All groundwater samples were submitted to Adirondack Environmental Services, Inc. (Adirondack) in Albany, New York, for analysis. The groundwater samples were analyzed for volatile organic compounds (VOCs). Groundwater samples collected in June 2011 were analyzed for total and dissolved metals. The monitoring well locations are shown on **Figure 2**.

2.1 Methodology

VOC samples were collected using passive diffusion bags (PDBs). Depth to water measurements were collected using an interface probe prior to retrieving the bags for sampling. The interface probe was decontaminated with a liquinox bath and rinsed with distilled water between each use. The PDBs were then retrieved and the samples were collected. Prior to setting a new PDB a water quality meter, such as a down-well YSI or a Horiba U-22 was used to collect field parameters. The water quality meters were calibrated prior to sampling commenced each day and were decontaminated as necessary. Turbidity, dissolved oxygen (DO), oxidation reduction potential (ORP), conductivity, ph, temperature, color and odor of the groundwater were recorded in the project field book for routine events and on purging/sampling logs for the annual event.

For metals sampling during the June 28, 2011 sampling event three well volumes were purged using a dedicated bailer before collecting both filtered and unfiltered metals samples. Water level measurements, field parameters, and notes were recorded in a project dedicated field-book. Purge logs were completed for the June 2011 sampling event. The field notes and purge logs are attached as **Appendix A**.

All groundwater samples were collected in bottles provided by the laboratory. The VOC samples were analyzed for VOCs by EPA Method 8260. Metals analysis conducted on the groundwater samples collected in June 2011 were analyzed by EPA Methods 200.7 (TAL Metals), 245.1 (Mercury).

AECOM Environment 3-1

3.0 Results

3.1 Well Conditions

In general the monitoring wells at the site are in good condition; however several deficiencies or damages to the well network were noted during the sampling events including:

- Monitoring well MW-3M appears to have a broken joint or pinch in the casing at about 20-feet
 (ft) below ground surface. This brake in the casing has likely caused silting of the well and
 makes it difficult to sample. AECOM was unable to get a bailer or the water quality meter
 beyond the joint. A 0.75-inch passive diffusion bag was used to sample VOCs in this well due
 to the constriction. It is recommended that this well be abandoned and a new well drilled in
 place.
- Monitoring well MW-5M is pinched at the top of the PVC casing below the top of the steel
 protective casing. The PVC casing was cracked to allow sampling with a PDB and bailer. The
 PVC should be repaired by cutting the steel casing to allow access to the PVC to cut away
 the damaged section. The top of casing elevation should be surveyed following the repair.
- Monitoring well MW-16 has not been surveyed for location or casing elevation. The well should be surveyed in conjunction with repaired/replaced wells.
- Well caps were missing on many of the monitoring wells. Locking caps have been placed on all the wells used for monitoring. We recommend inspecting the other site wells for the lack of a locking cap and replacement as necessary.

3.2 Groundwater Elevation and Flow

Groundwater elevation data was collected during several sampling events. The results were constant with previous events demonstrating that there is a relatively flat groundwater gradient toward the east. The hydraulic gradient at the Site is approximately 0.007 ft/ft. There is little effect on groundwater seasonally at the Site with a slight increase in elevation in the spring and summer. In general groundwater is approximately 15 feet below ground surface at the site. A groundwater isoelevation is included as **Figure 3**. Groundwater elevation data from the well cluster MW-6M screened in the subsurface soil and MW-6D screened in the bedrock suggests that there is an upward gradient from the bedrock to the overly aquifer. This upward gradient may prevent the contaminants from migrating into the bedrock.

3.3 Volatile Organic Compounds

Chlorinated VOCs (CVOCs) possibly related to historical operations at the Site were consistently detected above NYSDEC Ambient Water Quality Standards (AWQS) in monitoring wells MW-3M, and MW-16. The samples collected from MW-14 contained CVOCs above AWQS in all but one quarter. These wells are all located in the Hunting Ridge Mall parking lot east of the site building. CVOCs were not detected in any of the samples from monitoring well MW-15 also located in the parking lot adjacent to the northeast of the site building.

AECOM Environment 3-2

CVOCs were not detected in the samples from the monitoring wells east of the Site on the Old Post Holdings, LLC property. The dissolved phase VOC results are presented on **Table 1**. The assumed extent of the total CVOC plume as of the most recent sampling event (June 2011) is depicted in **Figure 4**. A summary of the results are presented below.

The highest concentration of total CVOCs were consistently detected in the samples from MW-3M is monitoring well MW-3M located along the north side of Old Post Road. During each sampling event a number of VOCs were detected above AWQSs, including cis-1,2-dichloroethene (CIS), tetrachloroethene (PCE) and trichloroethene (TCE), all of which have a 5 μ g/L standard. Concentrations of cis-1,2-dichloroethene increased then decreased slightly over the last year. During the June 28, 2011 sampling event it was detected at 41 μ g/L. Both PCE and TCE have consistently been above their AWQS. While PCE has shown a decreasing trend, TCE has shown a slightly increasing trend. During the June 28, 2011 sampling event, PCE was detected at 89 μ g/L and TCE at 19 μ g/L. Although acetone has been detected above MDLs randomly over the last year, concentrations have always been below the standard of 50 μ g/L. Chloromethane and methylene chloride were each detected above MDLs only once over the last year, during the January 6, 2011 sampling event. The CVOC trends for well MW-3M are shown on **Figure 5**.

Monitoring well MW-14 is located adjacent to the sidewalk along the south-east side of the on-site building. No constituents were detected above MDLs in MW-14 during the October 25, 2010 sampling event. Acetone was detected in the following three sampling events, but always below its AWQS of 50 μ g/L. Cis-1,2-dichloroethene and PCE were detected during the last three sampling events above the 5 μ g/L AWQS for both, increasing and then decreasing to be 12 μ g/L and 23 μ g/L, respectively, during the June 28, 2011 sampling event. TCE was detected during the March and June 2011 sampling events above the 5 μ g/L AWQS, although only slightly with a 5.3 μ g/L concentration during the June 2011 sampling event. The CVOC trends for well MW-14 are shown on **Figure 6**.

Located adjacent to the sidewalk at the eastern corner of the on-site building is MW-15. There were no detections above MDLs during the October 2010 and January 2011 sampling events at MW-15. Acetone was the only constituent detected above MDLs during the March and June 2011 sampling events. The concentrations during both events were below the AWQS of 50 μ g/L. The CVOC trends for monitoring well MW-15 are presented on **Figure 7**.

Monitoring well MW-16 is located in the median of the main entranceway to the on-site building, to the southeast of MW-14. This well was installed in August 2011 just prior to the start of the permanganate injection. Acetone was detected during the 2011 sampling events but below the 50 μ g/L AWQS each time. Cis-1,2-dichloroethene was detected above the AWQS of 5 μ g/L during all sampling events, but only slightly over, with a 7.2 μ g/L concentration during the June 2011 event. PCE was also detected above the 5 μ g/L AWQS during all events, going up in concentration then back down, with a 12 μ g/L concentration during the June 2011 sampling event. TCE was not detected in this well above the MDL of 5 μ g/L during any event.

Monitoring wells MW-5M, MW-6M and MW-12, all located in the wooded area to the southeast of Old Post Road, have all had similar results throughout the sampling events. There were no detections above MDLs during the October 25, 2010 sampling event in each of these wells, and just one detection in each of the following events. Methylene chloride was detected above MDLs in each well during the January 6, 2011 sampling event and acetone in each during the March and June 2011 sampling events. There have never been detections above AWQSs in any of these wells.

AECOM Environment 3-3

Also located in the wooded area to the southeast of Old Post Road is MW-6S. No constituents were detected above MDLs in MW-6S during the October 25, 2010 and March 31, 2011 sampling events. Only methylene chloride was detected above MDLs during the January 6, 2011 sampling event and only acetone during the June 28, 2011 sampling event.

The VOCs acetone and methylene chloride were detected in many of the groundwater samples below the NYSDEC AWQS. The constituents are common laboratory contaminants and are not considered to be constituents of concern for the Site.

3.4 Metals

The results of the metals analysis are presented in **Table 2**. Metals analysis was conducted during the baseline sampling event in the June 2011 samples. The results show that the injection of sodium permanganate did not affect metals concentrations in groundwater. Results of the baseline groundwater sampling were similar to the post injection results. Antimony, arsenic, beryllium, cadmium, selenium, silver, thallium and mercury were not detected above method detection limits in any of the monitoring wells. Aluminum, barium, calcium, cobalt, copper, lead, nickel, potassium, vanadium and zinc were all detected above MDLs, but were all below their respective standards/guideline values.

Six of the eight wells sampled during the June 2011 sampling event had at least one metal concentration over the AWQS. Chromium, iron and sodium make up a majority of the exceedances. The outliers include manganese above the AWQS in MW-14, 15 and 16 and magnesium above the AWQS in MW-15.

3.5 Field Parameters

Field parameters (turbidity, dissolved oxygen (DO), oxidation reduction potential (ORP), conductivity, ph, temperature, color and odor) were taken at each monitoring well whenever a sample was collected. The primary indicators for the effectiveness and presence of sodium permanganate are ORP and color. Ideally following the injection of an oxidizer the ORP in the well will rise indicating that there is oxidizer and the injected strength in the aquifer. A purple color in the well would indicate that the permanganate has reached the well and is present in the aquifer. Neither elevated ORP nor purple color was detected in the monitoring wells during the post injection sampling events. These results indicate that the oxidation potential of the sodium permanganate was quickly spent on natural soil oxidant demand. This result is often observed during primary injections of oxidants. In all of the onsite wells (MWs 3M, 14, 15, and 16) ORP dropped one month after the injection (October 2010) as compared to the baseline ORP results (August 2010).

AECOM Environment 4-1

4.0 Conclusions and Recommendations

4.1 Remedial Action Performance

The groundwater and field parameter results suggest that that a majority of the permanganate injected in 2010 was spent on oxidizing naturally occurring metals and organics in the subsurface. This is the result typically observed following an initial injection. A drop in VOCs to non-detect was noted in the groundwater sample from MW-14 (10/2010) shortly after the injection total VOC concentrations rebounded in subsequent samples. The fact that ORP did not increase in the monitoring wells and that permanganate was not observed in the wells indicates that a tighter spacing of injection points may be required. A higher concentration of sodium permanganate may be required to overcome the natural oxidant demand.

The results indicate that CVOCs are still present in the aquifer below the site at levels above NYSDEC AGWQS. The data indicates that the plume is stable and is no longer migrating downgradient. The concentrations in the plume are stable and are to a degree degrading naturally. However, the data shows that the natural degradation is stalled in many cases at the CIS and TCE stage likely due to high DO levels (aerobic) in the aquifer as CVOCs are more readily degraded under anaerobic conditions. It is unlikely that the plume will degrade naturally under the current conditions.

The groundwater results from monitoring wells on Old Post Holdings property suggest that the injection activities did not mobilize contaminants or metals downgradient of the Site.

4.2 Recommendations

A second injection of sodium permanganate is recommended for the Site. Additional characterization of the aquifer properties is recommended prior to the implementation of additional injections at the Site. AECOM recommends the installation of three soil borings near the impacted wells for the collection of soil samples for the analysis of chemical oxidant demand and soil oxidant demand. Up to three undisturbed samples should be collected with Shelby tubes for the analysis of geotechnical parameters. The combination of the natural oxidant demand data and geotechnical parameters will be used to fine tune the permanganate concentration and injection spacing for the next injection.

As noted in Section 3.1 the following actions are recommended for the monitoring wells at the Site.

- Abandonment and replacement of monitoring well MW-3M is recommended. The
 replacement well should be installed with a flush mount finish to avoid damage by grass
 mowing and snow removal activities.
- The PVC casing on MW-5M should be repaired to allow for future monitoring at this location.
- Once the replacement of MW-3M and the repair of MW-5M are completed a round of surveying should be conducted including these wells and MW-16 which has not been surveyed.

AECOM Environment

Tables

Table 1

LABORATORY RESULTS

VOCS-DETECTED COMPOUNDS BEDFORD VILLAGE WELLS

HUNTING RIDGE MALL

Site 360009

Sample ID	GW Std.				MW-3M				MW-3S		MW	-5M		MW-5S	MW-6D
Sample Date	G۷	9/16/09	10/25/10	10/25/10	1/6/11	1/6/11	3/31/11	6/28/11	8/20/10	10/25/10	1/6/11	3/31/11	6/28/11	8/20/10	8/20/10
VOCs ug/l				Duplicate		Duplicate									
Acetone	50	14	<10	<10	15.3	47.6	<10	11	<10	<10	<10	13	20	<10	<10
cis-1,2-Dichloroethene	5	19	26	26	48.1	44.5	40	41	<5	< 5	<5	<5	<5	<5	<5
Methyl tert-butyl ether	10	<5	< 5	< 5	<5	<5	<5	<5	<5	< 5	<5	<5	<5	<5	13
Methylene chloride	5	<5	< 5	< 5	<5	8.6	<5	<5	<5	< 5	9.2	<5	<5	<5	<5
Tetrachloroethene	5	120	120	120	96.3	90.7	93	89	<5	< 5	<5	<5	<5	<5	<5
Trichloroethene	5	15	14	14	17.7	16.3	21	19	<5	< 5	<5	<5	<5	<5	<5

Sample ID	GW Std.			MV	V-6M								MW-12				
Sample Date	G۷	8/20/10	10/25/10	1/6/11	3/31/11	6/28/11	6/28/11	8/20/10	10/25/10	1/6/11	3/31/11	6/28/11	8/20/10	10/25/10	1/6/11	3/31/11	6/28/11
VOCs ug/l							Duplicate										
Acetone	50	<10	<10	<10	31	24	26	<10	<10	<10	<10	16	<10	<10	<10	28	19
cis-1,2-Dichloroethene	5	<5	< 5	<5	<5	<5	<5	<5	< 5	<5	<5	<5	<5	< 5	<5	<5	<5
Methyl tert-butyl ether	10	<5	< 5	<5	<5	<5	<5	<5	< 5	<5	<5	<5	<5	< 5	<5	<5	<5
Methylene chloride	5	<5	< 5	8.5	<5	<5	<5	<5	< 5	9.0	<5	<5	<5	< 5	9.5	<5	<5
Tetrachloroethene	5	<5	< 5	<5	<5	<5	<5	<5	< 5	<5	<5	<5	<5	< 5	<5	<5	<5
Trichloroethene	5	<5	< 5	<5	<5	<5	<5	<5	< 5	<5	<5	<5	<5	< 5	<5	<5	<5

Sample ID	GW Std.		MW-14 MW-15										MW-16							
Sample Date	GV	9/16/09	9/16/09	8/19/10	10/25/10	1/6/11	3/31/11	3/31/11	6/28/11	9/16/09	8/19/10	10/25/10	1/6/11	3/31/11	6/28/11	8/19/10	10/25/10	1/6/11	3/31/11	6/28/11
VOCs ug/l			Duplicate					Duplicate												
Acetone	50	12	<10	<10	<10	11.8	13	13	19	14	<10	<10	<10	14	18	<10	<10	14	19	16
cis-1,2-Dichloroethene	5	<5	<5	<5	< 5	15	22	23	12	<5	<5	< 5	<5	<5	<5	10	10	6.4	6.1	7.2
Methyl tert-butyl ether	10	<5	<5	<5	< 5	<5	<5	<5	<5	<5	<5	< 5	<5	<5	<5	<5	< 5	<5	<5	<5
Methylene chloride	5	<5	<5	<5	< 5	<5	<5	<5	<5	<5	<5	< 5	<5	<5	<5	<5	< 5	<5	<5	<5
Tetrachloroethene	5	7.1	5.8	8.2	< 5	6.4	45	46	23	<5	<5	< 5	<5	<5	<5	40	9.6	20.7	19	12
Trichloroethene	5	<5	<5	<5	< 5	<5	11	11	5.3	<5	<5	< 5	<5	<5	<5	<5	< 5	< 5	<5	<5

- NOTES:

 1. GW Std: NYS Ambient Water Quality Standards and Guidance Values (TOGS 1.1.1, June 1998 with April 2000 and June 2004 Addendums) for groundwater (GA).

 2. GV designates a Guidance Value.

 3. Bold font designates detected result.

 4. Shaded cells indicate detections above the standard or guidance value.

Table 2

Laboratory Results- METALS GROUNDWATER SAMPLING RESULTS BEDFORD VILLAGE WELLS

HUNTING RIDGE MALL Site 360009

Sample ID	GW Std.	MW	/-3M	MW-3S	MW-5M	MW-5S	MW-6D	MW	-6M	MW	-65	MW	V-12		MW-14			MW-15		MW	V-16
Sample Date	GV Gtu.	9/16/09	6/28/11	8/20/10	6/28/11		8/20/10	8/20/10	6/28/11	8/20/10	6/28/11	8/20/10	6/28/11	9/16/09	8/19/10	6/28/11	9/16/09	8/19/10	6/28/11	8/19/10	6/28/11
Metals mg/l	- GV	3/10/03	0/20/11	0/20/10	0/20/11	0/20/10	0/20/10	0/20/10	0/20/11	0/20/10	0/20/11	0/20/10	0/20/11	3/10/03	0/19/10	0/20/11	3/10/03	0/19/10	0/20/11	0/19/10	0/20/11
Aluminum	NS	< 0.100	<0.1	<0.1	0.545	<0.1	<0.1	<0.1	<0.1	<0.1	0.398	<0.1	<0.1	0.178	1.85	<0.1	0.155	<0.1	73.7	0.293	3.82
Antimony	3	< 0.060	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	< 0.060	<0.06	<0.06	< 0.060	<0.06	<0.06	<0.06	<0.06
Arsenic	25	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium	1	0.123	0.099	0.292	0.125	0.049	0.022	0.116	0.139	0.105	0.101	0.089	0.098	0.157	0.29	0.1	0.252	0.283	0.933	0.165	0.125
Beryllium	3	< 0.005	<0.005	< 0.005	< 0.005	<0.005	< 0.005	<0.005	< 0.005	<0.005	<0.005	< 0.005	< 0.005	< 0.005	<0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	5	< 0.005	<0.005	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	<0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	< 0.005
Calcium	NS	56.3	61.7	132	47	21.1	69	57.3	69	46.6	41.3	58.3	72.6	115	103	82.8	89.5	83.5	84.9	79.7	64.1
Chromium	0.05	< 0.005	<0.005	<0.005	0.056	0.79	<0.005	0.023	0.038	0.092	0.486	0.029	<0.005	< 0.005	800.0	<0.005	< 0.005	<0.005	0.134	<0.005	0.007
Cobalt	NS	< 0.050	<0.05	<0.05	< 0.05	<0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.050	<0.05	< 0.05	< 0.050	<0.05	0.07	<0.05	<0.05
Copper	200	< 0.005	<0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.008	< 0.005	< 0.005	< 0.005	<0.005	<0.005	< 0.005	<0.005	0.143	<0.005	0.009
Iron	0.3	0.121	0.176	<0.05	2.2	2.12	2.63	0.131	0.412	0.45	3.73	0.589	0.074	0.290	0.393	0.116	4.62	6.31	152	0.328	7.22
Lead	25	< 0.005	0.018	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Magnesium	35 (GV)	16	21.7	25.9	11.8	4.78	11.9	16.2	21.3	13.6	12.8	15.9	19.9	23.3	17.7	15.6	20.7	15.5	48	12.3	15.9
Manganese	0.3	0.329	0.284	0.033	0.102	< 0.02	0.344	< 0.02	<0.02	< 0.02	0.066	< 0.02	< 0.02	1.05	0.992	0.437	15.8	13.8	14.5	0.625	1.35
Nickel	0.1	< 0.020	<0.02	<0.02	0.032	0.044	< 0.02	0.112	0.057	0.059	0.036	0.061	0.048	< 0.020	< 0.02	< 0.02	< 0.020	< 0.02	0.099	<0.02	<0.02
Potassium	NS	6.21	5.79	3.85	6.51	1.46	8.31	2.59	4.3	1.92	2.55	5.19	6.67	10.9	7.35	9.52	20.7	15	35.6	10.2	10.1
Selenium	0.01	< 0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.005	<0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.005
Silver	50	< 0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.010	<0.01	<0.01	< 0.010	<0.01	<0.01	<0.01	<0.01
Sodium	20	16.7	11.8	47	96.7	15.6	7.02	29.2	102	29.8	81.4	9.14	17.6	135	48	137	151	54.5	124	25.2	21.6
Thallium	0.0005 (GV)	0.018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.029	<0.01	<0.01	0.08	0.022	<0.01	<0.01	<0.01
Vanadium	NS	< 0.020	<0.02	<0.02	<0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	< 0.020	<0.02	< 0.02	< 0.020	<0.02	0.247	<0.02	0.022
Zinc	5 (GV)	0.017	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.010	<0.01	<0.01	< 0.010	<0.01	0.262	<0.01	0.02
Mercury	0.7	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Iron, Dissolved	0.3	< 0.050	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	< 0.050	<0.05	Not Collected	0.094	0.229	0.341	<0.05	<0.05
Manganese, Dissolved	0.3	0.24	0.272	0.028	<0.02	< 0.02	0.292	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	<0.02	0.968	0.414	Not Collected	15.5	13.8	13.1	0.039	1.2

- NOTES:

 1. GW Std: NYS Ambient Water Quality Standards and Guidance Values (TOGS 1.1.1, June 1998 with April 2000 and June 2004 Addendums) for groundwater (GA).

 2. GV designates a Guidance Value.

 3. NS designates no groundwater Standard or Guidance Value listed for this compound.

 4. Bold font designates detected result.

- 5. Shaded cells indicate detections above the standard or guidance value.

Table 3
FIELD PARAMETERS
BEDFORD VILLAGE WELLS

HUNTING RIDGE MALL

Site 360009

Sample ID	GW Std.			MW-3M			MW-3S		MW	/-5M		MW-5S			MW-6D		
Sample Date	G۷	9/16/09	10/25/10	1/6/11	3/31/11	6/28/11	8/20/10	10/25/10	1/6/11	3/31/11	6/28/11	8/20/10	8/20/10	10/25/10	1/6/11	3/31/11	6/28/11
Field Parameters																	
Temperature	°C	15.55	14.24	14.3	14.07	16.48	14.29		10.08	10.43	12.09	11.78	14.22	11.46	10.42	10.66	12.22
Conductivity	ms/cm ^c	0.504	0.452	0.607	0.658	0.343	2.25	No	0.966	0.819	0.588	0.334	0.572	0.963	0.444	0.490	0.272
Dissolved Oxygen	mg/L	0.59	171.2*	0.34	0.46	8.45	0.42	No Readings	4.82	5.75	15.89	10.08	4.97	422.0*	5.18	3.59	10.31
Oxidation Reduction Potential	MeV	35.3	-123.6	-257.9	-210.4	4	175	rtcaurigs	144.8	-180.1	160	106	-30	32.0	44.3	-264.8	117
pH	pH Unit	7.32	7.7	7.88	7.38	7.86	5.77		7.4	7.16	7.68	5.99	6.88	6.49	7.86	8.30	8.00

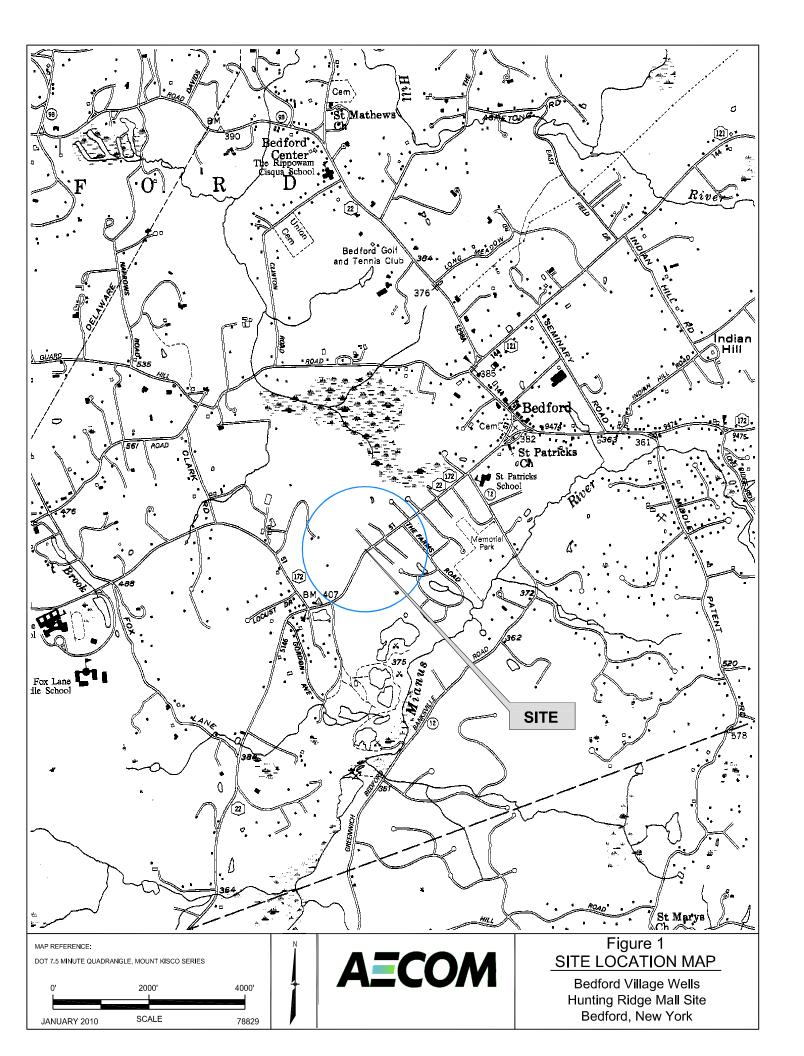
Sample ID	GW Std.			MW-6M					MW-6S					MW-12		
Sample Date	G۷	8/20/10	10/25/10	1/6/11	3/31/11	6/28/11	8/20/10	10/25/10	1/6/11	3/31/11	6/28/11	8/20/10	10/25/10	1/6/11	3/31/11	6/28/11
Field Parameters																
Temperature	°C	17.55	11.58	10.72	10.65	12.98	11.62	11.54	10.16	9.97	12.05	12.86	12.00	11.19	11.31	13.41
Conductivity	ms/cm ^c	0.999	0.978	0.989	1.226	0.706	0.923	1.244	1.232	0.011	0.444	0.020	0.930	0.599	0.697	0.372
Dissolved Oxygen	mg/L	2.3	388.5*	1.98	8.98	13.06	1.57	976*	4.07	12.53	11.82	0	972.3*	3.46	2.48	10.29
Oxidation Reduction Potential	MeV	97	41.4	105.6	-206.0	88	81	112.3	48.3	-207.5	94	28	203.1	160.1	-212.9	39
рН	pH Unit	6.62	6.47	7.23	6.93	6.48	6.28	6.52	6.74	7.47	6.64	7.72	6.49	7.54	7.42	7.31

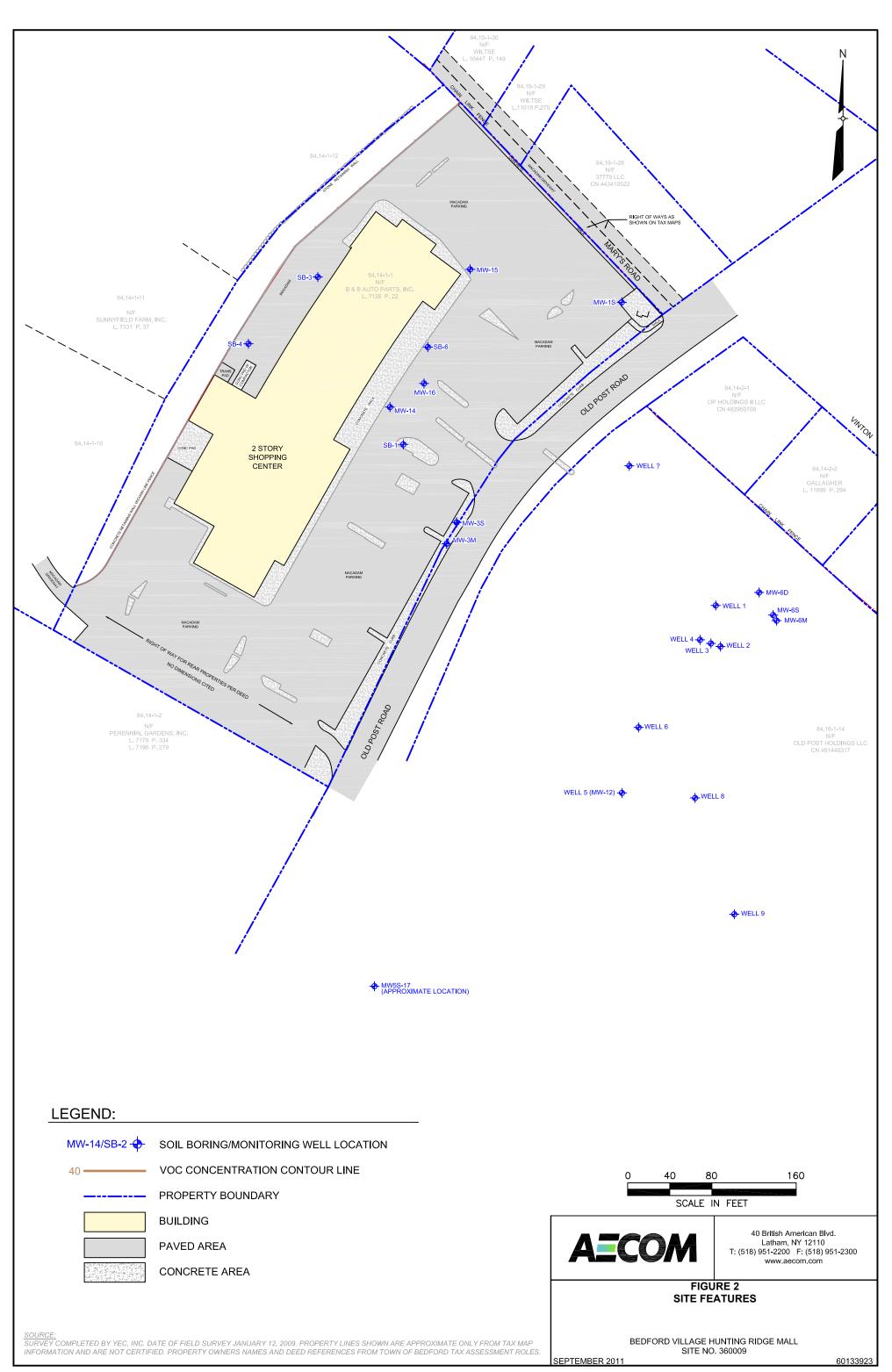
Sample ID	GW Std.				MW-14						MW	-15					MW-16		
Sample Date	GV	9/16/09	9/16/09	8/19/10	10/25/10	1/6/11	3/31/11	6/28/11	9/16/09	8/19/10	10/25/10	1/6/11	3/31/11	6/28/11	8/19/10	10/25/10	1/6/11	3/31/11	6/28/11
Field Parameters																			
Temperature	°C	17.91		17.12	17.58	16.66	14.34	16.98	15.78	16.54	18.64	15.86	13.04	15.30	15.34	17.44	13.93	13.57	16.31
Conductivity	ms/cm ^c	1.388	Dunlianta	1.14	1.927	1.483	1.607	0.858	1.488	0	1.767	1.601	1.496	0.988	0.573	0.426	0.511	0.607	0.309
Dissolved Oxygen	mg/L	2.58	Duplicate Sample	2.01	134.2*	1.83	3.78	6.62	1.28	10.31	121.6*	2.26	0.75	8.86	3.51	117*	1.05	0.09	8.52
Oxidation Reduction Potential	MeV	106.0	Campic	15.6	-96.7	77.1	-182.4	143	-40.7	111	-185.0	-138.4	-212.8	-44	-8	-133.6	23.5	-229.5	-89
рН	pH Unit	5.98		6.3	6.71	6.99	6.42	6.46	6.44	5	6.66	6.87	6.52	6.74	8.94	8.03	9.27	7.32	7.65

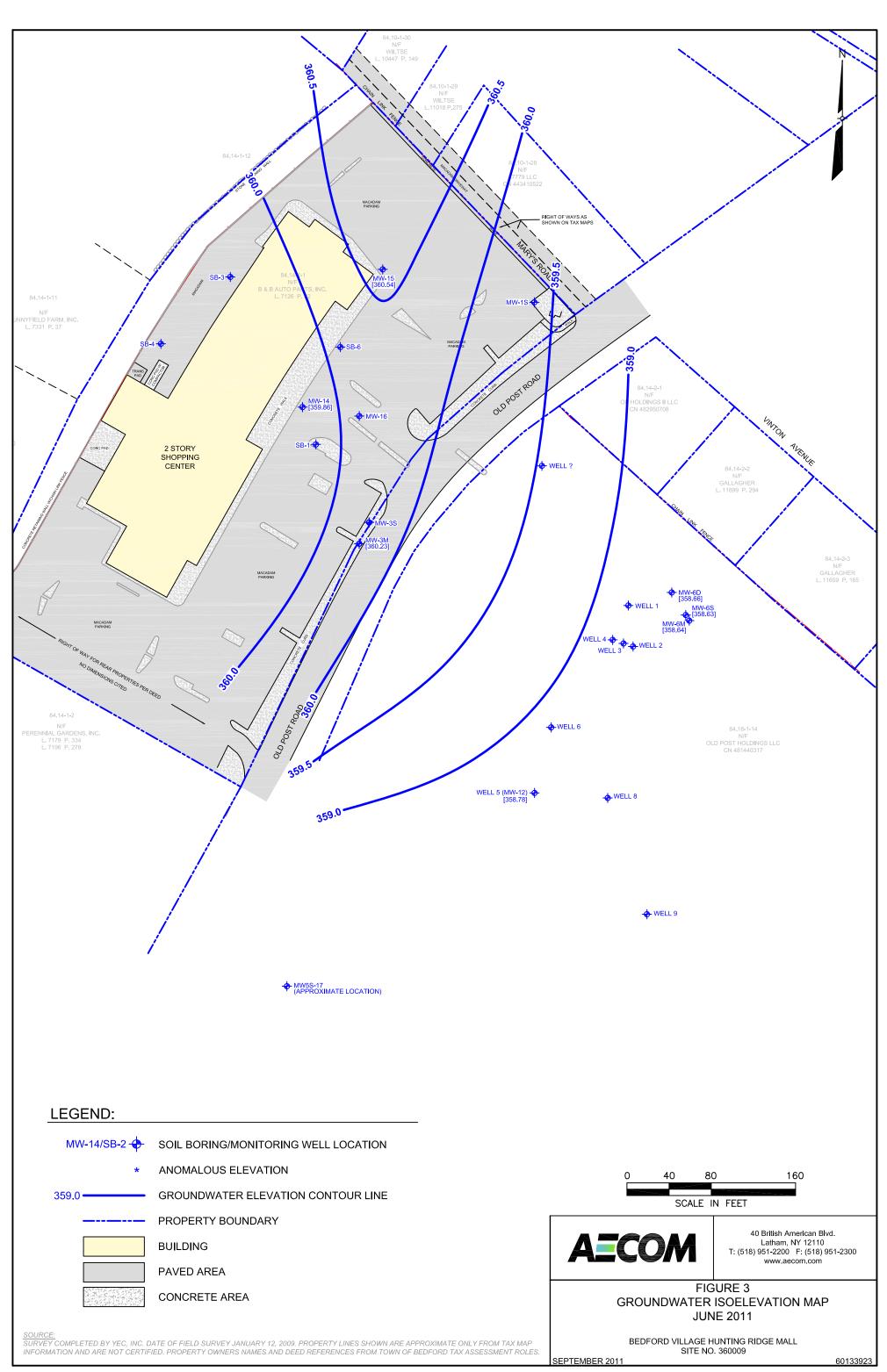
^{* -} Measurement unit is percentage.

AECOM Environment

Figures







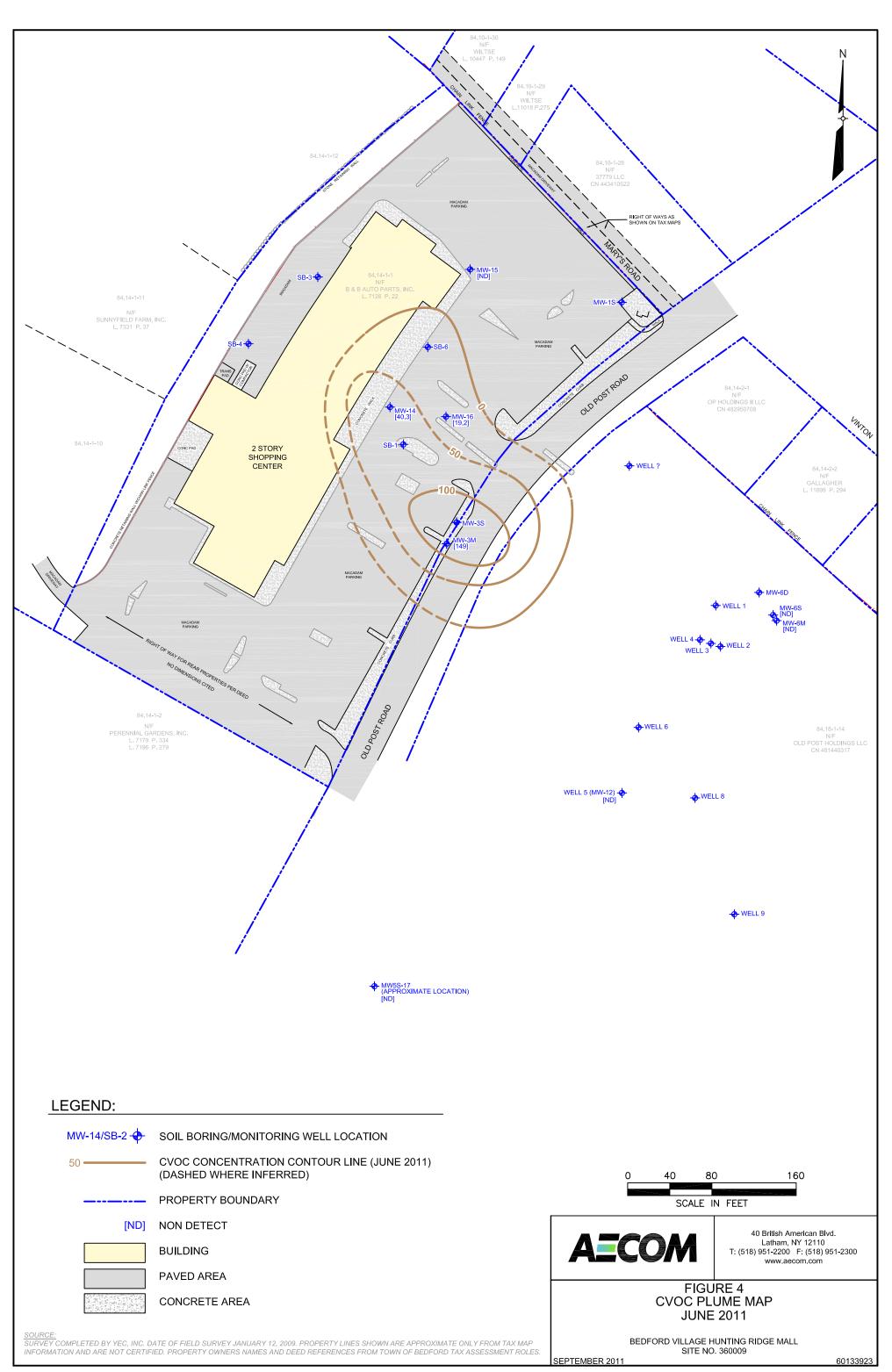


FIGURE 5 CHLORINATED VOC TRENDS MW-3M

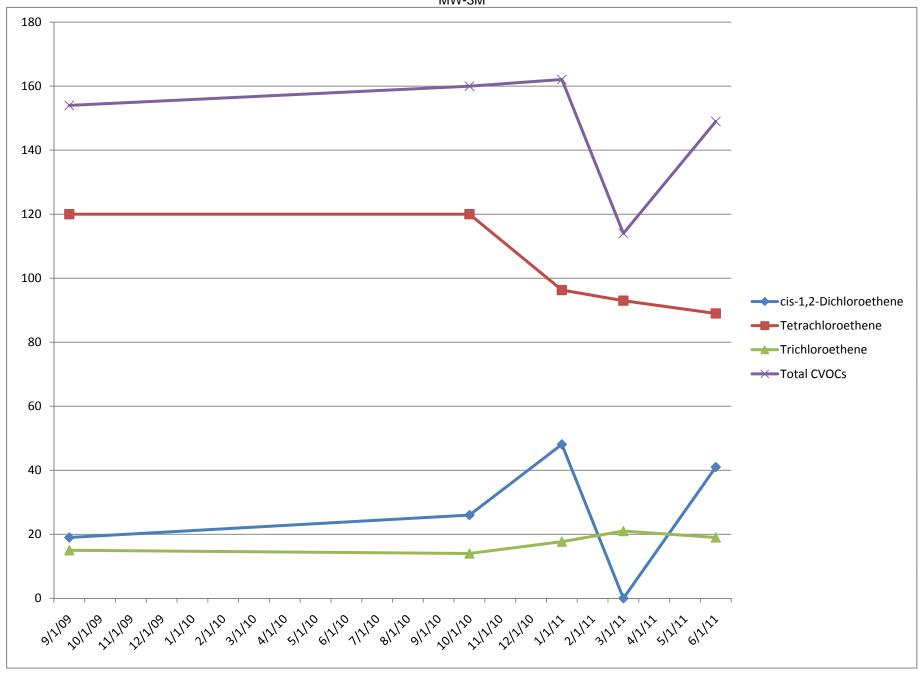


FIGURE 6 CHLORINATED VOC TRENDS MW-14

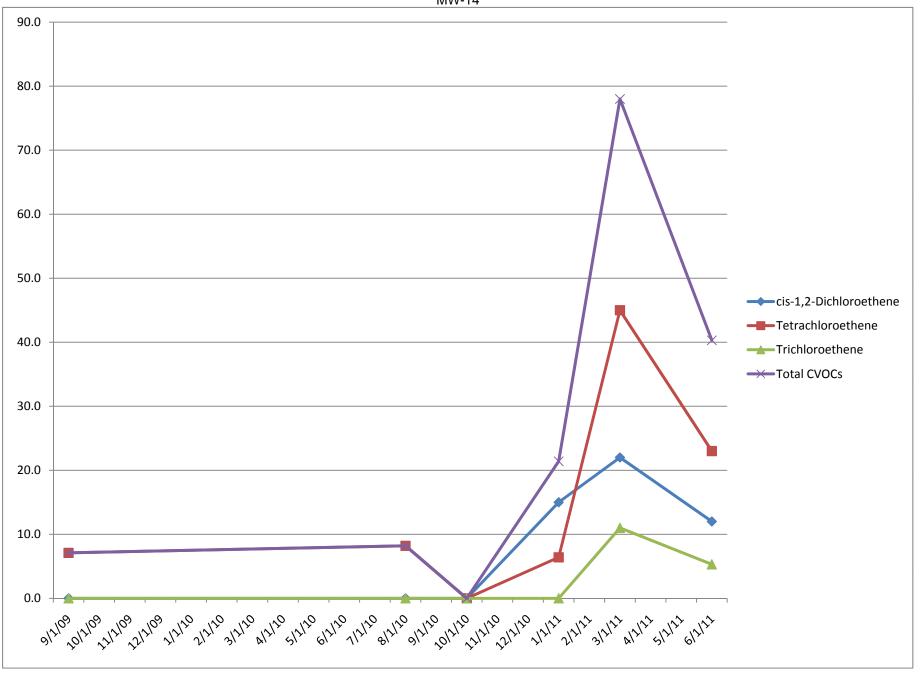
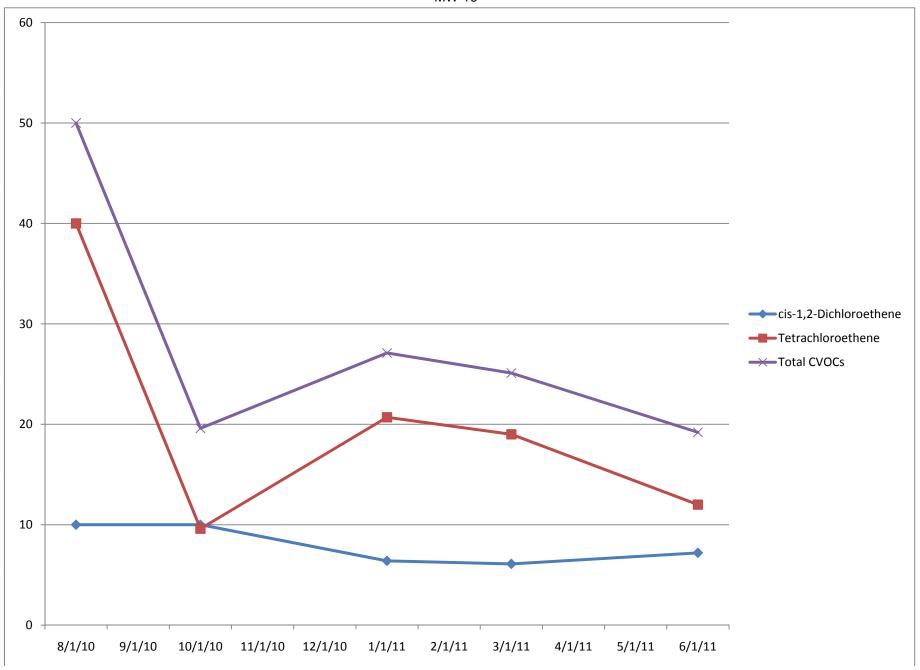


FIGURE 7 CHLORINATED VOC TRENDS MW-16



AECOM Environment

Appendix A

Field Sampling Forms

SITE ID.:



MONITORING WELL FIELD INSPECTION LOG

BITE ID"
INSPECTOR:
DATE/TIME:
WEll ID.:

NUMBER AND	YES NO
WELL VISIBLE? (If not, provide directions below)	
WELL COORDINATES? NYTM XNYTM Y	
PDOP Reading from Trimble Pathfinder: Satelites:	
GPS Method (circle) Trimble And/Or Magellan	
	YES NO
WELL I.D. VISIBLE? WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back). Figure Says	<u> </u>
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back). Figure Supplementation of the control of the contr	
U Well-5	
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:	60-11 m
	YES NO
SURFACE SEAL PRESENT?	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	
, , , , , , , , , , , , , , , , , , ,	
HEADSPACE READING (ppm) AND INSTRUMENT USED	
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Sticken
PROTECTIVE CASING MATERIAL TYPE:	Cilea
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	- AUN
MEASURE PROTECTIVE CASING INSIDE DIAMETER (IIICIES)	YES NO
LOCK DD COCNITO	ILS NO
LOCK PRESENT?	
LOCK FUNCTIONAL?	
DID YOU REPLACE THE LOCK?	
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)	
WELL MEASURING POINT VISIBLE?	
	1001
MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	65.59
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	30.3
MEASURE WELL DIAMETER (Inches):	<u></u>
WELL CASING MATERIAL:	PUC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	\$
DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead	
power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY	
in woods-service road in woods-entrance	worknown
THE MODEL - 20 MICE LONG IN MODIFICATION CE	MINIOUNE
DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)	
AND ASSESS THE TYPE OF RESTORATION REQUIRED.	
TO 1/100005	
(11 000000	
IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT	
(e.g. Gas station, salt pile, etc.):	
DEMARKS.	
REMARKS:	

SITE ID.:

INSPECTOR:

DATE/TIME: WEll ID.:



MONITORING WELL FIELD INSPECTION LOG

	YES NO
WELL VISIBLE? (If not, provide directions below)	TES NO
WELL COORDINATES? NYTM X NYTM Y	
PDOP Reading from Trimble Pathfinder: Satelites:	
GPS Method (circle) Trimble And/Or Magellan	
(,	YES NO
WELL I.D. VISIBLE?	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:	
	YES NO
SURFACE SEAL PRESENT?	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	top stuck or
HEADSPACE READING (ppm) AND INSTRUMENT USED	
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Stickup
PROTECTIVE CASING MATERIAL TYPE:	3490
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	
	YES NO
LOCK PRESENT?	
LOCK FUNCTIONAL?	V.
DID YOU REPLACE THE LOCK?	
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)	
WELL MEASURING POINT VISIBLE?	
	19 12
MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	28.65
MEASURE WELL DIAMETER (Inches):	
WELL CASING MATERIAL:	PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	accd
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	
DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead	
power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.	
in woods-service road nearby but entrance	unknown
DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)	
AND ASSESS THE TYPE OF RESTORATION REQUIRED.	
n was	
The Volume	
AND ENTERED A ANNUAL END BY DOTTEN THAT GOALD GOALD OF GOALD AND A THOUGHT AND THE PROPERTY.	
IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT	
(e.g. Gas station, salt pile, etc.):	
REMARKS:	

INSPECTOR:

DATE/TIME:

6/28/11 MW-15

MONITORING WELL FIELD INSPECTION LOG

WEII ID.: YES NO WELL VISIBLE? (If not, provide directions below) WELL COORDINATES? NYTM X NYTM Y PDOP Reading from Trimble Pathfinder: Satelites: GPS Method (circle) Trimble And/Or Magellan NO YES WELL I.D. VISIBLE? WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)..... Labeled Wrong on Figure WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-15 NO SURFACE SEAL PRESENT? SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) HEADSPACE READING (ppm) AND INSTRUMENT USED...... TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) PROTECTIVE CASING MATERIAL TYPE: YES NO LOCK PRESENT? LOCK FUNCTIONAL? DID YOU REPLACE THE LOCK? IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below) WELL MEASURING POINT VISIBLE? MEASURE WELL DEPTH FROM MEASURING POINT (Feet): MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): MEASURE WELL DIAMETER (Inches): WELL CASING MATERIAL: PHYSICAL CONDITION OF VISIBLE WELL CASING: ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES..... DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY. side walk you busy Lot near DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED. Piarking IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.): Cars AC Discharge REMARKS:

INSPECTOR:

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: WEll ID.: YES WELL VISIBLE? (If not, provide directions below) WELL COORDINATES? NYTM X NYTM Y PDOP Reading from Trimble Pathfinder: GPS Method (circle) Trimble And/Or Magellan YES NO WELL I.D. VISIBLE? WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)..... YES NO SURFACE SEAL PRESENT? SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) HEADSPACE READING (ppm) AND INSTRUMENT USED...... TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) PROTECTIVE CASING MATERIAL TYPE: YES LOCK PRESENT? LOCK FUNCTIONAL? DID YOU REPLACE THE LOCK? IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below) WELL MEASURING POINT VISIBLE? MEASURE WELL DIAMETER (Inches): WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

Good

Good ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES..... DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY. Power lines DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED. Distand between busy roadt

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

REMARKS:

	TE ID.:	
	SPECTOR:	-1 1
	ATE/TIME: 'Ell ID.:	MW-GM
WELL VISIBLE? (If not, provide directions below)	YE8	NO
WELL COORDINATES? NYTM X NYTM Y PDOP Reading from Trimble Pathfinder: Satelites:		
GPS Method (circle) Trimble And/Or Magellan WELL I.D. VISIBLE?	YES	NO
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	-	
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:	YES	NO
SURFACE SEAL PRESENT?		
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	V	4
HEADSPACE READING (ppm) AND INSTRUMENT USED	0.51	el 29ic
PROTECTIVE CASING MATERIAL TYPE: MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	YES	NO
LOCK PRESENT?LOCK FUNCTIONAL?		1
DID YOU REPLACE THE LOCK?		/
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below) WELL MEASURING POINT VISIBLE?		
MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 9.9.3 MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 30.09. MEASURE WELL DIAMETER (Inches): 2!!	i 	
WELL CASING MATERIAL:	-	
PHYSICAL CONDITION OF VISIBLE WELL CASING:	-	
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	-	
DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECES	SSARY.	
DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc AND ASSESS THE TYPE OF RESTORATION REQUIRED.	.)	
IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):		
REMARKS:		

DATE/TIME: WEll ID.:



MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)	YES NO
WELL COORDINATED AND AND AND AND AND AND AND AND AND AN	
PDOP Reading from Trimble Pathfinder: Satelites:	
GPS Method (circle) Trimble And/Or Magellan	
Timote Time of Hugonan	YES NO
WELL I.D. VISIBLE?	125 110
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-65	
TO SEE THE STATE OF THE OFFICE	YES NO
SURFACE SEAL PRESENT?	TES NO
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	
(11 daninged, decenter)	
HEADSPACE READING (ppm) AND INSTRUMENT USED	
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	SHICK 20
PROTECTIVE CASING MATERIAL TYPE:	54000
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	
	YES NO
LOCK PRESENT?	
LOCK FUNCTIONAL?	
DID YOU REPLACE THE LOCK?	
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)	
WELL MEASURING POINT VISIBLE?	
	S
MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	30.71
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	44.18
MEASURE WELL DIAMETER (Inches):	2"
WELL CASING MATERIAL:	PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	9000
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	0
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	
DESCRIPE A COPEG TO WELL (L. L. L	
DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead	D. 1.
power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSA	KY,
in woods - service road nearby but	Unsure q
entrance	<u> </u>
DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)	
AND ASSESS THE TYPE OF RESTORATION REQUIRED.	, ,
in woods - realtation could be doare	d out
Q	
IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT	
(e.g. Gas station, salt pile, etc.):	
(v.g. ous station, sait pile, cie.j.	
REMARKS:	
ALIVIAIAIS.	
An Market	
Sketch	

SITE ID.:

INSPECTOR:

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: WEll ID.:

WELL VISIBLE? (If not, provide directions below) Note that it is west a Store WELL COORDINATES? NYTM X NYTM Y	YES NO
	in woods
PDOP Reading from Trimble Pathfinder: Satelites:	
GPS Method (circle) Trimble And/Or Magellan	
	YES NO
WELL I.D. VISIBLE?	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:	
	YES NO
SURFACE SEAL PRESENT?	\vee
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) \(\bigcap_\infty_\infty_\ldots_\ldots_\infty_\infty_\ldots_\l	
HEADSPACE READING (ppm) AND INSTRUMENT USED	
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Stickup
PROTECTIVE CASING MATERIAL TYPE:	steel
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	
	YES NO
LOCK PRESENT?	V
LOCK FUNCTIONAL?	
DID YOU REPLACE THE LOCK?	
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)	~
WELL MEASURING POINT VISIBLE?	
	1000
MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	69.00
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	26.37
MEASURE WELL DIAMETER (Inches):	2"
WELL CASING MATERIAL:	PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	250
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	
DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead	
power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.	
in woods-there is a service od in the	woods-
unsur of entrance though	
DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)	
AND ASSESS THE TYPE OF RESTORATION REQUIRED.	1.
in woods - could use some Clasino	MIT
	0
IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT	
(e.g. Gas station, salt pile, etc.):	
DEMANUE.	
REMARKS:	1 Con
World wat the well is currently covered	V KY
Blue Vitrile gloves	7
Sketch	- -

INSPECTOR:

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: WEII ID.:

	T average Front 1
WELL VICIDLES (If not annual de disease le leux)	YES NO
WELL VISIBLE? (If not, provide directions below) WELL COORDINATES? NYTM X NYTM Y	V
WELL COORDINATES? NYTM X NYTM Y PDOP Reading from Trimble Pathfinder: Satelites:	
GPS Method (circle) Trimble And/Or Magellan	
Of 5 Method (chele) Trillible Alid/Of Magerian	YES NO
WELL I.D. VISIBLE?	I ES INO
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	
1 ~ 1 0.0 0	
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:	40
WEST IN THE PROPERTY DESIGNATION OF WEST.	YES NO
SURFACE SEAL PRESENT?	163 100
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	
The Teet 17 E et al. (If daminged, describe below)	
HEADSPACE READING (ppm) AND INSTRUMENT USED	
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Elizahalori
	5100
PROTECTIVE CASING MATERIAL TYPE: MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): L''	
	YES NO
LOCK PRESENT?	
LOCK FUNCTIONAL?	
DID YOU REPLACE THE LOCK?	
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)	
WELL MEASURING POINT VISIBLE?	
MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	26.74
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	_11.91
MEASURE WELL DIAMETER (Inches):	
WELL CASING MATERIAL:	PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	gread
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	0
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	
DESCRIPE ACCESS TO WELL (I. I. I	
DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSAR	V
	1 565
in a busy parking lot near curbo	Siapping
paza -good recess	
DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)	
AND ASSESS THE TYPE OF RESTORATION REQUIRED.	
parle Tho OT	
	
DENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT	
(e.g. Gas station, salt pile, etc.):	
Vehicle discharges - Storm Siwer	
TOTAL CARREST STORM SINCO	
u	-
REMARKS:	
call will and and it have diana	a Villa
Choo who but I arow fill	o mine
even mough its in a uno paucing zon	
Sketch	

SITE ID.: INSPECTOR:

DATE/TIME: WEll ID.:

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)	YES NO
WELL COORDINATES? NYTM XNYTM Y	
PDOP Reading from Trimble Pathfinder: Satelites:	
GPS Method (circle) Trimble And/Or Magellan	
of a medical (analog)	YES NO
WELL I.D. VISIBLE?	1 LS INO
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	
WEEL LOCATION MATERIAL MAY! (II not, sketch actual location on back)	
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:	
	YES NO
SURFACE SEAL PRESENT?	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	
<u> </u>	
HEADSPACE READING (ppm) AND INSTRUMENT USED	o .
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Blushman
PROTECTIVE CASING MATERIAL TYPE:	1)51000
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	- Waren
	YES NO
LOCK PRESENT?	
LOCK FUNCTIONAL?	
DID YOU REPLACE THE LOCK?	
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)	
WELL MEASURING POINT VISIBLE?	
MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	65.69
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	11.03
MEASURE WELL DIAMETER (Inches):	2"
WELL CASING MATERIAL:	PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	good
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES).
	
DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead	
power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSA	RY.
in a busy parking lot in the entranceur	Day - good
arcias) 1 5	71
DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)	
AND ASSESS THE TYPE OF RESTORATION REQUIRED.	
Manufacture Let	
it purche ion	
IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT	
(e.g. Gas station, salt pile, etc.):	
uphicle discharge-storm shoen	
VOI	
∀	
REMARKS:	2
Sketch	

Monitoring Well Purging / Sampling Form								
Project Name and Number:								
Monitoring Well Number:		M	W-R	Date:	Gi	8/11	3	
Samplers:	8							
Sample Number:			4-12	QA/QC	Collected?	No	-	
Purging / Sampling Method:								
1. L = Well Depth: 2. D = Casing Diameter (I.D.): 3. W = Depth to Water: 4. C = Column of Water in Well: 5. V = Volume of Water in Well = C(3.14159)(0.5D) ² (7.48) 6. 3(V) = Target Purge Volume D (inches) D (feet) 1-inch 0.08 2-inch 0.17 3-inch 0.25 4-inch 0.33 6-inch 0.50								
			Conversion	n factors to o	determine \	/ given C		
		D (inches) V (gal / ft)	1-inch 0.041	2/ind 0.163	3-inch 0.37	4-inch 0.65	6-inch 1.5	
Water Quality Readings Colle	ected Using		toriba	000				
Parameter	Units		1821	Read	dings			
Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10% or < 50) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor Comments:	24 hr feet gal mL / min NTU % mg/L MeV mS/cm^c µmho / cm pH unit C Visual Olfactory	7.38 13.35 Clears	16.75 67.1 10.29 39 0.372 7.31 13.41 Vlaudy Woney ed purgo	Amples @ 180	VOC &	1805		
* Three consecutive readings	within range	e indicates	stabilization	of that para		Page 1 of		

Monitoring Well Purging / Sampling Form								
Project Name and Number:		Bedf	old v	illage	wells	-HRM	1	
Monitoring Well Number:		mb	1-60	Date:		6/28/11		
Samplers:								
Sample Number:		mw	-6D	QA/QC	Collected?	No		
Purging / Sampling Method:		$-B_{i}$	rele					
 L = Well Depth: D = Casing Diameter (I.D., W = Depth to Water: C = Column of Water in W V = Volume of Water in W 3(V) = Target Purge Volun 	159)(0.5D) ² (28.63 7.48)	<i>C</i> 8	feet feet feet gal gal	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch	D (feet) 0.08 0.17 0.25 0.33 0.50		
Conversion factors to determine V given C								
		D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch	
		V (gal / ft)	0.041	0.163	-0.37	0.65	1.5	
Water Quality Readings Colle Parameter Time	Units 24 hr	1770		Rea	dings	r		
Water Level (0.33)		1550						
	feet	2863						
Volume Purged	gal							
Flow Rate	mL / min							
Turbidity (+/- 10% or < 50)	NTU	3/12						
Dissolved Oxygen (+/- 10%)	%							
Dissolved Oxygen (+/- 10%)	mg/L	10.31						
Eh / ORP (+/- 10)	MeV	117						
Specific Conductivity	mS/cm^c							
Conductivity (+/- 3%)	µmho / cm	0						
pH (+/- 0.1)	pH unit	8:00						
Temp (+/- 0.5)	С	12.22						
Color	Visual	Mear						
Odor	Olfactory	None						
Comments: Three consecutive readings	within range	e indicates st	tabilization	of that para		Page 1 of J		
						Page 1 of /		

Monitoring Woll Durging / Compling Form									
	Monitoring Well Purging / Sampling Form								
Project Name and Number:		Bed	Ford V:1	lago W Date:	ells -	HRM			
Monitoring Well Number:		MW	-15	_ Date:	G/2	8/11			
Samplers:		Max	h Howa	ud + G	reta l	Unite			
Sample Number:		Mw	-15	QA/QC (Collected?	No			
Purging / Sampling Method:		PDB -	t Bailer	13Well	1 Volum	Nes			
22.22							0.17 0.25 0.33		
			Conversio	n factors to o	letermine \	/ given C			
		D (inches) V (gal / ft)	1-inch 0.041/	2-inch 0.163	3-inch 0.37	4-inch 0.65	6-inch 1.5		
Water Quality Readings Colle	ected Using			Horib	a V2	12			
Parameter	Units			Read	dings				
Time	24 hr	1105	1125	T T	m.gc				
Water Level (0.33)	feet	_	1100						
Volume Purged	gal		3v						
Flow Rate	mL / min		JV						
Turbidity (+/- 10% or < 50)	NTU	21/20	+	l					
Dissolved Oxygen (+/- 10%)	%	316.0							
			10 m						
Dissolved Oxygen (+/- 10%)	mg/L	7,51	8,86						
Eh / ORP (+/- 10)	MeV	-45	-44						
Specific Conductivity	mS/cm^c		000						
Conductivity (+/- 3%) MS CM	⊭mho / cm		0.988						
pH (+/- 0.1)	pH unit	7.06	6.74						
Temp (+/- 0.5)	С	18.07	15.30						
Color	Visual	orand	It.Br.		234410				
Odor	Olfactory	Now	organic						
Comments:	SAMPI	red #	0	0 1050	<u> </u>				

* Three consecutive readings within range indicates stabilization of that parameter.

Page 1 of

Monitoring Well Purging / Sampling Form								
Project Name and Number:		BVU	,- HRM	n				
Monitoring Well Number:		_Mw-	-3M	_ Date:	6	28/11		
Samplers:		Mark	Howard +	_ Date: Grefa W	thite '			
Sample Number:		MW-	3M	QA/QC	Collected?	_ <i>N</i> o		
Purging / Sampling Method:		_\$	POB +B	ailer /-	3 well i	Jolume		
1. L = Well Depth: 73,45 feet D (inches) D (feet 2. D = Casing Diameter (I.D.): 0.77 feet 1-inch 0.08 3. W = Depth to Water: 14.18 feet 2-inch 0.17 4. C = Column of Water in Well: 59.27 feet 3-inch 0.25							D (feet) 0.08 0.17 0.25 0.33 0.50	
			Conversio	n factors to o	determine \	√ given C		
		D (inches) V (gal / ft)	1-inch 0.041	2-inch 0.163	3-inch 0.37	4-inch 0.65	6-inch 1.5	
Water Quality Readings Colle	ected Using	Ho!	riba L	1-22				
Parameter	Units			Read	dings			
Time	24 hr	1155	1235					
Water Level (0.33)	feet	14.18						
Volume Purged	gal	0	3V					
Flow Rate	mL / min	_						
Turbidity (+/- 10% or < 50)	NTU	42.0	33.7					
Dissolved Oxygen (+/- 10%)	%		· ·					
Dissolved Oxygen (+/- 10%)	mg/L	6.74	8.45					
Eh / ORP (+/- 10)	MeV	55	4					
Specific Conductivity	mS/cm^c							
Conductivity (+/- 3%)	µmho / cm	0.383	0.343					
pH (+/- 0.1)	pH unit	7.68	7.86					
Temp (+/- 0.5)	С	15.81	16.48					
Color	Visual	Clear	Clan					
Odor	Olfactory	None	None					
Comments:	Star	ed pu	rge @	1158	\		21	
1150 collected	MWZ	5M-06	<i>2</i> 811					
Three consecutive readings	within range	e indicates	stabilization	of that para		Page 1 of I		

Monitoring Well Purging / Sampling Form							
Project Name and Number:		Bedfo	ed Vil	lage W	ells-1	HRM	
Monitoring Well Number:		MM.	-6M	_ Date:	6/29	8/1 <i>1</i>	
Samplers:			N, MJ		104.1	3F1	
Sample Number:		MW6	M-0628	1/ QA/QC	Collected?	Yes-I	Dup
Purging / Sampling Method:		PD	BFE	railer		-	
 L = Well Depth: D = Casing Diameter (I.D.) W = Depth to Water: C = Column of Water in W V = Volume of Water in W 3(V) = Target Purge Volume 	/ell: ell = C(3.14	159)(0.5D) ²	² (7.48)	59.93 30.09 29.89 5.06 15.20	feet feet feet gal gal	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch	D (feet) 0.08 0.17 0.25 0.33 0.50
			10				
Conversion factors to determine V given C							
		D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
	ý,	V (gal / ft)	0.041	0.163	0.37	0.65	1.5
Parameter Time Water Level (0.33) Volume Purged	Units 24 hr feet	1313	1358	Rea	dings		
Flow Rate	gal			-			
Furbidity (+/- 10% or < 50)	mL / min NTU	4, 8	-50				II
Dissolved Oxygen (+/- 10%)	%	46.8	28.9				
Dissolved Oxygen (+/- 10%)	mg/L	12.54	13.06				lI
Eh / ORP (+/- 10)	MeV	704	88				
Specific Conductivity	mS/cm^c	/	0.0				
Conductivity (+/- 3%) MS/CM	µmho / cm	0.639	1.706				
oH (+/- 0.1)	pH unit	7.38	6.48				
Temp (+/- 0.5)	С	14.01	12.98				
Color	Visual	clear	Clear				
Odor	Olfactory	None	None				
comments: 1305-Collect MW6M-062811 Sample & Dep.							
	¥.						
Three consecutive readings within range indicates stabilization of that parameter.							
Page 1 of							

Monitoring Well Purging / Sampling Form							
Project Name and Number:		Bed	ford	Villag	e We	ells-HRI	n
Monitoring Well Number:		MW-9	65	_ Date:	6/28	3/11	10
Samplers:		GLW	LM,V	H		<u>.</u>	
Sample Number:		MW65.	0628	[] QAVQC	Collected?	No	
Purging / Sampling Method:			BFE	Bailer		·•	
 L = Well Depth: D = Casing Diameter (I.D.) W = Depth to Water: C = Column of Water in W V = Volume of Water in W 3(V) = Target Purge Volun 	/ell: /ell = C(3.14	159)(0.5D) ²	(7.48)	44.18	feet gal	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch	D (feet) 0.08 0.17 0.25 0.33 0.50
			Conversio	n factors to	determine \	√ given C	
		D (inches) V (gal / ft)	1-inch 0.041	2-inch 0.163	3-inch 0.37	4-inch 0.65	6-inch 1.5
Matar Quality Decalis as Quil	. (111 :		- 100			0.00	1.0
Water Quality Readings Colle	ected Using		Drilla	U22			
Parameter	Units			Rea	dings		
Time	24 hr	1335	1100				
Water Level (0.33)	feet		· —				
Volume Purged	gal	_	-				
Flow Rate	mL / min						
Turbidity (+/- 10% or < 50)	NTU	173.0	68.5				
Dissolved Oxygen (+/- 10%)	%	1/310	6 3.5				
Dissolved Oxygen (+/- 10%)	mg/L	12 07	1100				
Eh / ORP (+/- 10)	MeV	12.07	11.82	ļ			
Specific Conductivity	mS/cm^c	64	74				
			Austra				
Conductivity (+/- 3%) MS/cm	µmno / cm	0.466	0.444				
oH (+/- 0.1)	pH unit	6.11	6.64				
Temp (+/- 0.5)	С	13.26	12.05				
Color	Visual	Clear	Clear				
Odor	Olfactory	None	None				
Comments:							
1330 Col	lect	MWG	5-06	1185			
Three consecutive readings	within range	e indicates s	stabilization	of that parar		D	
						Page 1 of [

Monitoring Well Purging / Sampling Form							
Project Name and Number:		Bun	- HRM				
Monitoring Well Number:		Mb-	5M	Date:	6/2	8/11	
Samplers:		Marl	Howard	Date:	eta W	hite	
Sample Number:		_MW	-5M	QA/QC (Collected?	No	
Purging / Sampling Method:		_PDB	t Ba	iter /	3 W	all Voluma	5
1. L = Well Depth: 2. D = Casing Diameter (I.D.): 3. W = Depth to Water: 4. C = Column of Water in Well: 5. V = Volume of Water in Well = C(3.14159)(0.5D) ² (7.48) 6. 3(V) = Target Purge Volume C9.02 feet 0.17 feet 1-inch 0.08 2-inch 0.17 3-inch 0.25 4-inch 0.33 6-inch 0.50							
			Conversion	n factors to	determine \	given C	
		D (inches) V (gal / ft)	1-inch 0.041	2-inch 0.163	3-inch 0.37	4-inch 0.65	6-inch 1.5
 Water Quality Readings Colle	ected Using						
Parameter	Units			Rea	dings		
Time	24 hr	1520	1605			T	7
Water Level (0.33)	feet		7003				
Volume Purged	gal		-				
Flow Rate	mL/min						
Turbidity (+/- 10% or < 50)	NTU	620	72.8				
Dissolved Oxygen (+/- 10%)	%	620	16.0				
Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%)		1.1.	10 500	2			
	_mg/L	14.53	15.89				
Eh / ORP (+/- 10)	MeV	145.0	160				
Specific Conductivity	mS/cm^c	- 4-00					
Conductivity (+/- 3%)	µmho / cm	0.566	0.588				
pH (+/- 0.1)	pH unit	7.15	7-68				
Temp (+/- 0.5)	С	12-16	12.09				
Color	Visual	Chansa	and				
Odor	Olfactory	None	None				
Comments:		Stor	7 Ample tel puge	1000 @	.1575 520		
*Three consecutive readings	within range	e indicates s	stabilization	of that para		Page 1 of	

Monitoring Well Purging / Sampling Form												
wolltoning well Furging / Sampling Form												
Project Name and Number:		Bedge	ord	Vil	lage	Well	(-HRN	1				
Monitoring Well Number:		MND	14		b _{ate:}	6/28	111					
Samplers:		-GLW	/, M-	1#		1 1						
Sample Number:		MW14	-062	8/1	QA/QC	Collected?	No					
Purging / Sampling Method:	PDB & Bailer											
 L = Well Depth: D = Casing Diameter (I.D. 3. W = Depth to Water: C = Column of Water in W V = Volume of Water in W 3(V) = Target Purge Volume 	1159)(0.5D) ² (7.48)			feet feet feet feet feet feet geal gal		D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch	D (feet) 0.08 0.17 0.25 0.33 0.50					
	2	*		sion t	factors to	determine \	√ given C					
		D (inches)	-		2-inch	3-inch	4-inch	6-inch				
		V (gal / ft)	0.04	1	0.163	0.37	0.65	1.5				
 Water Quality Readings Colle	acted Heina	Hay	iha	11:	72							
Water Quality Readings Collected Using Horipa U32												
Parameter	Units				Rea	dings						
Time	24 hr	11,45	1705	-		ugo						
Water Level (0.33)	feet	-61	-									
Volume Purged	gal	_	31/									
Flow Rate	mL/min		2									
Turbidity (+/- 10% or < 50)	NTU	1510	1	-								
Dissolved Oxygen (+/- 10%)	%	15/.0	T									
Dissolved Oxygen (+/- 10%)	mg/L		1 /-	5								
Eh / ORP (+/- 10)	MeV	8.35	10.60									
Specific Conductivity		152	143									
Conductivity (+/- 3%) S/Cm	mS/cm^c	607	1 000	2								
Conductivity (+/- 3%)M-3/CM	µmho./.cm		0.85	8								
OH (+/- 0.1)	pH unit	7.07	6.40	مام								
Temp (+/- 0.5)	С	17.37	16,98	5								
Color	Visual	C sady	Gordy	Tan								
Odor	Olfactory	None	Non	یو								
Comments:	11 /					J.,	5 (2.78)					
1640-Collect MW14-062811												
						ω 						
Three consecutive readings within range indicates stabilization of that parameter.												
Page 1 of												

Monitoring Well Purging / Sampling Form											
Project Name and Number;		Bed	old	Village	we	113-HR1	N				
Monitoring Well Number:		_MW-	-16	Date: _	U/	28/1/					
Samplers:		_GL	N,M	HH		<u>I</u>	- 1				
Sample Number:		mw	-16	QA/QC C	Collected?	No					
Purging / Sampling Method:		P	DB; B	Batter	whale	2					
 L = Well Depth: D = Casing Diameter (I.D.) W = Depth to Water: C = Column of Water in W V = Volume of Water in W 3(V) = Target Purge Volume 	/ell: ell = C(3.14	159)(0.5D) ²	(7.48)	0.17 11.03 54.66	feet feet feet feet gal gal	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch	D (feet) 0.08 0.17 0.25 0.33 0.50				
Conversion factors to determine V given C											
		D (inches) V (gal / ft)	1-inch 0.041	2-inch 0.163	3-inch 0.37	4-inch 0.65	6-inch 1.5				
Water Quality Readings Collected Using Horiba 122											
Parameter	Units	, t		Read	lings						
Time	24 hr	1730	1750								
Water Level (0.33)	feet	11.03	-								
Volume Purged	gal	10	-27								
Flow Rate	mL/min		01								
Turbidity (+/- 10% or < 50)	NTU	94.0	160.0	l							
Dissolved Oxygen (+/- 10%)	%	94,0	160.0								
		1 1=	5-0								
Dissolved Oxygen (+/- 10%)	mg/L	6:40	8.52								
Eh / ORP (+/- 10)	MeV	-120	-89								
Specific Conductivity	mS/cm^c										
Conductivity (+/- 3%)	µmho / cm	+100	0-309								
pH (+/- 0.1)	pH unit	7.63	7-65								
Temp (+/- 0.5)	С	16.92	16.31								
Color	Visual	Moudy	Cloudy								
Odor	Olfactory	Sulkir	Sulfir								
Comments: Startenpurge@1730 1730 - Collect Sample MW16-062811											
Three consecutive readings within range indicates stabilization of that parameter. Page 1 of											