HRP Associates, Inc.

Creating the Right Solutions Together

January 28, 2013

Payson Long, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233

RE: **GROUNDWATER MONITORING AND ABRIVIATED PILOT TEST REPORT, DECEMBER 2012**, FORT EDWARD LANDFILL, SITE **NO. 558001, WORK ASSIGNMENT NO. D006130-2**
(HRP #NEW9622.OM)

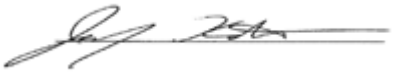
Dear Mr. Long:

HRP Engineering P.C (dba HRP Associates, Inc.) (HRP) submits the enclosed groundwater monitoring report with pilot test data for the above-referenced site. The scope of the monitoring program was developed based on the plan for Work Assignment No. D006130-22 of the State Superfund Standby Contract between the New York State Department of Environmental Conservation (NYSDEC) and HRP.

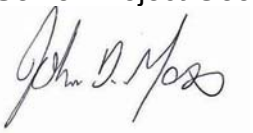
HRP's conclusions are summarized in Section 4.0 of this report. If you have any questions or require any additional information, please contact HRP at (860) 674-9570.

Sincerely yours,

HRP ASSOCIATES, INC.



Jennifer Kotch
Senior Project Geologist



John D. Moss
Senior Project Hydrogeologist

Adam G. Fox, P.E.
Project Manager

Attachments

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GROUNDWATER MONITORING AND ABRIVIATED PILOT TEST REPORT DECEMBER 2012

FORT EDWARD LANDFILL
SITE NO. 5-58-001

WORK ASSIGNMENT NO.
D006130-22

HRP #NEW9622.OM

January 28, 2013

Prepared For: **SUPERFUND STANDBY PROGRAM**
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL
CONSERVATION
625 BROADWAY
ALBANY, NEW YORK

Prepared By: **HRP** *Associates, Inc.*

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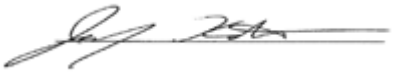

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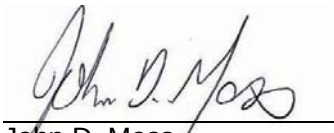
Senior Project Geologist



John D. Moss
Senior Project Hydrogeologist

Adam Fox, P.E.
Project Manager

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INTRODUCTION

This groundwater monitoring and abbreviated pilot test report describes the groundwater sampling event and pilot test conducted at the Fort Edward Landfill Site (Site No. 558001) in September 2012, located at Leavy Hollow Road in the Town of Fort Edward, Washington County, New York. The work was performed in accordance with the Work Plan for Work Assignment (WA) No. D006130-22 of the State Superfund Standby Contract between the New York State Department of Environmental Conservation (NYSDEC) and HRP Engineering P.C. (HRP) and with the September 2012 Fort Edward Landfill Leachate/Groundwater Collection System Pilot Test Work Plan completed by Aztech Technologies, Inc. (Aztech) of Ballston Spa, New York.

The groundwater monitoring component of the work plan requires sampling of 13 monitoring wells associated with this Site on a "five-quarter" basis (i.e., approximately every 15 months), with a maximum of three (3) sampling events during this WA. Subsequently, the Leachate/Groundwater Collection System Pilot Test work plan was developed to determine the effectiveness of recent upgrades to the system as well as determine recovery pump specifications for the improved operation, maintenance, and monitoring (OM&M) of the active leachate/groundwater treatment system at the Site.

1.1 Site Description and Background

The former municipal landfill site is located at Leavy Hollow Road in the Town of Fort Edward, New York (Figure 1). General Electric (GE) historically dumped approximately 850 tons of polychlorinated biphenyl (PCB)-containing scrap capacitors at this landfill. This waste represents approximately 79% of the total hazardous waste identified at this site. As a result of the 1980 "Seven Site Agreement" with the NYSDEC, GE produced a report in 1983 recommending encapsulation of the landfill within a slurry wall and cap; however, operation continued until 1991 and the proposed remedy was not initiated. Due to the extended operation of this landfill and the given problems associated with a similar encapsulation remedy taken at the adjacent Kingsbury Landfill (Site 5-58-008), the 1983 Remedial Design proposal was modified. The modified remedy included the construction of an impermeable landfill cap and a leachate collection system, plus the construction of a pre-treatment building with final treatment in the three (3) constructed wetland cells (cell 1 through cell 3) and a polishing pond [From: NYSDEC Registry of Inactive Hazardous Waste Disposal Sites, April 2002].

GROUNDWATER SAMPLING

Groundwater sampling was performed in accordance with the Work Plan for WA No. D006130-22 of the State Superfund Standby Contract between NYSDEC and HRP. According to the work plan, groundwater is sampled from on-site monitoring wells at a frequency of once per five-quarters, for a maximum of three (3) sampling events during this WA. This report summarizes the second of these events. Groundwater sampling was conducted by Aztech from September 18 through September 21, 2012.

Table 1 presents a list of the site monitoring wells, the depth-to-water data collected during previous sampling events (2007 through 2008), Aztech's first event (2011) under the HRP WA, and the most recent event, and calculated groundwater elevations. The locations of

these wells are presented on Figure 2. The condition of all 13 site wells was assessed by Aztech during the September 2012 sampling event and recorded on the logs presented in Appendix A. Groundwater Sampling Records are presented in Appendix B.

1.2 Groundwater Sampling Methodology

The work plan called for sampling 13 onsite wells (MW-1, MW-1A, MW-1D, MW-2, MW-2A, MW-4, MW-5, MW-06(A), MW-6B, MW-6C, MW-7, MW-8, and MW-NEW). MW-5 could not be sampled because the well could not be located during the sampling event. Therefore, groundwater samples were collected from a total of 12 monitoring wells. A duplicate sample, FD-1, was obtained from MW-1D.

Prior to sampling each well, a depth-to-water measurement was taken using an electronic water level indicator from a notched position on the top of casing. Each monitoring well was purged of three (3) well volumes using either a Monsoon® pump with low-flow sampling controller or a peristaltic pump, each with single-use disposable tubing, as noted on the logs in Appendix B. Prior to use at each monitoring well, the Monsoon® pump was decontaminated by a liquinox bath followed by a distilled water rinse. New tubing was used at each well location.

After purging up to three (3) well volumes of groundwater, the groundwater was pumped through a flow cell equipped with a multi-parameter probe (e.g., YSI® or similar) to measure temperature, conductivity, pH, turbidity, dissolved oxygen, and oxidation/reduction potential (Appendix B). All groundwater samples were bottled in laboratory-provided containers. Samples were packed on ice and submitted under standard Chain-of-Custody (COC) procedures to Test America in Amherst, New York. Each sample was analyzed for volatile organic compounds (VOC) by USEPA Method 8260, Contract Laboratory Program (CLP) Target Analyte List (TAL) metals, and polychlorinated biphenyls (PCB) by Method 8082.

RESULTS

1.3 Well Inventory

Twelve (12) monitoring wells were inventoried on log sheets included in Appendix A. Based on the visual well inventory; nine monitoring wells were identified in good condition. Surface seals were not observed at MW-2, MW-2A, or MW-7 and the seals require repair or replacement. VOC concentrations in each well headspace were screened with a MiniRAE 3000 photoionization detector (PID) that had been field calibrated to manufacture's standards. All readings were 0.0 parts per million by volume (PPMV).

At the time of completing this report, Aztech has not confirmed the locations of wells UI-MW-1, UI-MW-2, UI-MW-3, and UI-MW-4 on the site map sampled during the previous groundwater monitoring event or MW-4 sampled during the September 2012 groundwater monitoring event. In addition, survey elevation data is not available for monitoring well MW-1D, MW-4, and MW-NEW.

1.4 Groundwater Flow

Water level and total well depth measurements were obtained at twelve (12) monitoring wells located on-site. The measurements are noted on the inspection logs and sampling logs in Appendix A and Appendix B, respectively. The measurements and calculated groundwater elevations for the 12 monitoring wells are presented on Table 1. Measuring-point elevations were obtained from the November 1995 Final Engineering Report for the Site, prepared by URS Consultants, Inc. through Earth Tech. Depth-to-water measurements were converted to water table elevations and contoured as shown in Figure 2. The overall direction of groundwater flow beneath the landfill is to the east-southeast as indicated. Depth to water was measured in the extraction wells (EW-1 through EW-3 and EW-4 [leachate collection]) depth to water was collected, however groundwater elevations were not calculated as the wells are part of the existing groundwater leachate collection system and not representative of naturally occurring subsurface groundwater conditions.

1.5 Analytical Results

The analytical results for the September 2012 groundwater sampling event are presented on Table 2. Only detected compounds/metals are tabulated. Concentrations above the New York State Ambient Water Quality Standards (AWQS) and Guidance Values for groundwater are shown in bold font in a shaded cell for easy reference. Historical analytical data for select compounds, made available by the NYSDEC for the period of 1995 to 2012, are presented in Table 3.

Volatile Organic Compounds

Volatile organic compounds (VOCs) concentrations detected in the 12 sampled monitoring wells ranged from below reporting limits (<0.41 µg/L) to 18 µg/L of 1,2,4-trichlorobenzene in MW-6A. MW-6A and MW-6C are located on the northeast side of the landfill. VOCs were detected above laboratory minimum detection limits in four (4) monitoring wells: MW-1A, MW-6C, MW-6A, and MW-7. The concentrations of benzene (2.1 ug/L [micrograms per liter]), and chlorobenzene (18 ug/L) in MW-6C and 1,2,4-trichlorobenzene (18 ug/L), 1,3-dichlorobenzene (7.6 ug/L), and 1,4-dichlorobenzene (3.5 ug/L) in MW-6A exceed the NYSDEC Class GA Criteria.

Historical total VOC data are presented on Table 3, on Figure 3 and on the concentrations versus time graph Figure 6 for the MW-6 well nest. No historical total VOC data was available for the other wells which were therefore not included in the table.

Table 3 and the graph presented in Figure 6 show the total VOC concentrations for MW-6(A), MW-6B, and MW-6C. VOC totals from 1995 through 2000 include only concentrations of VOCs that were detected above AWQS, however the 2007, 2008, 2011, and 2012 totals include all detections, whether above or below AWQS. MW-6A has shown an increase in concentrations of total VOCs between 2000 and 2011, but decreased to 35.41 ug/L in 2012. MW-6B has shown no detectable VOCs since May 1999. MW-6C total VOC concentrations have remained relatively constant between 2007 and 2012.

In summary, VOCs do not appear to be widely present at high concentrations in site groundwater.

Metals

During the September 2012 sampling event, each of the 23 metals in the CLP scan were detected. Iron, Magnesium, manganese, and sodium were present in groundwater at concentrations exceeding the AWQS. The most commonly exceeded standard was iron (10 of 12 sampled wells); next was total sodium (9 of 12 wells); and finally manganese, with 5 of 12 wells exceeding the AWQS.

Limited historical total metals data are presented on Table 3, on Figure 4 and on the concentrations versus time graphs presented in Figure 7 through Figure 10. All sampled monitoring wells had AWQS exceedances for one or more metals during the September 2012 monitoring event. Ten of the twelve wells had exceedances for multiple metals, with the exceptions being MW-01 and MW-1D (only exceedance was sodium).

NEW-MW showed the highest concentrations of magnesium and total sodium of the 12 wells sampled in September 2012. Historical data for this well was not provided by NYSDEC. MW-7, located near the foot of the cap on the north side of the landfill, featured the highest iron concentration in the current sampling event.

Table 3 and the graphs in Figures 7 through 10 summarize recent and historical concentrations of four metals (iron, manganese, magnesium, and iron) detected at six monitoring well locations (MW-2, MW-2A, MW-6A, MW-6B, MW-6C, MW-7). Within this group of wells, only MW-6C exceeded the guidance value (GV) for magnesium (35,000 µg/L). In general, concentrations of magnesium (Figure 7) with the exception of MW-6C have fallen substantially (to well below the GV) since the May 2000 sampling event. From a historical perspective, the magnesium concentration in MW-6B in the 2007 event appears to be anomalous.

None of the six wells graphed on Figure 8 have ever met the AWQS for iron (300 µg/L). Moreover, the iron concentrations have decreased slightly, if at all, since the first sampling events in the spring and summer of 1995, with the exception being MW-6B, which has had a substantial decrease in iron concentration from between 2007 until the most recent sampling event (September 2012). MW-2A, MW-6B, MW-6C and MW-7 decreased slightly from the last sample event for iron.

Figure 9 shows a historical graph for manganese concentrations. Wells exceeding the standard for manganese (300 µg/L) include MW-2, MW-2A, MW-6B, MW-6C and MW-7. The concentration in MW-2A, which meet AWQS standards, is at the lowest end of its historic range for manganese.

MW-06B and MW-7 met the AWQS for total sodium (20,000 µg/L; Table 2). Concentrations of total sodium in MW-06, MW-7, and MW-8 (Table 3 and Figure 10) have remained relatively constant and above the AWQS over time. The concentration of sodium in MW-06B shows a notable decreasing trend.

As an upgradient, background well for the site, MW-8 depicts groundwater quality without significant site impacts. Iron and selenium were detected above AWQS in this well in 2007 but no metals were detected above the AWQS during the 2008 or 2011 sampling events. Iron was detected above AWQS in this well in September 2012.

PCB Organics

Total polychlorinated biphenyls (PCBs) were detected in nine (9) groundwater samples and ranging between 0.00028 ug/L and 0.0074 ug/L at concentrations exceeding the AWQS. Total PCB data is presented on Table 3 and on Figure 5 for the groundwater wells analyzed during the most recent sampling event. PCBs were not detected in 1995 but were present in one sample collected in 2008 and were detected in groundwater samples collected from MW-6C and UI-MW-4 during the 2011 sampling event.

In summary, PCBs have not generally been historically detected in site groundwater, however, total PCBs exceeded NYSDEC Class GA criteria in 9 of the 12 monitoring wells sampled in September 2012.

4.0 LEACHATE/GROUNDWATER COLLECTION SYSTEM PILOT TEST

The Groundwater Water Treatment System (GWTS) consists of three (3) extraction wells (EW) (EW-1 through EW-3) and a subsurface collection trench that feeds the three (3) treatment cells (Cell 1 [TC-1] through Cell 3 [TC-3]) that ultimately discharge to a polishing pond. The estimated extraction rates for the system were reported by Aztech to be 3 gallons per minute (GPM) (EW-1), 13 gpm (EW-2), and 6 gpm (EW-3), for a total extraction rate of 22 gpm from the three (3) extraction wells. EW-4 (leachate collection) and groundwater collection trench recover leachate and shallow groundwater at a reported rate of approximately 6.6 GPM from the southeast corner of the landfill for treatment via the GWTS. EW-5 (Effluent Collection Sump) discharges treated water, remediated via gravity feed flow through the three (3) treatment cells, to the polishing pond (located southwest of Cell-3 and west of former monitoring well MW-5). The combined influent samples include water from EW-1 through EW-4 prior to treatment through the GWTS. An effluent sample form the polishing pond was also collected to monitor water after remediation.

4.1 Objective/Purpose of the Leachate/Groundwater Collection System Pilot Test

A pilot test was conducted at the existing GWTS including additional controls (i.e. pumping water to a frac tank for retention purposes) from September 24 through September 27, 2012. The data produced will be analyzed to determine how best to upgrade the system to help regulate water flow to and through the GWTS. The purpose of the pilot test was to verify the flow rates of the GWTS after the recent modifications, including the full automation of the groundwater collection system. The pilot test data will also be utilized to size pumps for the proposed treatment system modifications as part of the facility's Remedial System Optimization (RSO).

4.2 Scope

In conjunction with the 5th Quarterly Groundwater Sampling event (September 2012), the pilot test was performed to characterize the influent and effluent leachate and groundwater concentrations to the GWTS. The pilot test sample locations are included on Figure 10.

The Pilot Test used a temporary frac tank mobilized to the Site prior to September 24, 2012. Leachate and groundwater extracted from the extraction wells and the collection trench was directed to the frac tank prior to discharge into the treatment cells (Cell 1 through Cell-3) which exist inline prior to the polishing pond. The frac tank provided extended equalization/storage capacity as to not overwhelm the existing treatment building's distribution pumps to the existing treatment cells. The groundwater was transferred to the treatment building's equalization (EQ) tank for discharge to the treatment cells before sample EW-5 (Effluent, or Effluent Collection Sump) was collected post treatment. Flow readings from each of the collection points, as gallons per minute (GPM), were recorded during the pilot test by the remote monitoring system control panel located in the existing GWTS shed. Monitoring samples from each of the individual collection points (EW-1, EW-2, EW-3, EW-4, EW-5 [Effluent Collection Sump] and Combined Influent) were collected and analyzed for chemical characteristics at both the start-up of the pilot test as well at the start of each day of the pilot test to establish a normalized loading to the treatment system. Samples were collected from each of the cells to evaluate the condition of the cells themselves, as well as from the sample points located between each of the cells to evaluate groundwater concentrations as it flows through the cells. A sample was collected from the polishing pond effluent (PPE) to evaluate the final concentrations of the water after treatment. The samples were analyzed for the following parameters: VOCs, Contract Laboratory Program (CLP) Metals, Mercury (Hg), Phenols, PCBs, Nitrate, Nitrite, Sulfur, Ammonia, Sulfate, Sulfide, total organic compounds (TOC), total suspended solids (TSS), total dissolved solids (TDS), Methane, chemical oxygen demand (COD), biological oxygen demand (BOD), Phosphorous, Hardness, Alkalinity, and expanded parameters including oxidation reduction potential (ORP), pH, dissolved oxygen (DO), carbon dioxide ($CO_{2)}$, temperature, conductivity, and turbidity. The results of the pilot test are presented in attached Table 4 and will be discussed further in the upcoming pilot test report.

A surface water sample (Pond 13) was collected from a surface water area adjacent to the polishing pond to monitor surface water. Surface water sample Runoff 14 was collected from the stream (Glens Falls Feeder Canal) on the north side of the site to monitor water leaving the Site. Groundwater sample Runoff 15 was collected from a monitoring well at the southeast corner of the landfill adjacent to the service road and NEW-MW observed to be under artesian conditions. Due to the apparent upgradient location and the close proximity of this monitoring well to the polishing pond, a grab groundwater sample was collected from the monitoring well. The samples were collected on September 26 and September 28, 2012 and were analyzed for VOC by USEPA Method 8260, CLP, TAL metals, and PCBs by Method 8082.

Water level and total well depth measurements were obtained at four (4) extraction wells located on-site. These values were not used to calculate groundwater

contours as they are interconnected with the GWTS and are not representative of naturally occurring groundwater depths. The measurements are noted on the inspection logs and sampling logs in Appendix A and Appendix B, respectively. EW-3 was identified as having damaged PVC located at the top of casing.

5.0 CONCLUSIONS

VOCs do not appear to be widely present at high concentrations in site groundwater. Concentrations of VOCs appear to be decreasing over time.

Total PCBs over AWSQ standards were detected in 9 of the 12 groundwater monitoring wells sampled during the September 2012 monitoring event. Additionally, PCBs were detected in groundwater samples from MW-6 during the 2008 sampling event and in MW-6C and UW-MW-4 during the 2011 sampling event. Total PCB levels appear to be increasing across the Site.

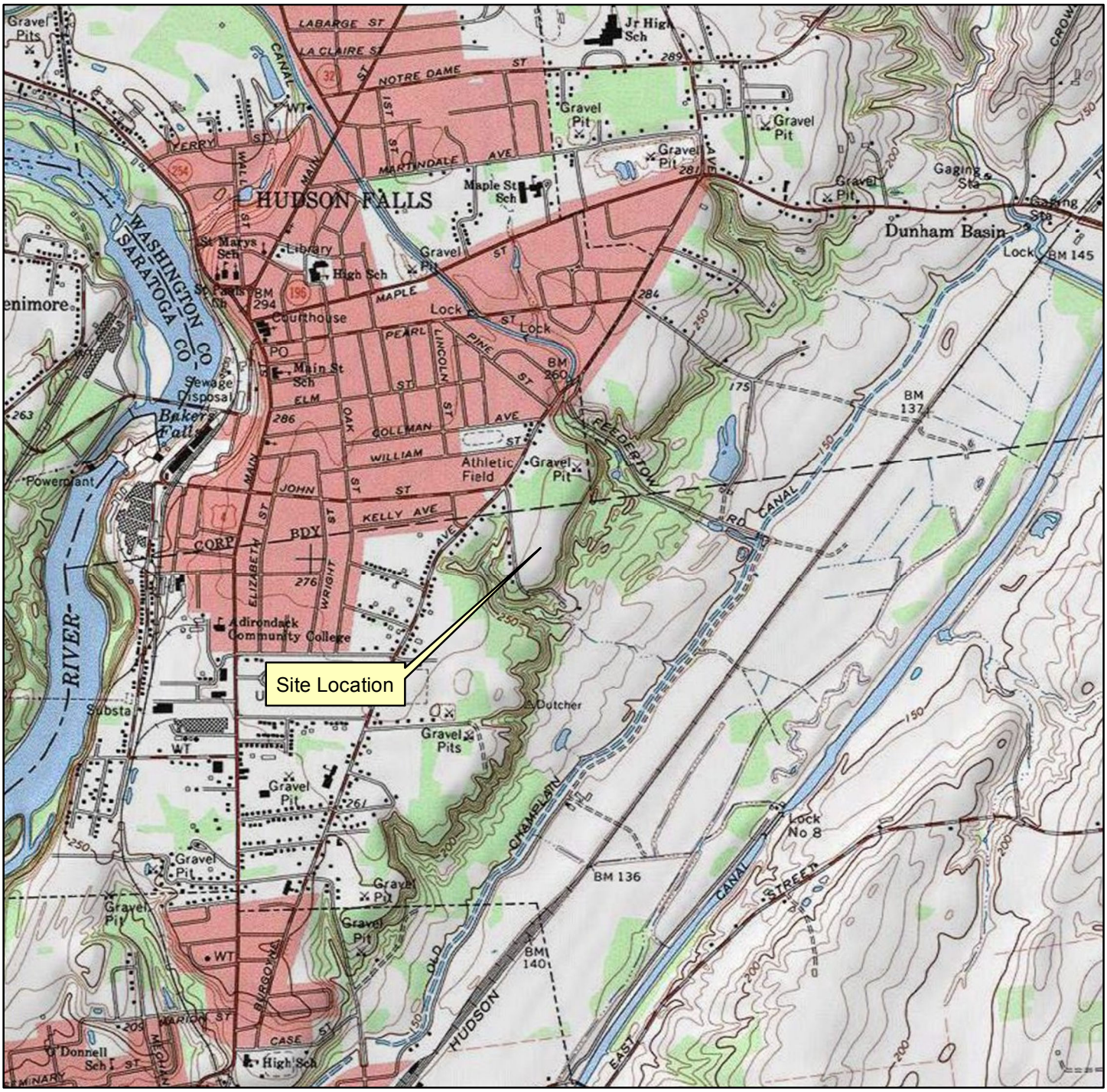
A total of twenty-three metals were detected in groundwater at concentrations above the laboratory minimum detection limits. A total of four (4) metals were detected in groundwater at concentrations exceeding the AWQS. All sampled monitoring wells identified one or more metals at concentrations exceeding the AWQS. The most common metal exceeding its respective standard was iron.

The existing groundwater remedial system should remain in operation to treat elevated metals, PCBs, and VOC concentrations. Although VOC levels do not appear to be problematic in the monitoring well results, vinyl chloride and cis-1,2-DCE have been noted at high concentrations in the groundwater influent to the treatment system.

The pilot test data will be further discussed and evaluated in an upcoming pilot test report.

The next round of groundwater sampling will occur at this Site during the winter of 2013.

FIGURES



USGS Quadrangle Information
Quad ID: 43073-C5
Name: Hudson Falls, New York
Date Pub: 1968

Figure 1
Site Location
Fort Edward Landfill
Leavy Hollow Road
Fort Edward, New York
HRP# NEW9622.OM
Scale 1" = 2,000'

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Path: J:\NNEWEN - NY STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION\FORT EDWARD LANDFILL, LEAVY HOLLOW ROAD, FORT EDWARD, NY\NEW9622OM\GIS\Site Location.mxd

N

BURGOYNE AVENUE

HUDSON FALLS

KINGSBURY

KINGSBURY LANDFILL

TOWN OF KINGSBURY

TOWN OF FORT EDWARD

GLENS FALLS FEEDER CANAL

(183.05) MW-06A

MW-06B (177.19)

MW-06C (184.48)

(185.03) MW-07

EW-3

EW-2

VILLAGE OF HUDSON FALLS

TOWN OF FORT EDWARD

RUNOFF 14

UNNAMED PONDS

(232.24) MW-08

MW-05

CELL 3

TC#2

EW-5

TC#3

CTC

EW-1

RUNOFF / POND 13

POLISHING POND

PPE (POLISHING POND EFFLUENT)

TC#1

CELL 2

CELL 1

LEAVY HOLLOW ROAD

MW-01D

MW-01A (216.87)

MW-01 (218.70)

MW-02 (184.16)

MW-02A (182.09)

EW-4

SITE ENTRANCE

UNIDENTIFIED MONITORING WELL

RUNOFF 15

UNIDENTIFIED MONITORING WELL

NEW-MW

TREATMENT BUILDING

LEGEND

- MONITORING WELL
- (232.24) – REPORTED GROUNDWATER ELEVATION (MEASURED ON SEPT. 18, 2012)
- 198 – GROUNDWATER CONTOUR (10 FT.) (DASHED WHERE INFERRED)
- 240 – TOPOGRAPHIC CONTOUR
- STREAM/DRAINAGE/CHANNEL/POND
- GROUNDWATER FLOW DIRECTION
- EXTRACTION WELL OR COLLECTION SUMP
- GROUNDWATER COLLECTION TRENCH

NOTE:
1. SEPTEMBER 2012 PILOT TEST COMPLETED BY AZTECH.

1" = 250'

250 0 125 250 500

APPROXIMATE SCALE IN FEET

FIGURE 2
SEPTEMBER 18, 2012 GROUNDWATER CONTOURS
FORT EDWARD LANDFILL
LEAVY HOLLOW ROAD
FORT EDWARD, NEW YORK
HRP# NEW9622.OM
SCALE: 1" = 250'

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N

BURGOYNE AVENUE

HUDSON FALLS

KINGSBURY

KINGSBURY LANDFILL

MW–06A	
1,1–TRICHLOROBENZENE	18 ug/L
1,3–DICHLOROBENZENE	7.6 ug/L
1,4–DICHLOROBENZENE	3.5 ug/L

MW–06	
BENZENE	2.1 ug/L
CHLOROBENZENE	18 ug/L

TOWN OF KINGSBURY

TOWN OF FORT EDWARD

GLENS FALLS FEEDER CANAL

MW–06A

MW–06B

MW–06C

MW–07

VILLAGE OF HUDSON FALLS

TOWN OF FORT EDWARD

EW–3

EW–2

RUNOFF 14

UNNAMED PONDS

MW–08

MW–05

CELL 3

TC#2

EW–5

TC#3

CTC

EW–1

RUNOFF / POND 13

POLISHING POND

PPE (POLISHING POND EFFLUENT)

TC#1

CELL 2

CELL 1

LEAVY HOLLOW ROAD

EW–4

MW–01D

MW–01A

MW–01

MW–02

MW–02A

SITE ENTRANCE

UNIDENTIFIED MONITORING WELL

RUNOFF 15

UNIDENTIFIED MONITORING WELL

NEW–MW

TREATMENT BUILDING

LEGEND

–MONITORING WELL

–TOPOGRAPHIC CONTOUR

–STREAM/DRAINAGE/CHANNEL/POND

–EXTRACTION WELL OR COLLECTION SUMP

–GROUNDWATER COLLECTION TRENCH

ALL CONCENTRATIONS REPORTED IN ug/L (MICROGRAMS PER LITER)

NOTE:
1. SEPTEMBER 2012 PILOT TEST COMPLETED BY AZTECH.
2. SAMPLES COLLECTED DURING SEPTEMBER 18 THROUGH SEPTEMBER 21, 2012

1" = 250'

250 0 125 250 500

APPROXIMATE SCALE IN FEET

FIGURE 3
TOTAL VOCs IN GROUNDWATER
FORT EDWARD LANDFILL
LEAVY HOLLOW ROAD
FORT EDWARD, NEW YORK
HRP# NEW9622.OM
SCALE: 1" = 250'

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N

BURGOYNE AVENUE

HUDSON FALLS

KINGSBURY

KINGSBURY LANDFILL

MW–06A	
IRON	23.8 mg/L
MAGNESIUM	44.6 mg/L
MANGANESE	1.6 mg/L
SODIUM, TOTAL	54.5 mg/L

MW–06B	
IRON	0.78 mg/L
SODIUM, TOTAL	42.8 mg/L

MW–07	
IRON	146 mg/L
MANGANESE	6.6 B mg/L

MW–06	
IRON	103 mg/L
MANGANESE	1.8 mg/L

MW–08	
IRON	4 mg/L

MW–01D	
SODIUM, TOTAL	44.7 mg/L

MW–01	
SODIUM, TOTAL	24.9 mg/L

MW–01A	
IRON	0.55B mg/L
SODIUM, TOTAL	22.7 mg/L

NEW–MW	
IRON	8.2B mg/L
MAGNESIUM	178B mg/L
SODIUM, TOTAL	175 mg/L

MW–2A	
IRON	9.1 mg/L
SODIUM, TOTAL	42.4B mg/L

MW–2	
IRON	2.8 mg/L
MAGNANESE	0.6B mg/L
SODIUM, TOTAL	66.1B mg/L

TOWN OF KINGSBURY

TOWN OF FORT EDWARD

VILLAGE OF HUDSON FALLS

TOWN OF FORT EDWARD

GLENS FALLS FEEDER CANAL

MW–06A

MW–06B

MW–06C

MW–07

MW–08

MW–05

EW–3

EW–2

EW–1

EW–4

RUNOFF 14

UNNAMED PONDS

RUNOFF / POND 13

POLISHING POND

PPE (POLISHING POND EFFLUENT)

CELL 3

CELL 2

CELL 1

TC#1

TC#2

TC#3

EW–5

CTC

TREATMENT BUILDING

LEAVY HOLLOW ROAD

SITE ENTRANCE

MW–01D

MW–01

MW–01A

MW–02

MW–02A

UNIDENTIFIED MONITORING WELL

RUNOFF 15
UNIDENTIFIED MONITORING WELL

NEW–MW

LEGEND

- –MONITORING WELL
- –TOPOGRAPHIC CONTOUR
- –STREAM/DRAINAGE/CHANNEL/POND
- –EXTRACTION WELL OR COLLECTION SUMP
- –GROUNDWATER COLLECTION TRENCH

LAB QUALIFIER B = RESULTS DETECTED IN THE USB
ALL CONCENTRATIONS REPORTED IN mg/L (MILLIGRAMS PER LITER)

NOTE:
1. SEPTEMBER 2012 PILOT TEST COMPLETED BY AZTECH.
2. SAMPLES COLLECTED DURING SEPTEMBER 18 THROUGH SEPTEMBER 21, 2012

1" = 250'

250 0 125 250 500

APPROXIMATE SCALE IN FEET

FIGURE 4
METALS IN GROUNDWATER
FORT EDWARD LANDFILL
LEAVY HOLLOW ROAD
FORT EDWARD, NEW YORK
HRP# NEW9622.OM
SCALE: 1" = 250'

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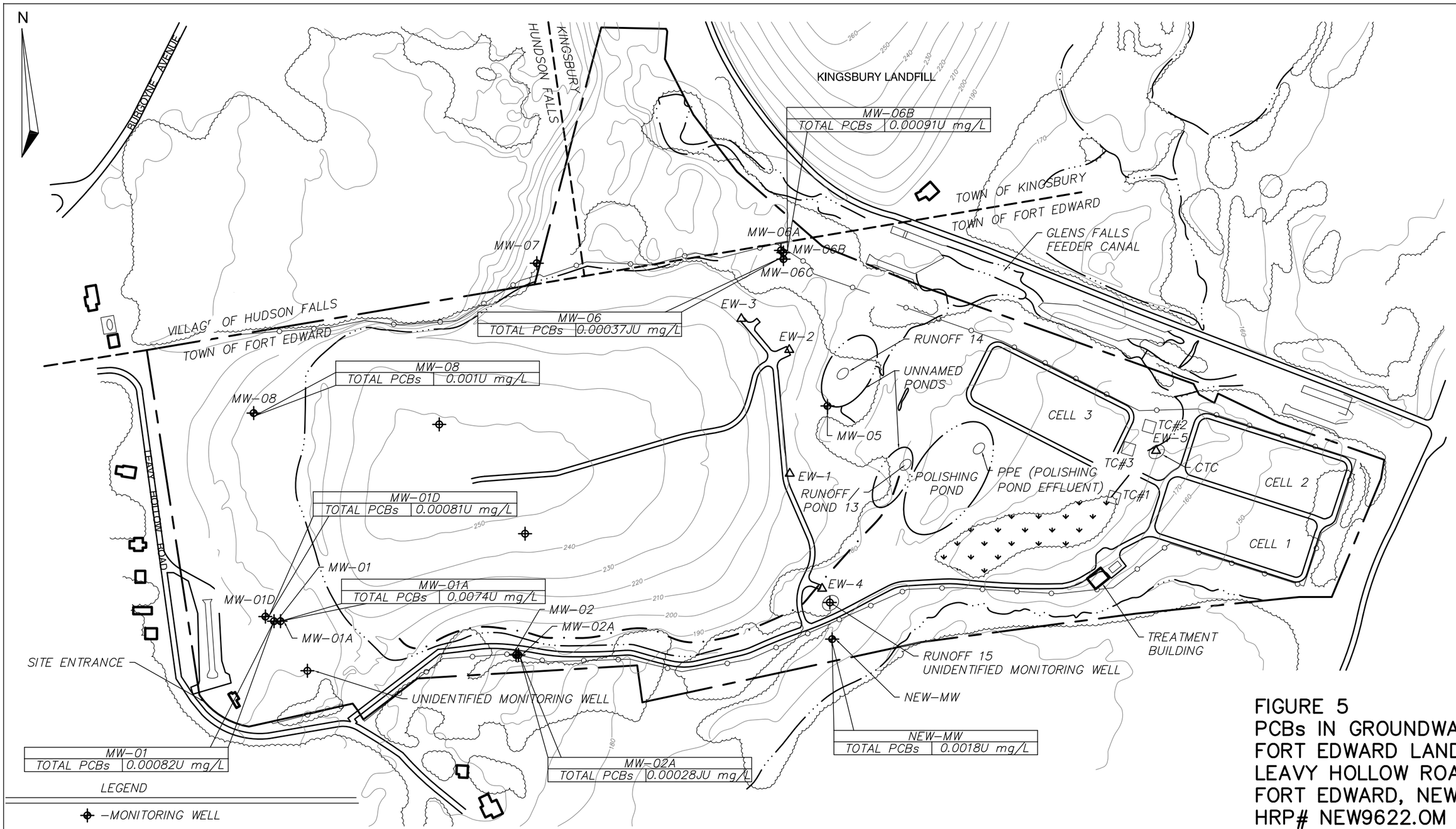

NOTE:
1. SEPTEMBER 2012 PILOT TEST COMPLETED BY AZTECH.
2. SAMPLES COLLECTED DURING SEPTEMBER 18 THROUGH SEPTEMBER 21, 2012

1" = 250'

250 0 125 250 500

APPROXIMATE SCALE IN FEET

FIGURE 5
PCBs IN GROUNDWATER
FORT EDWARD LANDFILL
LEAVY HOLLOW ROAD
FORT EDWARD, NEW YORK
HRP# NEW9622.0M
SCALE: 1" = 250'

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Farmington, CT 06032

FIGURE 6
TOTAL VOCs in GROUNDWATER
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

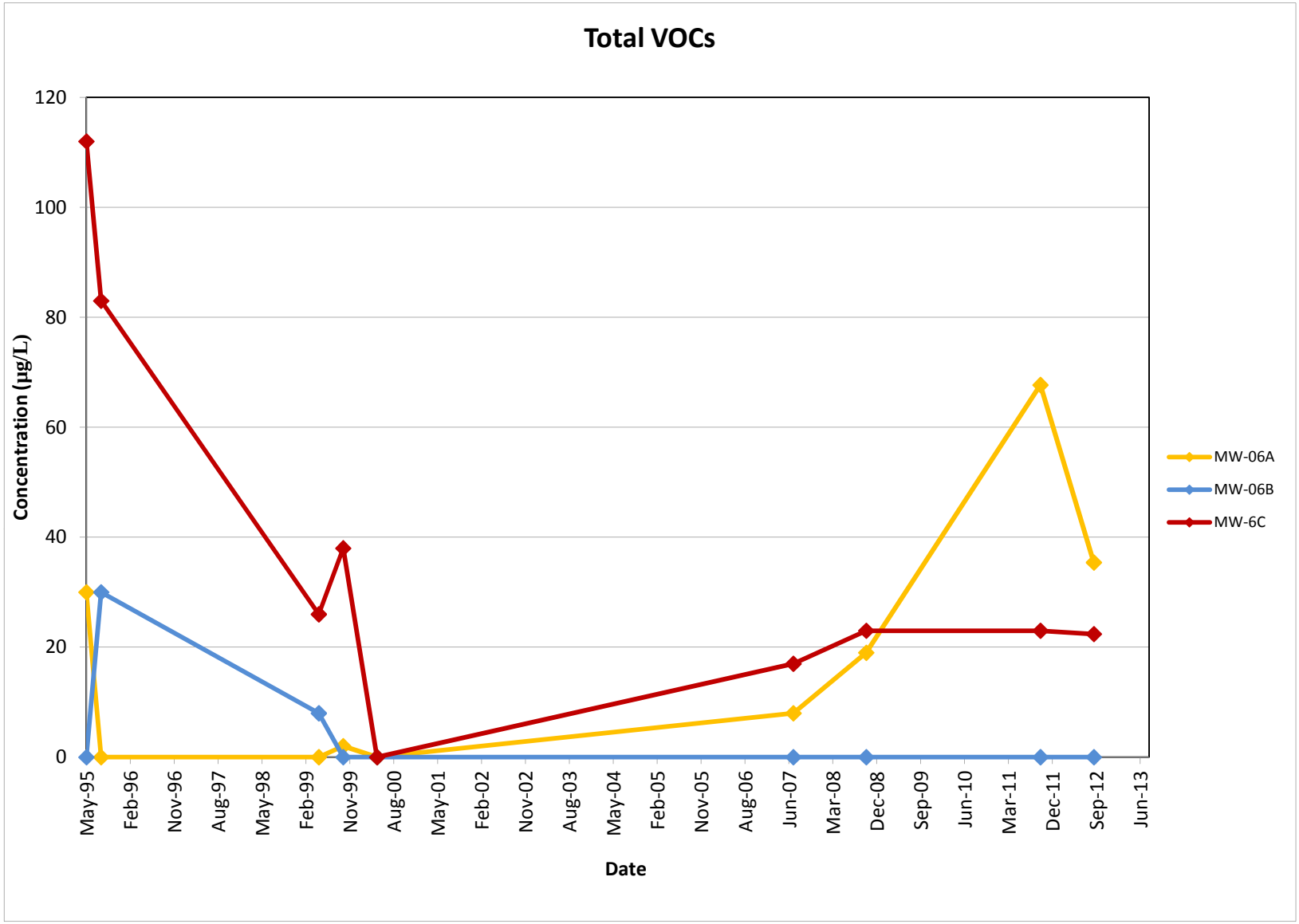

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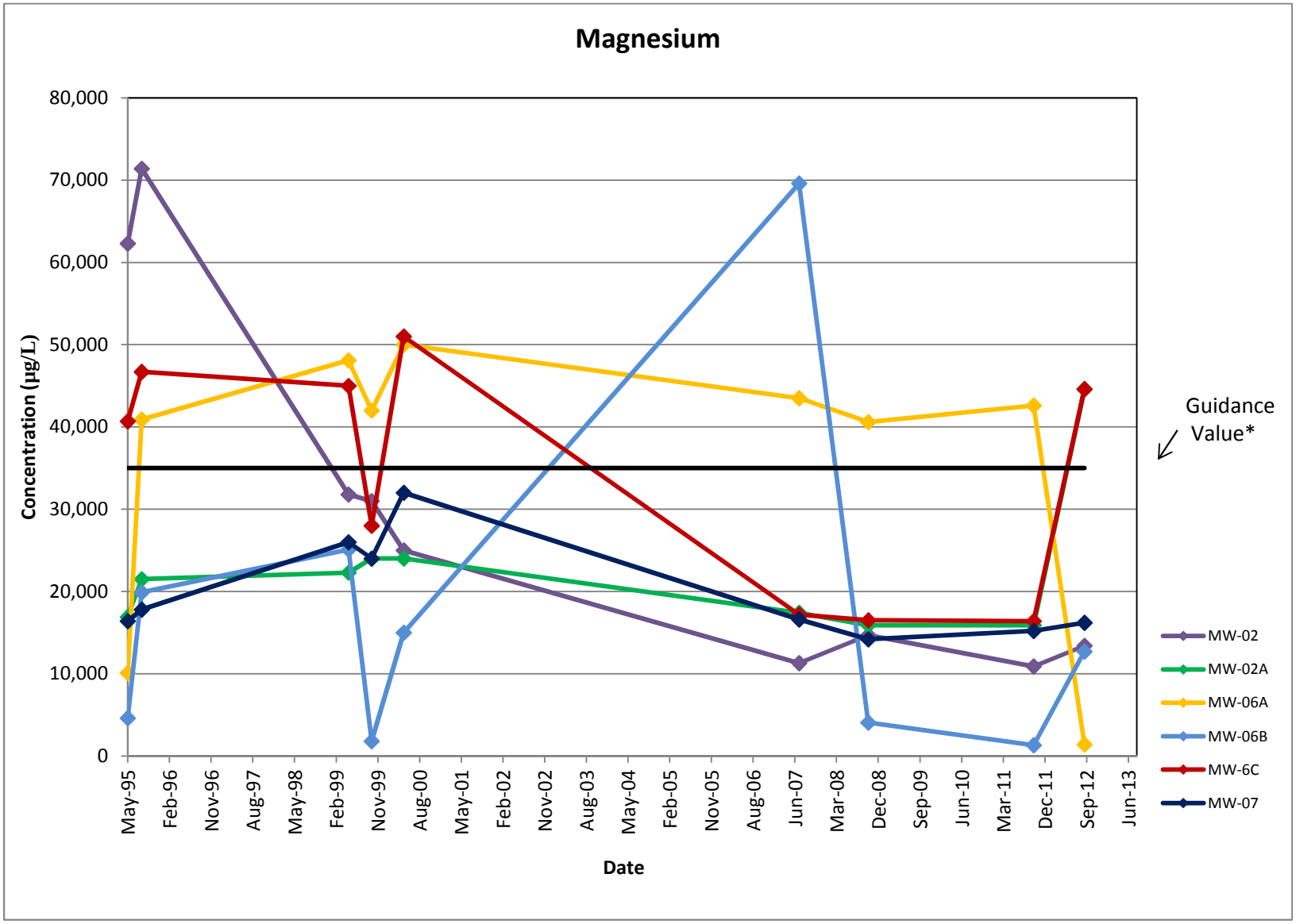
FIGURE 7
SELECTED METALS DATA in GROUNDWATER
Fort Edward Landfill
Town of Fort Edward, NY
Site No. 5-58-001



*NYSDEC TOGS 1.1.1 - Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - June 1998

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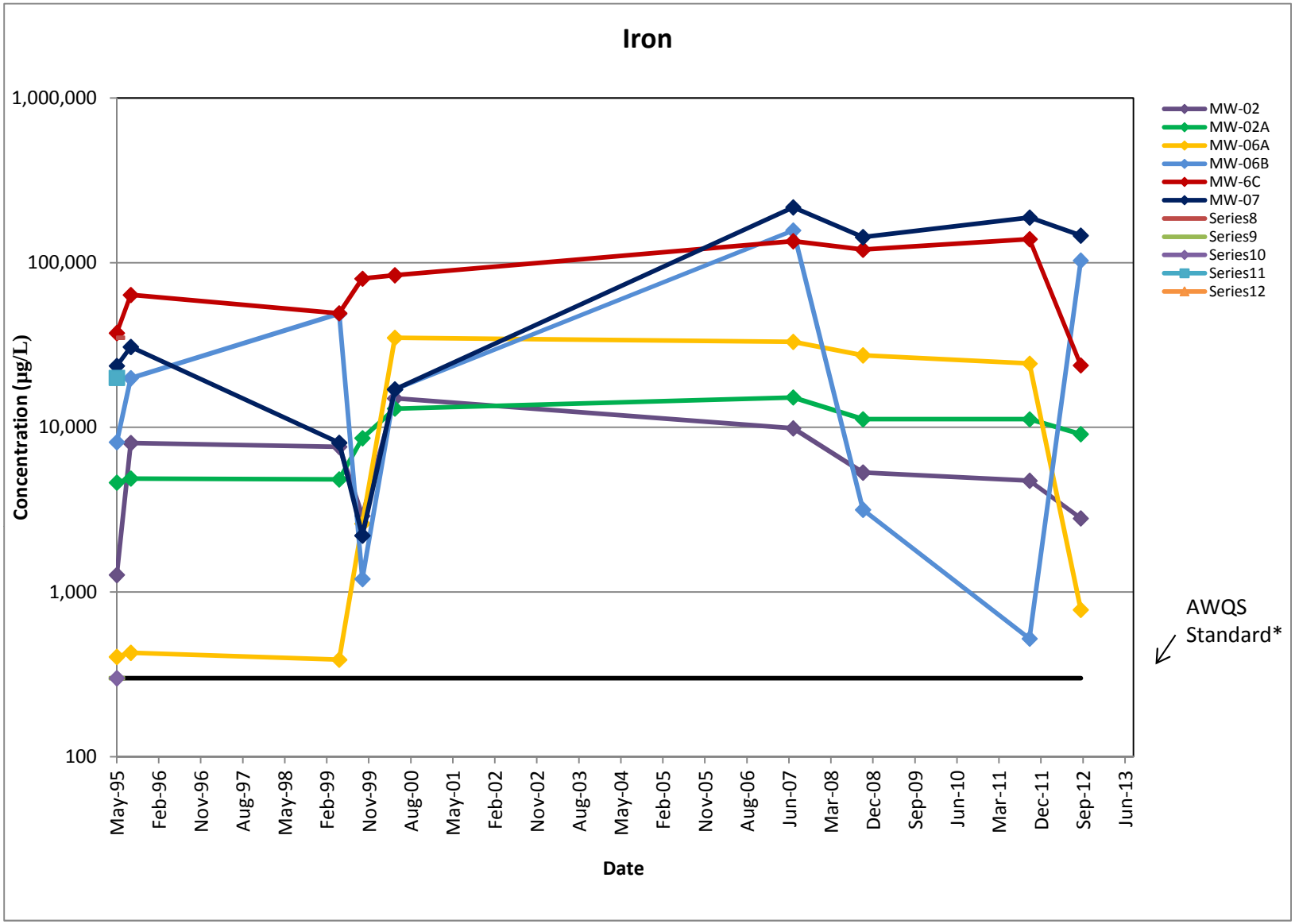
FIGURE 8
SELECTED METALS DATA in GROUNDWATER
Fort Edward Landfill
Town of Fort Edward, NY
Site No. 5-58-001



*NYSDEC TOGS 1.1.1 - Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - June 1998

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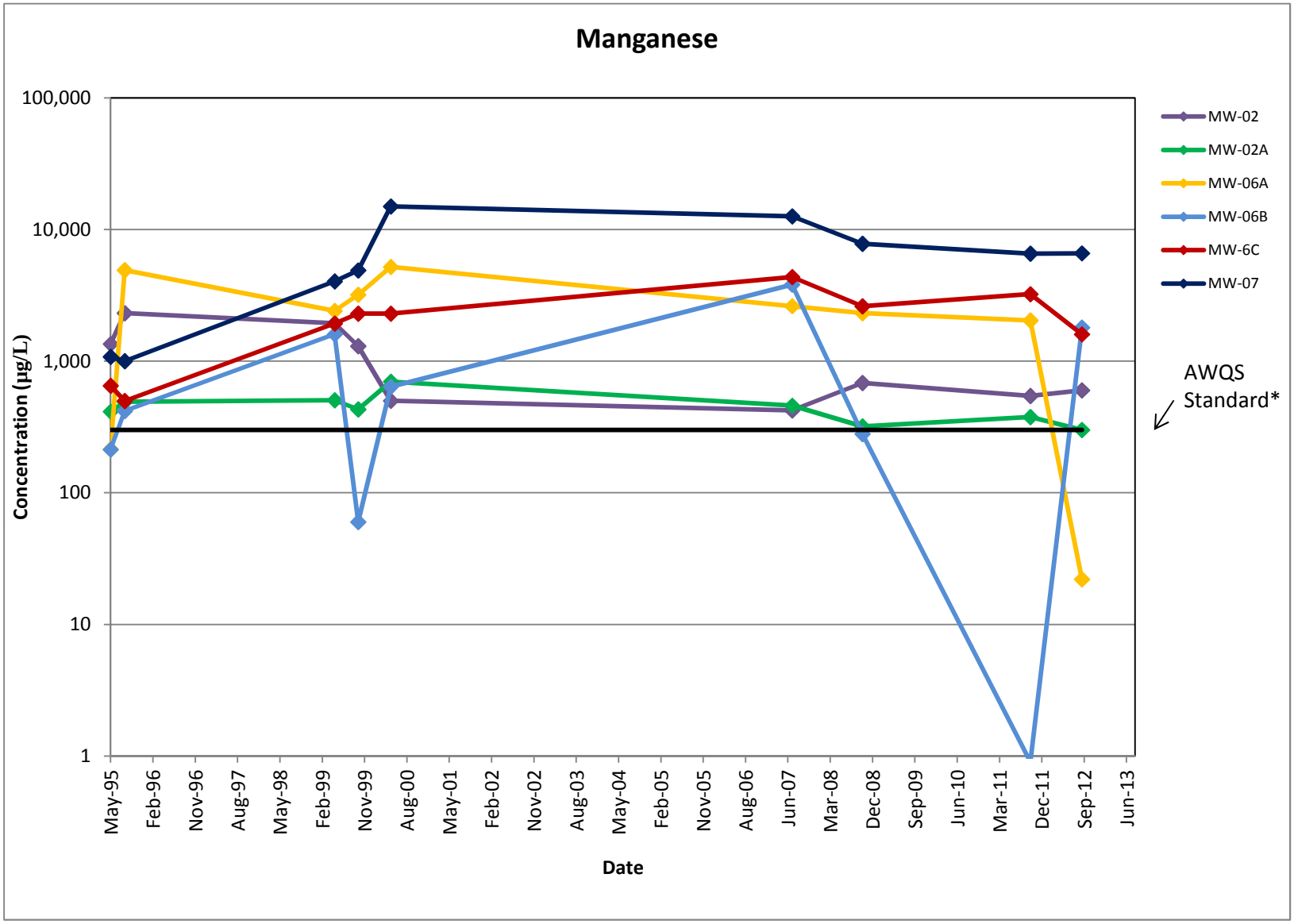
FIGURE 9
SELECTED METALS DATA in GROUNDWATER
Fort Edward Landfill
Town of Fort Edward, NY
Site No. 5-58-001



*NYSDEC TOGS 1.1.1 - Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - June 1998

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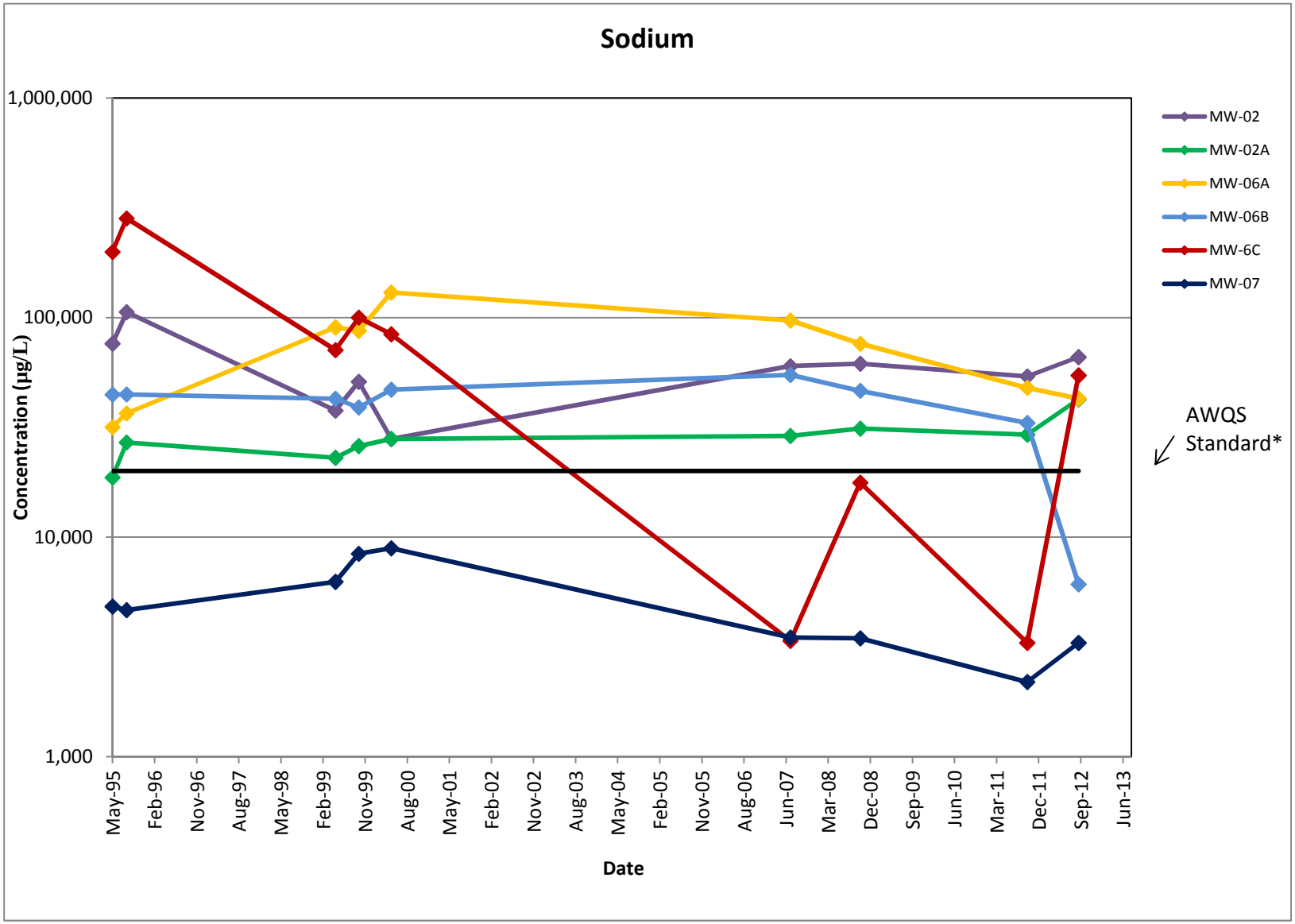
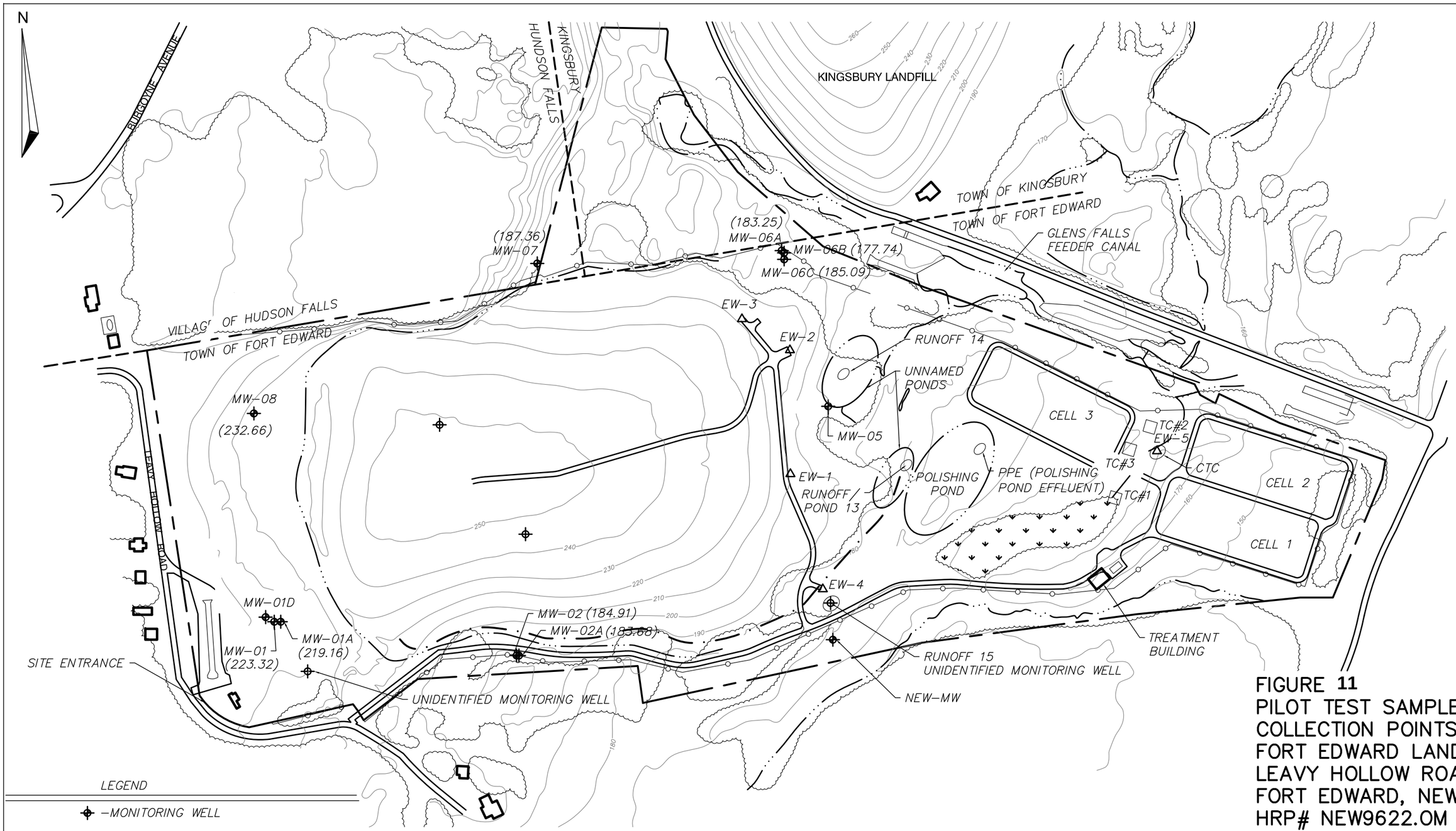
FIGURE 10
SELECTED METALS DATA in GROUNDWATER
Fort Edward Landfill
Town of Fort Edward, NY
Site No. 5-58-001



*NYSDEC TOGS 1.1.1 - Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - June 1998



LEGEND

- –MONITORING WELL
- (219.16) –REPORTED GROUNDWATER ELEVATION (MEASURED ON OCT. 27, 2008)
- 240 –TOPOGRAPHIC CONTOUR
- –STREAM/DRAINAGE/CHANNEL/POND
- △ –EXTRACTION WELL OR COLLECTION SUMP
- –GROUNDWATER COLLECTION TRENCH

NOTE:
1. SEPTEMBER 2012 PILOT TEST COMPLETED BY AZTECH.

1" = 250'

250 0 125 250 500

APPROXIMATE SCALE IN FEET

FIGURE 11
PILOT TEST SAMPLE COLLECTION POINTS
FORT EDWARD LANDFILL
LEAVY HOLLOW ROAD
FORT EDWARD, NEW YORK
HRP# NEW9622.OM
SCALE: 1" = 250'

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J:\NY\NEW9622\CAD\FIGURE 10 - SAMPLE COLLECTION POINTS.dwg, Layout1, 12/26/2012 2:12:04 PM, Adobe PDF

TABLES

HRP Associates, Inc.
197 Scott Swamp Road
Farmington, CT 06032

Table 1
Water Level Data
Fort Edward Landfill
Town of Fort Edward, New York
Site #5-58-001

Well ID	Elevation of Riser *	Groundwater Elevation July 11 and 12, 2007	Groundwater Elevation October 27, 2008	Depth to Water June 29, 2011	Groundwater Elevation June 29, 2011	Depth to Water September 18, 2012	Groundwater Elevation September 18, 2012	Well Depth (ft)
MW-1	**258.87**	221.56	220.35	35.55	223.32	40.17	218.70	48.60
MW-1A	**257.51**	218.59	227.00	38.35	219.16	40.64	216.87	65.07
MW-1D	**---**	---	---	41.68	---	47.46	---	---
MW-2	**192.59**	184.43	184.57	7.68	184.91	8.43	184.16	18.24
MW-2A	**192.4**	183.13	183.67	8.72	183.68	10.31	182.09	26.80
MW-4	**---**	---	---	---	---	5.19	---	---
MW-5	**---**	---	---	5.87	---	NA	---	10.50
MW-06(A)	**193.61**	183.17	183.11	10.36	183.25	10.56	183.05	61.30
MW-6B	**193.68**	178.68	177.74	15.94	177.74	16.49	177.19	81.70
MW-6C	**193.08**	184.85	185.00	7.99	185.09	8.60	184.48	17.90
MW-7	**203.43**	187.63	186.46	16.07	187.36	18.40	185.03	27.50
MW-08	**240.24**	232.44	232.21	7.58	232.66	8.00	232.24	12.38
NEW-MW	**---**	---	---	6.65	---	7.84	---	22.13
UI-MW-1	**---**	---	---	36.55	---	---	---	---
UI-MW-2	**---**	---	---	41.60	---	---	---	---
UI-MW-3	**---**	---	---	60.08	---	---	---	67.40
UI-MW-4	**---**	---	---	5.93	---	---	---	7.57

All measurments in feet
* Elevation Data from URS 1995 survey

NA = Well could not be located

Table 2
Groundwater Analytical Data

Fort Edward Landfill
Town of Fort Edward
Site Number 5-58-001
September 2012

Sample ID		MW-1	MW-1A	MW-1D	MW-2	MW-2A	MW-4	MW-06 (.C.)	MW-6A	MW-6B	MW-7	MW-8	NEW-MW	NYSDEC Class GA Criteria
Date Collected		**09/19/12**	**09/18/12**	**09/19/12**	**09/21/12**	**09/21/12**	**09/20/12**	**09/20/12**	**09/20/12**	**09/20/12**	**09/21/12**	**09/19/12**	**09/18/12**	
WATER-Metals (mg/L)														
Aluminum, Total	7429-90-5	0.13 J	0.58	<0.06 U	<0.06 U	<0.06 U	0.36	0.39	<0.06 U	0.2	0.2	5.4	8.6	NE
Arsenic	7440-38-2	<0.0056 U	0.008 J	<0.0056 U	<0.0056 U	<0.0056 U	0.0061 J	0.013	0.014	0.01	0.0079 J	<0.0056 U	<0.0056 U	0.025
Barium	7440-39-3	0.02	0.018	0.63 B7	0.03	0.072	0.074	0.031	0.14	0.0078	0.021	0.045	0.14	1
Beryllium	7440-41-7	<0.0003 U	<0.0003 U	<0.0003 U	<0.0003 U	<0.0003 U	<0.0003 U	<0.0003 U	<0.0003 U	<0.0003 U	<0.0003 U	0.00033 J	0.00039 J	0.003
Cadmium	7440-43-9	<0.0005 U	<0.0005 U	<0.0005 U	<0.0005 U	<0.0005 U	<0.0005 U	<0.0005 U	<0.0005 U	0.0018	<0.0005 U	<0.0005 U	0.0014	0.005
Calcium	7440-70-2	55.2 B	16.7 B	20.1 B	81.8	40.9	102	67.9	110	8.5	62.6	52.5 B	92.8 B	NS
Chromium, Total	7440-47-3	0.019	0.0066	0.0019 J	0.0035 J	0.018	0.0022 J	0.013	0.0013 J	0.0018 J	0.0099	0.0094	0.042	0.05
Cobalt	7440-48-4	<0.00063 U	<0.00063 U	<0.00063 U	0.0007 J	<0.00063 U	<0.00063 U	0.021	0.0045	0.00082 J	0.036	0.0016 J	0.0025 J	NE
Copper	7440-50-8	0.0016 J	0.0034 J	0.0016 J	0.0066 J	<0.0016 U	0.0017 J	0.0018 J	0.0017 J	0.0017 J	<0.0016 U	0.003 J	0.014	0.2
Iron	7439-89-6	0.29 B	**0.55 B**	0.19 B	**2.8**	**9.1**	**20**	**103**	**23.8**	**0.78**	**146**	**4 B**	**8.2 B**	0.3
Lead	7439-92-1	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	0.0062	0.025
Magnesium	7439-95-4	12.4 B	1.3 B	5.2 B	13.4	14.6	24.3	12.7	**44.6**	1.4	16.2	11.7 B	**178 B**	35
Manganese	7439-96-5	0.0063 B	0.029 B	0.018 B	**0.6 B**	0.3 B	**1**	**1.8**	**1.6**	0.022	**6.6 B**	0.056 B	0.081 B	0.3
Nickel	7440-02-0	0.0096 J	0.003 J	<0.0013 U	0.0031 J	0.011	0.0027 J	0.0086 J	0.015	0.0024 J	0.013	0.005 J	0.023	0.1
Potassium, Total	7440-09-7	0.98	1	3	3.8	1.8	2.4	5.9	9	0.8	1.3	1.9	3.7	NS
Sodium, Total	7440-23-5	**24.9**	**22.7**	**44.7**	**66.1 B**	**42.4 B**	**28.2**	6.1	**54.5**	**42.8**	3.3 B	13	**175**	20
Sulfur	7704-34-9	8.1	2.3	1.9	11.1	13	17.2	0.74	2.5	4.5	0.29 J	5.6	27.5	NE
Vanadium	7440-62-2	<0.0015 U	<0.0015 U	<0.0015 U	0.0057	<0.0015 U	0.0028 J	0.0036 J	0.0026 J	<0.0015 U	0.024	0.008	0.016	NE
Zinc	7440-66-6	0.0016 J B	0.012 B	0.01 B	0.004 J	0.0048 J	0.0051 J	0.004 J	<0.0015 U	0.02	0.05	0.027 B	0.033 B	2
WATER-8270C (ug/L)														
Phenol	108-95-2	<0.37 U	<0.39 U	<0.4 U	<0.37 U	<0.37 U	<0.39 U	<0.39 U	<0.37 U	<0.38 U	<0.37 U	<0.41 U	<0.39 U	1
WATER-8260B (ug/L)														
Total VOCs		ND	ND	ND	ND	ND	ND	22.4	35.41	ND	ND	ND	ND	NE
1,1,1-Trichloroethane	71-55-6	<0.82 U	<0.82 U	<0.82 U	<0.82 U	<0.82 U	<0.82 U	<0.82 U	<1.6 U	<0.82 U	<0.82 U	<0.82 U	<0.82 U	5
1,1,2-Trichloroethane	79-00-5	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.46 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	1
1,1,2-Trichlorotrifluoroethane (freon 113)	76-13-1	<0.31 U	<0.31 U	<0.31 U	<0.31 U	<0.31 U	<0.31 U	<0.31 U	<0.62 U	<0.31 U	<0.31 U	<0.31 U	<0.31 U	5
1,1-Dichloroethane	75-34-3	<0.38 U	<0.38 U	<0.38 U	<0.38 U	<0.38 U	<0.38 U	<0.38 U	<0.76 U	<0.38 U	<0.38 U	<0.38 U	<0.38 U	5
1,1-Dichloroethylene	75-35-4	<0.29 U	<0.29 U	<0.29 U	<0.29 U	<0.29 U	<0.29 U	<0.29 U	<0.58 U	<0.29 U	<0.29 U	<0.29 U	<0.29 U	5
1,2,4-Trichlorobenzene	120-82-1	<0.41 U	<0.41 U	<0.41 U	<0.41 U	<0.41 U	<0.41 U	<0.41 U	**18**	<0.41 U	<0.41 U	<0.41 U	<0.41 U	5
1,2-Dichlorobenzene	95-50-1	<0.79 U	<0.79 U	<0.79 U	<0.79 U	<0.79 U	<0.79 U	<0.79 U	<1.6 U	<0.79 U	<0.79 U	<0.79 U	<0.79 U	3
1,2-Dichloroethane	107-06-2	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.42 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	0.6
1,2-Dichloropropane	78-87-5	<0.72 U	<0.72 U	<0.72 U	<0.72 U	<0.72 U	<0.72 U	<0.72 U	(<1.4) U	<0.72 U	<0.72 U	<0.72 U	<0.72 U	1
1,3-Dichlorobenzene	541-73-1	<0.78 U	<0.78 U	<0.78 U	<0.78 U	<0.78 U	<0.78 U	<0.78 U	**7.6**	<0.78 U	<0.78 U	<0.78 U	<0.78 U	3
1,4-Dichlorobenzene	106-46-7	<0.84 U	<0.84 U	<0.84 U	<0.84 U	<0.84 U	<0.84 U	1.3	**3.5**	<0.84 U	<0.84 U	<0.84 U	<0.84 U	3
2-Butanone (MEK)	78-93-3	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<2.6 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	50
2-Hexanone (Methyl butyl ketone/MBK)	591-78-6	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<2.5 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	50
Acetone	67-64-1	<3 U	<3 U	<3 U	<3 U	<3 U	<3 U	<3 U	<6 U	<3 U	<3 U	<3 U	<3 U	50
Benzene	71-43-2	<0.41 U	<0.41 U	<0.41 U	<0.41 U	<0.41 U	<0.41 U	**2.1**	<0.82 U	<0.41 U	<0.41 U	<0.41 U	<0.41 U	1
Bromomethane	74-83-9	<0.69 U	<0.69 U	<0.69 U	<0.69 U	<0.69 U	<0.69 U	<0.69 U	<1.4 U	<0.69 U	<0.69 U	<0.69 U	<0.69 U	5
Carbon disulfide	75-15-0	<0.19 U	<0.19 U	0.41 J	<0.19 U	<0.19 U	<0.19 U	<0.19 U	<0.38 U	<0.19 U	<0.19 U	<0.19 U	<0.19 U	60
Carbon tetrachloride	56-23-5	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.54 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	5
Chlorobenzene	108-90-7	<0.75 U	<0.75 U	<0.75 U	<0.75 U	<0.75 U	<0.75 U	**18**	4.9	<0.75 U	<0.75 U	<0.75 U	<0.75 U	5
Chloroethane	75-00-3	<0.32 U	<0.32 U	<0.32 U	<0.32 U	<0.32 U	<0.32 U	1	1 J	<0.32 U	1.3	<0.32 U	<0.32 U	5
Chloromethane	74-87-3	<0.35 U	<0.35 U	<0.35 U	<0.35 U	<0.35 U	<0.35 U	<0.35 U	<0.7 U	<0.35 U	<0.35 U	<0.35 U	<0.35 U	5
cis-1,2-Dichloroethylene	156-59-2	<0.81 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U	<1.6 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U	5
Cyclohexane	110-82-7	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.36 U	<0.18 U	0.66 J	<0.18 U	<0.18 U	NE
Dichlorodifluoromethane	75-71-8	<0.68 U	<0.68 U	<0.68 U	<0.68 U	<0.68 U	<0.68 U	<0.68 U	<1.4 U	<0.68 U	<0.68 U	<0.68 U	<0.68 U	5
Ethylbenzene	100-41-4	<0.74 U	<0.74 U	<0.74 U	<0.74 U	<0.74 U	<0.74 U	<0.74 U	<1.5 U	<0.74 U	<0.74 U	<0.74 U	<0.74 U	5
Isopropylbenzene	98-82-8	<0.79 U	<0.79 U	<0.79 U	<0.79 U	<0.79 U	<0.79 U	<0.79 U	<1.6 U	<0.79 U	<0.79 U	<0.79 U	<0.79 U	5
m-,p-,o-Xylene	1330-20-7	<0.66 U	<0.66 U	<0.66 U	<0.66 U	<0.66 U	<0.66 U	<0.66 U	<1.3 U	<0.66 U	<0.66 U	<0.66 U	<0.66 U	5
Methyl isobutyl ketone (MIBK)	108-10-1	<2.1 U	<2.1 U	<2.1 U	<2.1 U	<2.1 U	<2.1 U	<2.1 U	<4.2 U	<2.1 U	<2.1 U	<2.1 U	<2.1 U	NE
Methylcyclohexane	108-87-2	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.32 U	<0.16 U	0.33 J	<0.16 U	<0.16 U	NE
Methylene chloride (Dichloromethane)	75-09-2	<0.44 U	<0.44 U	<0.44 U	<0.44 U	<0.44 U	<0.44 U	<0.44 U	<0.88 U	<0.44 U	<0.44 U	<0.44 U	<0.44 U	5
Methyltertbutyl ether	1634-04-4	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	0.19 J	0.41 J	<0.16 U	<0.16 U	<0.16 U	<0.16 U	10
Styrene	100-42-5	<0.73 U	<0.73 U	<0.73 U	<0.73 U	<0.73 U	<0.73 U	<0.73 U	<1.5 U	<0.73 U	<0.73 U	<0.73 U	<0.73 U	5
Tetrachloroethylene	127-18-4	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.72 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	5
Toluene	108-88-3	<0.51 U	1.6	<0.51 U	<0.51 U	<0.51 U	<0.51 U	<0.51 U	<1 U	<0.51 U	<0.51 U	<0.51 U	<0.51 U	5
trans-1,2-Dichloroethylene	156-60-5	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<1.8 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	5
Trichloroethylene	79-01-6	<0.46 U	<0.46 U	<0.46 U	<0.46 U	<0.46 U	<0.46 U	<0.46 U	<0.92 U	<0.46 U	<0.46 U	<0.46 U	<0.46 U	5
Trichlorofluoromethane	75-69-4	<0.88 U	<0.88 U	<0.88 U	<0.88 U	<0.88 U	<0.88 U	<0.88 U	<1.8 U	<0.88 U	<0.88 U	<0.88 U	<0.88 U	5
Vinyl chloride	75-01-4	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<1.8 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	2
WATER-Misc (mg/L)														
Alkalinity (CaCO3)	471-34-1	83.6	79.4	118	432 B	122	336	288	629	99.3 B	212	134	970	NE
Ammonia	7664-41-7	<0.009 U	0.19	1.5	0.038 B	0.11 B	0.53	3.3	8.1	0.053	0.24 B	0.032	<0.009 U	NE
Biochemical Oxygen Demand	BOD	<2 U	<2 U H	<2 U	<2 U	<2 U	6.7 b	7.4 b	2.1 b	<2 U	15.3 b	<2 U	<2 U H	NE
Chemical Oxygen Demand	COD410.1	13.8	37.2	8.5 J	7.8 J	<5 U	24.6	23.6	34.1	10.7	20.8	7.8 J	18.3	NE
Hardness, carbonate	HARDC	170	48	60	240	158	480	400	500	24	226	200	900	NE
Methane	74-82-8	<0.00022 U	0.079	0.760	0.150	0.0057	2.000	5.600	0.600	<0.00022 U	10.000	<0.00022 U	0.013	NE
Nitrate ion	14797-55-8	2.8	0.073 H	<0.011 U	<0.011 U	<0.011 U	0.047 J	<0.011 U	0.029 J	0.23	<0.011 U	<0.011 U	<0.011 U H	NE
NITRITE NITROGEN	14797-65-0	<0.02 U	0.037 J H B	<0.02 U	<0.02 U	<0.02 U	<0.02 U	<0.02 U	<0.02 U	<0.02 U	<0.02 U	<0.02 U	<0.02 U H	NE
PCB-1016	12674-11-2	<0.00017 U	0.0074	0.00081	<0.00017 U	0.00028 J	0.00047 J	0.00037 J	<0.00017 U	0.00091	<0.00017 U	<0.00019 U	0.0018	NE
PCB-1221	11104-28-2	<0.00017 U	<0.00018 U	<0.00017 U	<0.00017 U	<0.00017 U	<0.00019 U	<0.00017 U	<0.00017 U	<0.00018 U	<0.00017 U	<0.00019 U	<0.00017 U	NE
PCB-1232	11141-16-5	<0.00017 U	<0.00018 U	<0.00017 U	<0.00017 U	<0.00017 U	<0.00019 U	<0.00017 U	<0.00017 U	<0.00018 U	<0.00017 U	<0.00019 U	<0.00017 U	NE
PCB-1242	53469-21-9	0.00082	<0.00018 U	<0.00017 U	<0.00017 U	<0.00017 U	<0.00019 U	<0.00017 U	<0.00017 U	<0.00018 U	<0.00017 U	0.001	<0.00017 U	NE
PCB-1248	12672-29-6	<0.00017 U	<0.00018 U	<0.00017 U	<0.00017 U	<0.00017 U	<0.00019 U	<0.00017 U	<0.00017 U	<0.00018 U	<0.00017 U	<0.00019 U	<0.00017 U	NE
PCB-1254	11097-69-1	<0.00024 U	<0.00026 U	<0.00024 U	<0.00024 U	<0.00024 U	<0.00027 U	<0.00025 U	<0.00024 U	<0.00026 U	<0.00024 U	<0.00027 U	<0.00024 U	NE
PCB-1260	11096-82-5	<0.00024 U	<0.00026 U	<0.00024 U	<0.00024 U	<0.00024 U	<0.00027 U	<0.00025 U	<0.00024 U	<0.00026 U	<0.00024 U	<0.00027 U	<0.00024 U	NE
PCBs-Total		**0.00082 U**	**0.0074 U**	**0.00081 U**	(<0.00133) U	**0.00028 J U**	**0.00047 J U**	**0.00037 J U**	(<0.00133) U	**0.00091 U**	(<0.00133) U	**0.001 U**	**0.0018 U**	0.00009
Phosphorus	7723-14-0	<0.005 U	0.11	<0.005 U	<0.005 U	<0.005 U	0.1	0.5	<0.005 U	0.063	0.18	0.069	0.01	NE
Sulfate	14808-79-8	33.9	1.9 J	10	26.1	37	54	<1.5 U	1.7 J	13	13.1	29.2	141	NE
Sulfide	18496-25-8	0.063 J	<0.052 U	<0.052 U	<0.052 U	<0.052 U	<0.052 U	0.11	<0.052 U	<0.052 U	<0.052 U	<0.052 U	<0.052 U	NE
Total Dissolved Solids	TDS	310	103	185	509	374	452	414	646	129	449	241	1200	NE
Total Organic Carbon - Quad	7440-44-0	0.84 J	0.67 J	1.5	4.9	2.7	6	7.8	9.2	2.2	0.68 J	0.55 J	5.5	NE
Total Suspended Solids	TSS	20.4	34	<4 U	<4 U	27.2	47.6	47.6	46.4	7.2	70.4	177	438	NE

NYSDEC class GA criteria are from NYSDEC Technical and Operational Guidance Series (TOGS 1.1.1), Ambient water quality, class GA standards/guidance values from Table 1.

Bold	Sample is above Non-Detect Value but Below NYSDEC Class GA Criteria
Bold	Sample Exceeds NYSDEC Class GA Criteria
< # # #	Sample is Non-Detect at Laboratory
MW	Monitor Well
VOCs	Volatile Organic Compounds
NA	Not Analyzed
ND	Not Detected
NE	Not Established
mg/L	milligrams per liter (parts per million)
ug/l	micrograms per liter (parts per billion)
B	Results Detected in the USB
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
UJ	The analyte was not detected above the sample reporting limit: and the reporting limit is approximate
U	The analyte was analyzed for, but was not detected above the sample reporting limit

HRP Associates, Inc.
197 Scott Swamp Road
Farmington, CT 06032

Table 3
Historical Groundwater Analytical Data
May 1995 - September 2012
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

Well ID	Analyte	AWQS+GV	Sample Date								
			May-95	Aug-95	May-99	Oct-99	May-00	Jul-07	Oct-08	Oct-11	Sep-12
MW-02											
	Iron	300	**1,270**	**8,030**	**7,620**	**2,900**	**15,000**	**9,860**	**5,320**	**4,740**	**2,800**
	Magnesium	35,000 (GV)	**62,300**	**71,400**	31,800	31,000	25,000	11,300	14,700	10,900	13,400
	Manganese	300	**1,350**	**2,320**	**1,940**	**1,300**	**500**	**423**	**684**	**544**	**600**
	Sodium	20,000	**76,100**	**106,000**	**37,700**	**51,000**	**28,000**	**60,100**	**61,700**	**54,000**	**66,100**
MW-02A											
	Iron	300	**4,620**	**4,890**	**4,830**	**8,600**	**13,000**	**15,200**	**11,200**	**11,200**	**9,100**
	Magnesium	35,000 (GV)	16,900	21,500	22,300	24,000	24,000	17,400	15,900	15,900	**44,600**
	Manganese	300	**414**	**492**	**505**	**430**	**700**	**459**	**319**	**376**	**300**
	Sodium	20,000	18,700	**27,000**	**23,000**	**26,000**	**28,000**	**28,900**	**31,200**	**29,300**	**42,400**
MW-06A											
	TVOCs		30	ND	ND	2	ND	8	19	67.7	35.41
	Benzene	1	ND	ND	ND	**2**	ND	**6**	ND	ND	**2**
	Chloroform	7	**30**	ND	ND	ND	ND	2	ND	ND	ND
	Iron	300	**404**	**428**	**388**	**2,600**	**35,000**	**33,100**	**27,400**	**24,400**	**780**
	Magnesium	35,000 (GV)	10,100	**40,900**	**48,100**	**42,000**	**50,000**	**43,500**	**40,600**	**42,600**	1,400
	Manganese	300	214	**4,910**	**2,410**	**3,200**	**5,200**	**2,620**	**2,320**	**2,040**	22
	Sodium	20,000	**31,700**	**36,600**	**90,300**	**87,000**	**130,000**	**96,900**	**76,000**	**47,900**	**42,800**
MW-06B											
	TVOCs		ND	30	8	ND	ND	ND	ND	ND	ND
	Toluene	5	ND	**30**	**8**	ND	ND	ND	ND	ND	ND
	Iron	300	**8,130**	**19,900**	**49,000**	**1,200**	**17,000**	**157,000**	**3,160**	**521**	**103,000**
	Magnesium	35,000 (GV)	4,610	19,900	25,100	1,800	15,000	**69,600**	4,070	1,320	12,700
	Manganese	300	213	**419**	**1,600**	60	**640**	**3,820**	280	ND	**1,800**
	Sodium	20,000	**44,600**	**44,700**	**42,700**	**39,000**	**47,000**	**54,800**	**46,400**	**33,100**	6,100
MW-6C											
	TVOCs		112	83	26	38	ND	17	23	23	22.4
	Benzene	1	**13**	**14**	**2**	**4**	ND	ND	ND	ND	ND
	Chlorobenzene	5	**24**	**29**	**24**	**34**	ND	**17**	**23**	**23**	ND
	Xylene	5	**68**	**40**	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	2	**7**	ND	ND	ND	ND	ND	ND	ND	ND
	Iron	300	**37,400**	**63,700**	**49,300**	**80,000**	**84,000**	**135,000**	**120,000**	**139,000**	**23,800**
	Magnesium	35,000 (GV)	**40,700**	**46,700**	**45,000**	28,000	**51,000**	17,200	16,500	16,400	**44,600**
	Manganese	300	**651**	**499**	**1,930**	**2,300**	**2,300**	**4,360**	**2,610**	**3,230**	**1,600**
	Sodium	20,000	**199,000**	**283,000**	**71,100**	**100,000**	**84,000**	3,370	17,700	3,300	**54,500**
MW-07											
	Iron	300	**23,600**	**30,800**	**8,060**	**2,200**	**17,000**	**217,000**	**143,000**	**188,000**	**146,000**
	Magnesium	35,000 (GV)	16,400	17,800	26,000	24,000	32,000	16,600	14,200	15,200	16,200
	Manganese	300	**1,080**	**1,000**	**4,040**	**4,900**	**15,000**	**12,600**	**7,800**	**6,570**	**6,600**
	Sodium	20,000	4,830	4,650	6,260	8,400	8,900	3,490	3,460	2,190	3,300

Notes
All Concentrations are in µg/L
ND = Not detected above Method Detection Limit
95-'00 Data Source: Final Evaluation and Assessment Report. Fort Edward Landfill. NYSDEC. July 2001. URS Consultants
Highlighted cells - Sample Exceeds NYSDEC Class GA Criteria

Table 4
Pilot Test Analytical Data

Fort Edward Landfill
Town of Fort Edward
Site Number 5-58-001
September 2012

Sample ID		NYSDEC Class GA Criteria	POND 13	PPE (Polishing Pond Effluent)	RUNOFF 14	RUNOFF 15	RUNOFF 15	CTC	CELL 1	TC-1	CELL 2	TC-2	CELL 3	TC-3	COMBINED INFLUENT		
Date Collected			09/26/12	09/26/12	09/26/12	09/26/12	09/28/12	09/26/12	10/17/12	09/26/12	10/17/12	09/26/12	10/17/12	09/26/12	09/20/12	09/26/12	09/27/12
WATER-Metals (mg/L)																	
Aluminum, Total	7429-90-5	NE	NA	NA	NA	NA	0.3	NA	NA	NA	NA	NA	NA	NA	0.082 J	<0.06 U	<0.06 U
Antimony	7440-36-0	0.003	NA	NA	NA	NA	(<0.0068) U	NA	(<0.0068) U	NA	(<0.0068) U	NA	(<0.0068) U	NA	(<0.0068) U	(<0.0068) U	(<0.0068) U
Arsenic	7440-38-2	0.025	NA	NA	NA	NA	<0.0056 U	NA	**0.1**	NA	<0.0056 U	NA	<0.0056 U	NA	<0.0056 U	<0.0056 U	<0.0056 U
Barium	7440-39-3	1	NA	NA	NA	NA	0.059	NA	NA	NA	NA	NA	NA	NA	0.043	0.13	0.11
Beryllium	7440-41-7	0.003	NA	NA	NA	NA	**0.0047**	NA	0.00042 J	NA	<0.0003 U	NA	0.0003 J	NA	<0.0003 U	<0.0003 U	<0.0003 U
Cadmium	7440-43-9	0.005	NA	NA	NA	NA	<0.0005 U	NA	0.00056 J	NA	<0.0005 U	NA	<0.0005 U	NA	<0.0005 U	<0.0005 U	<0.0005 U
Calcium	7440-70-2	NE	NA	NA	NA	NA	98.2	NA	NA	NA	NA	NA	NA	NA	95.3	103 B	97.7
Chromium, Total	7440-47-3	0.05	NA	NA	NA	NA	<0.001 U	NA	0.004	NA	<0.001 U	NA	0.0015 J	NA	0.0038 J	<0.001 U	<0.001 U
Cobalt	7440-48-4	NS	NA	NA	NA	NA	0.00068 J	NA	NA	NA	NA	NA	NA	NA	0.00098 J	0.0044	0.0037 J
Copper	7440-50-8	0.2	NA	NA	NA	NA	<0.0016 U	NA	0.0086 J	NA	<0.0016 U	NA	<0.0016 U	NA	<0.0016 U	0.0069 J	<0.0016 U
Iron	7439-89-6	0.3	NA	NA	NA	NA	**19**	NA	NA	NA	NA	NA	NA	NA	**1.6**	**40.7**	**25.5**
Lead	7439-92-1	0.025	NA	NA	NA	NA	<0.003 U	NA	0.012	NA	<0.003 U	NA	<0.003 U	NA	<0.003 U	0.0034 J	<0.003 U
Magnesium	7439-95-4	35	NA	NA	NA	NA	22.5	NA	NA	NA	NA	NA	NA	NA	24.1	29.5	29
Manganese	7439-96-5	0.3	NA	NA	NA	NA	**1.5 B**	NA	NA	NA	NA	NA	NA	NA	**0.93**	**2**	**1.9 B**
Nickel	7440-02-0	0.1	NA	NA	NA	NA	0.0028 J	NA	0.0059 J	NA	0.0023 J	NA	0.0028 J	NA	0.0034 J	0.012	0.0092 J
Potassium, Total	7440-09-7	NS	NA	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	3.2	12.7	11.8
Sodium, Total	7440-23-5	20	NA	NA	NA	NA	**30.1**	NA	NA	NA	NA	NA	NA	NA	**29.9**	**77.8**	**74.6**
Sulfur	7704-34-9	NE	15.3	4.3	24.5	10.2	8.9	8.9	NA	9.6	NA	7.7	NA	0.2 J	6.1	4	4
Thallium	7440-28-0	0.0005	NA	NA	NA	NA	(<0.01) U	NA	(<0.01) U	NA	(<0.01) U	NA	(<0.01) U	NA	(<0.01) U	(<0.01) U	(<0.01) U
Vanadium	7440-62-2	NE	NA	NA	NA	NA	<0.0015 U	NA	NA	NA	NA	NA	NA	NA	0.002 J	0.0077	<0.0015 U
Zinc	7440-66-6	2	NA	NA	NA	NA	0.0078 J	NA	1.6	NA	0.034	NA	0.018	NA	0.0069 J	0.096	0.064
WATER-8270C (ug/L)																	
Phenol	108-95-2	1	NA	NA	NA	NA	<0.37 U	NA	NA	NA	NA	NA	NA	NA	<0.37 U	<0.37 U	<0.37 U
WATER-8260B (ug/L)																	
1,1,1-Trichloroethane	71-55-6	5	NA	NA	NA	NA	<0.82 U	NA	<0.82 U	NA	<0.82 U	NA	<0.82 U	NA	<0.82 U	<0.82 U	<0.82 U
1,1,2-Trichloroethane	79-00-5	1	NA	NA	NA	NA	<0.23 U	NA	<0.23 U	NA	<0.23 U	NA	<0.23 U	NA	<0.23 U	<0.23 U	<0.23 U
1,1,2-Trichlorotrifluoroethane (freon 113)	76-13-1	5	NA	NA	NA	NA	<0.31 U	NA	<0.31 U	NA	<0.31 U	NA	<0.31 U	NA	<0.31 U	<0.31 U	<0.31 U
1,1-Dichloroethane	75-34-3	5	NA	NA	NA	NA	<0.38 U	NA	<0.38 U	NA	<0.38 U	NA	<0.38 U	NA	<0.38 U	<0.38 U	<0.38 U
1,1-Dichloroethylene	75-35-4	5	NA	NA	NA	NA	<0.29 U	NA	<0.29 U	NA	<0.29 U	NA	<0.29 U	NA	<0.29 U	<0.29 U	<0.29 U
1,2,4-Trichlorobenzene	120-82-1	5	NA	NA	NA	NA	<0.41 U	NA	<0.41 U	NA	<0.41 U	NA	<0.41 U	NA	<0.41 U	<0.41 U	<0.41 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	NA	NA	NA	NA	(<0.39) U	NA	(<0.39) U	NA	(<0.39) U	NA	(<0.39) U	NA	(<0.39) U	(<0.39) U	(<0.39) U
1,2-Dibromoethane (EDB) (ethylene dibromide)	106-93-4	0.0006	NA	NA	NA	NA	(<0.73) U	NA	(<0.73) U	NA	(<0.73) U	NA	(<0.73) U	NA	(<0.73) U	(<0.73) U	(<0.73) U
1,2-Dichlorobenzene	95-50-1	3	NA	NA	NA	NA	<0.79 U	NA	<0.79 U	NA	<0.79 U	NA	<0.79 U	NA	<0.79 U	<0.79 U	<0.79 U
1,2-Dichloroethane	107-06-2	0.6	NA	NA	NA	NA	<0.21 U	NA	<0.21 U	NA	<0.21 U	NA	<0.21 U	NA	<0.21 U	<0.21 U	<0.21 U
1,2-Dichloropropane	78-87-5	1	NA	NA	NA	NA	<0.72 U	NA	<0.72 U	NA	<0.72 U	NA	<0.72 U	NA	<0.72 U	<0.72 U	<0.72 U
1,3-Dichlorobenzene	541-73-1	3	NA	NA	NA	NA	<0.78 U	NA	<0.78 U	NA	<0.78 U	NA	<0.78 U	NA	<0.78 U	<0.78 U	<0.78 U
1,4-Dichlorobenzene	106-46-7	3	NA	NA	NA	NA	<0.84 U	NA	<0.84 U	NA	<0.84 U	NA	<0.84 U	NA	<0.84 U	<0.84 U	<0.84 U
2-Butanone (MEK)	78-93-3	50	NA	NA	NA	NA	<1.3 U	NA	<1.3 U	NA	<1.3 U	NA	<1.3 U	NA	<1.3 U	11	22
2-Hexanone (Methyl butyl ketone/MBK)	591-78-6	50	NA	NA	NA	NA	<1.2 U	NA	<1.2 U	NA	<1.2 U	NA	<1.2 U	NA	<1.2 U	<1.2 U	<1.2 U
Acetone	67-64-1	50	NA	NA	NA	NA	<3 U	NA	4.6 J	NA	<3 U	NA	<3 U	NA	<3 U	5.7 J	7.1 J
Benzene	71-43-2	1	NA	NA	NA	NA	<0.41 U	NA	<0.41 U	NA	<0.41 U	NA	<0.41 U	NA	<0.41 U	**2.6**	**3**
Bromomethane	74-83-9	5	NA	NA	NA	NA	<0.69 U	NA	<0.69 U	NA	<0.69 U	NA	<0.69 U	NA	<0.69 U	<0.69 U	<0.69 U
Carbon disulfide	75-15-0	60	NA	NA	NA	NA	<0.19 U	NA	<0.19 U	NA	<0.19 U	NA	<0.19 U	NA	<0.19 U	<0.19 U	<0.19 U
Carbon tetrachloride	56-23-5	5	NA	NA	NA	NA	<0.27 U	NA	<0.27 U	NA	<0.27 U	NA	<0.27 U	NA	<0.27 U	<0.27 U	<0.27 U
Chlorobenzene	108-90-7	5	NA	NA	NA	NA	<0.75 U	NA	<0.75 U	NA	<0.75 U	NA	<0.75 U	NA	<0.75 U	3.2	3.2
Chloroethane	75-00-3	5	NA	NA	NA	NA	<0.32 U	NA	<0.32 U	NA	<0.32 U	NA	<0.32 U	NA	<0.32 U	1.2	<0.32 U
Chloromethane	74-87-3	5	NA	NA	NA	NA	<0.35 U	NA	<0.35 U	NA	<0.35 U	NA	<0.35 U	NA	<0.35 U	<0.35 U	<0.35 U
cis-1,2-Dichloroethylene	156-59-2	5	NA	NA	NA	NA	<0.81 U	NA	<0.81 U	NA	<0.81 U	NA	<0.81 U	NA	<0.81 U	**22**	**39**
Cyclohexane	110-82-7	NE	NA	NA	NA	NA	<0.18 U	NA	<0.18 U	NA	<0.18 U	NA	<0.18 U	NA	<0.18 U	<0.18 U	<0.18 U
Dichlorodifluoromethane	75-71-8	5	NA	NA	NA	NA	<0.68 U	NA	<0.68 U	NA	<0.68 U	NA	<0.68 U	NA	<0.68 U	<0.68 U	<0.68 U
Ethylbenzene	100-41-4	5	NA	NA	NA	NA	<0.74 U	NA	<0.74 U	NA	<0.74 U	NA	<0.74 U	NA	<0.74 U	1.6	2.1
Isopropylbenzene	98-82-8	5	NA	NA	NA	NA	<0.79 U	NA	<0.79 U	NA	<0.79 U	NA	<0.79 U	NA	<0.79 U	0.86 J	0.95 J
m-,p-,o-Xylene	1330-20-7	5	NA	NA	NA	NA	<0.66 U	NA	<0.66 U	NA	<0.66 U	NA	<0.66 U	NA	<0.66 U	**7.7**	**11**
Methyl isobutyl ketone (MIBK)	108-10-1	NE	NA	NA	NA	NA	<2.1 U	NA	<2.1 U	NA	<2.1 U	NA	<2.1 U	NA	<2.1 U	16	31
Methylcyclohexane	108-87-2	NE	NA	NA	NA	NA	<0.16 U	NA	<0.16 U	NA	<0.16 U	NA	<0.16 U	NA	<0.16 U	0.37 J	0.27 J
Methylene chloride (Dichloromethane)	75-09-2	5	NA	NA	NA	NA	<0.44 U	NA	<0.44 U	NA	<0.44 U	NA	<0.44 U	NA	<0.44 U	<0.44 U	<0.44 U
Methyltertbutyl ether	1634-04-4	10	NA	NA	NA	NA	<0.16 U	NA	<0.16 U	NA	<0.16 U	NA	<0.16 U	NA	<0.16 U	0.22 J	0.27 J
Styrene	100-42-5	5	NA	NA	NA	NA	<0.73 U	NA	<0.73 U	NA	<0.73 U	NA	<0.73 U	NA	<0.73 U	<0.73 U	<0.73 U
Tetrachloroethylene	127-18-4	5	NA	NA	NA	NA	<0.36 U	NA	<0.36 U	NA	<0.36 U	NA	<0.36 U	NA	<0.36 U	<0.36 U	<0.36 U
Toluene	108-88-3	5	NA	NA	NA	NA	<0.51 U	NA	<0.51 U	NA	<0.51 U	NA	<0.51 U	NA	<0.51 U	3.3	4.4
trans-1,2-Dichloroethylene	156-60-5	5	NA	NA	NA	NA	<0.9 U	NA	<0.9 U	NA	<0.9 U	NA	<0.9 U	NA	<0.9 U	<0.9 U	<0.9 U
Trichloroethylene	79-01-6	5	NA	NA	NA	NA	<0.46 U	NA	<0.46 U	NA	<0.46 U	NA	<0.46 U	NA	<0.46 U	<0.46 U	<0.46 U
Trichlorofluoromethane	75-69-4	5	NA	NA	NA	NA	<0.88 U	NA	<0.88 U	NA	<0.88 U	NA	<0.88 U	NA	<0.88 U	<0.88 U	<0.88 U
Vinyl chloride	75-01-4	2	NA	NA	NA	NA	<0.9 U	NA	<0.9 U	NA	<0.9 U	NA	<0.9 U	NA	<0.9 U	**43**	**74**
1,3-Dichloropropene (Total)		0.4	NA	NA	NA	NA	(<0.73) U	NA	(<0.73) U	NA	(<0.73) U	NA	(<0.73) U	NA	(<0.73) U	(<0.73) U	(<0.73) U
WATER-Misc (mg/L)																	
Alkalinity (CaCO3)	471-34-1	NE	19.4	340	310	315	348 B	356	NA	358	NA	328	NA	429	273 J	379	366
Ammonia	7664-41-7	NE	0.098	<0.009 U	2.5	1.9	1.2	0.22	NA	0.14	NA	0.25	NA	0.24	<0.009 U	18.2	24.7
Biochemical Oxygen Demand	BOD	NE	4.7 b	2.4 b	<2 U	3.7 b	4.1 b	<2 U	NA	<2 U	NA	<2 U	NA	<2 U	<2 U	4.6 b	9 b
Chemical Oxygen Demand	COD410.1	NE	81.8	32.2	69.1	18.3	13.2	44.2	NA	38.5	NA	44.8	NA	181	23	59.3	79.6
Hardness, carbonate	HARDC	NE	80	300	340	330	320	340	NA	378	NA	300	NA	430	420	350	360
Methane	74-82-8	NE	0.0077	0.008	0.009	0.700	1.000	0.0055	NA	0.004	NA	0.0047	NA	<0.00022 U	0.048	3.200	3.700
Nitrate ion	14797-55-8	NE	<0.011 U	<0.011 U	0.047 J	0.04 J	<0.011 U	0.048 J	NA	0.093	NA	0.024 J	NA	0.13	<0.011 U	0.017 J	<0.011 U
NITRITE NITROGEN	14797-65-0	NE	<0.02 U	<0.02 U	<0.02 U	<0.02 U	<0.02 U	<0.02 U	NA	<0.02 U	NA	<0.02 U	NA	<0.02 U	<0.02 U	0.065	0.082
PCB-1016	12674-11-2	NE	NA	NA	NA	NA	<0.00017 U	NA	<0.000036 U	NA	<0.000036 U	NA	<0.000036 U	NA	<0.00017 U	0.036	<0.00017 U
PCB-1221	11104-28-2	NE	NA	NA	NA	NA	<0.00017 U	NA	<0.000036 U	NA	<0.000036 U	NA	<0.000036 U	NA	<0.00017 U	0.036	<0.00017 U
PCB-1232	11141-16-5	NE	NA	NA	NA	NA	<0.00017 U	NA	<0.000036 U	NA	<0.000036 U	NA	<0.000036 U	NA	<0.00017 U	<0.0017 U	<0.00017 U
PCB-1242	53469-21-9	NE	NA	NA	NA	NA	<0.00017 U	NA	<0.000036 U	NA	<0.000036 U	NA	<0.000036 U	NA	<0.00017 U	<0.0017 U	<0.00017 U
PCB-1248	12672-29-6	NE	NA	NA	NA	NA	<0.00017 U	NA	<0.000036 U	NA	<0.000036 U	NA	<0.000036 U	NA	<0.00017 U	<0.0017 U	<0.00017 U
PCB-1254	11097-69-1	NE	NA	NA	NA	NA	<0.00024 U	NA	<0.000029 U	NA	<0.000029 U	NA	<0.000029 U	NA	<0.00024 U	<0.0024 U	<0.00024 U
PCB-1260	11096-82-5	NE	NA	NA	NA	NA	<0.00024 U	NA	<0.000029 U	NA	<0.000029 U	NA	<0.000029 U	NA	<0.00024 U	<0.0024 U	<0.00024 U
PCBs-Total		0.00009	NA	NA	NA	NA	(<0.00133) U	NA	(<0.000238) U	NA	(<0.000238) U	NA	(<0.000238) U	NA	(<0.00133) U	**0.072 U**	(<0.00133) U
Phosphorus	7723-14-0	NE	0.39	0.023	0.014	0.01	0.012	4	NA	0.27	NA	0.41	NA	0.9	<0.005 U	0.13	0.31
Sulfate	14808-79-8	NE	49.7	<1.5 U	95.1	41.8	37 B	1.9 J	NA	1.9 J	NA	1.5 J	NA	<1.5 U	<1.5 U	5.7	1.9 J
Sulfide	18496-25-8	NE	<0.052 U	<0.052 U	<0.052 U	<0.052 U	<0.052 U	<0.052 U	NA	<0.052 U	NA	<0.052 U	NA	<0.052 U	<0.052 U	<0.052 U	<0.052 U
Total Dissolved Solids	TDS	NE	NA	NA	NA	NA	481	NA	465	NA	457	NA	449	NA	401	622	626
Total Organic Carbon - Quad	7440-44-0	NE	25.8	10.7	22.1	5.2	5.8 B	14.2	NA	12.9	NA	16.1	NA	13.4	10.3	20.2	20.4
Total Suspended Solids	TSS	NE	NA	NA	NA	NA	36	NA	1310	NA	7.6	NA	<4 U	NA	4	14	38
Phenolics, Total Recoverable	TOTPHEN	NE	NA	NA	NA	NA	NA	NA	0.015	NA	0.012	NA	0.0056 J	NA	NA	NA	NA

NYSDEC class GA criteria are from NYSDEC Technical and Operational Guidance Series (TOGS 1.1.1), Ambient water quality, class GA standards/guidance values from Table 1.

Bold — ds NYSDEC Class GA Criteria
Bold — Value but Below NYSDEC Class GA Criteria
<# # # # — ion-Detect at Laboratory
MW — Monitor Well

NE Not Established
NA Not Analyzed
ug/l micrograms per liter
VOCs tile Organic Compounds
J d; the associated numerical value is the approximate concentration of the analyte in the sample
UJ : detected above the sample reporting limit: and the reporting limit is approximate
U was analyzed for, but was not detected above the sample reporting limit

Table 4
Pilot Test Analytical Data

Fort Edward Landfill
Town of Fort Edward
Site Number 5-58-001
September 2012

Sample ID		NYSDEC Class GA Criteria	INFLUENT	EFFLUENT	EW-1	EW-1	EW-1	EW-1RE	EW-2	EW-2	EW-2	EW-3	EW-3	EW-3	EW-3RE	EW4	EW-4	EW-4
Date Collected			**10/17/12**	**10/18/12**	**09/18/12**	**09/25/12**	**09/27/12**	**09/18/12**	**09/17/12**	**09/25/12**	**09/27/12**	**09/17/12**	**09/25/12**	**09/27/12**	**09/27/12**	**09/20/12**	**09/25/12**	**09/27/12**
WATER-Metals (mg/L)																		
Aluminum, Total	7429-90-5	NE	NA	NA	0.18 J	1.1	0.11 J	NA	<0.06 U	<0.06 U	<0.06 U	0.21	<0.06 U	<0.06 U	NA	<0.06 U	<0.06 U	<0.06 U
Antimony	7440-36-0	0.003	(<0.0068) U	(<0.0068) U	(<0.0068) U	(<0.0068) U	(<0.0068) U	NA	(<0.0068) U	(<0.0068) U	(<0.0068) U	(<0.0068) U	(<0.0068) U	(<0.0068) U	NA	(<0.0068) U	(<0.0068) U	(<0.0068) U
Arsenic	7440-38-2	0.025	<0.0056 U	<0.0056 U	<0.0056 U	<0.0056 U	<0.0056 U	NA	**0.055**	**0.03**	0.025	0.015	<0.0056 U	<0.0056 U	NA	<0.0056 U	<0.0056 U	<0.0056 U
Barium	7440-39-3	1	NA	NA	0.32	0.49	0.44	NA	0.29	0.11	0.12	0.38	0.38	0.34	NA	0.056	0.057	0.063
Beryllium	7440-41-7	0.003	<0.0003 U	0.00032 J	<0.0003 U	<0.0003 U	<0.0003 U	NA	<0.0003 U	<0.0003 U	<0.0003 U	<0.0003 U	<0.0003 U	<0.0003 U	NA	<0.0003 U	<0.0003 U	<0.0003 U
Cadmium	7440-43-9	0.005	<0.0005 U	<0.0005 U	0.00051 J	0.004	0.0014	NA	<0.0005 U	<0.0005 U	<0.0005 U	0.0015	<0.0005 U	<0.0005 U	NA	<0.0005 U	<0.0005 U	<0.0005 U
Calcium	7440-70-2	NE	NA	NA	124 B	150 B	144	NA	110	133 B	133	89.2	91.3 B	84.3	NA	86.3	89.1 B	89.2
Chromium, Total	7440-47-3	0.05	<0.001 U	<0.001 U	0.0057	0.0079	0.0036 J	NA	0.0013 J	<0.001 U	<0.001 U	**0.76**	0.01	0.016	NA	0.0025 J	<0.001 U	0.0031 J
Cobalt	7440-48-4	NS	NA	NA	0.0047	0.0086	0.0082	NA	0.0021 J	0.0068	0.008	0.027	0.019	0.018	NA	0.0062	0.0028 J	0.0028 J
Copper	7440-50-8	0.2	**0.53**	0.0025 J	0.0093 J	0.0093 J	0.0029 J	NA	0.0034 J	0.0045 J	0.004 J	**0.58**	0.0021 J	0.0043 J	NA	<0.0016 U	<0.0016 U	0.0038 J
Iron	7439-89-6	0.3	NA	NA	**68 B**	**83**	**76.6**	NA	**53.7**	**16.9**	**15.4**	**40.2**	**32.7**	**28.3**	NA	**28.8**	**32.2**	**21.6**
Lead	7439-92-1	0.025	0.022	<0.003 U	0.0047 J	0.023	0.018	NA	<0.003 U	<0.003 U	<0.003 U	**0.036**	<0.003 U	<0.003 U	NA	<0.003 U	<0.003 U	<0.003 U
Magnesium	7439-95-4	35	NA	NA	**43 B**	**59.9**	**61.8**	NA	**35.9**	**42.9**	**46**	**46.2**	**44.3**	**42.4**	NA	21.8	21.6	22.9
Manganese	7439-96-5	0.3	NA	NA	**1.5 B**	**0.84 B**	**0.73 B**	NA	0.24	**0.62 B**	**0.69 B**	0.22	0.17 B	0.16 B	NA	**2.1**	**2.3 B**	**2.1 B**
Nickel	7440-02-0	0.1	0.0039 J	0.0023 J	0.023	0.033	0.03	NA	0.0065 J	0.022	0.022	**0.36**	**0.19**	**0.17**	NA	0.071	0.0018 J	0.0033 J
Potassium, Total	7440-09-7	NS	NA	NA	21.4	50.8 B	52	NA	4.8	3.7 B	3	56.6	60.5 B	57.3	NA	5.4	3.7 B	4.1
Sodium, Total	7440-23-5	20	NA	NA	**115**	**206**	**208**	NA	**69.9**	**114**	**109**	**160**	**168**	**161**	NA	**48.5**	**47.3**	**47**
Sulfur	7704-34-9	NE	NA	NA	1.6	3	3	NA	1.1	1.8	1.7	1.9	2.2	2.1	NA	3.9	4.8	4.3
Thallium	7440-28-0	0.0005	(<0.01) U	(<0.01) U	(<0.01) U	(<0.01) U	(<0.01) U	NA	(<0.01) U	(<0.01) U	(<0.01) U	(<0.01) U	(<0.01) U	(<0.01) U	NA	(<0.01) U	(<0.01) U	(<0.01) U
Vanadium	7440-62-2	NE	NA	NA	0.0066	0.01	0.0038 J	NA	<0.0015 U	0.0027 J	<0.0015 U	0.016	0.01	0.0083	NA	0.0022 J	0.0085	0.0036 J
Zinc	7440-66-6	2	0.83	0.0031 J	0.11 B	0.18	0.1	NA	0.0032 J	0.016	0.01	0.47	0.016	0.015	NA	0.0056 J	0.0039 J	0.0054 J
WATER-8270C (ug/L)																		
Phenol	108-95-2	1	NA	NA	<0.37 U	**13**	**12**	NA	<0.38 U	<0.37 U	<0.37 U	<0.37 U	<0.37 U	(<3.7) U	<0.37 U H, RE	<0.37 U	<0.37 U	<0.37 U
WATER-8260B (ug/L)																		
1,1,1-Trichloroethane	71-55-6	5	<0.82 U	<0.82 U	<0.82 U	<4.1 U	<4.1 U	NA	<3.3 U	<3.3 U	<3.3 U	(<16) U	(<16) U	<3.3 U	NA	<0.82 U	<0.82 U	<0.82 U
1,1,2-Trichloroethane	79-00-5	1	<0.23 U	<0.23 U	<0.23 U	(<1.2) U	(<1.2) U	NA	<0.92 U	<0.92 U	<0.92 U	(<4.6) U	(<4.6) U	<0.92 U	NA	<0.23 U	<0.23 U	<0.23 U
1,1,2-Trichlorotrifluoroethane (freon 113)	76-13-1	5	<0.31 U	<0.31 U	<0.31 U	<1.6 U	<1.6 U	NA	<1.2 U	<1.2 U	<1.2 U	(<6.2) U	(<6.2) U	<1.2 U	NA	<0.31 U	<0.31 U	<0.31 U
1,1-Dichloroethane	75-34-3	5	<0.38 U	<0.38 U	<0.38 U	<1.9 U	<1.9 U	NA	<1.5 U	<1.5 U	<1.5 U	(<7.6) U	(<7.6) U	<1.5 U	NA	<0.38 U	<0.38 U	<0.38 U
1,1-Dichloroethylene	75-35-4	5	<0.29 U	<0.29 U	0.35 J	<1.5 U	<1.5 U	NA	<1.2 U	<1.2 U	<1.2 U	(<5.8) U	(<5.8) U	<1.2 U	NA	<0.29 U	<0.29 U	<0.29 U
1,2,4-Trichlorobenzene	120-82-1	5	<0.41 U	<0.41 U	<0.41 U	<2.1 U	<2.1 U	NA	<1.6 U	<1.6 U	<1.6 U	(<8.2) U	(<8.2) U	<1.6 U	NA	<0.41 U	<0.41 U	<0.41 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	(<0.39) U	(<0.39) U	(<0.39) U	(<2) U	(<2) U	NA	(<1.6) U	(<1.6) U	(<1.6) U	(<7.8) U	(<7.8) U	(<1.6) U	NA	(<0.39) U	(<0.39) U	(<0.39) U
1,2-Dibromoethane (EDB) (ethylene dibromide)	106-93-4	0.0006	(<0.73) U	(<0.73) U	(<0.73) U	(<3.7) U	(<3.7) U	NA	(<2.9) U	(<2.9) U	(<2.9) U	(<15) U	(<15) U	(<2.9) U	NA	(<0.73) U	(<0.73) U	(<0.73) U
1,2-Dichlorobenzene	95-50-1	3	<0.79 U	<0.79 U	<0.79 U	(<4) U	(<4) U	NA	(<3.2) U	(<3.2) U	(<3.2) U	(<16) U	(<16) U	(<3.2) U	NA	<0.79 U	<0.79 U	<0.79 U
1,2-Dichloroethane	107-06-2	0.6	<0.21 U	<0.21 U	<0.21 U	(<1.1) U	(<1.1) U	NA	(<0.84) U	(<0.84) U	(<0.84) U	(<4.2) U	(<4.2) U	(<0.84) U	NA	<0.21 U	<0.21 U	<0.21 U
1,2-Dichloropropane	78-87-5	1	<0.72 U	<0.72 U	<0.72 U	(<3.6) U	(<3.6) U	NA	(<2.9) U	(<2.9) U	(<2.9) U	(<14) U	(<14) U	(<2.9) U	NA	<0.72 U	<0.72 U	<0.72 U
1,3-Dichlorobenzene	541-73-1	3	<0.78 U	<0.78 U	<0.78 U	(<3.9) U	(<3.9) U	NA	(<3.1) U	(<3.1) U	(<3.1) U	(<16) U	(<16) U	(<3.1) U	NA	<0.78 U	<0.78 U	<0.78 U
1,4-Dichlorobenzene	106-46-7	3	<0.84 U	<0.84 U	<0.84 U	(<4.2) U	(<4.2) U	NA	(<3.4) U	(<3.4) U	(<3.4) U	(<17) U	(<17) U	**6.9**	NA	<0.84 U	<0.84 U	<0.84 U
2-Butanone (MEK)	78-93-3	50	<1.3 U	<1.3 U	<1.3 U	43 J	**140**	NA	<5.3 U	<5.3 U	<5.3 U	<26 U	<26 U	<5.3 U	NA	<1.3 U	<1.3 U	<1.3 U
2-Hexanone (Methyl butyl ketone/MBK)	591-78-6	50	<1.2 U	<1.2 U	**80**	<6.2 U	<6.2 U	NA	<5 U	<5 U	<5 U	<25 U	<25 U	<5 U	NA	<1.2 U	<1.2 U	<1.2 U
Acetone	67-64-1	50	<3 U	<3 U	3.5 J	<15 U	33 J	NA	<12 U	<12 U	<12 U	(<60) U	(<60) U	<12 U	NA	<3 U	<3 U	<3 U
Benzene	71-43-2	1	<0.41 U	<0.41 U	**6.1**	**12**	**14**	NA	**4.5**	**9.3**	**9.3**	(<8.2) U	(<8.2) U	**5.4**	NA	<0.41 U	<0.41 U	0.44 J
Bromomethane	74-83-9	5	<0.69 U	<0.69 U	<0.69 U	<3.5 U	<3.5 U	NA	<2.8 U	<2.8 U	<2.8 U	(<14) U	(<14) U	<2.8 U	NA	<0.69 U	<0.69 U	<0.69 U
Carbon disulfide	75-15-0	60	<0.19 U	<0.19 U	<0.19 U	<0.95 U	<0.95 U	NA	<0.76 U	<0.76 U	<0.76 U	<3.8 U	<3.8 U	<0.76 U	NA	<0.19 U	<0.19 U	<0.19 U
Carbon tetrachloride	56-23-5	5	<0.27 U	<0.27 U	<0.27 U	<1.4 U	<1.4 U	NA	<1.1 U	<1.1 U	<1.1 U	(<5.4) U	(<5.4) U	<1.1 U	NA	<0.27 U	<0.27 U	<0.27 U
Chlorobenzene	108-90-7	5	<0.75 U	<0.75 U	3.8	**9.5**	**9.9**	NA	<3 U	<3 U	<3 U	**42**	**43**	**33**	NA	1.1	<0.75 U	<0.75 U
Chloroethane	75-00-3	5	0.94 J	<0.32 U	<0.32 U	<1.6 U	<1.6 U	NA	<1.3 U	<1.3 U	<1.3 U	(<6.4) U	(<6.4) U	<1.3 U	NA	<0.32 U	0.4 J	0.45 J
Chloromethane	74-87-3	5	<0.35 U	<0.35 U	<0.35 U	<1.8 U	<1.8 U	NA	<1.4 U	<1.4 U	<1.4 U	(<7) U	(<7) U	<1.4 U	NA	<0.35 U	<0.35 U	<0.35 U
cis-1,2-Dichloroethylene	156-59-2	5	<0.81 U	<0.81 U	NA	**150**	**250**	**110 RE**	<3.2 U	<3.2 U	<3.2 U	(<16) U	(<16) U	<3.2 U	NA	<0.81 U	<0.81 U	<0.81 U
Cyclohexane	110-82-7	NE	<0.18 U	<0.18 U	0.96 J	<0.9 U	<0.9 U	NA	<0.72 U	<0.72 U	<0.72 U	<3.6 U	<3.6 U	<0.72 U	NA	<0.18 U	<0.18 U	<0.18 U
Dichlorodifluoromethane	75-71-8	5	<0.68 U	<0.68 U	<0.68 U	<3.4 U	<3.4 U	NA	<2.7 U	<2.7 U	<2.7 U	(<14) U	(<14) U	<2.7 U	NA	<0.68 U	<0.68 U	<0.68 U
Ethylbenzene	100-41-4	5	<0.74 U	<0.74 U	**9.2**	**11**	**13**	NA	<3 U	<3 U	<3 U	(<15) U	(<15) U	<3 U	NA	<0.74 U	<0.74 U	<0.74 U
Isopropylbenzene	98-82-8	5	<0.79 U	<0.79 U	1.9	**5.4**	**5.4**	NA	<3.2 U	<3.2 U	<3.2 U	(<16) U	(<16) U	<3.2 U	NA	<0.79 U	<0.79 U	<0.79 U
m-,p-,o-Xylene	1330-20-7	5	<0.66 U	<0.66 U	**45**	**56**	**71**	NA	<2.6 U	<2.6 U	3.5 J	(<13) U	(<13) U	<2.6 U	NA	<0.66 U	<0.66 U	<0.66 U
Methyl isobutyl ketone (MIBK)	108-10-1	NE	<2.1 U	<2.1 U	47	240	170	NA	<8.4 U	<8.4 U	<8.4 U	<42 U	<42 U	<8.4 U	NA	<2.1 U	<2.1 U	<2.1 U
Methylcyclohexane	108-87-2	NE	<0.16 U	<0.16 U	0.48 J	0.87 J	1.8 J	NA	<0.64 U	<0.64 U	<0.64 U	<3.2 U	<3.2 U	<0.64 U	NA	<0.16 U	0.33 J	<0.16 U
Methylene chloride (Dichloromethane)	75-09-2	5	<0.44 U	<0.44 U	<0.44 U	<2.2 U	<2.2 U	NA	<1.8 U	<1.8 U	<1.8 U	(<8.8) U	(<8.8) U	<1.8 U	NA	<0.44 U	<0.44 U	<0.44 U
Methyltertbutyl ether	1634-04-4	10	<0.16 U	<0.16 U	0.23 J	<0.8 U	<0.8 U	NA	<0.64 U	1.3 J	1.2 J	<3.2 U	<3.2 U	0.95 J	NA	<0.16 U	<0.16 U	<0.16 U
Styrene	100-42-5	5	<0.73 U	<0.73 U	<0.73 U	<3.7 U	<3.7 U	NA	<2.9 U	<2.9 U	<2.9 U	(<15) U	(<15) U	<2.9 U	NA	<0.73 U	<0.73 U	<0.73 U
Tetrachloroethylene	127-18-4	5	<0.36 U	<0.36 U	<0.36 U	<1.8 U	<1.8 U	NA	<1.4 U	<1.4 U	<1.4 U	(<7.2) U	(<7.2) U	<1.4 U	NA	<0.36 U	<0.36 U	<0.36 U
Toluene	108-88-3	5	<0.51 U	<0.51 U	**11**	**19**	**29**	NA	<2 U	<2 U	<2 U	(<10) U	(<10) U	<2 U	NA	<0.51 U	<0.51 U	<0.51 U
trans-1,2-Dichloroethylene	156-60-5	5	<0.9 U	<0.9 U	<0.9 U	<4.5 U	<4.5 U	NA	<3.6 U	<3.6 U	<3.6 U	(<18) U	(<18) U	<3.6 U	NA	<0.9 U	<0.9 U	<0.9 U
Trichloroethylene	79-01-6	5	<0.46 U	<0.46 U	<0.46 U	<2.3 U	<2.3 U	NA	<1.8 U	<1.8 U	<1.8 U	(<9.2) U	(<9.2) U	<1.8 U	NA	<0.46 U	<0.46 U	<0.46 U
Trichlorofluoromethane	75-69-4	5	<0.88 U	<0.88 U	<0.88 U	<4.4 U	<4.4 U	NA	<3.5 U	<3.5 U	<3.5 U	(<18) U	(<18) U	<3.5 U	NA	<0.88 U	<0.88 U	<0.88 U
Vinyl chloride	75-01-4	2	<0.9 U	<0.9 U	NA	**190**	**490**	**320 RE**	(<3.6) U	(<3.6) U	(<3.6) U	(<18) U	(<18) U	(<3.6) U	NA	<0.9 U	<0.9 U	<0.9 U
1,3-Dichloropropene (Total)		0.4	(<0.73) U	(<0.73) U	(<0.73) U	(<3.7) U	(<3.7) U	NA	(<2.9) U	(<2.9) U	(<2.9) U	(<14.6) U	(<14.6) U	(<2.9) U	NA	(<0.73) U	(<0.73) U	(<0.73) U
WATER-Misc (mg/L)																		
Alkalinity (CaCO3)	471-34-1	NE	NA	NA	617	891	750	NA	471	525	617	1000	1040 B	932	NA	359	302	326
Ammonia	7664-41-7	NE	NA	NA	28.2	93.6	88.1	NA	8.1	1	1.1	142	96.3	108	NA	3.7	1.7	2.8
Biochemical Oxygen Demand	BOD	NE	NA	NA	12.5 H	25.3 b	31.6 b	NA	7.4 H b	3.8 b	6 b	5.8 H b	3.2 b	10.1 b	NA	3.1 b	4.9 b	6 b
Chemical Oxygen Demand	COD410.1	NE	NA	NA	137	383	370	NA	80.2	89.7	93.8	247	226	187	NA	21.7	17	20.2
Hardness, carbonate	HARDC	NE	NA	NA	540	600	580	NA	420	490	560	396	390	480	NA	340	290	308
Methane	74-82-8	NE	NA	NA	2.200	2.200	6.200	NA	7.600	2.100	5.400	7.000	2.100	4.500	NA	3.500	3.500	3.100
Nitrate ion	14797-55-8	NE	NA	NA	<0.011 U H	<0.011 U	<0.011 U	NA	<0.011 U H	<0.011 U	0.026 J	0.11 H	0.035 J	<0.011 U	NA	0.022 J	<0.011 U	0.017 J
NITRITE NITROGEN	14797-65-0	NE	NA	NA	<0.02 U H	0.073	0.091 B	NA	<0.02 U H	<0.02 U	<0.02 U	0.025 J H	<0.02 U	0.059 B	NA	<0.02 U	0.055	0.074
PCB-1016	12674-11-2	NE	0.0012	<0.000036 U	0.0066	0.450	0.00019 J	NA	<0.00017 U	0.0011	<0.00017 U	<0.00018 U	0.001	0.00076	NA	0.00067	0.0012	0.120
PCB-1221	11104-28-2	NE	<0.000036 U	<0.000036 U	<0.00017 U	<0.033 U	<0.00017 U	NA	<0.00017 U	<0.00017 U	0.0033	<0.00018 U	<0.00017 U	0.0028	NA	<0.00017 U	<0.00017 U	<0.0033 U
PCB-1232	11141-16-5	NE	<0.000036 U	<0.000036 U	<0.00017 U	<0.033 U	<0.00017 U	NA	<0.00017 U	<0.00017 U	<0.00017 U	<0.00018 U	<0.00017 U	<0.00017 U	NA	<0.00017 U	<0.00017 U	<0.0033 U
PCB-1242	53469-21-9	NE	<0.000036 U	<0.000036 U	<0.00017 U	<0.033 U	<0.00017 U	NA	<0.00017 U	<0.00017 U	<0.00017 U	<0.00018 U	<0.00017 U	<0.00017 U	NA	<0.00017 U	<0.00017 U	<0.0033 U
PCB-1248	12672-29-6	NE	<0.000036 U	<0.000036 U	<0.00017 U	<0.033 U	<0.00017 U	NA	<0.00017 U	<0.00017 U	<0.00017 U	<0.00018 U	<0.00017 U	<0.00017 U	NA	<0.00017 U	<0.00017 U	<0.0033 U
PCB-1254	11097-69-1	NE	<0.000029 U	<0.00003 U	<0.00024 U	<0.047 U	<0.00024 U	NA	<0.00024 U	<0.00024 U	<0.00024 U	<0.00026 U	<0.00024 U	<0.00024 U	NA	<0.00024 U	<0.00024 U	<0.0047 U
PCB-1260	11096-82-5	NE	<0.000029 U	<0.00003 U	<0.00024 U	<0.047 U	<0.00024 U	NA	<0.00024 U	<0.00024 U	<0.00024 U	<0.00026 U	<0.00024 U	<0.00024 U	NA	<0.00024 U	<0.00024 U	<0.0047 U
PCBs-Total		0.00009	**0.0012 U**	(<0.00024) U	**0.0066 U**	**0.45 U**	**0.00019 J U**	NA	(<0.00133) U	**0.0011 U**	**0.0033 U**	(<0.00142) U	**0.001 U**	**0.00356 U**	NA	**0.00067 U**	**0.0012 U**	**0.12 U**
Phosphorus	7723-14-0	NE	NA	NA	0.15	0.34	0.19	NA	0.41	0.13	0.079	0.44	0.27	0.21	NA	<0.005 U	0.12	0.084
Sulfate	14808-79-8	NE	NA	NA	<1.5 U	10.7 B	<1.5 U	NA	<1.5 U	4.2 J	<1.5 U	3.7 J	1.6 J B	1.8 J B	NA	20.7	22.2	21.4
Sulfide	18496-25-8	NE	NA	NA	<0.052 U	<0.052 U	<0.052 U	NA	<0.052 U	<0.052 U	<0.052 U	<0.052 U	<0.052 U	<0.052 U	NA	<0.052 U	<0.052 U	<0.052 U
Total Dissolved Solids	TDS	NE	453	404	919	1210	1400	NA	653	852	836	1000	1010	990	NA	498	486	498
Total Organic Carbon - Quad	7440-44-0	NE	NA	NA	46.7	90.2	91.4	NA	23.7	28.7	26.6	55	54.9	51.1	NA	5.6	4.9	5.4
Total Suspended Solids	TSS	NE	21.6	<4 U	58.4	99.6	164	NA	106	12.4	31.6	110	49.2	57.6	NA	8.4	11.2	19.2
Phenolics, Total Recoverable	TOTPHEN	NE	<0.005 U	0.0052 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NYSDEC class GA criteria are from NYSDEC Technical and Operational Guidance Series (TOGS 1.1.1), Ambient water quality, class GA standards/guidance values from Table 1.

Bold — ds NYSDEC Class GA Criteria
Bold — Value but Below NYSDEC Class GA Criteri
< # # # — Non-Detect at Laboratory
MW — Monitor Well

NYSDEC class GA criteria are from NYSDEC Technical and Operational Guidance Series (TOGS 1.1.1), Ambient water quality, class GA standards/guidance values from Table 1.

Bold — Sample Exceeds NYSDEC Class GA Criteria
Bold — Sample is above Non-Detect Value but Below NYSDEC Class GA Criteria
< # # # — Sample is Non-Detect at Laboratory
MW — Monitor Well

NE — Not Established
NA — Not Analyzed
ug/l — micrograms per liter
VOCs — Volatile Organic Compounds
J — The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
UJ — The analyte was not detected above the sample reporting limit: and the reporting limit is approximate
U — The analyte was analyzed for, but was not detected above the sample reporting limit

APPENDIX A

MONITORING WELL FIELD OBSERVATION LOGS

SITE NAME: FULF

SITE ID.: FULF
INSPECTOR: CM
DATE/TIME: 9/18/12 1205
WELL ID.: New MW

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	
WELL COORDINATES? NYTM X_____ NYTM Y_____		
PDOP Reading from Trimble Pathfinder:_____ Satelites:_____		
GPS Method (circle) Trimble And/Or Magellan		
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:		
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED	0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	3.28
PROTECTIVE CASING MATERIAL TYPE:	Steel
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	4"

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?	X	
DID YOU REPLACE THE LOCK?	X	
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	22.14
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	7.54
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	Near

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.

Accessible

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.

Bare Ground

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

Landfill

REMARKS:

Sketch

SITE NAME: FLF

SITE ID.: FLF
INSPECTOR: CA
DATE/TIME: 9/9/12
WELL ID.: MW8

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

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?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW1

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED: 0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): ~~4~~
PROTECTIVE CASING MATERIAL TYPE: GALV
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 4"

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?	X	
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 48.55
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 40.17
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: none

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.

Good

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.

Field

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

Landfill

REMARKS:

Sketch

SITE NAME: FELF

SITE ID.: FELF
INSPECTOR: CB
DATE/TIME: 9/6/12 230
WELL ID.: ~~230~~ MW1A

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

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?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED	0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	FLUSH
PROTECTIVE CASING MATERIAL TYPE:	STEEL
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?	X	
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	
MEASURE WELL DIAMETER (Inches):	2"
WELL CASING MATERIAL:	
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	NONE

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.

ACCESSIBLE

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.

FIELD

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

LAND FILL

REMARKS:

Sketch

SITE NAME: FELF

SITE ID.: FELF
INSPECTOR: CA
DATE/TIME: 9/19/12
WELL ID.: MW01D

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

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?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW01D

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED: 0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): STEEL RISER
PROTECTIVE CASING MATERIAL TYPE:
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 6"

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?	X	
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 7.10'
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 4.46
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: PLANE

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.

ACCESSIBLE WITH 4 WHEEL DRIVE

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.

FIELD

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

LANDFILL

REMARKS:

Sketch

SITE NAME: Fort Edward Landfill

SITE ID.:
INSPECTOR: KC/BB
DATE/TIME: 9/21/2012/1000
WELL ID.: MW-02

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

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?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED: 0.0ppm
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): Steel - 2 feet
PROTECTIVE CASING MATERIAL TYPE: Yellow Square Steel
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
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: PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING: Good
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE: N/A
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

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.

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:

Sketch

SITE NAME: _____ SITE ID.: Fort Edward Landfill

MONITORING WELL FIELD INSPECTION LOG

INSPECTOR: VL/BB
DATE/TIME: 9/21/2012 0800
WELL ID.: MW-2

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

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?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: on casing and PVC cap

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED: 0.0 ppm
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): Steel 2 feet.
PROTECTIVE CASING MATERIAL TYPE: Square 2" Yellow steel
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): _____

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): MW-2 18.27
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 8.43
MEASURE WELL DIAMETER (Inches): 2 inch
WELL CASING MATERIAL: PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING: good condition
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE: NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: unknown

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.
gate at roadway, wells approximately 8 feet from gate downgradient -

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 a wetland area

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
landfill

REMARKS:

Sketch

SITE NAME: FLLF

SITE ID.: FLLF
INSPECTOR: CR
DATE/TIME: 9/20/12
WELL ID.: MW4

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

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?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW4

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED: 0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): ~~STEEL~~ 6" SQUARE
PROTECTIVE CASING MATERIAL TYPE: STEEL
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): _____

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 7.62
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 5.19
MEASURE WELL DIAMETER (Inches): 4"
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: NONE

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.

SWAMP

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.

SWAMP

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

LANDFILL

REMARKS:

Sketch

SITE NAME: FRCF

SITE ID.: FRCF
INSPECTOR: CA
DATE/TIME: 9 2012
WELL ID.: MW6

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

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?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW6

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED: 0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): SQ'MNC 4"
PROTECTIVE CASING MATERIAL TYPE: GALV
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 4"

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?	X	
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 17.94
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 8.60
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: none

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.

4 WHEEL DRIVE

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.

WOODS

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

LANDFILL

REMARKS:

Sketch

SITE NAME: FULF

SITE ID.: FULF
INSPECTOR: CH
DATE/TIME: 9 2012
WELL ID.: MW 6H

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

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?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW 6H

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED: 0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): Schedule 2'
PROTECTIVE CASING MATERIAL TYPE: Steel
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 4"

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?	X	
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 61.30
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 10.56
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: None

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.

4 WHEEL DRIVE

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.

WOODS

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

LANDFILL

REMARKS:

Sketch

SITE NAME: FRUIT

SITE ID.: FRUIT
INSPECTOR: CJ
DATE/TIME: 6/2012
WELL ID.: MW6B

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

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?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW6B

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED: 0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): Square 2'
PROTECTIVE CASING MATERIAL TYPE: Cmtd
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 4"

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?	X	
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 81.59
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 16.49
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: None

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.

Grass Dirt

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.

Woods

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

Landfill

REMARKS:

Sketch

SITE NAME: Fort Edward Landfill

SITE ID.: FELP
INSPECTOR: KC/BB
DATE/TIME: 9/21/12 / 1230
WELL ID.: MW-7

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

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?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED: 0.0 ppm
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): steel / 3.71'
PROTECTIVE CASING MATERIAL TYPE: square steel
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 4.07"

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?		X

marked by BB 9/21/12

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 27.65
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 18.40
MEASURE WELL DIAMETER (Inches): 2 inches
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: NA

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.
brush area on slope near fence.
have to walk to area - Stone swale near by.

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.):
landfill.

REMARKS:
no lock and no well cap (gripper)

Sketch

SITE NAME: FELF

SITE ID.: FELF
INSPECTOR: CB
DATE/TIME: 9/9/12
WELL ID.: MW8

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

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?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED: 0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): STEEL 6"
PROTECTIVE CASING MATERIAL TYPE: GALV
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 4"

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?	X	
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 12.39
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 8.00
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: none

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.

Good

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.

Field

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

Landfill

REMARKS:

Sketch

SITE NAME: FWF

SITE ID.: FTWDummy
INSPECTOR: CB/BB
DATE/TIME: 9/18/12
WELL ID.: FW1

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

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?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: .....

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED	0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	—
PROTECTIVE CASING MATERIAL TYPE:	—
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	42.85
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	25.12
MEASURE WELL DIAMETER (Inches):	6"
WELL CASING MATERIAL:	SS
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	no

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.

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.

Field

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

Landfill

REMARKS:

Sketch

SITE NAME: Fort Edward Landfill

SITE ID.: FortEd Landfill
INSPECTOR: KC/CA
DATE/TIME: 9/17/2012/1430
WELL ID.: EW-2

MONITORING WELL FIELD INSPECTION LOG

	YES	NO	
WELL VISIBLE? (If not, provide directions below)	X		
WELL COORDINATES? NYTM X_____ NYTM Y_____			
PDOP Reading from Trimble Pathfinder:_____ Satelites:_____			
GPS Method (circle) Trimble And/Or Magellan			
WELL I.D. VISIBLE?	X		on electric box
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X		
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:			
SURFACE SEAL PRESENT?	X		manhole
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X		
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	NA	NA	
HEADSPACE READING (ppm) AND INSTRUMENT USED	0.0 ppm		
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	NA - Casing subsurface		
PROTECTIVE CASING MATERIAL TYPE:	NA		
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):			
LOCK PRESENT?		X	
LOCK FUNCTIONAL?		X	
DID YOU REPLACE THE LOCK?		X	
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X	
WELL MEASURING POINT VISIBLE?		X	
MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	45.59		From inside lip of manhole cover northside
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	24.10		
MEASURE WELL DIAMETER (Inches):	6 inches		
WELL CASING MATERIAL:	~~Steel~~ 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	Unknown - no overhead		

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.

Roadway leads up to well.

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.

End of Roadway - brush surrounding.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.)

landfill

REMARKS:

Sketch

SITE NAME: Fort Edward Landfill

SITE ID.: FT Ed Landfill
INSPECTOR: KC/CA
DATE/TIME: 9/17
WELL ID.: E-W-3

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

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?	X		(on box)
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X		

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO	
SURFACE SEAL PRESENT?	X		(manhole)
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X		
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)			

HEADSPACE READING (ppm) AND INSTRUMENT USED: 0.0 ppm
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) NA: top of casing subsurface in a vault
PROTECTIVE CASING MATERIAL TYPE: NA
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): NA

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?	NA	NA
DID YOU REPLACE THE LOCK?	~~NA~~	X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 47.85 (SSE)
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 27.75
MEASURE WELL DIAMETER (Inches): 6 inches
WELL CASING MATERIAL: PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING: top of casing broken in places.
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.
Road way leading up to location.

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.
ground

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

REMARKS:

Sketch

NYSDEC
Fort Edward Landfill
Monitoring Well Water Level

WELL ID	GROUND ELEVATION (ft)	Top of Riser ELEVATION (ft)	Well Depth (ft)	Current Readings		
				Well Depth (ft)	Depth to water (ft)	Elev. (ft)
EW3				48.85	28.93	
EW2				45.59	24.10	
EW1				42.85	29.12	
new mw				22.14	7.84	
mw 1A				65.08	40.64	
mw 1D				71.01	47.46	
mw 1				48.55	40.17	
mw 8				12.39	8.00	
mw 4				7.62	5.19	
mw 6A				61.30	10.56	
mw 6B				81.59	16.49	
mw 6				17.94	8.60	

taken from top of well SSE side
← taken from N side of inside lip of manhole

APPENDIX B

MONITORING WELL SAMPLING REPORTS

Site Name	FELF
Site Location	FRONG
Well ID	NAW MW
Sampled By	CA DB

Well Information

Flush Mount or Riser	RISER
Measuring Point	TOC
Measuring Point Elevation	
Depth to Water	7.84
Depth to Bottom of Well	22.14

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726
Well Volume Gallons = Multiplier x Length of Water Column	

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:
± 0.1 change in pH
± 3% change in conductivity
± 10 millivolt change in ORP
± 10% change in DO and Turbidity

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Date	9/8/12
Weather	RAIN
Purging Equipment	MONSOON
Sampling Equipment	
Decon Method	ALCONOX
Riser Diameter	2"
Well Volume Calculation	7 GAL TOTAL IS 3 VOL,

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature (C)	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate
1205	START	HIGH	3.28	11.85	3.08	1.712	-65.3		
1215	1 GAL	450	3.20	12.65	2.43	1.741	-60.9		
1225	1.5 GAL	180	3.22	12.29	1.12	1.724	-60.7	11.80	
1235	2.5 GAL	310	3.19	13.30	0.63	1.792	-61.2	11.65	
1245	3 GAL	100	3.21	13.29	0.46	1.802	-67.3	12.26	
1255	4 GAL	20.0	3.23	13.27	0.28	1.782	-63.0		
1:09	4.5 gl	40.0	3.27	13.78°C	0.29	1.790	-64.5	13.02	
1:15	5 gl	100	3.31	14.91°C	0.25	1.837	-65.8	13.59	
130	SAMPLING	90	3.30	14.90	0.25	1.835	-65.6	13.54	

Site Name	Fidi
Site Location	Farmington NM
Well ID	MW-1
Sampled By	CM BB

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Well Information

Flush Mount or Riser	Riser
Measuring Point	TOC
Measuring Point Elevation	
Depth to Water	40.17
Depth to Bottom of Well	48.55

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings
± 0.1 change in pH
± 3% change in conductivity
± 10 millivolt change in ORP
± 10% change in DO and Turbidity

Date	5/9/12
Weather	Clear
Purging Equipment	Mastersonic
Sampling Equipment	
Decon Method	Alconox
Riser Diameter	
Well Volume Calculation	4.1 x 3 Vol

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726
Well Volume Gallons = Multiplier x Length of Water Column	

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature (C)	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate
1055	START	6.90	5.00	13.18	7.36	0.461	-157.9	40.17	
1105	2.5gl	28.0	4.74	13.78°C	6.87	0.481	-133.3	41.96	
1115	2.8gl	16.0	4.50	14.38°C	6.69	0.465	-133.8	41.96	
1125	3.5gl	9.80	5.21	14.08°C	6.58	0.441	-250.5	42.14	
1135	4.5	8.30	4.81	14.49	6.91	0.452	-264.7	41.79	
1145	5.5	4.70	4.67	14.49	6.82	0.446	-258.8	41.66	
1215	Sampled								

50 mg/L CO_2

Site Name	EWEF
Site Location	Ft. Ord, NM
Well ID	MW 1A
Sampled By	CR

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Well Information

Flush Mount or Riser	R
Measuring Point	TOC
Measuring Point Elevation	
Depth to Water	40.64
Depth to Bottom of Well	65.08

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings
± 0.1 change in pH
± 3% change in conductivity
± 10 millivolt change in ORP
± 10% change in DO and Turbidity

Date	9/8/12
Weather	RAIN
Purging Equipment	MONSOON
Sampling Equipment	MONSOON
Decon Method	ALCONOX
Riser Diameter	2"
Well Volume Calculation	1.95 = 3 VOL

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726
Well Volume Gallons = Multiplier x Length of Water Column	

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature C	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate
250	START	50	5.71	12.37	1.53	0.157	-175.8	45.41	
300	1.5	12.0	6.01	13.18	1.08	0.152	-203.1	45.31	
310	2.5	20.0	6.03	13.18	0.80	0.173	-224.3	51.23	
	SAMPLED	WELL	KEPT	GOING	DRY				

CO2 8.75 mG/L

Site Name	FUEL
Site Location	FTUN NM
Well ID	MW 1D
Sampled By	CA BB

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Well Information

Flush Mount or Riser	Riser
Measuring Point	TOC
Measuring Point Elevation	
Depth to Water	47.46
Depth to Bottom of Well	71.01

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings
± 0.1 change in pH
± 3% change in conductivity
± 10 millivolt change in ORP
+ 10% change in DO and Turbidity

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726

Well Volume Gallons = Multiplier x Length of Water Column

Date	9/19/12
Weather	CLEAR
Purging Equipment	MONSOON
Sampling Equipment	MONSOON
Decon Method	ALCONOX
Riser Diameter	2"
Well Volume Calculation	8.73 x 3 = 26.19 GAL

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature (C)	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate
750	START	5.50	4.49	11.27	1.28	0.244	-210.8		
800	1 GAL	6.30	4.53	11.53	0.19	0.262	-238.2	56.02	
8:10	2.5 gl	5.70	4.72	12.26°C	0.08	0.260	-270.7	59.37	
8:20	4 gl	4.90	4.77	12.76°C	0.06	0.265	-282.7	61.02	
8:30	5 gl	3.30	4.77	12.72°C	0.07	0.268	-263.2	62.80	
8:40	6 gl	2.80	4.79	13.51°C	0.07	0.273	-252.2	62.32	
8:50	7.5 gl	2.10	5.33	13.18°C	0.07	0.271	-262.6	63.61	
9:00	8 gl	3.60	4.96	13.06°C	0.09	0.266	-261.6	65.50	
9:10	8.5 gl	2.90	5.28	13.22°C	0.08	0.270	-234.5	65.78	
9:20	9.5 GAL	3.50	5.12	13.15	0.09	0.269	-228.8	66.95	
9:30	10.5 gl	3.30	5.12	13.32°C	0.08	0.272	-240.6	65.89	
9:40	12 GAL	3.30	5.10	12.46	0.08	0.253	-248.7		
950	SAMPLES								

* Dup collected from this well *

35 MG/L CO_2

Site Name	FELF
Site Location	Fort Ed
Well ID	MW-02
Sampled By	KC/BB

Well Information

Flush Mount or Riser	Riser
Measuring Point	
Measuring Point Elevation	
Depth to Water	10.31
Depth to Bottom of Well	26.80

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726
Well Volume Gallons = Multiplier x Length of Water Column	

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:
± 0.1 change in pH
± 3% change in conductivity
± 10 millivolt change in ORP
± 10% change in DO and Turbidity

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Date	9/21/2012
Weather	Sunny, 100°F
Purging Equipment	monsoon
Sampling Equipment	monsoon
Decon Method	Alconox
Riser Diameter	2 inch
Well Volume Calculation	8.0 L

75 mg/L CO_2

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature (F) / C	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate
0920	0.5 gallons	18.0	2.98	11.45°C	0.39	0.476	-78.3	14.20	
0930	4 gallons	95.0	2.80	12.25	0.19	0.476	-82.1	17.70	
0944	6 gallons	22.0	2.90	11.74	0.32	0.487	-100.9	18.24	
9:50	7.5 gallons	31.0	3.04	11.71°C	0.48	0.484	-113.7	19.21	
10:00	9 gallons	11.0	3.20	12.22°C	0.31	0.491	-123.8	17.45	
1010	10 gallon	4.8	3.28	12.19°C	0.16	0.491	-131.2	17.03	

Site Name	FELF
Site Location	Fort Edward
Well ID	MW - 2
Sampled By	KC / BB

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Well Information

Flush Mount or Riser	RISER
Measuring Point	~~TOC~~ —
Measuring Point Elevation	—
Depth to Water	8.43
Depth to Bottom of Well	18.27

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726
Well Volume Gallons = Multiplier x Length of Water Column	

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:
± 0.1 change in pH
± 3% change in conductivity
± 10 millivolt change in ORP
± 10% change in DO and Turbidity

Date	9/21/2012
Weather	43°F
Purging Equipment	monsoon
Sampling Equipment	monsoon
Decon Method	Alconox
Riser Diameter	2 inch
Well Volume Calculation	4.8

1160 mg/L = CO_2

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature (°C)	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate
0800	2 gallons	370	3.16	15.20	0.38	0.790	-100.1	9.85	
0810	4.5 gallons	80.0	3.05	15.07	0.33	0.779	-103.0	10.21	
8:20	5.6 gallons	50.0	3.09	15.04°C	0.31	0.773	-104.2	10.40	
0830	8 gallons	31.0	3.12	14.95°C	0.29	0.760	-99.6	10.61	
0840	10 gallons	18.0	3.11	14.85°C	0.29	0.753	-96.4	10.49	

Site Name	FEC F
Site Location	FTED MY
Well ID	MW 4
Sampled By	CH Bill

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Well Information

Flush Mount or Riser	Riser
Measuring Point	TOC
Measuring Point Elevation	
Depth to Water	5.19
Depth to Bottom of Well	9.62

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings
± 0.1 change in pH
± 3% change in conductivity
± 10 millivolt change in ORP
± 10% change in DO and Turbidity

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726
Well Volume Gallons = Multiplier x Length of Water Column	

Date	9 2 0 /2
Weather	Cloud
Purging Equipment	Peristaltic
Sampling Equipment	"
Decon Method	Alconox
Riser Diameter	4"
Well Volume Calculation	4.75 Gal = 3 Vol

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature (F)	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate
640	5 Gal	250	3.63	13.64	1.72	0.641	-161.5	5.53	
650	2 Gal	45	3.24	13.37	0.62	0.657	-140.5	5.57	
700	4 Gal	19	3.09	13.55	0.43	0.681	-131.5	5.59	
715	4.75 Gal Sampled								

Ca^{2} 195 mg/L

Site Name	FSLF
Site Location	FTM NM
Well ID	MW6
Sampled By	CHB

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Well Information

Flush Mount or Riser	Riser
Measuring Point	TOC
Measuring Point Elevation	
Depth to Water	8.60
Depth to Bottom of Well	17.94

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings
± 0.1 change in pH
± 3% change in conductivity
± 10 millivolt change in ORP
± 10% change in DO and Turbidity

Date	9/2011
Weather	Clear
Purging Equipment	Monsoon
Sampling Equipment	"
Decon Method	Alconox
Riser Diameter	2"
Well Volume Calculation	4.57 = 3 well vol,

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726
Well Volume Gallons = Multiplier x Length of Water Column	

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature (F)	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate
1135	START	TO HEAVY	2.87	13.62	0.73	0.728	-104.0	8.63	
1145	1 GAL	250	2.56	13.63	0.76	0.669	-115.9		
1150	2.5 GAL	29	2.50	13.52	0.30	0.644	-126.4		
1155	4 GAL	20	2.47	13.62	0.20	0.644	-131.1		
1200	4.5 GAL	SAMPLED							

COLOR 15C DROPS COLOR CHANGE TO YELLOW

Site Name	FELF
Site Location	FULTON NY
Well ID	MW 6 IR
Sampled By	C.J.B.

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Well Information

Flush Mount or Riser	Riser
Measuring Point	TOC
Measuring Point Elevation	
Depth to Water	10.56
Depth to Bottom of Well	61.30

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings
± 0.1 change in pH
± 3% change in conductivity
± 10 millivolt change in ORP
+ 10% change in DO and Turbidity

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726
Well Volume Gallons = Multiplier x Length of Water Column	

Date	9/20/12
Weather	CLOUDY
Purging Equipment	MINISUB
Sampling Equipment	"
Decon Method	ALCONOX
Riser Diameter	2"
Well Volume Calculation	24.82 = 3 WELL VOL

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature (°C)	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate
830	START	5.90	3.11	11.95	1.34	0.845	-101.7		
840	3 GAL	4.00	2.95	12.14	0.46	0.966	-118.9	10.83	
850	5 GAL	2.30	2.95	12.20	0.25	0.973	-127.7	10.84	
900	7 GAL	1.20	2.94	12.25	0.19	0.974	-141.9	10.83	
910	9 GAL	0.75	2.91	12.39	0.15	0.981	-150.6	10.83	
920	11.5 GAL	0.80	2.96	12.50	0.12	0.981	-160.0	10.83	
930	13.5 GAL	0.75	2.98	12.56	0.11	0.983	-162.0	10.84	
940	15 GAL	0.80	2.99	12.55	0.10	0.983	-165.3	10.84	
	SAMPLED								

CO_2 225 MG/L

Site Name	FELF
Site Location	FT DIX NJ
Well ID	MW 6B
Sampled By	CA BA

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Well Information

Flush Mount or Riser	
Measuring Point	TOC
Measuring Point Elevation	
Depth to Water	16.49
Depth to Bottom of Well	81.33

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726
Well Volume Gallons = Multiplier x Length of Water Column	

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings
± 0.1 change in pH
± 3% change in conductivity
± 10 millivolt change in ORP
± 10% change in DO and Turbidity

Date	9 2012
Weather	CLEAR
Purging Equipment	MONSOON
Sampling Equipment	"
Decon Method	ALCONOX
Riser Diameter	2"
Well Volume Calculation	31.84 = 3 WELL VOL

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature (F)	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate
1002	START	0.80	3.59	12.63	3.76	0.219	-80.2		
1015	~~2.5 GAL~~ 1 GAL	13.0	3.71	12.86	3.25	0.188	-76.6	24.15	
1025	2.5 GAL	14.0	3.84	13.24	3.02	0.189	-81.2	30.75	
1030	3 GAL	18.0	3.86	13.27	3.13	0.189	-75.4	31.50	
1035	3.5 GAL	19.0	3.86	13.29	3.12	0.189	-72.1		
1040	4 GAL	19.0	3.89	13.41	3.17	0.190	-70.1		
1050	SAMPLED								

CO^2 30 MG/L

Site Name	FE LF
Site Location	Fort Bliss
Well ID	MW-7
Sampled By	KC/BB

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Well Information

Flush Mount or Riser	Riser
Measuring Point	
Measuring Point Elevation	
Depth to Water	18.40
Depth to Bottom of Well	27.65

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726
Well Volume Gallons = Multiplier x Length of Water Column	

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:
± 0.1 change in pH
± 3% change in conductivity
± 10 millivolt change in ORP
± 10% change in DO and Turbidity

Date	9/21/2012
Weather	Sunny, @ 70°F
Purging Equipment	monsoon pump
Sampling Equipment	monsoon pump
Decon Method	Alconox
Riser Diameter	2 inches.
Well Volume Calculation	4.526

over 200 drops placed in water - turned light orange but never pink

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature (°C)	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate
1155	2 gallon	4.80	3.19	13.41°C	0.77	0.789	-122.1	18.57	
1205	4 gallons	18.0	3.25	14.09°C	0.27	0.792	-118.9	18.51	
1215	6 gallons	12.0	2.95	13.85	0.17	0.767	-121.6	18.51	
1225	7.5 gl	13.0	2.79	13.73°C	0.13	0.751	-113.8	18.55	

Site Name	EWF
Site Location	FRED NY
Well ID	MW 8
Sampled By	CA BB

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Well Information

Flush Mount or Riser	RISER
Measuring Point	TOC
Measuring Point Elevation	
Depth to Water	8.00
Depth to Bottom of Well	12.39

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings
± 0.1 change in pH
± 3% change in conductivity
± 10 millivolt change in ORP
± 10% change in DO and Turbidity

Date	9/19/12
Weather	CLEAR
Purging Equipment	MONSOON
Sampling Equipment	MONSOON
Decon Method	ALCONOX
Riser Diameter	2"
Well Volume Calculation	4.39 GAL = 3 WELL VOL.

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726
Well Volume Gallons = Multiplier x Length of Water Column	

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature (F)	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate
12.5	START	4.50	4.12	17.02	0.51	0.354	-258.3	8.74	
131	1.6AL	6.90	3.60	17.29	0.22	0.349	-210.5	9.20	
145	2GAL	5.60	3.26	16.09	0.09	0.345	-199.4	9.94	
155	2.5 GAL	5.30	3.17	16.21	0.10	0.342	-190.1		

45 MG/L CO2

Site Name	[illegible] LANDFILL
Site Location	FTW, NM
Well ID	EW 1
Sampled By	CA OB

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Well Information

Flush Mount or Riser	FLUSH
Measuring Point	TOP MAN Hole
Measuring Point Elevation	
Depth to Water	25.12
Depth to Bottom of Well	47.85

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings
± 0.1 change in pH
± 3% change in conductivity
± 10 millivolt change in ORP
+ 10% change in DO and Turbidity

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726
Well Volume Gallons = Multiplier x Length of Water Column	

Date	9/8/12
Weather	RAIN
Purging Equipment	MONSOON PUMP
Sampling Equipment	"
Decon Method	ALCONOX
Riser Diameter	6"
Well Volume Calculation	2" x3 = 78

START 9:10

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature (°C)	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate
9:10	START	80.0	2.50	14.73	1.10	1,339	-85.9	25.12	
9:15	1 GAL	60.0	2.45	14.49	1.04	1.435	-92.3	25.38	
9:25	4 GAL	50.0	2.48	14.61	0.48	1,351	-96.1	25.38	
9:35	6 GAL	28.0	2.48	14.75	[illegible]	1,342	-96.0	25.40	
9:45	7.5 GAL	24.0	2.48	14.77	0.16	1,349	-95.3	25.41	
9:55	9 GAL	18.0	2.49	14.85	0.14	1,383	-96.2	25.41	
10:05	11 GAL	15.0	2.48	14.80	0.09	1.435	-93.1	25.41	
10:15	12.5	12.0	2.50	14.91	0.09	1,456	-94.0	25.41	
10:25	15	12.0	2.49	14.99	0.09	1.495	-93.0	25.41	
10:35	17 gl	10.0	2.50	14.86°C	0.08	1,527	-95.1	25.44	
10:45	18.5 gl	11.0	2.48	14.88°C	0.07	1,560	-95.0	25.45	
		CCR 575	MG/L						

Site Name	Fort Ed. Landfill
Site Location	Fort Ed, N.Y.
Well ID	EW-2
Sampled By	KC/CA

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Well Information

Flush Mount or Riser	Subsurface
Measuring Point	North side inside lip of manhole cover
Measuring Point Elevation	?
Depth to Water	24.12
Depth to Bottom of Well	45.59

> taken from inside lip of manhole cover on North side.

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:
± 0.1 change in pH
± 3% change in conductivity
± 10 millivolt change in ORP
± 10% change in DO and Turbidity

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726
Well Volume Gallons = Multiplier x Length of Water Column	

Date	9/17/2012
Weather	Sunny - Southeast wind ~~70~~ °F
Purging Equipment	monsoon pump
Sampling Equipment	monsoon pump ~~Clean~~ new tubing
Decon Method	Alconox
Riser Diameter	6 inch
Well Volume Calculation	44.56

~~300~~ 300 Mg/L CO_2 Titration

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature (F)	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate (Current)
1410			3.37	14.69	0.09	1.176	-192.6	25.65	
1424	2.5 gallons		3.33	14.92	0.23	1.183	-185.2	27.01	10.8
1430	4.5 gallons		3.30	14.51	0.40	1.166	-190.3	28.10	11.7
1438	5 gallons		3.30	14.56	0.27	1.165	-195.6	29.05	11.7
1446	10 gallons	24	3.30	14.64	0.21	1.167	-198.7	29.81	—
		28							

MS MSD SAMPLES TAKEN FROM EW-2

Site Name	Fort Ed Landfill
Site Location	EW-3 Fort Ed. NY.
Well ID	EW-3
Sampled By	KC/CA

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Well Information

Flush Mount or Riser	Riser
Measuring Point	
Measuring Point Elevation	
Depth to Water	~~27.75~~ 27.75
Depth to Bottom of Well	~~47.85~~ 47.85

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings
- 0.1 change in pH
- 3% change in conductivity
- 10 millivolt change in ORP
- 10% change in DO and Turbidity

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726
Well Volume Gallons = Multiplier x Length of Water Column	

Date	9/18/2012
Weather	Sunny/@65°F- Southeast wind
Purging Equipment	Monsoon pump
Sampling Equipment	Monsoon Pump
Decon Method	Alconox Rinse
Riser Diameter	6 inch
Well Volume Calculation	92.93073 gallons

Depth to water Reading were taken from SSE current

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature (F)	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate	
1215	~~33~~ 34		2.85	15.47	2.16	2.208	-95.0	36.55	13.3	
1223	34.		2.83	15.83	4.67	2.226	-92.6	36.23	12.5	40.23
1226	34.5		2.89	16.22	1.72	2.241	-94.9	36.05	12.5	40.05
1230	35.		2.88	16.31	1.59	2.244	-93.4	35.87	12.6	
1233			2.86	16.14	1.40	2.233	-93.4	35.72	12.5	

Site Name	PLP2
Site Location	FARM NM
Well ID	MW 4
Sampled By	CP BA

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Well Information

Flush Mount or Riser	
Measuring Point	
Measuring Point Elevation	
Depth to Water	
Depth to Bottom of Well	

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings
± 0.1 change in pH
± 3% change in conductivity
± 10 millivolt change in ORP
± 10% change in DO and Turbidity

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726
Well Volume Gallons = Multiplier x Length of Water Column	

Date	9.20.12
Weather	CLEAR
Purging Equipment	
Sampling Equipment	
Decon Method	
Riser Diameter	2"
Well Volume Calculation	

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature (F)	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate
21'		27.0	3.13	17.93	1.30	0.726	-100.5		

CO_2 200 DROPS NO COLOR CHANGE

Site Name	FLLF
Site Location	FTRO NM
Well ID	COMPENSO FMF
Sampled By	CA BB

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Well Information

Flush Mount or Riser	CULVERT
Measuring Point	TOC
Measuring Point Elevation	
Depth to Water	
Depth to Bottom of Well	

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings
± 0.1 change in pH
± 3% change in conductivity
± 10 millivolt change in ORP
± 10% change in DO and Turbidity

Dia. Well	Well Volume Multiplier
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100
10	4.0782
12	5.8726
Well Volume Gallons = Multiplier x Length of Water Column	

Date	9 2012
Weather	CLEAR
Purging Equipment	MONSOON
Sampling Equipment	
Decon Method	ALCONOX
Riser Diameter	
Well Volume Calculation	

Time	Volume Removed (Gallons)	Turbidity (NTU)	pH	Temperature (F)	Dissolved O2 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water	Pumping Rate
130	NO PURGE			1					
130		24.0	3.46	15.80	6.05	0.659	-50.8		

CO_2 100 mg/L

APPENDIX C

LABORATORY REPORTS

APPENDIX D

PILOT TEST DATA

Ft Edward Pilot Test

Date 9/25/12
Extraction Well - 2

	Time	Flow Rate	Gallons	Pressure	Total		
/12	10:14	5.16		11.8	14.58		
	10:12	4.87		7.5	11.81		
	12:18	Sampling		Sampling	7.47		
	1:20	Not Running So there's enough water for sampling					
9/26/12	7:54	4.74		7.5	13.28		
	9:50	5.08		4.2	11.54		
	10:54	5.09		3.8	11.34		
	12:17	4.81		6.0	11.16		
	1:06	5.13		2.9	10.45		
	1:57	5:02		3.7	10.41		
	2:50	5:04		3.5	10.34		
9/27/12							
8:48	8:48	4.87		9.5	18.78		
9:55	9:55	5.02		4.5	9.66		
9:57	9:57	5.14		2.8	10.06		
11:57	11:57	4.96		3.8	10.31		
12:56	12:56	4.90		5.0	11.30		
2:00	2:00	5.05		5.6	11.47		
	2:57	5.14		3.4	11.54		

SIGNED _____

Ft Edward Pilot Test

Date 9/25/12
Extraction Well - 2

Date	Time	Flow Rate	Gallons	Pressure	Total		
9/25/12	10:14	6.11		12.6	14.52		
	10:16	Recovering		Recovering	11.79		
	12:20	Sampling		Sampling	7.47		
	1:20	Not Running So theres water for sampling					
9/26/12	8:55	5.89		12.2	15.74		
	9:50	6.59		5.4	11.33		
	10:52		Recovering				
	11.05	6.71		4.6	10.71		
	12:11	6.75		4.4	11.30		
	1:09	6.68		4.9	11.36		
	1:57		Recharging				
	2:03	6.50		3.7	10.31		
	2:46	6.48		3.4	10.28		
9/27/12							
~~9:27~~	8:48	6.53		10.2	18.75		
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~2.8~~	~~10.77~~		
~~9:55~~	9:55	off for	Sampling				
~~11:09~~	11:09	6.78		3.4	9.18		
~~11:50~~	11:50	6.63		3.35	10.48		
~~12:49~~	12:49	6.75		5.6	9.86		
~~2:00~~	2:00	6.73		5.9	11.89		
~~2:57~~	2:57	6.71		3.2	11.54		

SIGNED _____

Ft Edward Pilot Test

Date 9/25/12
Extraction Well - 3

Date	Time	Flow Rate	Gallons	Pressure	Total		
9/25/12	10:15	3.20		11.3	14.58		
	10:16	Recovering		Recovering	11.79		
	12:20	Recovering		Recovering	7.47		
	1:20	Not Running So theres Enough water for Sampling					
9/26/12	8:55	3.18		13.2	12.89		
	9:50	0	Recovering				
	10:51	3.51		5.7	12.416		
	12:10	3.68		4.5	11.75		
	1:22	3.70		1.6	9.75		
	1:57		Recharging				
	2:03	3.51		3.1	10.31		
	2:44	3.73		1.9	9.89		
9/27/12							
8:48	8:48	5.51		11.3	18.78		
9:55	9:55	off for Sampling					
11:16	11:16	3.70		1.4	9.04		
11:55	11:55	3.62		1.5	9.58		
12:55	12:55	3.70		2.1	9.97		
1:57	1:57	3.69		2.1	11.45		
3:00	3:00	3.51		2.3	11.28		

SIGNED _____

Ft Edward Pilot Test

Date 9/25/12
Extraction Well - 4

Date	Time	Flow Rate	Gallons	Pressure	Total		
9/25/12	10:15	1.12		13.0	14.58		
	10:13	6.43		9.8	11.81		
	12:19	6.94		4.7	7.40	Replaced Flow Cell	
	1:20	9.07					
9/26/12	8:54	6.06		7.9	12.99		
	9:50	6.62		6.7	11.41		
	10.53	6.36		4.9	11.89		
	12:11	6.54		3.8	12.04		
	1:03	6.55		2.8	9.97		
	1:57	6.49		3.0	10.24		
	2:44	6.58		3.1	10.41		
		6.55		4.8	10:59		
9/27/12							
8:48	8.48	3.08		8.8	18.78		
9:55	9.55	6.70		2.8	10.11		
9:57	9.57	6.75		3.0	10.06		
11:54	11.54	6.33		3.4	9.63		
12:49	12.49	6.60		3.4	9.86		
1:59	1:59	6.47		3.8	11.89		
	2:57	6.43		3.0	11.54		

SIGNED _____