

Environment

Prepared for:

Superfund Standby Program NYSDEC Albany, NY Prepared by:

AECOM Chestnut Ridge, NY 60277021 April 2014

Periodic Review Report Review Period: October 30, 2009 through January 30, 2014 Liberty Industrial Finishing Site Site #1-52-108 Work Assignment No. D007626-17

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Engineering Certification

I, Scott A. Underhill, certify that I am currently a NYS registered professional engineer and that this Periodic Review Report for the Liberty Industrial Finishing Site (Site Number # 1-52-108) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Respectfully submitted,



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Executive Summary

The Periodic Review Report (PRR) of the Liberty Industrial Finishing Site (the "Site") was prepared for the New York State Department of Environmental Conservation (NYSDEC), Division of Environmental Remediation (DER) by AECOM Technical Services Northeast, Inc. (AECOM). The PRR was conducted in general conformance with NYSDEC guidance (DER-10). The purpose of the PRR is to evaluate the effectiveness of historical remedial actions at achieving the remedial goals specified for the Site in the Record of Decision (ROD) dated March 1999. The period of review for this report is October 30, 2009 through January 30, 2014.

The ROD specified the site related contaminants of concern (COCs) to include metals (cadmium, chromium, copper, nickel, and zinc) in all site media and semivolatile organic compounds (SVOCs) [phenol, benzo(k)anthracene, chrysene, and benzo(a)pyrene] in sediment/sludge from the stormwater dry wells. All of the remedial work specified in the ROD was completed in September 2001. The results of these remedial actions were reported in the Final Remediation Report dated July 2002. The remedial actions performed at the site have effectively achieved the goals of the ROD with respect to mitigation of potential impacts to human health and the environment from on-site soil and sediment. The remedial measures excavated and removed impacted soil and sediment to concentrations below applicable cleanup criteria or prevented the infiltration of precipitation through impacted media where excavation was deemed impractical. The six former underground storage tanks (USTs) were properly abandoned in place. Due to the close proximity of the Long Island Railroad tracks the USTs could not be removed. In April 2004, NYSDEC issued a declaration that the remedial measures were achieved with respect to soils and sediment. The Site was proposed to be reclassified from Class 2 to Class 4. However, the reclassification was never completed.

Long-term monitoring of the groundwater would be conducted to demonstrate natural attenuation of the residual dissolved phase COCs. The asphalt cap placed over the former USTs would be monitored periodically to verify its integrity.

The natural attenuation of Site related COCs would be evaluated by the periodic sampling and analysis of eight groundwater monitoring wells. Two of the wells (MW-5 and MW-6) are located on site, two of the wells (MW-18 and MW-19) are located in the Brentwood Water District well field, two wells (MW-12 and MW-14) are located immediately downgradient of the COC source area plume, and two wells (MW-21 and MW-20) are located near the leading edge of the dissolved COC plume. The direction of the contaminant plume was defined during the RI as emanating from the former UST area (MW-04) and moving south-southeast towards wells MW-12 and MW-14. The western extent of the plume was defined by shallow monitoring well MW-8, to the east by shallow monitoring well MW-13 and to the south by shallow monitoring well MW-12. The vertical extent of the plume was defined by deep monitoring wells MW-16 and MW-14. Well cluster MW-20/MW-21 was installed downgradient of the leading edge of the plume to act as sentinel wells.

The Final Sampling and Analysis Plan (Earth Tech, June 2007b) for the site includes: groundwater sample collection from eight monitoring wells on a five quarter basis; maintenance of the perimeter fencing and posted environmental warnings to restrict access; and, additional maintenance activities, as necessary, to maintain site conditions. In May 2011 the NYSDEC added five monitoring wells to the sampling program: MW-2, MW-3, MW-4 (shallow monitoring wells) located immediately downgradient of the former USTs), and MW-10 (shallow monitoring well) and MW-16 (deep well) located approximately 130 ft downgradient (southeast) of the former USTs.

Results from the groundwater monitoring indicate that COCs are still present in groundwater at the Site. Cadmium and chromium concentrations in MW-2, MW-3, MW-4, MW-10, MW-16, MW-12 and MW-14 continue to exceed the criterion. Data from the other six monitoring wells are below criteria, indicating a stable plume. Since water quality standards have not been demonstrated at all sampling locations continued monitoring is necessary.

The following recommendations are proposed for the Liberty Industrial Finishing Site:

- Continue monitoring of groundwater on a five quarter sampling basis. The next sampling event is scheduled for February 2015.
- Inspect the condition of the former building slab and asphalt cap on a five-quarter basis (will be performed in conjunction with the groundwater sampling events) and repair as necessary.
- In-situ treatment such as Regenesis Metals Remediation Compound (MRC) should be considered for the Site. MRC is a controlled release product that immobilizes dissolvedphase metals by stabilizing the metals onto soil.
- Surficial soil contamination areas documented by NYSDEC in June 2013 require treatment either through removal or capping. Further vertical delineation is necessary to determine the volume of contaminated soil.
- Finalize the Site Management Plan and record a deed restriction or environmental notice with Suffolk County once the SMP is completed.

1.0 Introduction

1.1 Site History and Remedial Program

The Liberty Industrial Finishing Site, Site Registry# 1-52-108, is located at 550 Suffolk Avenue, Brentwood (Town of Islip), Suffolk County, New York. A Site location map is included as Figure 1.

The Site is approximately 3.9 acres in total area of which 1.3 acres are historically undeveloped. The remainder of the site consists of previously developed areas with remnants of the former building (concrete floor slab), walkways, parking lots, and driveway areas. The Site is located in an area that is primarily residential and light commercial. The Site is zoned for non-residential commercial/industrial use. A current aerial photograph of the Site and surrounding area is included as Figure 1A.

The Site is bound to the north by Suffolk Avenue, to the east by commercial properties, to the south by the Long Island Rail Road (LIRR), and to the west by a gasoline retailer and a shopping plaza. The parcels immediately north of Suffolk Avenue are undeveloped. Immediately south of the LIRR are the Town of Islip Athletic fields and the water supply wells for the Brentwood Water District. The Brentwood municipal water supply wells are less than 500 feet south of the Site.

Liberty Industrial Finishing Products was a metal finishing facility engaged in finishing and plating of components used primarily in the aircraft industry. Metal finishing activities included passivation, phosphotization, electroplating, conversion coating, anodizing, painting, and non-destructive testing. Industrial operation of the facility spanned the period from 1978 through 1997. When active, the industrial operation at the Site included a 30,000-square foot factory building, six underground storage tanks (USTs) for plating process and wastewater, sanitary leaching pools, and stormwater drywells. The USTs were equipped with "emergency" overflow pipes that discharged to the on-site leaching pools.

1.2 Remedy Evaluation and Recommendations Summary

This Periodic Review Report is intended to evaluate the ongoing management of the selected remedial program for the Site as detailed in the March 1999 ROD (appendix B). A review of the March 1999 ROD found no mention of institutional controls for the Site. Further review of the NYSDEC project archives also found no mention of institutional controls for the Site. A NYSDEC Memorandum dated August 30, 2004, indicated that a deed restriction document was started by NYSDEC. However, the document was not signed. In addition, a handwritten note in the document indicated the process was terminated as there was no property owner or property title on which to impose a deed restriction (Appendix B). Implementation of investigation and maintenance activities is

required in order to verify that the remedy is performing properly and effectively, and is protective of human health and the environment.

In order to maintain compliance with the requirements presented in the ROD, a summary of recommended investigation and maintenance activities is provided below. Details with regard to these recommendations are also provided in Section 5.0 of this Report.

- Groundwater sample collection from thirteen monitoring wells (MW-2, MW-3, MW-4, MW-5, MW-6, MW-10, MW-12, MW-14, MW-16, MW-18, MW-19, MW-20, and MW-21) on a five quarter basis;
- Inspection of the asphalt cap placed over the former USTs to verify that the engineering control continues to be effective;
- Maintenance of the perimeter fencing and posted environmental warnings to restrict site access; and,
- Additional maintenance activities, as necessary, to maintain site conditions.

A Site Management Plan (SMP) is currently in review at NYSDEC. Once approved, the requirements of the SMP will be implemented.

2.0 Site Overview

AECOM has prepared this PRR for the Liberty Industrial Finishing Site, located in the Town of Brentwood, Suffolk County, New York. This PRR covers the period of October 30, 2009 through January 30, 2014. This work was performed for the New York State Department of Environmental Conservation (NYSDEC) under Work Assignments D004445-14.3 and D007626-17. The NYSDEC has assigned the Site ID No. 1-52-108 in the NYSDEC's registry of inactive hazardous waste sites. Liberty Industrial Finishing is a Class 2 site.

2.1 Objectives of the Periodic Review

The periodic review process is used for determining if a remedy continues to be properly managed as set forth in the guidance documents for the Site, and is protective of human health and the environment. The objectives of the periodic review for sites in the State Superfund Program are as follows:

- Determine if the remedy remains in place, is performing properly and effectively, and is
 protective of public health and the environment;
- Evaluate compliance with the decision document(s) and the SMP;
- Evaluate the condition of the remedy;
- Verify, if appropriate, that the intent of Institutional Controls (IC) continues to be met, and that Engineering Controls (EC) remain in place, are effective and protective of public health and the environment;
- Evaluate the implemented remedies' effectiveness towards moving the Site to closure; and,
- Evaluate costs.

2.2 Remedial History

Shortly after operations began at the Site, concerns for public health and the environment resulting from operational and waste handling practices at the Site were investigated by the Suffolk County Department of Health Services (SCDHS). In 1982, surface and subsurface discharges of waste water were addressed in an Order of Consent between Liberty and the SCDHS. Corrective actions were implemented to eliminate the discharge of industrial waste water to the environment and the order was reportedly satisfied.

An inspection conducted by NYSDEC in 1984 identified deficiencies in Site hygiene and waste handling practices. Samples were collected of the liquids in the sanitary leeching pool, the storm water dry well, and a soil sample was collected near the northeast corner of the building. These samples reportedly contained elevated concentrations of 1,1,1-trichloroethane, cadmium, chromium,

and lead. The sanitary system and the storm water dry well were subsequently pumped out and cleaned (July 1985).

A Phase II Site Investigation was performed in 1987. The results of the investigation reported concentrations of chromium in the onsite groundwater at concentrations exceeding the Class GA groundwater criterion (NYSDEC Technical and Operational Guidance Series). The Site was subsequently classified as a Class "2a" site on the Registry of Inactive Hazardous Waste Disposal Sites on December 12, 1987. Class "2a" was a temporary listing pending further investigation into the effects the site has on health and the environment.

A Phase II Supplemental Site Investigation was performed in 1991. Chromium was reported in the on-site groundwater at concentrations ranging from 2,300 μ g/l to 5,800 μ g/L. Additionally, sediment/soil in the leaching pool contained elevated concentrations of cyanide (11,500 μ g/L). An emergency remedial measure removed a total of 45 inches of sediment/soil from the bottom of the leaching pool (1992). As a result of the Phase II supplemental site investigation, the Site was reclassified as a Class "2" site on the Registry of Inactive Hazardous Waste Disposal Sites in February of 1994.

A Consent Order (March 1996) required that the facility conduct a Focused Remedial Investigation (FRI) to determine the extent of contamination within the six USTs and the emergency leaching pool. FRI activities were never implemented by Liberty Industrial Finishing due to financial constraints.

In 1997, Liberty Industrial Finishing removed waste materials from the on-site building. Wastes removed and disposed of include:

- cyanide plating waste;
- phosphates;
- copper strips;
- copper strip sludge;
- metal hydroxide sludge;
- cyanide salts;
- solutions containing chromium and cadmium;
- chromic acid;
- paint waste containing methyl ethyl ketone; and
- vapor degreaser waste containing trichloroethene.

Floors were swept and the material was drummed and disposed of as hazardous waste. Wood floors were removed from the factory building and stored onsite. Flooring was later disposed of by the USEPA as part of an Interim Remedial Action.

A Remedial Investigation (RI) was performed in 1997-1998 for NYSDEC by Dvirka and Bartilucci. Based on the RI, the NYSDEC conducted a supplemental Remedial Investigation/Feasibility Study (RI/FS) of the Site in 1997-1998. The results and conclusions of the supplemental RI/FS were documented in a report published in 1999. Elevated concentrations of regulated metals, specifically chromium, were reported in excess of the applicable cleanup criteria in surface and subsurface soils, drainage structures, and on-site and off-site groundwater.

A ROD for the Site was published by NYSDEC in March 1999. The ROD specified the site related contaminants of concern to include semivolatile organic compounds (phenol, benzo(k)anthracene, chrysene, and benzo(a)pyrene) in the sediment/sludge from the stormwater dry wells, and metals (cadmium, chromium, copper, nickel, and zinc) in all media.

The ROD specified the following remedial goals for the Site:

- Eliminate sources of contamination that exceed cleanup criteria: such as, surface soil, subsurface soil, and stormwater drywell or sanitary leaching pool sediments;
- Eliminate, to the extent practicable, ingestion of Groundwater affected by the Site that does not meet the NYSDEC Class GA Ambient Water Quality Criteria;
- Mitigate potential impacts to the environment from contaminated groundwater by natural attenuation; and,
- Eliminate the potential for direct human contact with contaminated soil onsite.

To achieve the goals of the ROD remedial measures were performed. These measures included:

- Clean-out of sediments in the stormwater and sanitary leaching galleries;
- Removal of on-site hazardous wastes;
- Delineation, excavation and disposal of on-site and off-site impacted soils;
- Cleaning and closure in place of USTs and associated piping;
- Placement of impermeable asphalt cap over USTs and associate piping;
- Demolition and removal of the building;
- Installation of perimeter security fence; and,
- Installation and periodic sampling of groundwater monitoring wells to assess groundwater quality.

The USEPA conducted an emergency removal action including the removal of waste materials stored in the on-site factory building and the in-place closure of six USTs. Each tank was cleaned and sandblasted, filled to one foot below top with clean soil, and the remaining space (including fill pipes) was plugged with concrete. The tanks were not removed due to the close proximity of the Long Island Rail Road; however, UST in-place closure was determined to be equally protective of human health and the environment. A non-porous asphalt cap was constructed over the UST area to mitigate infiltration of precipitation into the contaminant source area (Figure 2).

All of the removal and in-place closure measures specified in the ROD were completed in September 2001. The results of these remedial actions were reported in the Final Remediation Report (Dvirka and Bartilucci, July 2002). The remedial actions performed at the site have effectively achieved the goals of the ROD with respect to mitigation of potential impacts to human health and the environment from on-site soils and sediment. These measures excavated and removed impacted soil and sediments to concentrations below applicable cleanup criteria or prevented the infiltration of precipitation through impacted media where excavation was deemed impractical.

In April 2004, NYSDEC issued a declaration that the remedial measures were achieved with respect to soils and sediment. The Site was proposed to be reclassified from Class 2 to Class 4; however the reclassification was not completed (Appendix A). Long-term monitoring of the groundwater would be conducted to demonstrate natural attenuation of the residual dissolved phase COCs.

The natural attenuation of site related dissolved phase COCs would be evaluated by the periodic sampling and analysis of eight groundwater monitoring wells (Figure 2). Two of the wells (MW-5 and MW-6) are located on site, two of the wells (MW-18 and MW-19) are located in the Brentwood Water District well field, two wells (MW-12 and MW-14) are located immediately downgradient of the COC source area plume, and two wells (MW-21 and MW-20) are located near the leading edge of the dissolved COC plume. In 2011, NYSDEC added five monitoring wells to the long term sampling program: MW-2, MW-3 and MW-4, located along the southern property boundary and well cluster MW-10/MW-16 located approximately 130 ft south of the former USTs (Figure 2).

3.0 Evaluate Remedy Performance, Effectiveness, and Protectiveness

A SAP (Earth Tech, 2007b) and Project Management Plan (Earth Tech, 2007a) were developed under a previous work assignment (D004445-14). The SAP outlines the following activities on a fivequarter basis:

- Monitoring well inspection: Inspect the eight (five additional wells were added by NYSDEC in 2011) monitoring wells designated for groundwater sampling and complete the NYSDEC Monitoring Well Field Inspection Log for each. Obsolete and damaged wells need to be properly abandoned (no wells have been abandoned at the Site since completion of the remedial action in 2001).
- Groundwater monitoring: 13 wells are designated for periodic groundwater sampling and analysis of target analyte list (TAL) metals (Figure 2).

3.1 Operation and Maintenance Plan Compliance Report

The current operation and monitoring (O&M) program at the Site consists of groundwater monitoring well inspection and repair, and asphalt cap inspection and maintenance.

3.1.1 O&M Plan Compliance

The following summarizes operation and maintenance activities undertaken at the Site from October 2009 through January 2014:

	Requi	ired Freque	Compliance Dates	
Activity	Annually	Five- Quarter	As needed	
Asphalt Cap Inspection		х		
Groundwater Monitoring Well Inspection and Maintenance		х		2006, 2007, 2008, 2010, 2011, 2012 and 2013

3.1.2 Evaluation of O&M Activities

Logs of monitoring well inspections have been submitted to NYSDEC as part of periodic groundwater sampling reports (Earth Tech, 2006, 2007, 2009 and AECOM, 2010, 2011, 2012 and 2013).

3.2 Monitoring Plan Compliance Report

The Final Project Management Plan (Earth Tech, February 2007a) and Final SAP (Earth Tech, 2007b) are referenced as the Site guidance documents. A SMP is currently in review and will be implemented at the Site upon final approval by NYSDEC, replacing the Project Management Plan and SAP.

This PRR assesses whether the site has been managed as set forth in these documents. To date, seven groundwater sampling events have been conducted at the Site. Analysis performed during each sampling event included TAL metal analysis for groundwater. Data reports were finalized in 2006, 2007, 2009, 2010, 2011 and 2012. The November 2013 sampling event report is currently being prepared.

The current monitoring program is as follows:

- Water levels measurements are collected from all Site monitoring wells on a five quarter basis;
- Groundwater sampling is conducted from 13 monitoring wells on a five-quarter basis and analyzed for TAL metals. During the 2011, 2012 and 2013 sampling events, both filtered and unfiltered metals samples were collected; however, this is not part of the long-term monitoring program. The 13 monitoring wells are MW-2, MW-3, MW-4, MW-5, MW-6, MW-10, MW-12, MW-14, MW-16, MW-18, MW-19, MW-20, and MW-21. Field measurements of temperature, pH, conductivity, oxidation reduction potential, dissolved oxygen and turbidity are recorded during each sampling event; and
- Preparation of sampling reports that summarize analytical results of each sampling round.

The first four rounds of groundwater sampling occurred in June 2006, August 2007, November 2008, and March 2010. Eight wells were sampled: MW-5, MW-6, MW-12, MW-14, MW-18, MW-19, MW-20 and MW-21. A summary of well construction data is presented in Table 1. Groundwater samples were analyzed for TAL metals. Prior to sampling, a synoptic round of water level measurements was collected from the eight selected monitoring wells. The locations of the wells are shown on Figure 2.

The fifth round of groundwater sampling occurred in May 2011. At the request of NYSDEC, six additional wells were added to the sampling program: MW-1, MW-2, MW-3, MW-4, MW-10 and MW-16, bringing the total number of wells sampled to 14. However, MW-1 was dry and could not be sampled. In an effort to better understand the metals data collected from monitoring well samples, Round 5 groundwater samples were filtered in the field using 0.45 micron filters and both total and dissolved samples were analyzed for TAL metals. All sampling was conducted in accordance with the June 2007 SAP.

The sixth and seventh round of groundwater sampling occurred in August 2012 and November 2013. Thirteen monitoring wells were included in the sampling program. As during Round 5,

groundwater samples were also filtered in the field using 0.45 micron filters and both total and dissolved samples were analyzed for TAL metals. All sampling was conducted in accordance with the June 2007 SAP. For these groundwater sampling rounds, NYSDEC requested that all groundwater samples be collected using low-flow techniques. Previous sampling was performed using the volumetric method. A peristaltic pump with dedicated poly tubing was used to purge each well prior to sampling. The flow rate was set to between 200 to 500 milliliters per minute (mL/min). Field measurements of pH, temperature, specific conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP) were collected at five-minute intervals until all parameters were stabilized.

3.2.1 Monitoring Plan Compliance Report

The following summarizes monitoring activities at the Site conducted to-date in accordance with the SAP. AECOM conducted sampling events at the Liberty Industrial Finishing Site in June 2006, August 2007, November 2008, March 2010, May 2011, August 2012 and November 2013:

Activity	Required Frequency (X)	Compliance Dates
Activity	Five Quarter	
Groundwater Monitoring	Х	2006-2013
Water Level Monitoring	Х	2006-2013

Groundwater Level Measurement

Groundwater level measurements from 2006 through 2013 in the 13 monitoring wells (8 in 2006 through 2010) are presented in Table 2. Comparison of the groundwater elevations in the monitoring wells shows that the general groundwater flow direction is towards the south-southwest. A groundwater contour map is presented in Figure 3 using data from the November 2013 sampling event. A groundwater hydrograph is shown in Figure 4.

3.2.2 Confirm that Performance Standards are Being Met

The sections below discuss the results of the groundwater sampling conducted in accordance with the guidance documents and provide a summary of the results.

Groundwater

Thirteen monitoring wells are included in the long term monitoring plan: MW-2, MW-3, MW-4, MW-5, MW-6, MW-10, MW-12, MW-14, MW-16, MW-18, MW-19, MW-20, and MW-21 and are shown on Figure 2. Laboratory analytical results for the TAL metal analyses have been provided in the groundwater monitoring reports in for the seven sampling events that occurred in June 2006, August 2007, November 2008, March 2010, May 2011, August 2012 and November 2013. The summary of

groundwater results for these sampling events is presented in Table 3. A summary of groundwater results is presented in Figure 5.

Concentrations of ten metals have been detected above the Class GA criterion in monitoring wells at the Site at least once during the six sampling events. These metals include antimony, cadmium, chromium, copper, iron, lead, manganese, selenium, sodium and thallium.

Antimony - Class GA criterion of 3 µg/L

- June 2006 Detected in six of eight monitoring wells, two exceedances, maximum concentration of $3.7 \ \mu$ g/L in MW-5.
- August 2007 Detected in five of eight monitoring wells, five exceedances, maximum concentration of 11.2 µg/L in MW-12.
- November 2009 Detected in one of eight monitoring wells, MW-18, which exceeded the criterion at 9 μ g/L.
- March 2010 Detected in three of eight monitoring wells, three exceedances, maximum concentration of 13.9 µg/L in MW-12.
- May 2011 Not detected in any of the 13 monitoring well samples (filtered or unfiltered samples).

August 2012 – Detected in one of 13 monitoring wells, one exceedance, 11.9 µg/L in MW-21D.

November 2013 – Detected in one of 13 monitoring wells, no exceedances (filtered or unfiltered samples).

Cadmium – Class GA criterion of 5 µg/L

June 2006 – Detected in six of eight monitoring wells, no exceedances.

- August 2007 Detected in all eight monitoring wells, three exceedances, maximum concentration of 12.6 µg/L in MW-6.
- November 2008 Detected in six of eight monitoring wells, two exceedances, maximum concentration of 59.1 µg/L in MW-14.
- March 2010 Detected in four of eight monitoring wells, two exceedances, maximum concentration of $205 \ \mu g/L$ in MW-12.
- May 2011 Detected in nine of 13 unfiltered samples, seven exceedances, maximum concentration of 54.8 µg/L in MW-12. Detected in nine of 13 filtered samples, four exceedances, maximum concentration of 19.8 in MW-4.
- August 2012 Detected in eight of 13 unfiltered samples, four exceedances, maximum concentration of 36.1 µg/L in MW-10. Detected in six of 13 filtered samples, three exceedances, maximum concentration of 34.9 µg/L in MW-10.
- November 2013 Detected in six of 13 unfiltered samples, three exceedances, maximum concentration of 49.0 μg/L in MW-10. Detected in five of 13 filtered samples, two exceedances, maximum concentration of 50.0 μg/L in MW-10.

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Chromium – Class GA criterion of 50 µg/L

June 2006 – Detected in all eight monitoring wells, one exceedance, 95.8 µg/L in MW-14.

August 2007 – Detected in all eight monitoring wells, one exceedance, 248 µg/L in MW-14.

- November 2008 Detected in six of eight monitoring wells, one exceedance, 69.6 µg/L in MW-14.
- March 2010 Detected in all eight monitoring wells, two exceedances, maximum concentration of 251 µg/L in MW-12.
- May 2011 Detected in all 13 unfiltered samples, six exceedances, maximum concentration of 176 μ g/L in MW-4. Detected in 11 of 13 filtered samples, two exceedances, maximum concentration of 142 μ g/L in MW-4.
- August 2012 Detected in all 13 unfiltered samples, maximum concentration of 152 μg/L in MW-10. Detected in ten of 13 filtered samples, maximum concentration of 155 μg/L in MW-10.

November 2013 – Detected in five of 13 unfiltered samples, maximum concentration of 170 μ g/L in MW-14. Detected in three of 13 filtered samples, maximum concentration of 140 μ g/L in MW-10.

Copper - Class GA criterion of 200 µg/L

June 2006 - Detected in five of eight monitoring wells, no exceedances.

- August 2007 Detected in all eight monitoring wells, no exceedances.
- November 2008 Detected in four of eight monitoring wells, no exceedances.
- March 2010 Detected in six of eight monitoring wells, one exceedance, 377 µg/L in MW-12.
- May 2011 Detected in nine of 13 unfiltered samples, no exceedances. Detected in three of 13 filtered samples, no exceedances.
- August 2012 Detected in nine of 13 unfiltered samples, no exceedances. Detected in three of 13 filtered samples, no exceedances.

November 2013 – Not detected in any of the 13 samples (unfiltered or filtered).

Iron – Class GA criterion of 300 µg/L

- June 2006 Detected in all eight monitoring wells, three exceedances, maximum concentration of 1,710 µg/L in MW-20.
- August 2007 Detected in all eight monitoring wells, six exceedances, maximum concentration of 10,900 µg/L in MW-12.
- November 2008 Detected in six of eight monitoring wells, three exceedances, maximum concentration of 9,320 µg/L in MW-14.
- March 2010 Detected in all eight monitoring wells, five exceedances, maximum concentration of 38,100 µg/L in MW-12.

- May 2011 Detected in 12 of 13 unfiltered samples, six exceedances, maximum concentration of 11,300 µg/L in MW-12. Detected in six of 13 filtered samples, two exceedances, maximum concentration of 1,620 in MW-12.
- August 2012 Detected in 12 of 13 unfiltered samples, nine exceedances, maximum concentration of 2,000 µg/L in MW-4. Detected in six of 13 filtered samples. Maximum concentration of 1,180 µg/L in MW-14.

November 2013 – Detected in seven of 13 unfiltered samples, seven exceedances, maximum concentration of 6,000 µg/L in MW-14. Detected in one of 13 filtered samples, maximum concentration of 930 µg/L in MW-14.

Lead - Class GA criterion of 25 µg/L

June 2006 – Detected in four of eight monitoring wells, no exceedances.

- August 2007 Detected in all eight monitoring wells, one exceedance, 106 µg/L in MW-12.
- November 2008 Detected in four of eight monitoring wells, two exceedances, 221 µg/L in MW-14.
- March 2010 Detected in five of eight monitoring wells, two exceedances, maximum concentration of 553 μ g/L in MW-12.
- May 2011 Detected in four of 13 unfiltered samples, two exceedances, maximum concentration of 230 µg/L in MW-12. Not detected in any of the 13 filtered samples.
- August 2012 Detected in two of 13 unfiltered samples, no exceedances. Detected in two of 13 filtered samples, no exceedances.

November 2013 – Detected in three of 13 unfiltered samples, one exceedance, 53 µg/L in MW-14. Detected in one of 13 filtered samples, no exceedances.

Manganese - Class GA criterion of 300 µg/L

June 2006 - Detected in all eight monitoring wells, no exceedances.

August 2007 – Detected in all eight monitoring wells, one exceedance, 547 µg/L in MW-18.

- November 2008 Detected in six of eight monitoring wells, one exceedance, 627 µg/L in MW-21.
- March 2010 Detected in all eight monitoring wells, one exceedance, 312 µg/L in MW-18.
- May 2011 Detected in ten of 13 unfiltered samples, two exceedances, maximum concentration of 597 µg/L in MW-16. Detected in six of 13 filtered samples, two exceedances, maximum concentration of 623 µg/L in MW-12.
- August 2012 Detected in ten of 13 unfiltered samples, one exceedance, 661 µg/L in MW-16. Detected in six of 13 filtered samples, two exceedances, maximum concentration of 632 µg/L in MW-16.
- November 2013 Detected in four of 13 unfiltered samples, two exceedances, maximum concentration of 1,200 µg/L in MW-18. Detected in three of 13 filtered samples, two exceedances, maximum concentration of 530 µg/L in MW-16.

Selenium – Class GA criterion of 10 µg/L

June 2006 – Detected in four of eight monitoring wells, no exceedances.

August 2007 - Detected in two of eight monitoring wells, no exceedances.

November 2008 – Not detected in any of the eight monitoring wells.

March 2010 – Detected in one of eight monitoring wells, one exceedance, 13.4 µg/K in MW-12.

May 2011 - Not detected in any of the 13 unfiltered or filtered samples.

August 2012 - Not detected in any of the 13 unfiltered or filtered samples.

November 2013 – Not detected in any of the 13 unfiltered or filtered samples.

Sodium – Class GA criterion of 20,000 µg/L

- June 2006 Detected in all eight monitoring wells, four exceedances, maximum concentration of 31,900 in MW-14.
- August 2007 Detected in all eight monitoring wells, four exceedances, maximum concentration of 31,100 μg/L in MW-20.
- November 2008 Detected in all eight monitoring wells, four exceedances, maximum concentration of $561,000 \ \mu$ g/L in MW-14.
- March 2010 Detected in all eight monitoring wells, two exceedances, maximum concentration of 39,600 µg/L in MW-2.
- May 2011 Detected in all 13 unfiltered samples, six exceedances, maximum concentration of 38,400 µg/L in MW-20. Detected in all 13 filtered samples, six exceedances, maximum concentration of 40,300 µg/L in MW-20.
- August 2012 detected in all 13 unfiltered samples, four exceedances, maximum concentration of 30,800 in MW-3. Detected in all 13 filtered samples, four exceedances, maximum concentration of 31,000 in MW-3.
- November 2013 detected in all 13 unfiltered samples, four exceedances, maximum concentration of 38,000 in MW-3. Detected in all 13 filtered samples, four exceedances, maximum concentration of 35,000 in MW-3.

Thallium – Class GA criterion of 0.50 µg/L

June 2006 – Not detected in any of the eight monitoring wells.

August 2007 – Detected in two of eight monitoring wells, two exceedances, maximum concentration of $3.4 \mu g/L$ in MW-14.

November 2008 – Not detected in any of the eight monitoring wells.

March 2010 – Not detected in any of the eight monitoring wells.

May 2011 – Not detected in any of the 13 unfiltered or filtered samples.

August 2012 – Not detected in any of the 13 unfiltered or filtered samples.

November 2013 – Not detected in any of the 13 unfiltered or filtered samples.

Filtered versus Unfiltered Metals Groundwater Samples

Concentrations of total metals in groundwater samples at the Site tended to be highly variable between different sampling events, as did field measurements of turbidity at time of sample collection. Turbidity is correlated with the presence of suspended matter (e.g., entrained soil particles in the sample). Therefore in Round 5 (May 2011), Round 6 (August 2012) and Round 7 (November 2013) total metals (unfiltered) and dissolved metals (field filtered) groundwater samples were collected to evaluate the effect of turbidity on the metals concentrations.

The NYSDEC turbidity criterion is 50 nephelometric turbidity units (NTU) or less for well development and groundwater sampling (TAGM 4015; NYSDEC, 1988). At the Liberty Industrial Finishing Site, the turbidity was below 50 NTU at the time of sampling in all 13 samples during Round 7, ranging from 0 to 38.5 NTU (see the bottom row of Table 4). The turbidity was less than 20 NTU in ten samples and above 30 NTU in three samples. The total metals concentrations was expected to be higher in the more turbid samples with only small differences between the total metals and dissolved metals concentrations in samples with low turbidity. As all the Round 7 samples at the Site could be considered 'low turbidity' (i.e., all samples met the NYSDEC criterion of 50 NTU or less), it is somewhat difficult to evaluate differences among the samples although an apparent relationship between turbidity as measured in the field, and metals concentrations (e.g., aluminum) in the unfiltered samples.

Table 4 presents a comparison of the total metals and the dissolved metals data for the 13 filtered/ unfiltered sample pairs collected at the Liberty Site. The "percent dissolved" shown on the table is the ratio of the filtered sample concentration to the total (unfiltered) sample concentration.

Concentrations of metals primarily in the dissolved phase (sodium, potassium, and calcium) are not expected to be affected by filtering. Note also that depending on the redox conditions, magnesium may also be generally found in only the dissolved form. Hence the two samples (filtered and unfiltered) should essentially act as field duplicate samples for these parameters, and the concentrations in the filtered/unfiltered pairs would be expected to be very similar (e.g., the filtered/unfiltered ratio is close 100% +/- 10%). The filtered/unfiltered pairs for these four compounds were generally similar in the filtered and unfiltered samples indicating good reproducibility in the sampling/analytic process, with one exception. In the MW-5 pairings the concentration of sodium in the filtered sample was 120.9 percent than the unfiltered, although the calcium ratio was only 112.5 percent.

Most of the other metals are expected to be generally associated with solid particles. Therefore the concentration in the filtered samples would range from similar to the unfiltered samples (for those wells with very low turbidity) to significantly lower for those wells with high turbidity (as long as the concentration are sufficiently higher than the detection for an accurate comparison). This is the case for all well samples.

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Surficial Soil Sampling – June 2013

In June 2013, NYSDEC personnel collected 25 soil samples from 14 locations around the Site. The locations are shown on Figure 6. At 11 locations, both surface (0 to 2 inches below ground surface) and subsurface (2 to 6 inches below ground surface) soil samples were collected. At two locations, only surface soil samples were collected and at one location, only a subsurface soil sample was collected. Samples were analyzed for TAL Metals. The results were compared to the NYSDEC restricted use categories as shown on Table 5.

Three locations were sampled from the wooded area west of the Site (SS-01, SS-02 and SS-03). Metals concentrations indicate that surficial lead exceeded the unrestricted use criterion but were below the restricted residential criterion. Subsurface samples from these three locations were all below the unrestricted use criteria.

Two locations (SS-06 and SS-07) were sampled in the wooded area east of the Site. All metals results for surface and subsurface soil samples were below the unrestricted use criteria.

Two sample locations (SS-04 and SS-05) were along the northern property boundary near Suffolk Avenue. In the two surficial soil samples, concentrations of lead and zinc exceeded the unrestricted residential use criterion but were below the restricted residential criterion. Surficial cadmium concentrations at SS-04 exceeded the residential criterion but were below the restricted residential criterion. The two subsurface samples were below the unrestricted criteria.

Five locations were sampled off the western side of the former concrete building slab (SS-08 through SS-12). At SS-08, the surficial chromium concentration was above unrestricted use criteria but below the residential criteria. The subsurface sample had an arsenic concentration above the unrestricted use criteria but below the residential use criteria. All other concentrations were in the unrestricted use criteria. At SS-09, only a subsurface soil sample was collected and all metals were below the unrestricted use criteria. Samples from SS-10, SS-11 and SS-12 had cadmium concentrations that grouped these samples into the commercial or industrial use criteria. The surficial soil sample at SS-11 exceeded the industrial criterion. Concentrations of chromium at three locations placed the samples in the restricted residential criteria. Concentrations of copper, nickel and zinc were below the residential use criteria.

Three samples were collected off the eastern side of the former building concrete slab (SS-13, SS-14 and SS-15). Metals concentrations for the surface and subsurface sample at SS-13 were all below the unrestricted sue criteria. The surficial soil cadmium concentration at SS-14 placed it in the industrial category and chromium in the residential category. Sampling location SS-15 was proposed but field conditions prevented NYSDEC personnel from collecting a sample.

3.3 IC/EC Certification Plan Report

The Institutional and Engineering Controls Certification Form generated by NYSDEC indicates that the following controls are applicable to the Site:

- Access to off-site monitoring wells on Brentwood Water District and Suffolk County property;
- Groundwater use restriction;
- Adherence to the Site Management Plan;
- Any future development of the Site must be hooked in to the public water supply; and
- Any future development must not disturb the slab which is serving as a cap cover system.

Engineering controls at the Site consist of:

- Engineered Asphalt Cap;
- Fencing/Access Control; and
- Signage and Notification.

Comparison of DER-10, Unified Information System and Actual Site Conditions

DER-10	Unified Information System	Actual Site Conditions
Closure of underground storage tanks	IRM completed in October 1990, removed approximately 1,960 cubic yards of contaminated soils	Contaminated soil removed from area of former oil/water separator and former dry wells
Closure of dry wells	Not mentioned	Area was paved over after the remediation work was completed
Containment / Isolation	Not mentioned	Asphalt cap over the closed-in-place USTs

3.3.1 IC/EC Requirements and Compliance

Determination of compliance with the IC/EC at the Site is made based on the following criteria:

- The IC(s)/EC(s) applied at the site are in place and unchanged from the previous certification;
- Nothing has occurred that would impair the ability of such controls to protect the public health and the environment, or constitute a violation or failure to comply with any element of the SMP for such controls; and

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• Access to the Site will continue to be provided to the NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of such controls (*future access cannot be guaranteed, but access for maintenance and inspections has not been an issue to date, and is not anticipated to become one*).

Currently, certification that the site ICs/ECs are in compliance with the requirements stated above, cannot be completed because of the following deficiencies:

- Deed restrictions have not been placed on the parcels of concern.
- The asphalt cap has not been properly inspected.
- The security fence surrounding the property is not secured and local teenagers have accessed the site and are using the former building concrete slab as a skateboard park.

Detailed descriptions of the deficiencies identified at the Site and the severity presented is included in Section 5.0, including a proposed schedule to utilize in bringing the Site into compliance with the EC Certification requirements.

3.3.2 IC/EC Certification Forms

See Appendix A.

4.0 Evaluate Costs

The timeframe for this PRR spanned two work assignments. The costs are summarized below.

PRR costs from 10/30/09 through 1/30/14

Cost incurred during the PRR	timeframe:	\$126,000			
<u>Budget Breakdown</u>	<u>Cost</u>	<u>Comments</u>	<u>Average</u> <u>Cost</u>		
Field Work					
Groundwater Sampling &					
OM&M	\$42,000	Four sampling events	\$10,500		
Laboratory	\$10,500	Four sampling events	\$2,600		
Reports					
Groundwater Reports	\$36,600	Four reports	\$9,100		
SMP	\$10,400	Draft			
PRR	\$19,600	One completed, one draft			
MRC Work Plan	\$6,900	Draft			

Note:

Sampling in 2010 included 8 wells, increased in 2011 to include 13 wells

4-1

5.0 Conclusions and Recommendations

5.1 Conclusions

The ROD specified four remedial goals. Each of these remedial goals and results from the remedial efforts for the Site are discussed below.

 Elimination of constituents that exceed NYSDEC Commercial-use soil cleanup objectives (SCOs):

This goal has been effectively achieved through excavation and removal of impacted soil and sediments and permanent closure of the USTs. Residually impacted soils associated with the source areas have been isolated by capping with an impermeable barrier; though the June 2013 soil data indicates additional impacts above Commercial-use SCOs.

2. Elimination, to the extent practicable, of the migration of groundwater affected by the Site that does not meet the NYSDEC Class GA Ambient Water Quality Criteria (Class GA):

Groundwater at the Site is still impacted with COCs above the Class GA criteria. The plume will continue to migrate until the COCs are diluted and dispersed to a concentration below the Class GA criteria. The selected remedy of natural attenuation in conjunction with the appropriate monitoring is currently being implemented. The asphalt cap will be inspected and monitored periodically. The asphalt will be repaired as needed.

3. Mitigation of potential impacts to the environment from contaminated groundwater by natural attenuation.

This goal has not yet been achieved, as documented by the following:

- Several metals have been detected above their respective Class GA criterion including: antimony, copper, lead, selenium, and thallium. However, the exceedances are sporadic and do not appear related to the Site. However, two COCs, cadmium and chromium, have been consistently detected at concentrations exceeding applicable criteria in numerous monitoring wells during the previous seven long term monitoring sampling events (2006 through 2013).
- Cadmium has been detected in all 13 monitoring wells sampled during the long term monitoring (Figures 7 and 8). Concentrations have exceeded the Class GA criterion in nine of the 13 monitoring wells at least once during the seven long term monitoring events and has been above the criterion during every sampling event at MW-4 and MW-10 (Figure 7).
- Chromium has been detected in a majority of groundwater samples collected at the Site and has exceeded the criterion at least twice in six monitoring wells (Figures 9 and 10).

- The available data set is insufficient to evaluate trends and predict future sampling results other than to show exceedances of cadmium and chromium in several monitoring wells have been fairly consistent over the past few sampling rounds. The data indicate that the remedial actions performed to date have removed and/or isolated impacted soils that could act as a sustaining source, though the June 2013 data shows exceedances of cadmium and chromium in the surface soils. The potential exists for cadmium and chromium impacted soils to exist at depth at the site further investigation is required to determine the impacts to deeper soils. The cadmium and chromium groundwater plumes to not appear to be migrating south of the MW-12/MW-14 cluster.
- Based on the currently available data, additional monitoring, performed on a 5-quarter rotation, is required to increase the data set so that the effects of natural attenuation can be evaluated and achievement of this goal evaluated.
- 4. Elimination of the potential for direct human contact with contaminated soil onsite.
 - On-site soil sampling conducted in June 2013 by NYSDEC personnel indicates that two areas require remedial measures to prevent human contact with contaminated surficial soils (Figure 6).
 - A fence has been installed to prevent unauthorized entry onto the site. However, local teenagers have entered the Site and are using the former building concrete slab for a skate park.
 - Inspection and maintenance of the asphalt cap covering the residually impacted soils associated with the former USTs will be included in future long term monitoring.
- 5. Site Management Plan.
 - A Site Management Plan will be prepared for use during the continued long term monitoring at the Site.

5.2 Recommendations

The following recommendations are proposed for the Liberty Industrial Finishing Site:

- Continue monitoring of groundwater on a five quarter sampling basis. The next sampling event is scheduled for February 2015.
- Inspect the condition of the former building slab and asphalt cap on a five-quarter basis (will be performed in conjunction with the groundwater sampling events). Repair cracks and/or potential leak points as needed to prevent infiltration through residually impacted soil around former USTs. The next inspection is scheduled for February 2015.
- In-situ treatment of the metals: Regenesis Metals Remediation Compound (MRC) should be considered for the Site. MRC is a controlled release product that immobilizes dissolved-phase metals by stabilizing the metals onto soil. A pilot test should be completed to

evaluate the effectiveness of MRC. Immobilization of COCs would greatly reduce the monitoring time for the site as required by the current natural attenuation remedy.

- Evaluate treatment options of two surficial soil contamination areas documented by NYSDEC in June 2013. Option one is to extend the current asphalt cap over the two contaminated soil areas. Option two is excavation and off-site disposal of the contaminated soils. To install an asphalt cap over the two contaminated soil areas, approximately 6inches of soil would need to be removed to allow for the installation of an asphalt cap that would be flush with the current cap and concrete slab. If the contamination does not extend much beyond six inches, complete removal of the contamination would be preferable to capping. Further vertical delineation is necessary to determine the volume of contaminated soil in these two areas.
- Finalize the Site Management Plan. Upon completion of the Site Management Plan, record a deed restriction or environmental notice with Suffolk County.

6.0 References

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NYSDEC, 1999. Record of Decision, Liberty Industrial Finishing Site, Town of Islip, Suffolk County, Site Number 1-52-108. March 1999.

NYSDEC, 2004. Memorandum to initiate the reclassification of the Liberty Industrial Finishing Site (Site No. 1-52-108) from Class 2 to Class 4 (never completed). August 30, 2004.

Tables

TABLE 1LIBERTY INDUSTRIAL FINISHING SITE (1-25-108)WELL CONSTRUCTION DATA

				Top of	Top of	Total
Well			Ground	Riser	Casing	Depth
Number	Northing	Easting	Elevation	Elevation	Elevation	of Well
MW-1	202,384.57	2,206,633.80	92.92	91.57	92.92	42.5
MW-2	202,371.27	2,206,596.31	92.87	91.27	92.87	54.2
MW-3	202,360.99	2,206,568.43	93.08	91.25	93.08	53.9
MW-4	202,344.02	2,206,522.24	93.09	91.61	93.09	53.4
MW-5	202,308.86	2,206,350.98	92.19	93.32	93.60	50.0
MW-6	202,306.77	2,206,341.15	92.09	92.71	92.79	265.0
MW-10	202,243.14	2,206,590.12	91.84	90.40	91.84	50.0
MW-12	201,973.43	2,206,863.98	91.08	89.59	89.79	49.3
MW-14	201,966.33	2,206,866.03	91.12	89.55	89.77	100.0
MW-16	202,243.14	2,206,611.76	91.97	90.48	91.97	99.2
MW-18	202,101.70	2,206,373.86	93.14	91.55	92.03	150.0
MW-19	202,102.30	2,206,386.65	93.32	91.98	92.19	248.0
MW-20	201,798.92	2,206,946.09	90.27	88.59	89.08	149.5
MW-21	201,798.35	2,206,950.31	90.33	88.66	89.15	110.5

All elevations and depths in feet

Field survey performed by YEC, Inc., on March 23, 2007

(monitoring wells MW-1, 2, 3, 10 and 16 were not surveyed in 2007 as these wells were not included in the sampling at that time, these coordinates are estimated)

Horizontal datum: NAD 1927 State Plan

Vertical datum: NAVD 88, for NGVD 29, add 1.13 feet

TABLE 2 LIBERTY INDUSTRIAL FINISHING SITE (1-52-108) GROUNDWATER ELEVATIONS

Well # (screen interval)	Reference Elevation (ft, NGVD)	Total Depth of Well (ft)	Date	Depth To Water (ft)	Water Table Elevation (ft, NGVD)	Comments
MW-1 (shallow)	91.57		5/24/11 8/21/12 11/5/13	dry dry dry	NA NA NA	No water was observed in the well No water was observed in the well No water was observed in the well
MW-2 (shallow)	91.27	54.2	5/24/11 8/21/12 11/5/13	42.91 44.05 43.21	48.36 47.22 48.06	
MW-3 (shallow)	91.25	53.9	5/24/11 8/21/12 11/5/13	42.90 44.00 45.21	48.35 47.25 46.04	
MW-4 (shallow)	91.61	53.4	5/24/11 8/21/12 11/5/13	43.25 44.36 46.60	48.36 47.25 45.01	
MW-5 (shallow)	93.23	50.0	6/12/06 8/21/07 11/13/08 3/10/10 5/23/11 8/21/12 11/5/13	42.24 43.11 45.40 43.37 44.92 45.99 47.19	50.99 50.12 47.83 49.86 48.31 47.24 46.04	
MW-6 (Magothy)	92.71	265.0	6/12/06 8/21/07 11/13/08 3/10/10 5/23/11 8/21/12 11/5/13	42.19 43.15 45.23 43.12 44.76 45.70 45.95	50.52 49.56 47.48 49.59 47.95 47.01 46.76	
MW-10 (shallow)	90.40	50.0	5/24/11 8/21/12 11/5/13	42.12 43.18 43.10	48.28 47.22 47.30	
MW-12 (shallow)	89.59	49.3	6/14/06 8/24/07 11/13/08 12/23/08 3/10/10 5/24/11 8/21/12 11/5/13	39.09 39.95 42.25 41.81 40.07 41.69 42.75 43.00	50.50 49.64 47.34 47.78 49.52 47.90 46.84 46.59	

AECOM Technical Services Northeast, Inc.

TABLE 2 LIBERTY INDUSTRIAL FINISHING SITE (1-52-108) GROUNDWATER ELEVATIONS

Well #	Reference	Total	· · · · · ·	Depth	Water Table	Comments
(screen	Elevation	Depth of	Date	To Water	Elevation	
interval)	(ft, NGVD)	Well (ft)	-	(ft)	(ft, NGVD)	
MW-14	89.55	100.0	6/14/06	39.13	50.42	
(deep)		1 '	8/24/07	40.00	49.55	
		1 '	11/13/08	42.35	47.20	
J		1 '	12/23/08	41.98	47.57	
		1 '	3/10/10	40.18	49.37	
		1 '	5/24/11	41.82	47.73	
J		1 '	8/21/12	42.86	46.69	
			11/5/13	43.02	46.53	
				1	1	
MW-16	90.48	99.2	5/24/11	42.03	48.45	
(deep)		1 '	8/21/12	43.41	47.07	
			11/5/13	44.63	45.85	
_ MW-18	91.55	150.0	6/22/06	40.76	50.79	
(very deep)	1 /	1 '	8/21/07	41.25	50.30	
	1 /	1 '	11/13/08	43.80	47.75	
		1 '	3/10/10	41.82	49.73	
		1 '	5/24/11	43.41	48.14	
	1 /	1 '	8/21/12	44.47	47.08	
			11/5/13	45.69	45.86	
N/\\/_1Q	01.08	265.0	6/22/06	11.05	50.03	
(Magothy)	91.90	200.0	8/21/07	41.60	50.00	
(magoury)		1 '	11/13/08	41.00	18.08	
		1 '	3/10/10	43.30	40.00	
	1 /	1 '	5/24/11	42.70	43.20	
		1 '	8/21/12	45 51	46.47	
		1 '	11/5/13	44 52	47.46	
			11/3/13	44.52		
MW-20	88.59	149.5	6/14/06	38.29	50.30	
(very deep)		1 '	8/21/07	39.18	49.41	
		1 '	11/13/08	41.20	47.39	
		1 '	3/10/10	39.30	49.29	
		1 '	5/24/11	40.95	47.64	
		1 '	8/21/12	41.99	46.60	
		1	11/5/13	43.24	45.35	
	1 1	1 '	1 !	1		

TABLE 2 LIBERTY INDUSTRIAL FINISHING SITE (1-52-108) GROUNDWATER ELEVATIONS

Well # (screen interval)	Reference Elevation (ft, NGVD)	Total Depth of Well (ft)	Date	Depth To Water (ft)	Water Table Elevation (ft, NGVD)	Comments
MW-21 (deep)	88.66	110.5	6/14/06 8/21/07 11/13/08 3/10/10 5/24/11 8/21/12 11/5/13	38.30 39.20 41.47 39.31 40.94 41.97 43.20	50.36 49.46 47.19 49.35 47.72 46.69 45.46	

All measurements were taken from the top of PVC casing

Well Screen Interval

Shallow - 50 ft bgs Deep - 100 ft bgs Very deep - 150 ft bgs Magothy - 250 ft bgs

TABLE 3 LIBERTY INDUSTRIAL FINISHING SITE (1-52-108) JUNE 2006 THROUGH NOVEMBER 2013 SAMPLING EVENTS SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
Sample ID	Class GA	LMW-2	LMW-2	LMW-2	LMW-2F	LMW-2	LMW-2F
Laboratory ID	Ground	K0943-11	K0943-12	L1807-12	L1808-12	AC75576-029	AC75576-030
Sample Date	Water	5/26/11	5/26/11	8/23/12	8/23/12	11/6/13	11/6/13
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	118 B	ND	602	ND	ND	ND
Antimony	3	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND
Barium	1,000	44.6 B	44.9 B	39.5 B	31.9 B	ND	ND
Beryllium	3	ND	ND	ND	ND	ND	ND
Cadmium	5	8.5	5.5	3.5 B	2.7 B	ND	ND
Calcium	NC	16,300	16,700	20,400	21,500	30,000	29,000
Chromium	50	51.9	48.2	26.7	12.0 B	62.0	59.0
Cobalt	NC	ND	ND	ND	ND	ND	ND
Copper	200	24 B	ND	14.4 B	4.2 B	ND	ND
Iron	300	205	ND	853	ND	ND	ND
Lead	25	ND	ND	ND	ND	ND	ND
Magnesium	35,000	3,180	3,250	3,720	3,870	ND	ND
Manganese	300	ND	ND	17.7 B	ND	ND	ND
Mercury	0.7	ND	ND	ND	ND	ND	ND
Nickel	100	5.5 B	2.7 B	4.6 B	3.3 B	ND	ND
Potassium	NC	2,720	2,610	1,710 E	1,660	ND	ND
Selenium	10	ND	ND	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND
Sodium	20,000	21,300	22,400	21,400	22,900	15,000	16,000
Thallium	0.50	ND	ND	ND	ND	ND	ND
Vanadium	NC	ND	ND	1.4 B	ND	ND	ND
Zinc	2,000	29.2 B	24.8 B	51.0	26.1 B	ND	ND

Notes:

All values in μg/L NC - No NYSDEC criterion E - Estimated value due to interference

N - Spike recovery outside control limits

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

TABLE 3 LIBERTY INDUSTRIAL FINISHING SITE (1-52-108) JUNE 2006 THROUGH NOVEMBER 2013 SAMPLING EVENTS SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
Sample ID	Class GA	LMW-3	LMW-3	LMW-3	LMW-3F	LMW-3	LMW-3F
Laboratory ID	Ground	K0943-13	K0943-14	L1807-13	L1808-13	AC75576-001	AC75576-002
Sample Date	Water	5/26/11	5/26/11	8/23/12	8/23/12	11/4/13	11/4/13
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	346	ND	360	ND	470	ND
Antimony	3	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND
Barium	1,000	19.1 B	18.1 B	28.9 B	27.9 B	ND	ND
Beryllium	3	ND	ND	ND	ND	ND	ND
Cadmium	5	6.6	4.6 B	3.0 B	2.8 B	4.7	3.5
Calcium	NC	16,900	16,800	28,600	29,400	29,000	27,000
Chromium	50	59.6	32.6	118	103	140	95.0
Cobalt	NC	ND	ND	ND	ND	ND	ND
Copper	200	45.5	11.7 B	14.2 B	6.5 B	ND	ND
Iron	300	462	ND	414	45.4 B	650	ND
Lead	25	14.1	ND	ND	ND	8.5	ND
Magnesium	35,000	2710	2,760	5,100	5,180	ND	ND
Manganese	300	11.8 B	ND	ND	ND	ND	ND
Mercury	0.7	ND	ND	ND	ND	ND	ND
Nickel	100	6.7 B	4.3 B	3.8 B	3.4 B	ND	ND
Potassium	NC	1,950	1,770	2,560 E	2,480	ND	ND
Selenium	10	ND	ND	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND
Sodium	20,000	12,400	13,200	30,800	31,000	38,000	35,000
Thallium	0.50	ND	ND	ND	ND	ND	ND
Vanadium	NC	1.4 B	ND	1.1 B	ND	ND	ND
Zinc	2,000	54.9	40.4 B	19.6 B	19.3 B	ND	ND

Notes:

E - Estimated value due to interference

N - Spike recovery outside control limits

ND - Not Detected

NC - No NYSDEC criterion

B - Estimated value

All values in µg/L

BOLD/Italics - Exceeds criterion
Sample Location	NYSDEC	EC MW-4 MW-4		MW-4	MW-4	MW-4	MW-4	
Sample ID	Class GA	LMW-4	LMW-4	LMW-4	LMW-4F	LMW-4	LMW-4F	
Laboratory ID	Ground	K0943-15	K0943-16	L1807-14	L1808-14	AC75576-003	AC75576-004	
Sample Date	Water	5/26/11	5/26/11	8/23/12	8/23/12	11/4/13	11/4/13	
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	
		conc.	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	
Aluminum	NC	2,560	ND	1,980	1,130	310	ND	
Antimony	3	ND	ND	ND	ND	ND	ND	
Arsenic	25	4.8 B	ND	6.4 B	ND	ND	ND	
Barium	1,000	27.1 B	13.2 B	22.8 B	21.6 B	ND	ND	
Beryllium	3	ND	ND	ND	ND	ND	ND	
Cadmium	5	54.2	19.8	28.2	27.3	26.0	21.0	
Calcium	NC	14,200	12,300	18,700	19,600	33,000	30,000	
Chromium	50	176	142	74.9	58.7	ND	ND	
Cobalt	NC	3.3 B	2.6 B	0.73 B	ND	ND	ND	
Copper	200	137	43.5	69.7	58.9	ND	ND	
Iron	300	2,660	109 B	2,000	1,110	320	ND	
Lead	25	43.2	ND	15.5	9.8 B	ND	ND	
Magnesium	35,000	1,710	1,270	2,770	2,870	ND	ND	
Manganese	300	47.1 B	12.3 B	18.4 B	14.4 B	ND	ND	
Mercury	0.7	0.036 B	ND	ND	ND	ND	ND	
Nickel	100	43.5 B	12.8 B	17.5 B	15.8 B	ND	ND	
Potassium	NC	6,600	6,790	2,340 E	2,460	ND	ND	
Selenium	10	ND	ND	ND	ND	ND	ND	
Silver	50	ND	ND	ND	ND	ND	ND	
Sodium	20,000	26,100	29,100	13,400	14,400	21,000	21,000	
Thallium	0.50	ND	ND	ND	ND	ND	ND	
Vanadium	NC	7.0 B	1.2 B	4.9 B	3.2 B	ND	ND	
Zinc	2,000	630	109	257	220	160	130	

Notes:

All values in µg/L

NC - No NYSDEC criterion

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

E - Estimated value due to interference

N - Spike recovery outside control limits

Sample Location	NYSDEC	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
Sample ID	Class GA	LMW-5	LMW-5	LMW-5	LMW-5	LMW-5	LMW-5	LMW-5	LMW-5F	LMW-5	LMW-5F
Laboratory ID	Ground	E0833-01A	F1192-04A	G2136-07A	J0429-01A	K0919-02	K0919-01	L1807-01	L1808-01	AC75576-009	AC75576-010
Sample Date	Water	6/12/06	8/23/07	11/14/08	3/8/10	5/23/11	5/23/11	8/20/12	8/20/12	11/5/13	11/5/13
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc.	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	238	157 B	ND	87.5 BE	ND	ND	245	157 B	ND	ND
Antimony	3	3.7 B	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	2.2 B	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1,000	49.3 B	50.0 B	45.7 B	49.4 B	9 B	8.3 B	56.9 B	60.4 B	ND	ND
Beryllium	3	ND	ND	ND	0.089 B	ND	ND	ND	ND	ND	ND
Cadmium	5	0.13 B	0.51 B	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	NC	19,000	15,000	16,900	14,100	6,280	5400	17,800	18,600	16,000	18,000
Chromium	50	18.2 B	42.2	7.3 B	29.0	1.8 B	0.88 B	1.7 B	1.5 B	ND	ND
Cobalt	NC	0.67 B	1.4 B	ND	ND	ND	ND	ND	ND	ND	ND
Copper	200	23.8 B	10.9 B	ND	ND	ND	ND	ND	ND	ND	ND
Iron	300	198 B	122 B	ND	107 BN	151 BN	54.3 BN	52.4 B	ND	ND	ND
Lead	25	1.3 B	3.4 B	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium	35,000	2,040 E	1,870	2,040	1,830	2,370	2,140	3,210	3,390	ND	ND
Manganese	300	15.1 B	13.7 B	6.8 B	16.5 B	10.4 B	ND	68.2	67.4	ND	ND
Mercury	0.7	ND	ND	ND	0.056 B	ND	ND	ND	ND	ND	ND
Nickel	100	3.3 B	1.1 B	ND	1.2 B	2.5 B	1.3 B	2.3 B	2.9 B	ND	ND
Potassium	NC	4,330	4,500	4,380	4,740	627 B	613 B	5,410 E	5,440	ND	ND
Selenium	10	ND	7.4 B	ND	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	4.0 B	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	4,460	7,800	7,570	6,570	8,000	7,420	18,100	19,000	9,100	11,000
Thallium	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	ND	0.59 B	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	2,000	29.1 B	18.4 B	13.7 B	15.2 B	27.9 B	24.5 B	10.5 B	10.3 B	ND	ND

Notes:

All values in μg/L NC - No NYSDEC criterion

ND - Not Detected

E - Estimated value due to interference

N - Spike recovery outside control limits

B - Estimated value

BOLD/Italics - Exceeds criterion

Sample Location	NYSDEC	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6
Sample ID	Class GA	LMW-6	LMW-6	LMW-6	LMW-6	LMW-6	LMW-6	LMW-6	LMW-6F	LMW-6	LMW-6F
Laboratory ID	Ground	E0833-02A	F1192-09A	G2136-06A	J0429-03A	K0919-04	K0919-03	L1807-03	L1808-03	AC75576-011	AC75576-012
Sample Date	Water	6/12/06	8/24/07	11/14/08	3/8/10	5/23/11	5/23/11	8/20/12	8/20/12	11/5/13	11/5/13
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc.	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	ND	398	ND	50.2 BE	ND	ND	488	ND	ND	ND
Antimony	3	3.1 B	8.0 B	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1,000	24.9 B	29.6 B	15.7 B	11.3 B	34.4 B	33.9 B	14.4 B	2.7 B	ND	ND
Beryllium	3	ND	ND	ND	0.062 B	ND	ND	ND	ND	ND	ND
Cadmium	5	ND	12.6	0.55 B	0.62 B	ND	ND	ND	ND	ND	ND
Calcium	NC	9,880	10,000	8,300	6,120	19,500	20,000	7,700	7,750	5,800	6,100
Chromium	50	0.79 B	28.7	ND	1.9 B	15.7 B	14.7 B	2.1 B	ND	ND	ND
Cobalt	NC	0.31 B	2.2 B	ND	ND	ND	ND	0.86 B	ND	ND	ND
Copper	200	15.6 B	31.3	ND	5.6 B	ND	ND	4.0 B	ND	ND	ND
Iron	300	45.2 B	3,120	147 B	137 BN	ND	ND	338	39.8 B	ND	ND
Lead	25	ND	15.8	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium	35,000	2,980 E	2,630	2,590	1,970	2,190	2,240	3,180	3,180	ND	ND
Manganese	300	5.9 B	60.9	40.8 B	11.4 B	ND	ND	21.8 B	ND	ND	ND
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	3.6 B	12.3 B	2.2 B	1.9 B	ND	ND	2.4 B	2.0 B	ND	ND
Potassium	NC	759 B	1,390	2,060	1,180	3,500	3,530	753 B	552 B	ND	ND
Selenium	10	1.6 B	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	10,100	9,950	11,600	7,660	7,760	7,890	10,000	10,300	7,600	7,700
Thallium	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	ND	2.0 B	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	2,000	24.8 B	118	21.9 B	25.4 B	16.6 B	18.8 B	12.4 B	7.9 B	ND	ND

Notes:

All values in µg/L

NC - No NYSDEC criterion

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

Sample Location	NYSDEC	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	
Sample ID	Class GA	LMW-10	LMW-10	LMW-10	LMW-10F	LMW-10	LMW-10F	
Laboratory ID	Ground	K0943-03	K0943-04	L1807-10	L1808-10	AC75576-005	AC75576-006	
Sample Date	Water	5/26/11	5/26/11	8/23/12	8/23/12	11/4/13	11/4/13	
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	
Aluminum	NC	101 B	ND	159 B	ND	210	ND	
Antimony	3	ND	ND	ND	ND	ND	ND	
Arsenic	25	ND	ND	ND	ND	ND	ND	
Barium	1,000	35.0 B	32.5 B	28.7 B	28.1 B	ND	ND	
Beryllium	3	ND	ND	ND	ND	ND	ND	
Cadmium	5	10.3	11.3	36.1	34.9	49.0	50.0	
Calcium	NC	18,700	18,700	25,900	26,000	28,000	28,000	
Chromium	50	72.7	89.3	152	155	140	140	
Cobalt	NC	ND	ND	ND	ND	ND	ND	
Copper	200	ND	ND	ND	ND	ND	ND	
Iron	300	245	ND	391	ND	420	ND	
Lead	25	ND	ND	ND	ND	ND	ND	
Magnesium	35,000	3,700	3,590	3,640	3,650	ND	ND	
Manganese	300	16.8 B	ND	18.9 B	ND	ND	ND	
Mercury	0.7	ND	ND	ND	ND	ND	ND	
Nickel	100	1.6 B	0.91 B	3.5 B	3.5 B	ND	ND	
Potassium	NC	2,380	2,530	4,810 E	4,770	ND	ND	
Selenium	10	ND	ND	ND	ND	ND	ND	
Silver	50	ND	ND	ND	ND	ND	ND	
Sodium	20,000	17,100	19,300	14,800	14,900	9,200	9,300	
Thallium	0.50	ND	ND	ND	ND	ND	ND	
Vanadium	NC	ND	ND	ND	ND	ND	ND	
Zinc	2,000	27.1 B	21.7 B	ND	ND	ND	ND	

Notes:

All values in μg/L NC - No NYSDEC criterion E - Estimated value due to interference

N - Spike recovery outside control limits

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

Sample Location	NYSDEC	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
Sample ID	Class GA	LMW-16	LMW-16	LMW-16	LMW-16F	LMW-16	LMW-16F
Laboratory ID	Ground	K0943-09	K0943-10	L1807-11	L1808-11	AC75576-007	AC75576-008
Sample Date	Water	5/26/11	5/26/11	8/23/12	8/23/12	11/4/13	11/4/13
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	1,150	586	340	322	1,400	440
Antimony	3	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND
Barium	1,000	299	351	339	339	230	240
Beryllium	3	2.0 B	1.8 B	0.7 B	0.72 B	1.5	1.2
Cadmium	5	5.3	4.9 B	4.2 B	4.3 B	4.4	3.9
Calcium	NC	9,240	9,890	12,100	11,700	9,800	10,000
Chromium	50	11.7 B	8.9 B	2.8 B	2.3 B	ND	ND
Cobalt	NC	ND	ND	ND	ND	ND	ND
Copper	200	9.4 B	11.3 B	66.6	63.0	ND	ND
Iron	300	115 B	ND	49.9 B	ND	1,800	ND
Lead	25	ND	ND	ND	ND	ND	ND
Magnesium	35,000	2,350	2,570	3,740	3,680	ND	ND
Manganese	300	597	623	661	632	570	530
Mercury	0.7	ND	ND	ND	ND	ND	ND
Nickel	100	13.9 B	14.1 B	11.8 B	12.0 B	ND	ND
Potassium	NC	4,930	4,880	6,010 E	5,860	5,100	ND
Selenium	10	ND	ND	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND
Sodium	20,000	14,700	14,500	13,900	13,500	11,000	11,000
Thallium	0.50	ND	ND	ND	ND	ND	ND
Vanadium	NC	ND	ND	ND	ND	ND	ND
Zinc	2,000	67.5	69	34.2 B	33.2 B	ND	ND

Notes:

All values in μg/L NC - No NYSDEC criterion E - Estimated value due to interference

N - Spike recovery outside control limits

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

Sample Location	NYSDEC	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12
Sample ID	Class GA	LMW-12	LMW-12	LMW-12	LMW-12	LMW-12	LMW-12	LMW-12	LMW-12F	LMW-12	LMW-12F
Laboratory ID	Ground	E0833-03A	F1192-05A	G2415-01	J0429-04A	K0919-06	K0919-05	L1807-06	L1808-06	AC75576-023	AC75576-024
Sample Date	Water	6/14/06	8/24/07	12/23/08	3/9/10	5/24/11	5/24/11	8/21/12	8/21/12	11/5/13	11/5/13
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc.	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	445	9,070	2,260	33,600 E	12,000	ND	1,560	ND	810	ND
Antimony	3	1.8 B	11.2 B	ND	13.9 B	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	3.3 B	ND	14.2 B	5.1 B	ND	ND	ND	ND	ND
Barium	1,000	45.2 B	75.4 B	60.5 B	188 B	88.9 B	28.1 B	44.6 B	48.2 B	ND	51
Beryllium	3	0.38 B	0.24 B	0.19 B	2.1 B	0.79 B	ND	ND	ND	ND	ND
Cadmium	5	0.52 B	5.6	25.5	205	54.8	4.5 B	4.4 B	9.3	2.9	ND
Calcium	NC	13,100	26,900	19,700	29,900	23,300	18,700	10,900	28,900	40,000	44,000
Chromium	50	2.5 B	37.5	18.9 B	251	72.8	ND	103	ND	ND	ND
Cobalt	NC	0.63 B	5.5 B	2.6 B	12.8 B	4.1 B	ND	ND	ND	ND	ND
Copper	200	14.9 B	85.3	63.5	377	147	ND	10.6 B	ND	ND	ND
Iron	300	467	10,900	4,080	38,100 N	<i>11,300</i> N	1,620 N	1,740	39.0 B	740	ND
Lead	25	7.7 B	106	83.7	553	230	ND	19.4	ND	9.9	ND
Magnesium	35,000	3,710 E	6,830	4,330	10,900	5,760	3,310	2,540	5,600	6,400	7,200
Manganese	300	77.3	96.9	82.7	253	77.6	37.3 B	211	ND	ND	ND
Mercury	0.7	ND	ND	ND	0.54	ND	ND	ND	ND	ND	ND
Nickel	100	3.4 B	12.4 B	14.9 B	57.1	18.5 B	1.9 B	6.4 B	2.0 B	ND	ND
Potassium	NC	2,280	2,700	2,540	3,810	3,670	2,870	4,350 E	2,970	ND	ND
Selenium	10	2.6 B	ND	ND	13.4 B	ND	ND	ND	ND	ND	ND
Silver	50	ND	ND	7.6 B	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	11,700	13,400	27,100	33,600	8,250	7,660	15,400	16,200	12,000	14,000
Thallium	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	0.77 B	28.8 B	8.6 B	89.7	33 B	1.5 B	3.9 B	ND	ND	ND
Zinc	2,000	26.1 B	246	220	1,280	488	52.1	32.5 B	55.9	ND	ND

Notes:

All values in µg/L

NC - No NYSDEC criterion

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

Sample Location	NYSDEC	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14
Sample ID	Class GA	LMW-14	LMW-14	LMW-14	LMW-14	LMW-14	LMW-14	LMW-14	LMW-14F	LMW-14	LMW-14F
Laboratory ID	Ground	E0833-04A	F1192-06A	G2415-02	J0429-05A	K0919-08	K0919-07	L1807-07	L1808-07	AC75576-021	AC75576-022
Sample Date	Water	6/14/06	8/24/07	12/23/08	3/9/10	5/24/11	5/24/11	8/21/12	8/21/12	11/5/13	11/5/13
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc.	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	780	314	7,090	4,830 E	652	ND	314	954	5,300	ND
Antimony	3	1.5 B	ND	ND	ND	ND	ND	ND	ND	2.2	ND
Arsenic	25	ND	ND	5.6 B	6.0 B	5.6 B	ND	ND	ND	3.2	ND
Barium	1,000	40.5 B	31.5 B	162 B	107 B	57.1 B	50.4 B	47.2 B	43.3 B	56.0	ND
Beryllium	3	ND	ND	0.38 B	0.28 B	ND	ND	ND	ND	ND	ND
Cadmium	5	4.9 B	1.5 B	59.1	26	9.2	7.6	9.3	3.7 B	6.6	2.4
Calcium	NC	13,100	12,900	35,800	18,700	18,300	18,400	28,100	10,900	11,000	12,000
Chromium	50	95.8	248	69.6	68.6	51.3	29.6	2.4 B	88.2	170	ND
Cobalt	NC	2.0 B	1.2 B	5.1 B	2.7 B	0.72 B	ND	ND	ND	ND	ND
Copper	200	22.2 B	8.9 B	110	42.8	13.6 B	ND	5.0 B	7.2 B	ND	ND
Iron	300	728	389	9,320	14,000 N	1,780 N	1,430 N	279	1,180	6,000	930
Lead	25	2.9 B	3.4 B	221	76.5	18.8	ND	ND	13.2	53.0	3.7
Magnesium	35,000	1,610 E	3,000	6,340	2,910	3,840	3,700	5,450	2,470	ND	ND
Manganese	300	35.3 B	21.2 B	231	186	260	235	ND	211	290	300
Mercury	0.7	ND	ND	ND	0.1 B	ND	ND	ND	ND	ND	ND
Nickel	100	7.5 B	4.4 B	53.2	18.3 B	11.8 B	8.7 B	1.1 B	6.1 B	ND	ND
Potassium	NC	3,320	4,140	7,090	1,670	4,430	4,570	2,990 E	4,170	5,000	ND
Selenium	10	ND	6.7 B	ND	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	3.2 B	4.3 B	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	31,900	28,900	561,000	25,400	20,400	20,300	15,400	15,400	10,000	12,000
Thallium	0.50	ND	3.4 B	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	0.58 B	0.51 B	22.5 B	12.6 B	2.4 B	ND	1.9 B	2.3 B	ND	ND
Zinc	2,000	40.1 B	27.5 B	520	279	99.1	70.1	56.3	25.5 B	94.0	ND

Notes:

All values in µg/L

NC - No NYSDEC criterion

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

AECOM Technical Services Northeast, Inc.

Sample Location	NYSDEC	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18
Sample ID	Class GA	LMW-18	LMW-18	LMW-18	LMW-18	LMW-18	LMW-18	LMW-18	LMW-18F	LMW-18	LMW-18F
Laboratory ID	Ground	E0868-14A	F1192-08A	G2136-02A	J0429-06A	K0919-10	K0919-09	L1807-04	L1808-04	AC75576-013	AC75576-014
Sample Date	Water	6/22/06	8/24/07	11/13/08	3/10/10	5/24/11	5/24/11	8/21/12	8/21/12	11/5/13	11/5/13
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc.	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	135 B	252	196 B	716 E	193 B	ND	ND	164 B	ND	ND
Antimony	3	ND	ND	9.0 B	5.2 B	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1,000	74.8 B	92.5 B	86.4 B	103 B	101 B	104 B	61.3 B	64.8 B	62.0	61.0
Beryllium	3	ND	ND	ND	0.12 B	ND	ND	ND	ND	ND	ND
Cadmium	5	0.33 B	1.3 B	0.92 B	0.86 B	3.0 B	2.9 B	ND	ND	ND	ND
Calcium	NC	12,800	15,500	13,500	18,900	21,100	21,900	15,800	15,700	19,000	20,000
Chromium	50	3.3 B	2.1 B	5.4 B	6.5 B	3.1 B	2.3 B	1.9 B	3.1 B	ND	ND
Cobalt	NC	0.48 B	1.3 B	ND	1.0 B	ND	ND	ND	ND	ND	ND
Copper	200	ND	8.1 B	11.0 B	9.8 B	6.9 B	ND	ND	ND	ND	ND
Iron	300	212	308	307	731 N	327 N	ND	ND	277	ND	ND
Lead	25	ND	3.0 B	2.5 B	3.9 B	ND	ND	ND	ND	ND	ND
Magnesium	35,000	5,440	5,430	4,960	4,460	4,380	4,560	3,720	3,650	ND	ND
Manganese	300	169	547	122	312	521	421	39.1 B	539	1,200	ND
Mercury	0.7	ND	ND	ND	0.057 B	ND	ND	ND	ND	ND	ND
Nickel	100	1.4 B	3.1 B	3.2 B	6.5 B	3.4 B	2.4 B	ND	1.5 B	ND	ND
Potassium	NC	10,800	7,290	10,200	13,500	11,500	12,500	9,220 E	8,720	8,200	7,800
Selenium	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	4.0 B	1.6 B	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	30,000	26,700	29,600	30,000	28,400	30,200	26,600	26,000	25,000	26,000
Thallium	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	ND	0.66 B	ND	0.63 B	ND	ND	ND	ND	ND	ND
Zinc	2,000	25.0 B	34.8 B	86.7	57.8	37.2 B	33.8 B	16.0 B	8.0 B	ND	ND

Notes:

All values in µg/L

NC - No NYSDEC criterion ND - Not Detected

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

AECOM Technical Services Northeast, Inc.

Sample Location	NYSDEC	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19
Sample ID	Class GA	LMW-19	LMW-19	LMW-19	LMW-19	LMW-19	LMW-19	LMW-19	LMW-19F	LMW-19	LMW-19F
Laboratory ID	Ground	E0868-15A	F1192-07A	G2136-01A	J0429-07A	K0919-12	K0919-11	L1807-05	L1808-05	AC75576-015	AC75576-016
Sample Date	Water	6/22/06	8/24/07	11/13/08	3/10/10	5/24/11	5/24/11	8/21/12	8/21/12	11/5/13	11/5/13
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc.	conc. Q	conc. Q	conc. Q	conc.	conc. Q
Aluminum	NC	53.4 B	74.9 B	ND	69.9 BE	ND	ND	ND	ND	ND	ND
Antimony	3	ND	6.7 B	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1,000	14.2 B	21.5 B	20.0 B	18.7 B	13.0 B	12.6 B	11.5 B	9.5 B	ND	ND
Beryllium	3	ND	ND	ND	0.046 B	ND	ND	ND	ND	ND	ND
Cadmium	5	1.1 B	8.0	ND	2.7 B	ND	2.4 B	ND	ND	ND	ND
Calcium	NC	9,900	13,000	9,700	11,500	11,600	11,700	10,600	10,100	11,000	11,000
Chromium	50	1 B	2.0 B	ND	1.8 B	0.94 B	ND	0.81 B	ND	ND	ND
Cobalt	NC	ND	1.2 B	ND	ND	ND	ND	ND	ND	ND	ND
Copper	200	ND	11.7 B	ND	ND	ND	ND	ND	ND	ND	ND
Iron	300	54.2 B	221	ND	234 N	40.1 BN	ND	32.8 B	ND	ND	ND
Lead	25	ND	4.1 B	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium	35,000	3,180	4,600	3,970	4,350	4,460	4,480	4,130	3,920	ND	ND
Manganese	300	3.5 B	9.3 B	14.9 B	8.0 B	ND	ND	ND	ND	ND	ND
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	ND	2.9 B	ND	0.96 B	ND	ND	ND	ND	ND	ND
Potassium	NC	816 B	949 B	947 B	1,070	993 B	1,120	890 B	867 B	ND	ND
Selenium	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	3.3 B	1.1 B	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	10,200	14,400	13,400	14,900	14,600	14,600	14,500	13,700	14,000	14,000
Thallium	0.50	ND	2.9 B	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	2,000	42.8 B	48.1 B	30.5 B	47.0 B	28.0 B	28.2 B	ND	ND	ND	ND

Notes:

All values in µg/L NC - No NYSDEC criterion E - Estimated value due to interference

N - Spike recovery outside control limits

ND - Not Detected B - Estimated value

BOLD/Italics - Exceeds criterion

Sample Location	NYSDEC	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20
Sample ID	Class GA	LMW-20	LMW-20	LMW-20	LMW-20	LMW-20	LMW-20	LMW-20	LMW-20F	LMW-20	LMW-20F
Laboratory ID	Ground	E0833-05A	F1192-03A	G2136-04A	J0429-08A	K0943-05	K0943-06	L1807-09	L1808-09	AC75576-025	AC75576-026
Sample Date	Water	6/14/06	8/22/07	11/13/08	3/9/10	5/26/11	5/26/11	8/21/12	8/21/12	11/5/13	11/5/13
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc.	conc. Q	conc. Q	conc. Q	conc.	conc. Q
Aluminum	NC	223	299	81.6 B	404 E	303	ND	411	ND	ND	ND
Antimony	3	1.7 B	9.5 B	ND	4.4 B	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1,000	38.9 B	57.8 B	48.8 B	35.0 B	27.0 B	25.4 B	42.1 B	40 B	ND	ND
Beryllium	3	ND	ND	ND	0.057 B	ND	ND	ND	ND	ND	ND
Cadmium	5	1 B	0.45 B	0.74 B	ND	ND	ND	ND	ND	ND	ND
Calcium	NC	13,200	20,600	4,420	9,050	7,700	7,870	17,400	16,900	19,000	18,000
Chromium	50	4.6 B	3.1 B	2.1 B	5.1 B	5.1 B	1.1 B	2.0 B	0.91 B	ND	ND
Cobalt	NC	0.92 B	2.5 B	ND	1.1 B	1.2 B	0.93 B	ND	ND	ND	ND
Copper	200	13.6 B	8.7 B	ND	5.7 B	6.0 B	ND	ND	ND	ND	ND
Iron	300	1,710	624	164 B	1,370 N	879	71.7 B	398	ND	ND	ND
Lead	25	1.5 B	3.7 B	ND	4.9 B	ND	ND	ND	ND	ND	ND
Magnesium	35,000	6,050 E	9,820	3,400	4,400	3,790	3,870	8,990	8,870	9,000	9,200
Manganese	300	27.8 B	60.5	35.0 B	27.1 B	17.5 B	ND	23.2 B	ND	ND	ND
Mercury	0.7	ND	ND	ND	0.064 B	ND	ND	ND	ND	ND	ND
Nickel	100	4.6 B	2.4 B	1.8 B	3.5 B	1.8 B	ND	ND	1.0 B	ND	ND
Potassium	NC	2,050	2,220	8,190	1,970	2,430	2,060	1,840 E	1,710	ND	ND
Selenium	10	1.1 B	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	5.2 B	0.6 B	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	21,800	31,100	29,700	39,600	38,400	40,300	21,700	21,400	21,000	22,000
Thallium	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	0.48 B	1.6 B	ND	1.2 B	ND	ND	ND	ND	ND	ND
Zinc	2,000	48.7 B	32.8 B	28.5 B	187	52.5	29.7 B	ND	ND	ND	ND

Notes:

All values in µg/L

NC - No NYSDEC criterion ND - Not Detected

ND - NOL Delected

B - Estimated value

BOLD/Italics - Exceeds criterion

Sample Location	NYSDEC	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21
Sample ID	Class GA	LMW-21	LMW-21	LMW-21	LMW-21	LMW-21	LMW-21	LMW-21	LMW-21	LMW-21	LMW-21F
Laboratory ID	Ground	E0833-06A	F1192-01A	G2136-05A	J0429-09A	K0943-07	K0943-08	L1807-08	L1808-08	AC75576-027	AC75576-028
Sample Date	Water	6/14/06	8/22/07	11/14/08	3/9/10	5/26/11	5/26/11	8/21/12	8/21/12	11/5/13	11/5/13
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc.	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	ND	197 B	457	793 E	319	ND	746	ND	410	ND
Antimony	3	1.9 B	6.7 B	ND	ND	ND	ND	ND	11.9 B	ND	ND
Arsenic	25	2.2 B	ND	ND	ND	4.3 B	ND	ND	ND	ND	ND
Barium	1,000	79.3 B	60.9 B	58.2 B	119 B	78.8 B	76.2 B	92.6 B	85.9 B	67.0	67.0
Beryllium	3	ND	ND	ND	0.16 B	ND	ND	ND	ND	ND	ND
Cadmium	5	ND	1.5 B	4.8 B	1.1 B	1.2 B	ND	ND	ND	ND	ND
Calcium	NC	7,520	5,190	11,900	12,600	17,000	16,900	14,300	14,200	14,000	14,000
Chromium	50	0.94 B	3.0 B	2.3 B	9.0 B	6.2 B	3.3 B	13.2 B	10.6 B	ND	ND
Cobalt	NC	0.48 B	1.5 B	ND	1.5 B	ND	ND	ND	ND	ND	ND
Copper	200	ND	13.7 B	6.6 B	8.2 B	8.5 B	ND	3.9 B	ND	ND	ND
Iron	300	31.4 B	503	198 B	1,840 N	694	32 B	1,330	ND	760	ND
Lead	25	ND	4.5 B	2.6 B	8.2 B	ND	ND	ND	ND	ND	ND
Magnesium	35,000	5,440 E	3,320	2,960	8,380	6,960	7,240	6,050	5,820	6,100	6,100
Manganese	300	26.4 B	51.8	627	57.7	36.1 B	19.7 B	96.1	56.7	100	64.0
Mercury	0.7	ND	ND	ND	0.058 B	ND	ND	ND	ND	ND	ND
Nickel	100	1.9 B	2.4 B	6.9 B	4.9 B	3.3 B	1.3 B	2.8 B	2.4 B	ND	ND
Potassium	NC	5,670	6,350	6,250	12,700	12,500	9,270	7,500 E	7,050	6,200	5,800
Selenium	10	4.1 B	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	24,500	27,200	19,200	31,800	24,300	21,700	19,700	19,400	17,000	18,000
Thallium	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	ND	0.063 B	ND	2.1 B	1.5 B	ND	1.8 B	ND	ND	ND
Zinc	2,000	14.2 B	40.5 B	69.1	67.6	65.1	30.5 B	15.5 B	6.0 B	ND	ND

Notes:

All values in μg/L

NC - No NYSDEC criterion ND - Not Detected

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

TABLE 4	
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)	
NOVEMBER 2013 SAMPLING EVENT	

Sample Location	NYSDEC	MW-2	MW-2	MW-2	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4
Sample ID	Class GA	LMW-2	LMW-2F	1 '	LMW-3	LMW-3F		LMW-4	LMW-4F	
Laboratory ID	Ground	AC75576-029	AC75576-030	1 '	AC75576-001	AC75576-002		AC75576-003	AC75576-004	
Sample Date	Water	11/6/13	11/6/13	1 '	11/4/13	11/4/13		11/4/13	11/4/13	
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	1 '	Unfiltered	Filtered		Unfiltered	Filtered	
	l'	conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved
Aluminum	NC	ND	ND	NC	470	ND	NC	310	ND	NC
Antimony	3	ND	ND	NC	ND	ND	NC	ND	ND	NC
Arsenic	25	ND	ND	NC	ND	ND	NC	ND	ND	NC
Barium	1,000	ND	ND	NC	ND	ND	NC	ND	ND	NC
Beryllium	3	ND	ND	NC	ND	ND	NC	ND	ND	NC
Cadmium	5	ND	ND	NC	4.7	3.5	74.5%	26	21	80.8%
Calcium	NC	30,000	29,000	96.7%	29,000	27,000	93.1%	33,000	30,000	90.9%
Chromium	50	62	59	95.2%	140	95	67.9%	ND	ND	NC
Cobalt	NC	ND	ND	NC	ND	ND	NC	ND	ND	NC
Copper	200	ND	ND	NC	ND	ND	NC	ND	ND	NC
Iron	300	ND	ND	NC	650	ND	NC	320	ND	NC
Lead	25	ND	ND	NC	8.5	ND	NC	ND	ND	NC
Magnesium	35,000	ND	ND	NC	ND	ND	NC	ND	ND	NC
Manganese	300	ND	ND	NC	ND	ND	NC	ND	ND	NC
Mercury	0.7	ND	ND	NC	ND	ND	NC	ND	ND	NC
Nickel	100	ND	ND	NC	ND	ND	NC	ND	ND	NC
Potassium	NC	ND	ND	NC	ND	ND	NC	ND	ND	NC
Selenium	10	ND	ND	NC	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC	ND	ND	NC
Sodium	20,000	15,000	16,000	106.7%	38,000	35,000	92.1%	21,000	21,000	100.0%
Thallium	0.50	ND	ND	NC	ND	ND	NC	ND	ND	NC
Vanadium	NC	ND	ND	NC	ND	ND	NC	ND	ND	NC
Zinc	2,000	ND	ND	NC	ND	ND	NC	160	130	81.3%
Turbidity (NTU)		11.1	-	·	31.7			9.7		

Notes:

E - Estimated value due to interference B - Estimated value

ND - Not Detected

All values except turbidity are in micrograms per liter (μ g/L)

% Dissolved = filtered conc. / unfiltered conc.

NC - No NYSDEC criterion or Not Calculable

BOLD/Italics - Exceeds criterion

TABLE 4	
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)	
NOVEMBER 2013 SAMPLING EVENT	

Sample Location	NYSDEC	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	MW-10	MW-10	MW-10
Sample ID	Class GA	LMW-5	LMW-5F		LMW-6	LMW-6F		LMW-10	LMW-10F	
Laboratory ID	Ground	AC75576-009	AC75576-010		AC75576-011	AC75576-012		AC75576-005	AC75576-006	
Sample Date	Water	11/5/13	11/5/13		11/5/13	11/5/13		11/4/13	11/4/13	
Filtered/Unfiltered	Criteria	Unfiltered	Filtered		Unfiltered	Filtered		Unfiltered	Filtered	
		conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved
Aluminum	NC	ND	ND	NC	ND	ND	NC	210	ND	NC
Antimony	3	ND	ND	NC	ND	ND	NC	ND	ND	NC
Arsenic	25	ND	ND	NC	ND	ND	NC	ND	ND	NC
Barium	1,000	ND	ND	NC	ND	ND	NC	ND	ND	NC
Beryllium	3	ND	ND	NC	ND	ND	NC	ND	ND	NC
Cadmium	5	ND	ND	NC	ND	ND	NC	49	50	102.0%
Calcium	NC	16,000	18000	112.5%	5,800	6,100	105.2%	28,000	28,000	100.0%
Chromium	50	ND	ND	NC	ND	ND	NC	140	140	100.0%
Cobalt	NC	ND	ND	NC	ND	ND	NC	ND	ND	NC
Copper	200	ND	ND	NC	ND	ND	NC	ND	ND	NC
Iron	300	ND	ND	NC	ND	ND	NC	420	ND	NC
Lead	25	ND	ND	NC	ND	ND	NC	ND	ND	NC
Magnesium	35,000	ND	ND	NC	ND	ND	NC	ND	ND	NC
Manganese	300	ND	ND	NC	ND	ND	NC	ND	ND	NC
Mercury	0.7	ND	ND	NC	ND	ND	NC	ND	ND	NC
Nickel	100	ND	ND	NC	ND	ND	NC	ND	ND	NC
Potassium	NC	ND	ND	NC	ND	ND	NC	ND	ND	NC
Selenium	10	ND	ND	NC	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC	ND	ND	NC
Sodium	20,000	9,100	11,000	120.9%	7,600	7,700	101.3%	9,200	9,300	101.1%
Thallium	0.50	ND	ND	NC	ND	ND	NC	ND	ND	NC
Vanadium	NC	ND	ND	NC	ND	ND	NC	ND	ND	NC
Zinc	2,000	ND	ND	NC	ND	ND	NC	ND	ND	NC
Turbidity (NTU)		15.3			17.3			11.9		

Notes:

E - Estimated value due to interference B - Estimated value ND - Not Detected All values except turbidity are in micrograms per liter (µg/L)

% Dissolved = filtered conc. / unfiltered conc.

NC - No NYSDEC criterion or Not Calculable

BOLD/Italics - Exceeds criterion

TABLE 4
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
NOVEMBER 2013 SAMPLING EVENT

Sample Location	NYSDEC	MW-12	MW-12	MW-12	MW-14	MW-14	MW-14	MW-16	MW-16	MW-16
Sample ID	Class GA	LMW-12	LMW-12F	<u>ا</u> ا	LMW-14	LMW-14F		LMW-16	LMW-16F	
Laboratory ID	Ground	AC75576-023	AC75576-024	1 1	AC75576-021	AC75576-022		AC75576-007	AC75576-008	
Sample Date	Water	11/5/13	11/5/13	1 1	11/5/13	11/5/13		11/4/13	11/4/13	
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	1 1	Unfiltered	Filtered		Unfiltered	Filtered	
		conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved
Aluminum	NC	810	ND	NC	5,300	ND	NC	1,400	440	31.4%
Antimony	3	ND	ND	NC	2.2	ND	NC	ND	ND	NC
Arsenic	25	ND	ND	NC	3.2	ND	NC	ND	ND	NC
Barium	1,000	ND	51	NC	56	ND	NC	230	240	104.3%
Beryllium	3	ND	ND	NC	ND	ND	NC	1.5	1.2	80.0%
Cadmium	5	2.9	ND	NC	6.6	2.4	36.4%	4.4	3.9	88.6%
Calcium	NC	40,000	44,000	110.0%	11,000	12,000	109.1%	9,800	10,000	102.0%
Chromium	50	ND	ND	NC	170	ND	NC	ND	ND	NC
Cobalt	NC	ND	ND	NC	ND	ND	NC	ND	ND	NC
Copper	200	ND	ND	NC	ND	ND	NC	ND	ND	NC
Iron	300	740	ND	NC	6,000	930	15.5%	1,800	ND	NC
Lead	25	9.9	ND	NC	53	3.7	7.0%	ND	ND	NC
Magnesium	35,000	6,400	7,200	112.5%	ND	ND	NC	ND	ND	NC
Manganese	300	ND	ND	NC	290	300	103.4%	570	530	93.0%
Mercury	0.7	ND	ND	NC	ND	ND	NC	ND	ND	NC
Nickel	100	ND	ND	NC	ND	ND	NC	ND	ND	NC
Potassium	NC	ND	ND	NC	5,000	ND	NC	5,100	ND	NC
Selenium	10	ND	ND	NC	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC	ND	ND	NC
Sodium	20,000	12,000	14,000	116.7%	10,000	12,000	120.0%	11,000	11,000	100.0%
Thallium	0.50	ND	ND	NC	ND	ND	NC	ND	ND	NC
Vanadium	NC	ND	ND	NC	ND	ND	NC	ND	ND	NC
Zinc	2,000	ND	ND	NC	94	ND	NC	ND	ND	NC
Turbidity (NTU)		33.7			16.9			38.5		

Notes:

E - Estimated value due to interference B - Estimated value

ND - Not Detected

All values except turbidity are in micrograms per liter (μ g/L)

% Dissolved = filtered conc. / unfiltered conc.

NC - No NYSDEC criterion or Not Calculable

BOLD/Italics - Exceeds criterion

TABLE 4	
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)	
NOVEMBER 2013 SAMPLING EVENT	

Sample Location	NYSDEC	MW-18	MW-18	MW-18	MW-19	MW-19	MW-19
Sample ID	Class GA	LMW-18	LMW-18F		LMW-19	LMW-19F	
Laboratory ID	Ground	AC75576-013	AC75576-014		AC75576-015	AC75576-016	
Sample Date	Water	11/5/13	11/5/13		11/5/13	11/5/13	
Filtered/Unfiltered	Criteria	Unfiltered	Filtered		Unfiltered	Filtered	
		conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved
Aluminum	NC	ND	ND	NC	ND	ND	NC
Antimony	3	ND	ND	NC	ND	ND	NC
Arsenic	25	ND	ND	NC	ND	ND	NC
Barium	1,000	62	61	98.4%	ND	ND	NC
Beryllium	3	ND	ND	NC	ND	ND	NC
Cadmium	5	ND	ND	NC	ND	ND	NC
Calcium	NC	19,000	20,000	105.3%	11,000	11,000	100.0%
Chromium	50	ND	ND	NC	ND	ND	NC
Cobalt	NC	ND	ND	NC	ND	ND	NC
Copper	200	ND	ND	NC	ND	ND	NC
Iron	300	ND	ND	NC	ND	ND	NC
Lead	25	ND	ND	NC	ND	ND	NC
Magnesium	35,000	ND	ND	NC	ND	ND	NC
Manganese	300	1,200	ND	NC	ND	ND	NC
Mercury	0.7	ND	ND	NC	ND	ND	NC
Nickel	100	ND	ND	NC	ND	ND	NC
Potassium	NC	8,200	7,800	95.1%	ND	ND	NC
Selenium	10	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC
Sodium	20,000	25,000	26,000	104.0%	14,000	14,000	100.0%
Thallium	0.50	ND	ND	NC	ND	ND	NC
Vanadium	NC	ND	ND	NC	ND	ND	NC
Zinc	2,000	ND	ND	NC	ND	ND	NC
Turbidity (NTU)		2.8			7.9		

Notes:

E - Estimated value due to interference

B - Estimated value

ND - Not Detected

BOLD/Italics - Exceeds criterion

All values except turbidity are in micrograms per liter (µg/L) % Dissolved = filtered conc. / unfiltered conc. NC - No NYSDEC criterion or Not Calculable

TABLE 4 LIBERTY INDUSTRIAL FINISHING SITE (1-52-108) NOVEMBER 2013 SAMPLING EVENT

COMPARISON OF FILTERED AND UNFILTERED METALS DATA IN GROUNDWATER

Sample Location	NYSDEC	MW-20	MW-20	MW-20	MW-21	MW-21	MW-21
Sample ID	Class GA	LMW-20	LMW-20F		LMW-21	LMW-21F	
Laboratory ID	Ground	AC75576-025	AC75576-026		AC75576-027	AC75576-028	
Sample Date	Water	11/5/13	11/5/13		11/5/13	11/5/13	
Filtered/Unfiltered	Criteria	Unfiltered	Filtered		Unfiltered	Filtered	
		conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved
Aluminum	NC	ND	ND	NC	410	ND	NC
Antimony	3	ND	ND	NC	ND	ND	NC
Arsenic	25	ND	ND	NC	ND	ND	NC
Barium	1,000	ND	ND	NC	67	67	100.0%
Beryllium	3	ND	ND	NC	ND	ND	NC
Cadmium	5	ND	ND	NC	ND	ND	NC
Calcium	NC	19,000	18,000	94.7%	14,000	14,000	100.0%
Chromium	50	ND	ND	NC	ND	ND	NC
Cobalt	NC	ND	ND	NC	ND	ND	NC
Copper	200	ND	ND	NC	ND	ND	NC
Iron	300	ND	ND	NC	760	ND	NC
Lead	25	ND	ND	NC	ND	ND	NC
Magnesium	35,000	9,000	9,200	102.2%	6,100	6,100	100.0%
Manganese	300	ND	ND	NC	100	64	64.0%
Mercury	0.7	ND	ND	NC	ND	ND	NC
Nickel	100	ND	ND	NC	ND	ND	NC
Potassium	NC	ND	ND	NC	6,200	5,800	93.5%
Selenium	10	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC
Sodium	20,000	21,000	22,000	104.8%	17,000	18,000	105.9%
Thallium	0.50	ND	ND	NC	ND	ND	NC
Vanadium	NC	ND	ND	NC	ND	ND	NC
Zinc	2,000	ND	ND	NC	ND	ND	NC
Turbidity (NTU)		0.0			17.7		

Notes:

E - Estimated value due to interference

B - Estimated value

ND - Not Detected

BOLD/Italics - Exceeds criterion

All values except turbidity are in micrograms per liter (μg/L) % Dissolved = filtered conc. / unfiltered conc. NC - No NYSDEC criterion or Not Calculable

NC - No NYSDEC criterion or I

	ROD		Restricted Use Category					
	March 1991	Unrestricted	Residential	Restricted Residential	Commercial	Industrial		
Arsenic	-	13	16	16	16	16		
Cadmium	10	2.5	2.5	4.3	9.3	60		
Chromium-6	50	1	22	110	400	800		
Chromium-3	-	30	36	180	1500	6800		
Copper	25	50	270	270	270	10000		
Lead	-	63	400	400	1000	3900		
Nickel	13	30	140	310	310	10000		
Zinc	47	109	2200	10000	10000	10000		
Cyanide	NC	27	27	27	27	10000		
Mercury	-	0.18	0.81	0.81	2.8	5.7		

TABLE 5 LIBERTY INDUSTRIAL FINISHING SITE (1-52-108) SOIL SAMPLE RESULTS - JUNE 2013

Off-Site Locations

	SS-01	HA-01	SS-02	HA-02	SS-03	HA-03	SS-06	HA-06	SS-07	HA-07
Arsenic	3.6	1.3	4.1	3.9	5.9	4.6	5.5	4.1	3.6	4.2
Cadmium	0.36	-	0.19	0.052	0.64	0.098	0.37	0.075	0.53	0.16
Chromium	12.6	3.9	11	12	20.7	19.7	10.7	12.6	8.3	12.9
Copper	18.4	1.3	8.7	2.6	20	8.6	22.1	13.9	14.3	6
Lead	102	2.9	66.2	7.4	81.5	12.6	35.9	9.1	35.5	19.5
Nickel	6.6	1.9	4.9	6.1	8.1	10.9	5.5	5.3	5.5	6.4
Zinc	60.9	6.2	20	18.2	43.1	31.1	47.2	18.4	48.6	24.5
Mercury	0.16	0.0092	0.11	0.013	0.098	0.034	0.057	0.018	0.039	0.026

	Suffolk Avenue									
	SS-04	HA-04	SS-05	HA-05						
Arsenic	8.8	3.3	5.3	2.9						
Cadmium	2.9	0.1	1.5	0.23						
Chromium	26.1	11.9	23.8	9.5						
Copper	45.1	4	24.4	7.6						
Lead	290	14.7	126	36.1						
Nickel	18.9	5.2	7.8	3.9						
Zinc	228	18.2	143	31.5						
Mercury	0.15	0.015	0.11	0.027						

SS - Surface soil HA - Hand auger (0 - 0.5 ft bgs)

	Dop Destricted Lies Catagory								
	ROD		Nesincieu Ose Calegoly						
	March	Unrestricted	Residential	Restricted	Commercial	Industrial			
	1991			Residential	••••••				
Arsenic	-	13	16	16	16	16			
Cadmium	10	2.5	2.5	4.3	9.3	60			
Chromium-6	50	1	22	110	400	800			
Chromium-3	-	30	36	180	1500	6800			
Copper	25	50	270	270	270	10000			
Lead	-	63	400	400	1000	3900			
Nickel	13	30	140	310	310	10000			
Zinc	47	109	2200	10000	10000	10000			
Cyanide	NC	27	27	27	27	10000			
Mercury	-	0.18	0.81	0.81	2.8	5.7			

TABLE 5 LIBERTY INDUSTRIAL FINISHING SITE (1-52-108) SOIL SAMPLE RESULTS - JUNE 2013

Western Side of the Former Building Slab

	SS-08	HA-08	SS-09	HA-09	SS-10	HA-10	SS-11	HA-11	SS-12	HA-12
Arsenic	5.1	14.2		1.3	2.9		3.4	2.8	-	3.5
Cadmium	2.5	0.4		0.5	32.8		125	1.7	28.4	5
Chromium	31.8	19.2		5.7	67.9		83.9	11	164	45.5
Copper	26.7	15.6		3.7	30.2	-	65.6	5.5	32.7	9.2
Lead	62.2	15.4		7.8	52.8		47.7	10.5	38	18.9
Nickel	10.8	16.3		2.3	24		31.9	5.9	23.9	9.1
Zinc	81.6	36.8		18	157		619	25.6	232	118
Mercury	0.062	0.11		0.017	0.065	-	0.037	0.018	0.025	0.026

Eastern Side of the Former Building Slab

	SS-13	HA-13	SS-14	HA-14	SS-15	HA-15
Arsenic	1.9	1.3	3			
Cadmium	1.3	0.063	20.2			
Chromium	7.9	5.9	31.1			
Copper	3.9	2	37.1			
Lead	9.3	2.8	27			
Nickel	3.2	2.5	15.7			
Zinc	24.1	7.8	95.1			
Mercury	0.012	-	0.033			

SS - Surface soil HA - Hand auger (0 - 0.5 ft bgs)

Figures













	NYSDEC
pound	Criteria
nony	3
nium	5
mium	50
ber	200
	300
1	25
ganese	300
nium	10
um	20,000
ium	0.50

	UST Plating Waste Tank
J	Well Utilized For
	Laws Tawa Manifasina

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g-12	Nov-13	Nov-13
F	U	F
ND	ND	ND
9.3	2.9	ND
ND	ND	ND
ND	ND	ND
39.0 B	740	ND
ND	9.9	ND
ND	ND	ND
,200	12,000	14,000

2	Aug-12	Nov-13	Nov-13
U	F	U	F
.3	3.7 B	6.6	2.4
.4 B	88.2	170	ND
79	1,180	6,000	930
ID	13.2	53.0	3.7
00	15,400	10,000	12,000
ID	ND	ND	ND

1 (D)				
May-11	Aug-12	Aug-12	Nov-13	Nov-13
F	U	F	U	F
ND	ND	11.9 B	ND	ND
32.4 B	1,330	ND	760	ND
19.7 B	96.1	56.7	100	64.0
21,700	19,700	19,400	17,000	18,000

)				
-11	Aug-12	Aug-12	Nov-13	Nov-13
F	U	F	U	F
ND	ND	ND	ND	ND
1.7 B	398	ND	ND	ND
00	21,700	21,400	21,000	22,000











Appendix A

IC/EC Certification Forms NYSDEC



Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Site No. 152108	Site Details	Box 1	
Site Name Liberty Industrial Finish	ing Products		
Site Address: 550 Suffolk Avenue City/Town: Brentwood County: Suffolk Site Acreage: 3.9	Zip Code: 11717		
Reporting Period: October 30, 2009 to	o January 30, 2014		
		YES	NO
1. Is the information above correct?		X	
If NO, include handwritten above o	or on a separate sheet.		
2. Has some or all of the site propert tax map amendment during this R	y been sold, subdivided, merged, or undergone a eporting Period?		×
 Has there been any change of use (see 6NYCRR 375-1.11(d))? 	e at the site during this Reporting Period		X
4. Have any federal, state, and/or loc for or at the property during this R	cal permits (e.g., building, discharge) been issued eporting Period?		X
If you answered YES to question that documentation has been pre-	ns 2 thru 4, include documentation or evidence reviously submitted with this certification form.		
C to the site summarity and successing de-	evelopment?		X
5. Is the site currently undergoing de	F		
5. Is the site currently undergoing de		Box 2	· ·
5. Is the site currently undergoing de		Box 2 YES	NO
 Is the site currently undergoing de Is the current site use consistent v Industrial 	vith the use(s) listed below?	Box 2 YES	NO □
 Is the site currently undergoing de Is the current site use consistent v Industrial Are all ICs/ECs in place and function 	vith the use(s) listed below? ioning as designed?	Box 2 YES Ø	NO
 Is the site currently undergoing de Is the current site use consistent v Industrial Are all ICs/ECs in place and funct IF THE ANSWER TO EITHE DO NOT COMPLETE T 	vith the use(s) listed below? ioning as designed? R QUESTION 6 OR 7 IS NO, sign and date below a THE REST OF THIS FORM. Otherwise continue.	Box 2 YES	NO
 Is the site currently undergoing de Is the current site use consistent v Industrial Are all ICs/ECs in place and funct IF THE ANSWER TO EITHE DO NOT COMPLETE T A Corrective Measures Work Plan mu 	vith the use(s) listed below? ioning as designed? R QUESTION 6 OR 7 IS NO, sign and date below a THE REST OF THIS FORM. Otherwise continue.	Box 2 YES X And hese iss	NO
 Is the site currently undergoing de Is the current site use consistent v Industrial Are all ICs/ECs in place and funct IF THE ANSWER TO EITHE DO NOT COMPLETE T A Corrective Measures Work Plan mu Signature of Owner, Remedial Party or I 	vith the use(s) listed below? ioning as designed? R QUESTION 6 OR 7 IS NO, sign and date below a THE REST OF THIS FORM. Otherwise continue. Ist be submitted along with this form to address the Designated Representative Date	Box 2 YES	NO

Description of Ins	titutional Controls	
Parcel	Owner	Institutional Control
136000300008000	LEEMILTS PETROLEUM INC	Soil Management Plan Monitoring Plan
Deed restriction is not ye Groundwater use restrict must be hooked in to the cover system.	et in place (2013) Restrictions to be includ tion and adherence to a Site Managemer e public water supply and must not disturl	ded in the DR are: are a nt plan. Any developement of the site b the slab which is serving as a cap
13600030009000	LIBERTY INDUSTRIAL PRODUCT	rs. II
5		Soil Management Plan Monitoring Plan
ICs to be included for the plan. Any developement the slab which is serving 136000300010001	e site are a Groundwater use restriction a of the site must be hooked in to the publ as a cap cover system. LIBERTY INDUSTRIAL PRODUCT	and adherence to a Site Management lic water supply and must not disturb
ICs to be inplace for this plan. Any developement the slab which is serving	site are a Groundwater use restriction an of the site must be hooked in to the publ as a cap cover system.	Monitoring Plan Soil Management Plan nd adherence to a Site Management lic water supply and must not disturb
ICs to be inplace for this plan. Any developement the slab which is serving	site are a Groundwater use restriction ar of the site must be hooked in to the publ as a cap cover system.	Monitoring Plan Soil Management Plan nd adherence to a Site Management lic water supply and must not disturb Box 4
ICs to be inplace for this plan. Any developement the slab which is serving Description of En	site are a Groundwater use restriction ar of the site must be hooked in to the publ as a cap cover system.	Monitoring Plan Soil Management Plan nd adherence to a Site Management ic water supply and must not disturb Box 4
ICs to be inplace for this plan. Any developement the slab which is serving Description of Eng	site are a Groundwater use restriction ar of the site must be hooked in to the publ as a cap cover system. gineering Controls	Monitoring Plan Soil Management Plan nd adherence to a Site Management lic water supply and must not disturb Box 4
ICs to be inplace for this plan. Any developement the slab which is serving Description of Eng Parcel 136000300008000	site are a Groundwater use restriction ar of the site must be hooked in to the publ as a cap cover system. gineering Controls <u>Engineering Control</u>	Monitoring Plan Soil Management Plan nd adherence to a Site Management lic water supply and must not disturb Box 4
ICs to be inplace for this plan. Any developement the slab which is serving Description of En <u>Parcel</u> 136000300008000	site are a Groundwater use restriction ar of the site must be hooked in to the publ as a cap cover system. gineering Controls Engineering Control Fencing/Access Contro Cover System	Monitoring Plan Soil Management Plan nd adherence to a Site Management ic water supply and must not disturb Box 4
ICs to be inplace for this plan. Any developement the slab which is serving Description of Eng Parcel 136000300008000 EC for the site is Cap Co repaired if necessary. Als 136000300009000	site are a Groundwater use restriction ar of the site must be hooked in to the public as a cap cover system. gineering Controls Engineering Control Fencing/Access Control Cover System over system-Cap must remain in place ar so, Fencing/Access Control. Must ensure	Monitoring Plan Soil Management Plan ad adherence to a Site Management lic water supply and must not disturb Box 4
ICs to be inplace for this plan. Any developement the slab which is serving Description of Eng Parcel 136000300008000 EC for the site is Cap Co repaired if necessary. Als 136000300009000	site are a Groundwater use restriction ar of the site must be hooked in to the public as a cap cover system. gineering Controls Engineering Control Fencing/Access Control Cover System so, Fencing/Access Control. Must ensure Cover System Fencing/Access Control	Monitoring Plan Soil Management Plan and adherence to a Site Management lic water supply and must not disturb Box 4
ICs to be inplace for this plan. Any development the slab which is serving Description of Eng Parcel 136000300008000 EC for the site is Cap Co repaired if necessary. Als 13600030009000 EC for the site is Cap Co repaired if necessary. Als 136000300010001	site are a Groundwater use restriction ar of the site must be hooked in to the public as a cap cover system. gineering Controls Engineering Control Fencing/Access Control Cover System over system-Cap must remain in place ar so, Fencing/Access Control. Must ensure Cover System Fencing/Access Control over system-Cap must remain in place ar so, Fencing/Access Control	Monitoring Plan Soil Management Plan and adherence to a Site Management ic water supply and must not disturb Box 4 Box 4
ICs to be inplace for this plan. Any development the slab which is serving Description of Eng Parcel 136000300008000 EC for the site is Cap Co repaired if necessary. Als 13600030009000 EC for the site is Cap Co repaired if necessary. Als 136000300010001	site are a Groundwater use restriction ar of the site must be hooked in to the public as a cap cover system. gineering Controls Engineering Control Fencing/Access Control Cover System over system-Cap must remain in place ar so, Fencing/Access Control. Must ensure Cover System Fencing/Access Control over system-Cap must remain in place ar so, Fencing/Access Control over system-Cap must remain in place ar so, Fencing/Access Control	Monitoring Plan Soil Management Plan and adherence to a Site Management ic water supply and must not disturb Box 4 Box 4

			Box 5
	Periodic Review Report (PRR) Certification Statements		
	I certify by checking "YES" below that:		
	 a) the Periodic Review report and all attachments were prepared under the dire reviewed by, the party making the certification; 	ection of,	and
	 b) to the best of my knowledge and belief, the work and conclusions described are in accordance with the requirements of the site remedial program, and gene engineering practices; and the information presented is accurate and compete. 	in this co erally acc	ertification epted
		YES	NO
		X	
	If this site has an IC/EC Plan (or equivalent as required in the Decision Document), fo or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below the following statements are true:	r each Ir at all of t	nstitutional he
	(a) the Institutional Control and/or Engineering Control(s) employed at this site the date that the Control was put in-place, or was last approved by the Departm	is uncha ent;	nged sinc
	(b) nothing has occurred that would impair the ability of such Control, to protect the environment;	t public h	ealth and
	(c) access to the site will continue to be provided to the Department, to evaluat including access to evaluate the continued maintenance of this Control;	e the rer	nedy,
	(d) nothing has occurred that would constitute a violation or failure to comply w Management Plan for this Control; and	ith the S	ite
	(e) if a financial assurance mechanism is required by the oversight document for mechanism remains valid and sufficient for its intended purpose established in the	or the sit he docu	e, the ment.
		YES	NO
		×	
	IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue		
А	Corrective Measures Work Plan must be submitted along with this form to address	these is	sues.

IC CERTIFICATIONS SITE NO. 152108 Box 6 SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the AECOM Technical Services Nontheast Inc. 100 Red Schedibnese Road at <u>Chestnat Ridge NY 10977</u> print business address Penal Law. 1 Paul Kareth print name am certifying as _____ Remedial Parts (Owner or Remedial Party) for the Site named in the Site Details Section of this forma <u>3/26/14</u> Date

Signature of Owner, Remedial Party, or Designated Representative **Rendering Certification**

IC/EC CERTIFICATIONS

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

at 40 BRITISH AMERICAN, LATHAM, NY 12140, print business address SCOTT A. UNDERHILL print name 1

am certifying as a Professional Engineer for the ______

(Owner or Remedial Party)

Box 7

Signature of Professional Engineer, for the Owner or

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

ICE -1-14 Date ESSIO
Appendix B

NYSDEC Memorandum dated August 24, 2004: Proposed Site Reclassification, and Draft Deed Restriction New York State Department of Environmental Conservation Division of Environmental Remediation Remedial Bureau E, 12th Floor 625 Broadway, Albany, New York 12233-7013 Phone: (518) 402-9814 • FAX: (518) 402-9819 Website: www.dec.state.ny.us



MEMORANDUM

TO:	Kelly Lewandowski, Site Control Section
	THRU: Robert Marino, Chief, Bureau of Technical Support
FROM:	Jeffrey Trad Remedial Section A
	THRU: Robert Knizek, Chief, Remedial Bureau E
SUBJECT:	Site No. 1-52-108, Liberty Industrial Finishing Site, Suffolk County
DATE:	AUG 3 0 2004

The NYSDEC has successfully completed the Remedial Action at the Liberty Industrial Finishing Site in accordance with the March 1999 ROD (attached) and approved design documents and is now in the O&M phase. This work included the following:

- Excavated the two areas containing contaminated soil;
- Applied a minimum of two feet of clean fill over residual metals contaminated soils;
- Installed an asphalt cap over the UST and pipe gallery area;
- Installation of groundwater monitoring wells;
- Excavation and offsite disposal of contaminated soil/sediment from two sanitary leaching polls, two storm water dry wells and two catch basins.

The attached "Final Remediation Report" describes the project in detail.

At this time, it is proposed to reclassify the site from a Class 2 - "Significant threat to the public health or environment - action required" to a Class 4 - "Site has been properly closed, requires continued management."

Supporting documentation is attached as justification for the proposed reclassification:

- 1. Site Investigation Information forms;
- 2. Registry of Inactive Hazardous Waste Site Information Sheets;
- 3. March 1999 Record of Decision;
- 4. Site Maps;
- 5. Final Remediation Report;
- 6. Draft Deed Restrictions;
- October 2001 NYSDEC Groundwater Monitoring Results and the 2003 NYSDEC Groundwater Monitoring Results.

If you have any questions, please call Jeff Trad at 2-9814.

Attachments

cc: w/o Att.: S. Ervolina

P. Scully - NYSDEC, Region 1 W. Parish - NYSDEC, Region 1 C. Vasudevan

JET/ts

bcc: R. Knizek J. Trad Dayfile F:\Liberty Industrial Finishing\reclass.lib.wpd 1.0 Site Investigation Forms



10/24/03

SITE INVESTIGATION INFORMATION

1. SITE NAME		2. SITE NUMBER	3. TOWN/CITY/VILLAGE	4. COUNTY
Liberty Industrial Finis	hing Products	152108	Brentwood	Suffolk
5 REGION	6. PROGRAM TYPE			
1		_	22 F	
1	BCP C ERP C S		If Superfund: Current 2 Proposed	4 Modification X
7. LOCATION OF SITE (Attack	h U.S.G.S. Topographic Map	showing site location)		
a. Quadrangle	b. S	ite Latitude 4° 46'40" S	ite Longitude 73° 15' 15"	
c. Tax Map Number(s)	d .	Site Street Address: 550 Sul	folk Avenue, Brentwood, NY 11717	
8. BRIEFLY DESCRIBE THE	SITE (Attach site map showin	g disposal/sampling locatio	ns)	
Liberty Industrial Finishing P Metal finishing activities inclu the building in 2002 leaving t	roducts was a metal finishing uded passivation, phosphatiz he slab and foundations intac	facility engaged in the finis ation, electroplating, conver t.	hing and plating of parts and components used pri sion coating, anodizing, painting and non-destructi	marily in the aircraft industry. ve testing. The Town demolished
a. Area3.9 acres	b. Completed: () Env. Prope () Spill Response	erty Assessment (X) Site Cl ()Other	haracterization()SI()ESI(x)IRM(x)RI(x)Co 	onstruction (x) OM&M
9. CONTAMINANTS DISPOSE	ED (Hazardous Waste, Petrole	eum, Other. Includes EPA H	azardous Waste Numbers)	
1,1,1 - trichloroethane(TCA) - An inspection in 1983 discov directly into the ground occu compounds.	- F001, cadmium - D006, chroi ered potential leaks in two of irred in 1984. These wastewa	mium - D007, spent cyanide the underground tanks con ter discharges were contam	plating bath solutions and sludges - F007, F008 taining cyanide and other compounds. Unauthorize inated with manganese phosphate, zinc phosphate	d discharges into cesspools and chromic acid and other
10. ANALYTICAL DATA AVA	ILABLE			
a. ()Air (X)Groundwater b. Contravention of Standa	r ()Surface Water (x)Sec ards or Guidance Values	liment (x)Soil ()Waste	()Leachate ()EPTox ()TCLP	
A Phase II was performed in	1987 and groundwater excee	dences for chromium were I	ound. A supplemental Phase II was performed in 1	991. High levels of cyanide was
found in a leaching pool as v contamination in the surface approximately 150 feet from	vell as chromium exceedence and subsurface soil, storm-v the site in a SSE direction wit	is in groundwater. The DEC vater drywell/leaching pool, th chromium as the primary	completed a State-funded RI/FS at the site. The 19 sediment and groundwater. The contaminated grou site-related contaminant.	99 RI Report confirmed indwater plume extends
11. CONCLUSION				
The USEPA completed an IR underground storage tanks. under an IRM. The DEC issu contaminated soil; and the c ROD was completed on Sept	M between August 1998 and . The Town of Islip also excav ied a ROD in March 1999 that onstruction of an asphalt cap tember 18, 2001.	January 1999 and removed v ated contaminated surface s called for the removal of co above the on-site undergro	waste materials from the interior of the industrial bu soil at the Town of Islip Athletic Field and the Brenty ntaminated sediment from four drywells and one le und storage tanks as the selected remedy. All of th	ilding and capped six vood Water District property aching pool; the excavation of e remedial woork specified in the
a. Institutional Controls (IC) c. Are these ICs in place and been performed; the asphalt	Required? (X)Y ()N b. If y d verified? ()Y ()N some t cap has been inspected and	es, identify: Restrict use of are/ No property owner exist maintained.	groundwater; long term groundwater monitoring; m is to apply a deed restriction for use of groundwater	aintain asphalt cap r. Longterm GW monitoring has
12. SITE IMPACT DATA				
a. Nearest Surface Water: Di	stance 7500 ft.	Direction: ESE	Class: Orowac Creek - Class C	
b. Groundwater: Depth 50 ft.		Flow Direction: SSE	(x)Sole Source ()Primary ()C	Other High-Yield Aquifer
c. Water Supply: Distance 10	00 ft.	Direction: South	Active (X)Yes ()No	
d. Nearest Building: Distanc	e 150 ft.	Direction: WNW	Use: Gas Station	
e. Documented fish or wildli	fe mortality?	()Y (y)N	h. Exposed hazardous waste?	
f. Impact on special status fi	sh or wildlife resource?		i Site Priority Ranking Sheet	
and a special status in			Score	N/A
g. Controlled Site Access?		(X)Y ()N	j. EPA ID# NYD013563390	HRSN/A Score
13. SITE OWNER'S NAME		14. ADDRESS		15. TELEPHONE NUMBER
Liberty Industrial Finishing		550 Suffolk Avenue, B	rentwood, NY 11717	n/a
16. PREPARER			17. APPROVED	
Jeffrey Trad, EEII			Robert C. Knizek, Director, Remedial Bureau E	
Signature	- Date	, ,	Signature Date	
Mustil	digit &	30/01		
Name, Title	e, Organization		Name, Title, Organization	
Construction of the second	Received The second		I	

SITE INVESTIGATION INFORMATION

1. SITE NAME	-	2. SITE NUMBER	3. TOWN/CITY/VILLAGE	4. COUNTY
Liberty Industrial Finis	shing Products	152108	Brentwood	Suffolk
5. REGION	6. PROGRAM TYPE			
1			M If Superfund: Current 2 Breness	d 4 Modification V
	BCP D ERP D ;	SPILL D SUPERFUND	If Superfund: Current _2 Propose	d_4 Modification X
7. LOCATION OF SITE (Attac	h U.S.G.S. Topographic Map	showing site location)		
a. Quadrangle	b. 5	Site Latitude 4° 46'40" S	ite Longitude 73" 15' 15"	
c. Tax Map Number(s)	d.	Site Street Address: 550 Suf	folk Avenue, Brentwood, NY 11717	
8. BRIEFLY DESCRIBE THE	SITE (Attach site map showin	g disposal/sampling location	ns)	
Liberty Industrial Finishing F Metal finishing activities incl the building in 2002 leaving	Products was a metal finishing luded passivation, phosphatiz the slab and foundations inta-	g facility engaged in the finis ation, electroplating, conver ct.	hing and plating of parts and components used pr sion coating, anodizing, painting and non-destruct	imarily in the aircraft industry. ive testing. The Town demolished
a. Area3.9 acres	b. Completed: () Env. Prop () Spill Response	erty Assessment (X) Site Cl ()Other	naracterization()SI()ESI(x)IRM(x)RI(x)C 	onstruction (x) OM&M
9. CONTAMINANTS DISPOS 1,1,1 - trichloroethane(TCA)	ED (Hazardous Waste, Petrol - F001, cadmium - D006, chro	eum, Other. Includes EPA H mium - D007, spent cyanide	azardous Waste Numbers) plating bath solutions and sludges - F007, F008	
An inspection in 1983 disco directly into the ground occ compounds.	vered potential leaks in two of urred in 1984. These wastewa	f the underground tanks con ater discharges were contam	taining cyanide and other compounds. Unauthorize inated with manganese phosphate, zinc phosphate	ed discharges into cesspools and , chromic acid and other
10. ANALYTICAL DATA AVA	NLABLE			
a. ()Air (X)Groundwate b. Contravention of Stand	er ()Surface Water (x)Ser lards or Guidance Values	diment (x)Soil ()Waste	()Leachate ()EPTox ()TCLP	
A Phase II was performed in found in a leaching pool as contamination in the surface	1987 and groundwater exceed well as chromium exceedence e and subsurface soil, storm- the site in a SSE direction with the site in a SSE direction with	dences for chromium were f es in groundwater. The DEC water drywell/leaching pool, th chromium as the primary	found. A supplemental Phase II was performed in completed a State-funded RI/FS at the site. The 19 sediment and groundwater. The contaminated gro site related contaminant	1991. High levels of cyanide was 199 RI Report confirmed undwater plume extends
approximately 150 leet nom		ar enronnan as me primary	Site-related containingnt.	
11. CONCLUSION				
The USEPA completed an IF underground storage tanks. under an IRM. The DEC isso contaminated soil; and the o ROD was completed on Sep	RM between August 1998 and . The Town of Islip also excavued a ROD in March 1999 that construction of an asphalt cap tember 18, 2001.	January 1999 and removed v rated contaminated surface s called for the removal of co o above the on-site undergro	waste materials from the interior of the industrial b soil at the Town of Islip Athletic Field and the Brent ntaminated sediment from four drywells and one le und storage tanks as the selected remedy. All of t	uilding and capped six wood Water District property aching pool; the excavation of he remedial woork specified in the
a. Institutional Controls (IC) c. Are these ICs in place an been performed; the asphal	Required? (X)Y ()N b. If y Id verified? () Y ()N some It cap has been inspected and	yes, identify: Restrict use of a are/ No property owner exist maintained.	groundwater; long term groundwater monitoring; r Is to apply a deed restriction for use of groundwate	naintain asphalt cap r. Longterm GW monitoring has
12. SITE IMPACT DATA				
a. Nearest Surface Water: D	Distance 7500 ft.	Direction: ESE	Class: Orowac Creek - Class C	
b. Groundwater: Depth 50 ft	L.	Flow Direction: SSE	(x)Sole Source ()Primary ()	Other High-Yield Aquifer
c. Water Supply: Distance 1	00 ft.	Direction: South	Active (X)Yes ()No	
d. Nearest Building: Distance	ce 150 ft.	Direction: WNW	Use: Gas Station	
e. Documented fish or wildl	ife mortality?	()Y (x)N	h. Exposed hazardous waste?	
f. Impact on special status f	fish or wildlife resource?	()Y (x)N	i. Site Priority Ranking SheetImpact	N/A
g. Controlled Site Access?		(X)Y ()N	Score j. EPA ID# NYD013563390	HRS N/A
13. SITE OWNER'S NAME		14. ADDRESS		
Liberty Industrial Finishing		550 Suffolk Avenue B	rentwood. NY 11717	n/a
16. PREPARER				
Jeffrey Trad, FFII			Robert Marino, Director, Technical Support Ru	
Signature	Date / L	/	Signature Date	
- Juffasj 5 In	ed 3/30/19			
Name, Titl	ie, Organization		Name, Title, Organization	

10/24/03



Deed Restriction Forthcoming

Now a <u>SSF Site</u>. No Property Owner to put IC/EC on the property title.

DECLARATION of COVENANTS and RESTRICTIONS

THIS COVENANT, made the _____ day of ______ 200x, by Liberty Industrial Finishing, Inc., a corporation organized and existing under the laws of the State of xxxxxxxx and having an office for the transaction of business at

WHEREAS, Liberty Industrial Finishing, Inc. is the owner of an inactive hazardous waste disposal Site which is listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York State as Site Number 1-52-108, located at 550 Suffolk Avenue, Hamlet of Brentwood Town of Islip, NY 11551, consisting of approximately 3.9 acres, Tax Map Number xx-xx, Block Number xx-xx and Lot Number xx-xx as filed (Date), File No. Xxxx in the Office of the County Clerk at the County of Suffolk and more particularly described in Appendix A attached to this Covenant and made a part hereof, and hereinafter referred to as the "Property"; and

WHEREAS, the Property is the subject of a consent order issued by the New York State Department of Environmental Conservation to Liberty Industrial Finishing, Inc.; and

WHEREAS, the New York State Department of Environmental Conservation set forth a remedy to eliminate or mitigate all significant threats to the environment presented by hazardous waste disposal on the Site in a Record of Decision ("ROD") dated March 1999, and such ROD or the Work Plan for the implementation of the ROD required that the Property be subject to restrictive covenants.

NOW, THEREFORE, Liberty Industrial Finishing, Inc., for itself and its successors and/or assigns, covenants that:

First, the Property subject to this Declaration of Covenants and Restrictions is as shown on a map attached to this declaration as Appendix "B" and made a part hereof, and consists of [insert metes and bounds description]

Second, unless prior written approval by the New York State Department of Environmental Conservation or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, no person shall engage in any activity that will, or that reasonably is anticipated to, prevent or interfere significantly with any proposed, ongoing or completed program at the Property or that will, or is reasonably foreseeable to, expose the public health or the environment to a significantly increased threat of harm or damage.

Third, the owner of the Property shall protect and maintain the asphalt cap covering the excavation area and the groundwater monitoring wells installed on the Property. Any damage to the asphalt cap or groundwater monitoring wells must immediately be brought to the attention of the Department. Any work, action or change of use altering or effecting the asphalt cap or groundwater monitoring wells must be brought to the attention of the Department. No work,

action or change of use altering or effecting the asphalt cap or groundwater monitoring wells may occur without obtaining prior written approval of the Department or Relevant Agency.

Fourth, the owner of the Property shall prohibit any excavation or disturbance of the excavation area as delineated in Appendix "B" by crosshatch, unless the owner of the Property first obtains permission to do so from the Relevant Agency.

Fifth, the owner of the Property shall prohibit the Property from ever being used for purposes other than for non-residential commercial/industrial uses, excluding day-care and health care facilities, without the express written waiver of such prohibition by the Relevant Agency.

Sixth, the owner of the Property shall prohibit the use of the groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Relevant Agency.

Seventh, the owner of the Property shall continue in full force and effect any institutional and engineering controls the Department required Respondent to put into place and maintain unless the owner first obtains permission to discontinue such controls from the Relevant Agency.

Eight, this Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the Property and shall provide that the owner, and its successors and assigns, consents to the enforcement by the Relevant Agency of the prohibitions and restrictions recorded by this Declaration of Covenants and Restrictions, and hereby covenants not to contest the authority of the Department to seek enforcement.

Ninth, the owner of the Property may petition the Department to modify or terminate this Declaration of Covenants and Restrictions at such time as it can certify that reliance upon such covenants and restrictions is no longer required to meet the goals of the Remedial Program. Such certification shall be made by a Professional Engineer. The Department shall not unreasonably withhold its consent to such petition.

Tenth, any deed of conveyance of the Property, or any portion thereof, shall recite, unless the Relevant Agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration of Covenants and Restrictions.

Eleventh, the owner of the property must allow the Relevant Department, its Agent, employees or other representatives of the State to enter and inspect the Property and sample the groundwater monitoring wells on the Property at reasonable times in a reasonable manner.

IN WITNESS WHEREOF, the undersigned has executed this instrument the day written below.

[acknowledgment]

IN WITNESS WHEREOF, the parties have signed this Agreement on the day and year indicated beneath their respective signatures. The signatory for the Department provides the following Agency Certification: "In addition to the acceptance of this contract, I also certify that original copies of this signature page will be attached to all other exact copies of this contract."

Acknowledgment

State of New York)

County of Nassau)

On this Fifteenth day of March, 2000, before me personally came , to me known, who being duly sworn, did depose and say that he is the Supervisor of the Town of , the political subdivision or agency thereof described in and which executed the within instrument; that he knows the seal of said political subdivison; that the seal affixed to said instrument is such seal; that it was so affixed by order, resolution or authority of the Town Board of said political subdivision and that he signed his name by that authority.

By: ______Notary Public

Date:

Appendix C

Well Sampling Forms



				PROJECT					PROJECT No.	SHEET		SHEETS
WELL	SAMPI	LING FOI	RM	MULTI S	ITE-G				87616 / 05	1	OF	1
LOCATION	Inductr	ial Finich	ing Bro	ntwood 1	V #1_5	2-108		DATE WELL S	STARTED	DATE WELL COMPLETE	D	
CLIENT	muusu	iai filisii	пу, ые	1110000, 1	NT #1-C	02-100		NAME OF INS	PECTOR	0/12/00		
New Y	ork Stat	te Depart	ment of	Environn	nental C	Conser	vation	Kevin Se	ise, Jason Kl	ein		
DRILLING	COMPANY							SIGNATURE C	OF INSPECTOR			
ONE WELI	VOLUME :		3.13		WELL TD:		61.42		PUMP I	NTAKE DEPTH:		
	Depth			FIE	LD MEAS	SUREME	ENTS					
	to	Purge										
Time	Water	Rate	Temp.	Conduct.	DO (mg/l)	рН	ORP	Turbidity		REMARKS		
1215	42 24	(1111/11111)	14 25	0.386	(IIIg/L) 10.22	6.63	243.8	(110)	Purae Volu	ime 9.39		
1210	42.06		14.74	0.109	9.95	6.17	179.6	1.3	i argo voic			
L												
	$\left \right $					ļ						
<u> </u>												
	!								•			
Pump	Type:	Waterra	Hydrolif	t pump w	ith blac	k poly t	tubing a	nd a foot	valve			
	. –											
Analyti	cal Para	ameters:		I AL Meta	ais							



				PROJECT					PROJECT No.	SHEET	SHEETS	
WELL	SAMPI	ING FOI	RM	MULTI S	ITE-G				87616 / 05	1 оғ	1	
								DATE WELL S	TARTED	DATE WELL COMPLETED		
Liberty	Industr	ial Finish	ing, Bre	ntwood, I	NY #1-5	2-108		6/12/06	RECTOR	6/12/06		
Now V	ork Stat	o Donart	ment of	Environn	nontal (Conser	vation	Kovin So	ise Jason Kl	ain		
DRILLING	COMPANY	ie Depart				0011301	valion	SIGNATURE C	F INSPECTOR			
			4 70									
ONE WELL	VOLUME :		4.78		WELL TD:	71.50		PUMP INTAKE DEPTH:				
	Depth			FIE	LD MEAS	UREME	NTS					
	to	Purge										
Time	Water	Rate	Temp.	Conduct.	DO	рН	ORP	Turbidity		REMARKS		
	(ft)	(ml/min)	(C)	(ms/cm)	(mg/L)			(ntu)				
12.2	42.19		14.74	0.226	9.08	6.18	226.2	1.1	Purge Voum	e 14.354		
	42.33		14.65	0.23	9.47	6.63	207.9	1.7				
Dumo '	Tunci	Motorro	Ludralif	+	ith blac	اد ممانیا	ubina a	nd a fact	volvo			
rump	i ype:	waterra	ryurolli	t pump w	un piac	k poly t	ubing a		valve			
Apolyti	ool Dor	amotora										
raiyti	our i ali	2000101010.			10							



				PROJECT					PROJECT No.	SHEET	SHEETS	
WELL	SAMP	LING FOI	RM	MULTI S	ITE-G			87616/05 1 оғ 1				
LOCATION Liberty	i Industr	rial Finish	ing, Bre	ntwood, I	NY #1-5	52-108		date well s 6/14/06	TARTED	DATE WELL COMPLETED 6/14/06		
CLIENT	orle Cto	to Donort	mont of	Environn	a a n t a l (200000	votion	NAME OF INS	PECTOR	oin		
DRILLING	COMPANY	le Depart	ment of		nentar C	Jonsen	valion	SIGNATURE C	F INSPECTOR	em		
	VOLUME :	1.68			WELL TD:	49.42			PUMP I	NTAKE DEPTH:		
	Depth to	Purge		FIE	LD MEAS	SUREME	INTS					
Time	Water (ft)	Rate (ml/min)	Temp. (C)	Conduct. (ms/cm)	DO (mg/L)	рН	ORP	Turbidity (ntu)		REMARKS		
	39.09	39.09 16.66 0.154 9.38 5.98 145 16.52 0.122 0.27 5.75 144						13.33				
8:20			16.52	0.133	9.27	5.75	145.6	8.72	Purge Volume 5.05 gal.			
									Wall box day	atroved		
										stroyed		
											-	
Dume		Motorro	Ludralif	+ 0.1000	ith bloc	k poly						
Pump	i ype:	vvalerra	Hydrollf	t pump W	IIII DIAC	к рогу т	s gniau.	inu a 100t	valve			
Analyti	cal Para	ameters:		TAL Meta	als							



				PROJECT					PROJECT No.	SHEET	SHEETS	
WELL	SAMP	LING FOI	RM	MULTI S	ITE-G			87616 / 05 1 of 1				
LOCATION Liberty	i Industi	rial Finish	ing, Bre	entwood, I	NY #1-5	52-108		date well s 6/14/06	STARTED	date well completed 6/14/06		
CLIENT	ork Sta	to Dopart	mont of	Environn	aontal (Concor	votion	NAME OF INS	PECTOR	oin		
DRILLING	COMPANY	te Depart		EINIOIII	lientai C	JUNSER	Valion	SIGNATURE C	DF INSPECTOR	311		
ONE WELI		9.93			WELL TD:	100.00)		PUMP II	NTAKE DEPTH:		
	Depth to	Purge		FIE	LD MEAS	SUREME	INTS					
Time	Water (ft)	Rate (ml/min)	Temp. (C)	Conduct. (ms/cm)	DO (mg/L)	рН	ORP	Turbidity (ntu)		REMARKS		
	39.13		13.76	0.264	8.05	6.09	177.7	149.6				
8:50			12.91	0.382	8.32	6.18	209.2	12.55	Purge Volum	1e 29.80 gal.		
						L	<u> </u>					
		ļ				<u> </u>	<u> </u>					
									1			
									1			
Pump	Туре:	Waterra	Hydrolif	t pump w	ith blac	k poly t	ubing a	ind a foot	valve			
Analyti	ical Par	ameters:		TAL Meta	als							



				PROJECT					PROJECT No.	SHEET	SHEETS	
WELL	SAMP	LING FOI	RM	MULTI S	ITE-G			87616 / 05 1 of				
LOCATION Liberty	i Industi	rial Finish	ing, Bre	entwood, I	NY #1-5	52-108		DATE WELL S 6/22/06	STARTED	DATE WELL COMPLETED 6/22/06		
CLIENT		_	<u> </u>	,,		_		NAME OF INS	PECTOR			
New Y	ork Sta	te Depart	ment of	Environn	nental (Conser	vation	Kevin Se	ise, Jason Kl	ein		
DRILLING	COMPANY							SIGNATURE	OF INSPECTOR			
ONE WELI		17.83			WELL TD:				PUMP I	NTAKE DEPTH:		
	Depth	Purgo		FIE	LD MEAS	SUREME	ENTS					
Time	Water	Rate	Temp.	Conduct.	DO	Hq	ORP	Turbidity	-	REMARKS		
-	(ft)	(ml/min)	(C)	(ms/cm)	(mg/L)			(ntu)				
	40.76		11.59	0.196	9.21	6.31	212.5	3.84				
12:40			12.63	0.239	8.57	5.32	234.1	3.12	Purge Volun	ne 53.48 gal.		
							ļ					
					L	L	 					
					<u> </u>	<u> </u>	I					
					<u> </u>	<u> </u>						
							1					
		<u> </u>	<u>ı </u>	1			1	1	Į			
Pump	Type:	Waterra	Hydrolif	t pump w	ith blac	k poly t	tubing a	ind a foot	valve			
			-				0					
Analyti	cal Par	ameters:		TAL Meta	als							



				PROJECT					PROJECT No.	SHEET	SHEETS
WELL	SAMP	LING FOR	RM	MULTI S	ITE-G				87616 / 05	1 оғ	1
						0 4 0 0		DATE WELL S	TARTED	DATE WELL COMPLETED	
Liberty	Industr	ial Finish	ing, Bre	ntwood, I	NY #1-5	2-108		6/22/06	PECTOR	6/22/06	
Now V	ork Sta	to Donarti	mont of	Environn	nontal (oneon	vation	Kovin So	ien laenn Klu	ain	
	COMPANY	le Depart			ientai (5011561	ValiOII	SIGNATURE C	FINSPECTOR		
ONE WELI	VOLUME :	134.51			WELL TD:				PUMP II	NTAKE DEPTH:	
	Denth			FIE			PTN				
	to	Purge		1.12							
Time	Water	Rate	Temp.	Conduct.	DO	pН	ORP	Turbidity	1	REMARKS	
	(ft)	(ml/min)	(C)	(ms/cm)	(mg/L)			(ntu)			
	41.95		11.6	0.086	8.72	7.63	122.4	3.96			
13:40			12.15	0.129	6.67	5.6	211.9	1.06	Purge Volum	ne 403.53 gal.	
									Ŭ		
											-
						ļ					
						L					
							<u> </u>				
							I		!		
Dump	Type	Watorra	Hydrolif	t numn w	ith bloc	k noly t	ubina a	nd a fact	valvo		
runp	rype.	vvalend	i iyurulli	r punp w	in plac	r poly l	ubing a	inu a 100l	valve		
Apolyt	oal Par	amotora			ale						
rnaiyli	car i al				10						



				PROJECT					PROJECT No.	SHEET		SHEETS
WELL	SAMP	LING FOI	RM	MULTI S	ITE-G			DATE WELL	87616 / 05	1	OF	1
Liberty	Industr	rial Finish	in <u>g,</u> Bre	entwood, I	NY <u></u> #1-5	5 <u>2-1</u> 08		date well s 6/14/06	TARTED	DATE WELL COMPLETE 6/14/06)	
				F				NAME OF INSI	PECTOR			
	Ork Sta	te Depart	ment of	Environn	nental	Jonser	vation	KEVIN SE	ISE, JASON KI	ein		
ONE WELI	VOLUME :	18.00			WELL TD:	148.6		-	PUMP I	NTAKE DEPTH:		
	Depth to	Purge		FIE	LD MEAS	SUREME	ENTS					
Time	Water	Rate	Temp.	Conduct.	DO	pН	ORP	Turbidity	1	REMARKS		
	(ft)	(ml/min)	(C)	(ms/cm)	(mg/L)			(ntu)				
	38.29		12.83	0.2	8.09	5.64	229.8	13.33				
12:10			12.9	0.204	7.41	5.64	230	8.72	Purge Volum	ne 54.00 gal.		-
 												
<u> </u>					<u> </u>	<u> </u>						
	-											
Pump	l ype:	Waterra	Hydrolif	t pump w	ith blac	k poly i	tubing a	ind a foot	valve			
Apolyti	cal Dar	amotoro			ale							
raiyli	uai Fali				213							



				PROJECT					PROJECT No.	SHEET		SHEETS
WELL	SAMP	LING FOI	RM	MULTI S	ITE-G				87616 / 05	1	OF	1
LOCATION	Induct	rial Einiah	ing Pro	ntwood I	VV #1 6	0 100		DATE WELL S	TARTED	DATE WELL COMPLETE	ED	
CLIENT	muusu	iai fillisti	пу, ые	ntwood, i	NT #1-C	02-100		0/ 14/00 NAME OF INS	PECTOR	0/14/00		
New Y	ork Sta	te Depart	ment of	Environn	nental (Conser	vation	Kevin Se	ise, Jason Kl	ein		
DRILLING	COMPANY	· · ·						SIGNATURE C	OF INSPECTOR			
ONE WELI	VOLUME	: 18.00			WELL TD:	148.6			PUMP I	NTAKE DEPTH:		
	Depth to	Purge		FIE	LD MEAS	SUREME	ENTS					
Time	Water	Rate	Temp.	Conduct.	DO	рН	ORP	Turbidity	1	REMARKS		
	(ft)	(ml/min)	(C)	(ms/cm)	(mg/L)			(ntu)				
	38.3		15.09	0.188	9.9	5.78	204.6					
12:40			14.16	0.191	9.15	5.41	231.5		Purge Volun	ne 35.35 gal.		
									Duplicate			
									MS			
									MSD			
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Duran		Motores	ا المراجعة ال	+	ith his -	لرممانيا	ubiee -	nd a fast	volvo			
Fump	i ype:	vvalerra	Hydrollf	i pump w	ULL DIAC	к рогу і	lubing a	1001 a 1001	valve			
Apoluti	ool Bor	omotoro										
rnaiyli	uai F di				213							



	CAMD								PROJECT No.	SHEET	SHEETS	
	SAMP	LING FOI	RIVI	MULTIS	IIE-G			DATE WELL S	STARTED DATE WELL COMPLETED			
Liberty	[,] Industi	rial Finish	ing, Bre	entwood, l	NY #1-	52-108		8/23/07		8/23/07		
	ork Sto	to Donort	mont of	Environn	oontol (`	votion	NAME OF INS	PECTOR	hottorioo		
DRILLING	COMPANY	le Depart	ment of	Environi	lientar	Jonser	valion	SIGNATURE C	DF INSPECTOR	nalleijee		
ONE WELI	VOLUME :		5 gal		WELL TD:		50 ft		PUMP	лтаке дертн: 45 ft		
	Depth to	Purge		FIE	LD MEAS	SUREME	INTS					
Time	Water (ft)	Rate (ml/min)	Temp. (C)	Conduct. (ms/cm)	DO (mq/L)	рН	ORP	Turbidity (ntu)		REMARKS		
	43.15	, ,	. ,	, ,	,			, ,	Static Water	Level		
	43.15		14.75	0.136	10.65	6.17	259	4.8				
									Hand purgeo	d using foot valve and	d poly	
									tubing			
								_	Purged appr	oximately 16 gals.		
16:00									Collect samp	ble LMW-5		
								-				
								 				
								<u> </u>				
					ļ	L						
								1				
			•									
Pump	Туре:	Waterra	Hydrolif	t pump w	ith blac	k poly t	ubing a	and a foot	valve			
												
Analyti	ical Par	ameters:		TAL Meta	als							



				PROJECT					PROJECT No.	SHEET		SHEETS	
WELL	SAMP	LING FOR	RM	MULTI S	ITE-G			DATENELL	95900 - 50	1	OF	1	
	Inducti	rial Finich	ina Bra	antwood	NY #1₋ ⊮	52-108		8/21/07	TARTED	8/24/07			
CLIENT	muust		ing, Die	, involut, i	NI #15	52-100		NAME OF INS	PECTOR	0/24/01			
New Y	ork Sta	te Depart	ment of	<u>Environ</u> r	nental (<u>Conserv</u>	vation	Mihir Cho	okshi, Saby C	hatterjee			
DRILLING	COMPANY							SIGNATURE C	F INSPECTOR				
ONE WELL	VOLUME :		142		WELL TD:	265 ft	t		PUMP II	ntake depth: 92 ft			
	Depth to	Purge		FIE	LD MEAS	SUREME	INTS						
Time	Water	Rate	Temp.	Conduct.	DO	рН	ORP	Turbidity		REMARKS			
	(ft)	(ml/min)	(C)	(ms/cm)	(mg/L)			(ntu)	Otationation	I			
12.05	1E E		00 F	0.40	0 54	E 07	240	150	Static water	ievei			
13:25	45.5		23.5	0.13	0.51	5.87	313	158	Pump on				
13:50	20.25		14.ŏ 12.4	0.142	0.4ŏ	0.00	309	4.4					
13.55	70 0		13.4	0.142	7.40	5.09	317	9					
14.05	19.0 79.1												
14:15 78.1 14:20 82.35													
14:20 82.35 14:30 84.70													
14:30 84.70 15:00 85.3													
15.00	85.5												
15:40	85.9												
16:00	88.7												
16:20	88.2												
16:20	89.8		13.4	0 148	75	5.82	318	6.80	Purged appr	ox 425 gallon			
10.00	00.0		10.1	0.110	7.0	0.02	010	0.00	r argoa appr	ox 120 gallon			
16:40									Collect same	ble LMW-6			
	- .	14/-1											
Pump	i ype:	vvaterra	Hydroli	t pump w	ith blac	к poly t	ubing a	and a foot	valve				
Analysi		omotore		TAL Mat									
Analyti	cal Par	ameters:		I AL ME	ais								



				PROJECT					PROJECT No.	SHEET	SHEETS
WELL	SAMP	LING FOR	RM	MULTI S	ITE-G				95900 - 50	1 оғ	1
LOCATION	l Inducti	ial Finiah	ing Dra	ntwood		-0 100		DATE WELL S	STARTED		
LIDEITY	Industr	nai Finish	ing, вre	entwood, I	NY #1-5	52-108		8/24/U7	PECTOR	8/24/07	
New Y	ork Sta	te Departi	ment of	Environn	nental C	Conserv	vation	Mihir Cho	okshi, Saby C	hatterjee	
DRILLING	COMPANY							SIGNATURE C	DF INSPECTOR	,	
ONE WELI	VOLUME :	3.0			WELL TD:	49.3 ft			PUMP I	NTAKE DEPTH: 45 ft	
	Depth to	Purge		FIE	LD MEAS	SUREME	NTS				
Time	Water (ft)	Rate (ml/min)	Temp. (C)	Conduct. (ms/cm)	DO (mg/L)	рН	ORP	Turbidity (ntu)		REMARKS	
	39.95	. ,	. ,	, ,	() /			. ,	Static water	level	
8:20	39.95		17.5	0.194	5.16	6.28	207	-50	Pump on		
8:30											
									Purged appr	ox 10 gal volume	
8:30									Collect samp	ble LMW-12	
											<u></u>
Pump	Tvne [.]	Waterra I	Hydrolif	t numn w	ith blac	k polv t	ubina	and a foot	valve		
. unp	. , po.	. ratoria i	.,	. Partip W		. poly t	aonig (
Analyti	cal Par	ameters:		TAL Meta	als						



				PROJECT					PROJECT No.	SHEET		SHEETS
WELL	SAMP	LING FO	RM	MULTI S	ITE-G			• · · · · · · · · · ·	95900 - 50	1	OF	1
LOCATION	i / Indust	rial Finish	vina Bre	entwood	NY #1-!	52-108		DATE WELL S 8/24/07	STARTED	DATE WELL COMPLETED		
CLIENT	maaaa		ing, bic	<u>, , , , , , , , , , , , , , , , , , , </u>		<u>JZ 100</u>		NAME OF INS	PECTOR	0/27/01		
New Y	ork Sta	ite Depart	ment of	<u>í Environr</u>	nental (Conser	vation	Mihir Che	okshi, Saby C	hatterjee		
DRILLING	COMPANY							SIGNATURE	OF INSPECTOR			
<u> </u>								<u> </u>				
ONE WELL	- VOLUME :	. 10			WELL TD:	100 ft	t		PUMP II	NTAKE DEPTH: 48 ft		
	Depth to	Purge		FIEI	LD MEAS	SUREME	INTS					
Time	Water	Rate	Temp.	Conduct.	DO	рН	ORP	Turbidity	1	REMARKS		l
	(ft)	(ml/min)	(C)	(ms/cm)	(mg/L)		<u> </u>	(ntu)				
		ļ'	<u> '</u>						Static water	level		
8:45	40	ļ'	16.7	0.231	5.93	6.32	261	28.4	Pump on			
8:50	40.2	ļ'	13.2	0.234	8.46	6.35	272	9.6	Durradiona	04		
9:00	40.2	ļ'	 '	 '	├─── ′	──	──		Purged appr	ox 31 gai		
Q·10	 '	 '	 '	 '	┟────′	├───	┼───	╂────	Collect same	ne M\\/-14		
3.10		<u> </u> '	├ ───′	├ ────′	'	├───	┼───	+				
			('	├ ────′	├ ───┤	├───		+				
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	 '	ļ'	 '	 '	<u> '</u>							
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 	[!]	 '	 '	 '	───′	──	──					
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 		<u> </u> '	├ ───′	├ ────′	'	├───	┼───	+	+			
	<u> </u>		('	├ ────′		├───		+				
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 	 '	ļ'	 '	 '	↓ '							
Ⅰ	'	ļ'	 '	 '	 '	──	──	───				
┣────	¹	'	 '	 '	├────′	───	──	<u> </u>				
┢───	'	 '	 '	 '	───′	──	──					
┟────	<u> </u> '	<u> </u>	L'	<u> </u>		L	<u> </u>	<u> </u>	<u> </u>			
Pump	Type.	Waterra	Hydroli	ft nump w	vith blac	k nolv t	tubina :	and a foot	valve			
I UIIP	1960.	Mutoria .	nyare			к ро.у .	.uoing .		Valve			
Analyt	ical Par	ameters:		TAL Met	als							



_				PROJECT					PROJECT No.	SHEET	SHEETS		
WELL	SAMPI	LING FOR	RM	MULTI S	ITE-G				95900 - 50	1 оғ	1		
LIDEATION	Industr	ial Finish	ing, Bre	entwood, I	NY #1-5	52-108		date well s 8/24/07	TARTED	date well completed 8/24/07			
	ork Stor	to Donort	mont of	Environn	oontol (otion	NAME OF INS	PECTOR	hattariaa			
DRILLING	COMPANY	le Depart	ment of	Environn	ientai C	Jonsen	ation		DKSIII, SADY C	nallerjee			
ONE WELL	. VOLUME :		18 gal		WELL TD:		150 ft		PUMPIN	NTAKE DEPTH: 48 ft			
	Depth to	Purge		FIEI	D MEAS	SUREME	NTS						
Time	Water	Rate	Temp.	Conduct.	DO	рН	ORP	Turbidity		REMARKS			
	(ft)	(ml/min)	(C)	(ms/cm)	(mg/L)			(ntu)					
	42.58								Static Water	Level			
12:30	42.58								Pump on				
12:40	42.58		12.4	0.279	7.5	5.6	323	8.4					
12:45	42.4		12.8	0.284	5.49	5.29	347	12.8					
13:00	42.4		12.6	0.295	5.32	5.24	352	15.6	Purged appr	oximately 60 gallons			
13:05									Collect samp	ole LMW-18			
Pump	ump Type: Waterra Hydrolift nump with black poly tubing and a foot valve												
· •p			.,	- P P - 11									
Analyti	cal Para	ameters:		TAL Meta	als								



<u> </u>				PROJECT					PROJECT No.	SHEET	SHEETS		
WELL	SAMP	LING FOR	RM	MULTI S	ITE-G				95900 - 50	1 оғ	1		
LOCATION Libertv	Indust	rial Finish	ing, Bre	entwood.	NY #1-	52-108		DATE WELL S 8/24/07	TARTED	DATE WELL COMPLETED 8/24/07			
CLIENT		_	<u>,</u>				_	NAME OF INS	PECTOR				
New Y	ork Sta	te Depart	ment of	Environn	nental (Conserv	vation	Mihir Cho	okshi, Saby C	hatterjee			
DRILLING	COMPANY							GIGINATURE	JE INSPECIUK				
ONE WEL		133 gal			WELL TD:		248 ft	•	PUMP II	NTAKE DEPTH: 48 ft			
	Depth			FIE		SUREME	NTS						
	to	Purge	_					1	4				
Time	Water (ft)	Rate (ml/min)	Temp. (C)	Conduct. (ms/cm)	DO (mq/L)	рН	ORP	Turbidity (ntu)		REMARKS			
9:15	42.75	, ,		. ,	,			. ,	Static Water	level			
	44.8		12.4	0.15	7.76	5.96	334	50.5	Pump started	b			
	44.85		12	0.152	6.16	5.74	294	7.2	Purged appr	oximately 400 gallons			
	44.9		11.5	0.147	6.01	5.14	320	7.8					
	44.95		11.5	0.195	5.49	5.25	349	10.6					
	44.2		11.5	0.203	5.69	335	20.8						
	44.65		11.5	0.15	6.5	5.63	323	7.10					
12:30									Collect samp	ble LMW-19			
								1	1				
								1					
								1					
	-												
Pump	Туре:	Waterra	Hydrolif	t pump w	ith blac	k poly t	ubing a	and a foot	valve				
		Sample of	collecte	d using te	flon ba	iler							
Analyt	ical Par	ameters:		TAL Meta	als								
I													



_				PROJECT					PROJECT No.	SHEET		SHEETS	
WELL	SAMP	LING FOR	RM	MULTI S	ITE-G				95900 - 50	1	OF	1	
LOCATION	Industr	rial Finish	ina Bre	entwood	NY #1-9	52-108		8/22/07	TARTED	8/22/07			
CLIENT	maaoa		ing, bre	, 1		52 100		NAME OF INS	PECTOR	0,22,01			
New Y	ork Sta	te Depart	ment of	Environn	nental (Conserv	vation	Mihir Cho	okshi, Saby C	hatterjee			
DRILLING	COMPANY							SIGNATURE C	OF INSPECTOR				
ONE WELL	VOLUME :	18.00			WELL TD:		149.50	D ft	PUMP II	NTAKE DEPTH: 45 ft			
	Depth			FIE	D MEAS	SUREME	NTS						
	to	Purge	-		5.0			1 -	-				
Time	water (ft)	Rate (ml/min)	(C)	(ms/cm)	DO (ma/l)	рн	ORP	(ntu)		REMARKS			
	39.15	(,	(0)	(110/011)	(9, =)			(intu)	Static Water	Level			
17:35	39.15		13.3	0.285	7.35	5.62	281	9.7	Pump on				
17:40	40.02		12.2	0.375	8.63	5.66	299	18.9					
17:45	40.01		12.1	0.38	4.24	5.36	323	3.2					
17:55	40.02		12.1	0.375	4.63	5.39	329	10.8	Purged appr	ox. 56 gal			
18:10									Collect samp	ble LMW-20			
										unlineta) MO and			
									LIVIV-120 (d	uplicate), MS and	MSD)	
									samples coll	ecleu			
							ļ						
							I	1	<u> </u>				
Pump	ump Type: Waterra Hydrolift nump with black poly tubing and a foot valve												
			.,	- P									
Analyti	cal Par	ameters:		TAL Meta	als								
Í													



				PROJECT					PROJECT No.	SHEET	SHEETS			
WELL	SAMP	LING FOR	RM	MULTI S	ITE-G				95900 - 50	1 оғ	1			
LOCATION								DATE WELL S	TARTED					
LIDERTY	Industi	rial Finish	ing, Bre	entwood, l	NY #1-	52-108		8/22/07	PECTOP	8/22/07				
New V	ork Sta	te Denarti	ment of	Environn	nental (Conserv	/ation	Mihir Cha	okshi Sahv C	hatteriee				
DRILLING	COMPANY	to Dopun				2011001		SIGNATURE	DF INSPECTOR	ilationjoo				
			44.0	- 1			440.50	N (1		45.0				
ONE WELL	VOLUME :		11.6 g	ai	WELL TD:		110.50	π	PUMP IN	NTAKE DEPTH: 45 T				
	Depth			FIE	LD MEAS	SUREME	NTS							
	to	Purge												
Time	Water	Rate	Temp.	Conduct.	DO	рН	ORP	Turbidity		REMARKS				
	(ft)	(ml/min)	(C)	(ms/cm)	(mg/L)			(ntu)						
10.10	39.2		40.7	0.000	0.00	5.40		<u> </u>	Static Water	Level				
16:40	39.2		13.7	0.209	8.69	5.48	262	0	Pump on					
16:50	39.3		12.8	0.219	9.25	5.13	292	0						
17:00	39.35		12.9	0.216	9.65	5.22	289	0	Purged appro	oximately 35 gals				
17:10	ble LMW-21													
Pump	Tvpe:	Waterra I	Hvdrolif	t pump w	ith blac	k polv t	ubina a	ind a foot	valve					
	71		,	1		1.2.7								
Analyti	cal Par	ameters:		TAL Meta	als									

UPELL SAMPLING FORM Multi Site G OPE WILL SAMPLING FORM Multi Site G OPE WILL SAMPLING PORM Differ Will Conjuncted Differ			-		PROJECT		PROJECT No.	SHEET	SHEETS				
Docknow Date well, Sharten	WELL	SAMPI	ING FO	RM	Multi Site		95900	1 оғ	1				
Liberty Industrial Finishing, Brentwood, NY # 1-52-108 11/14/08 11/14/08 11/14/08 11/14/08 New York State Department of Environmental Protection Software Software Software Software One well volume: 3.0 Gallons well to 50 ft purp wrake of Basectors Software Time Water Rate Temp. Fonduct. Do PH ORP. Purp wrake of Basectors 11:50 45.4 1 14.44 190 8.47 5.76 157 28 Purp on Software	LOCATION						DATE WELL STARTED	DATE WELL COMP	LETED				
NAME OF NRSPECTOR NAME OF NRSPECTOR NAME OF NRSPECTOR ONE WELL YOUWE: 3.0 Gallons WELT D: 50 ft PUMP HTAKE DEPTH: 48 ft TIME VALUE TIME VALUE OF NRSPECTOR TIME VALUE OF Rate (ft) FIELD MEASUREMENTS TIME VALUE OF NRSPECTOR Static Water Level 11:50 A5.4 TIME VALUE OF NRSPECTOR TIME VALUE OF PUTP Rate A5.7 TIME VALUE OF NRSPECTOR TIME VALUE OF N	Liberty	Industr	ial Finish	ing, Bre	entwood, l	NY # 1-	52-108			11/14/08	11/14/08		
New York State Department of Environmental Protection SC / MA ONE WELL YOUME: 3.0 Gallons WELL TD: 50 ft PUMP WTAKE DEPTH: 48 ft Image: State Department of Environmental Protection Methods Time Water Remain Conduct. DO PH ORP Turbidity REMARKS Image: State Department of Environmental Protection Methods Remain Conduct. DO PH ORP Turbidity REMARKS Image: State Department of Environmental Protection Mater Interview State Department of Environmental Protection State Department of Environmental Protection 45.4 1 14.04 190 8.47 5.76 157 28 Pump on 11:55 45.45 1 13.52 177 7.66 5.73 181 O Purged approximately 15 gals. 12:01 45.48 1 13.52 177 7.66 5.73 181 O Purged approximately 15 gals. 12:10 45.48 1 13.52 177 7.66 181 181 D	CLIENT			-						NAME OF INSPECTOR	-		
DeskLive comPANY SignATURE OF INSPECTOR ONE WELL VOLUME: 3.0 Gallons well To: 50 ft PUMP INTAKE DEPTH: 48 ft Time Water Purge FEELD MEASUREMENTS REMARKS 14 ft 45.4 I I Image: Conduct (mg/L) DO pH ORP Turbidity REMARKS 11:50 45.4 I 14.44 190 8.47 5.76 157 28 Pump on 11155 45.45 1 14.08 181 7.27 5.75 161 8.6 11150 45.48 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:00 45.45 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:01 Image:	New Y	ork Stat	te Depart	ment of	Environn	nental F	Protecti	on		SC / MA			
Detect S.0 Gallons well To: S0 ft PUMP INTAKE DEPTH: 48 ft Time Operation Purge Tomp: Conduct: D0 PH ORP Turbidity REMARKS 45.4 1 14.44 190 8.47 5.76 157 28 Purmp on 11150 45.4 1 14.44 190 8.47 5.76 157 28 Purmp on 11150 45.45 1 13.52 177 7.56 5.73 181 0 Purged approximately 15 gals. 11:50 45.48 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:00 45.48 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:10 I I III IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	DRILLING	COMPANY								SIGNATURE OF INSPECTOR			
ONE WELL VOLUME: 3.0 Gallons WELL TO: 50 ft PUMP INTAKE DEPTH 48 ft Time Very Purge (ft) Terms- (ft) Conduct DO PH ORP Turbidity REMARKS 45.4 Terms- (ft) Conduct DO PH ORP Turbidity REMARKS 11:50 45.4 1 14.44 190 8.47 5.76 157 28 Purge on 11:50 45.45 1 14.44 190 8.47 5.76 161 8.6 12:00 45.45 1 13.53 175 7.56 5.74 177 0 12:00 45.45 1 13.53 175 7.56 5.74 177 0 12:00 45.45 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:10 L L L L L L L L L 12:10 L L L L L L L L 14:10 L L L L L L L 12:10 L L L L L L <													
Depth Purge (f) Purge (grm) FIELD MEASUREMUNTS REMARKS 45.4 1 14.44 190 8.47 5.76 157 2.8 Purmp on 45.4 1 14.44 190 8.47 5.76 157 2.8 Purmp on 11:50 45.4 1 14.44 190 8.47 5.76 157 2.8 Purmp on 11:50 45.4 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:00 45.48 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:10		0.015		20	Gallona			50	ft		∕10 ft		
Depth to to to to the state of the		ONE WE	LL VOLUME :	3.0	GallUllS	v	WELL TD:	50	IL	PUMP INTAKE DEPTH:	40 II		
vo Prove frame		Depth			FIE	LD MEAS	SUREME	NTS					
Time (tt) Water (gpm) Temp. (°C) Conduct. (mg/L) DO PH ORP Turbidity (mu/L) REMARKS 45.4 - <		to	Purge										
(n) (gpm) (°C) (µs/cm) (mg/L) (mu) (mu) 45.4 - - - - - Static Water Level 11:50 45.4 1 14.44 190 8.47 5.76 157 28 Pump on 11:55 45.45 1 14.08 181 7.27 5.75 161 8.6 12:00 45.45 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:01 - - - - - - - Collect sample LMW-5 12:10 - - - - - - Collect sample LMW-5 12:10 - - - - - - Collect sample LMW-5 12:10 - - - - - - - - - - - - - - - - - - <	Time	Water	Rate	Temp.	Conduct.	DO	рН	ORP	Turbidity	REM	ARKS		
45.4 1 1 1 1 1 1 1 1 1 45.4 1 14.44 190 8.47 5.76 157 28 Pump on 11:50 45.45 1 14.08 181 7.27 5.75 161 8.6 1 12:00 45.45 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:05 45.48 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:10		(ft)	(gpm)	(°C)	(µs/cm)	(mg/L)			(ntu)				
45.4 v v v v Static Water Level 111:50 45.4 1 14.44 190 8.47 5.76 157 28 Pump on 11:50 45.45 1 14.08 181 7.27 5.75 161 8.6 12:00 45.45 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:00 45.4 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:00													
111:50 45.4 1 14.44 190 8.47 5.76 157 28 Pump on 111:55 45.45 1 14.08 181 7.27 5.75 161 8.6 12:00 45.48 1 13.53 177 7.66 5.74 177 0 12:05 45.48 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:04 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:10 1 1 1 1 1 1 1 1 12:10 1 1 1 1 1 1 1 1 12:10 1 1 1 1 1 1 1 1 12:10 1 1 1 1 1 1 1 1 12:10 1 1 1 1 1 1 1 1 12:10 1 1 1 <		45.4								Static Water Level			
11:55 45.45 1 14.08 181 7.27 5.75 161 8.6 12:00 45.45 1 13.53 175 7.56 5.74 177 0 12:05 45.48 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:10 1 <td>11:50</td> <td>45.4</td> <td>1</td> <td>14.44</td> <td>190</td> <td>28</td> <td>Pump on</td> <td></td> <td></td>	11:50	45.4	1	14.44	190	28	Pump on						
12:00 45.45 1 13.53 175 7.56 5.74 177 0 12:05 45.48 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:10 1 <	11:55	45.45	1	14.08	181	8.6	i '						
12:05 45.48 1 13.52 177 7.66 5.73 181 0 Purged approximately 15 gals. 12:10 - - - - - - - Collect sample LMW-5 12:10 - - - - - - - - 12:10 - - - - - - - - 12:10 - - - - - - - - 12:10 - - - - - - - - 12:10 - - - - - - - - 12:10 - - - - - - - - 14:10 - - - - - - - - 14:10 - - - - - - - - 14:10 - - - - - - - - - <td< td=""><td>12:00</td><td>45.45</td><td>1</td><td>13.53</td><td>175</td><td>7.56</td><td>5.74</td><td>177</td><td>0</td><td></td><td></td><td></td></td<>	12:00	45.45	1	13.53	175	7.56	5.74	177	0				
12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10 12:10	12:05	45.48	1	13.52	177	7.66	5.73	181	0	Purged approximate	ly 15 dals		
12:10 Image: Control of the state of		10.10	•	10.02			0.10		Ŭ		.,		
Image: Constraint of the second se	12.10									Collect sample I M/M	/-5		
Image:	12.10												
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Image: Constraint of the second se													
Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Pump Type: Grundfos pump with poly tubing Analytical Parameters: TAL Metals													
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Pump Type: Grundfos pump with poly tubing Analytical Parameters: TAL Metals													
Pump Type: Grundfos pump with poly tubing Analytical Parameters: TAL Metals		-											
Analytical Parameters: TAL Metals	Pump	Туре:	Grundfos	pump	with poly	tubing							
Analytical Parameters: TAL Metals													
	Analyti	cal Para	ameters:		TAL Meta	als							
	-												

ſ				PROJECT					PROJECT No.	SHEET SHEETS			
WELL	SAMP	LING FO	RM	Multi Site		95900	1 оғ 1						
LOCATION	1								DATE WELL STARTED	DATE WELL COMPLETED			
Liberty	Industr	rial Finish	ing, Bre	entwood, I	NY # 1-	52-108	i		11/14/08	11/14/08			
	ork Sta	to Donart	mont of	Environn	nontal F	Protocti	<u></u>						
	COMPANY	le Depair	ment of	Elivironi	llelitari	TUIECIN	011						
	ONE WE	LL VOLUME :	143.0	Gallons	v	NELL TD:	265	ft	PUMP INTAKE DEPTH:	100 ft			
	Depth		1	FIE	LD MEAS	SUREME	NTS						
	to	Purge											
Time	Water	Rate	Temp.	Conduct.	DO	рН	ORP	Turbidity	REM	ARKS			
	(ft)	(gpm)	(°C)	(µs/cm)	(mg/L)	 		(ntu)					
	15.0				ļ								
0.05	45.2		40.70	455		Static water level							
8:35	FF 0	<u> </u>	12.72	155	Pump on								
8:40	55.3	2.5	13.1										
8:50 67.2 2.5 13.25 154 0.54 6.18 134 1.4													
9:00	72.9	2.5 2.5	10.00	154	0.39	0.13	135	C.F					
9.10	13.0	2.0	12.02	104	1.9	0.09	120	0.0					
9.20	75.04	2.5	12.12	153	0.10	6.00	1/1	0.5					
9.30	70.94	2.5	12.05	100	0.10	0.01	141	0.4					
9.40	76.78	2.5	12.26	111	30	5.46	128	61					
9.00	77.52	2.5	12.20	100	১.৩ 5.32	5.40	07	0.4 6.1					
10.00	11.5Z	2.5	12.22	96	0.02 6.26	5.90	91	0.4					
10.20	11.4 82	3	12.15	00 80	5.96	5.96	93	4.0					
10.30	02 84.1	3	12.20	84 84	0.90 7 02	5.90	107	0.4 0.7					
10.40	84.8	3	12.10	81 81	7.02	5.95	113	2.1					
11.00	85.4	3	12.10	78	7.68	5.95	121	17					
11.00	85 48	3	12 15	76	7.00	5.95	126	1.5					
11.15	85 85	3	12.09	75	78	5.95	128	1.0	Purced approx 430 (rallon			
111.10	00.00		12.00	10	1.0	0.00	120			Julien			
11:20					├ ──┤				Collect sample LMW	/-6			
Pump	Туре:	Grundfos	s pump	with poly	tubing								
Analyti	cal Par	ameters:		TAL Meta	als								

		-		PROJECT					PROJECT No.	SHEET SHEETS		
WELL	SAMPI		RM	Multi Site		95900	1 OF 1					
LOCATION	1					DATE WELL STARTED	DATE WELL COMPLETED					
Liberty	Industr	ial Finish	ing, Bre	entwood, l	NY # 1-	52-108			12/23/08	12/23/08		
CLIENT			0,						NAME OF INSPECTOR	1		
New Y	ork Stat	te Depart	ment of	Environn	nental F	Protection	on		SC / MA			
DRILLING	COMPANY								SIGNATURE OF INSPECTOR			
	ONE WE	LL VOLUME :	1.3	Gallons	١	WELL TD:	49.3	ft	PUMP INTAKE DEPTH:	47 ft		
	Denth			FIE			NTS					
	to	Purge										
Time	Water	Rate	Temp.	Conduct.	DO	рH	ORP	Turbidity	REM	ARKS		
	(ft)	(apm)	(°C)	(us/cm)	(ma/L)	P	•	(ntu)				
	()	(31-1-7	(-)	()	(3 /			()				
10.00	41 81								Static water level			
10.00	11 81		10.75	763	18	6 56	-26	300				
10.07	42.20		10.75	703	4.0	5.40	-20	200	r unp on			
10.10	42.39		12.40	700	4.30	0.49	-29	200				
10:15	42.39		12.75	284	7.68	6.1	-17	150				
10:20	42.34		15.18	227	7.09	5.98	-1	140				
									Purged approx 8 gal	lons		
10:25									Collect sample LMW	/-12		
Pump	ump Type: Grupdfos pump with poly tubing											
runp	гуре.	Grandios	pump	with poly	abiliy							
Analyt	ool Do-	amotora										
Analyt	cal Para	ameters:		I AL IVIETA	215							

				PROJECT	-		PROJECT No.	SHEET SHEETS					
WELL	SAMPL	ING FO	RM	Multi Site	e G		95900						
Liberty	Industr	ial Finish	ing, Bre	entwood, l	NY # 1-		12/23/08	12/23/08					
CLIENT									NAME OF INSPECTOR				
	ork Stat	e Depart	ment of	Environn	nental F	rotecti	on		SC / MA				
DRILLING									SIGNATORE OF INSPECTOR				
	ONE WEI	LL VOLUME :	9.5	Gallons	١	WELL TD:	100	ft	PUMP INTAKE DEPTH:	50 ft			
	Depth	Burgo		FIE	LD MEAS	SUREME	NTS						
Time	Water	Rate	Temp.	Conduct.	DO	рΗ	ORP	Turbidity	REM	ARKS			
	(ft)	(gpm)	(°C)	(µs/cm)	(mg/L)	P	•	(ntu)					
11:00	41.98								Static water level				
11:15	42		12.8	3372	6.81	6.16	129	10.9	Pump on				
11:20	42.17	0.55	14.68	3646	1.26	6.5	3	970					
11:25	42.17		14.71	3637	2.55	6.64	6	840					
11:30 42.17 13.74 2640 5.05 6.37 2.7 790 11:40 42.17 13.6 821 5.97 5.97 85 741													
11:40 42.17 13.6 821 5.97 5.97 85 741 11:50 42.17 13.36 692 5.84 5.84 117 800													
11:50	42.17												
12:00	42.17		13.58	296									
12:10	42.17		13.32	526									
									Purged approximately 30 gallons				
10.00										· · · · · · · · · · · · · · · · · · ·			
12:20									Sample MW-14 colle	ected at 12:20			
									Turkiditu towordo the				
				-						end seems			
									< 100 NTO				
									The turbidity meter s	bows incorrect			
									reading				
									leading				
									Sample could not be	collected in			
									November, since the	well was under			
									water				
	_	•											
Pump	Type:	Grundfos	pump	with poly	tubing								
				TAL 84	- -								
Analyti	cal Para	ameters:		I AL Meta	ais								

				PROJECT					PROJECT No.	SHEET SHEETS		
WELL	SAMP	LING FO	RM	Multi Site		95900	1 of 1					
LOCATION		·							DATE WELL STARTED	DATE WELL COMPLETED		
Liberty	Industr	rial Finish	ing, Bre	entwood, I	<u>NY # 1-</u>	52-108	<u>, </u>		11/13/08	11/13/08		
	ork Sta	to Denart	ment of		nontal [Drotecti	on					
DRILLING	COMPANY	le Depart	Inent of	Environin	lentari	101601	Un		SIGNATURE OF INSPECTOR			
			17 1	Collone			150	4		E0 #		
		LL VOLUME :	17.1	Gallons	v	NELL ID:	150	IL	PUMP INTAKE DEPTH:	50 II		
	Depth	i		FIE	LD MEA	SUREME	INTS					
Time	to	Purge	Toman	Conduct				Turbidity	- DEM			
Time	Water (ft)	Kâte (cpm)	remp.	Conduct.		рн	OKP	Turbiality	KEW	ARKS		
		(gpin)		(µə/ciii)	(├ ───┦	├───		1			
	43.8	l			├ ───′	├ ───┦	<u> </u>	<u> </u>	Static Water Level			
12:40	43.8	2.5	12.65	244	5.93	5.58	199	0	Pump on			
12:50	44.3	- <u>-</u>	12.7	291	4.8	5.35	216	0				
13:00	44.3	[12.74	300	4.3	5.3	232	0				
		[Purged approximate	ly 55 gallons		
13:10	[]	[Collect sample LMW	V-18		
	\square	Í		1					Duplicate MW-68 at	13:15		
		I	[]	[]								
				<u> </u>								
	Ē			['	<u> </u>	<u>[</u>	\square					
		L		<u> </u>	<u> </u>	<u> </u>						
		 	<u> </u>	<u> </u>	<u> '</u>	<u> '</u>	Ļ	Ļ				
	\square	 	<u> </u>	 '	↓ '	↓ '	└───	Ļ				
	└─── │	 	 '	 '	 '	 '						
	↓]	 	<u> </u> '	└─── '	 '	 '			 			
	⊢−−−]	 	 '	 '	 '	 '	──	 	 			
	┝───┦	l	 '	 '	↓ '	 '	───	───	<u> </u>			
	┢───┦	l	 '	┟──── ′	 '	 '	───	┣────				
	┢────┦	<u> </u>	 '	├ ────┘	 '	┟────′	┣────	 	<u> </u>			
	┢───┦		↓ ′	├ ────┘	 '	───′	┣───	 	<u> </u>			
	┢───┦	<u> </u>		<u> </u> '	 '	┟────┘	──	 	<u> </u>			
	┟───┦	i	 '	<u> </u>	┟────┘	┟────┘	╂────	 	+			
		i	├──── ′	<u>├</u> ────┤	 '	 '	├───	<u> </u>	1			
		i	<i>י</i>	┟────┦	├ ────′	├ ───┦	├	<u> </u>	1			
	┌── ┦	i	├ ───┦	<u>├</u> ───┦	├ ────′	├ ───┦	├───	<u> </u>	<u>+</u>			
	 	[├ ───┦	l	├ ───′	├ ───┦	<u> </u>	<u> </u>	+			
		[+	├ ───′	├ ───┤	 	<u> </u>	1			
	([├ ───┤	+		├ ───┤	 	<u> </u>	1			
	\square	[+								
	([1			
			4	. <u> </u>	·	·		L	4			
Pump ⁻	Type:	Grundfo	s pump	with poly	tubing							
Analyti	cal Par	ameters:		TAL Meta	als							

PROJECT WELL SAMPLING FORM Multi Site G									PROJECT №. 95900	SHEET SHEETS	
				DATE WELL STARTED	DATE WELL COMPLETED						
	Industr	ial Finish	ing, Bre	11/13/08	11/13/08						
New Y	ork Stat	te Depart	ment of	Environn	nental F	Protectio	on		SC / MA		
DRILLING	COMPANY			SIGNATURE OF INSPECTOR							
	ONE WE	LL VOLUME :	133	Gallons	PUMP INTAKE DEPTH:	55 ft					
	Depth FIELD MEASUREMENTS										
Time	Water	Rate (gpm)	Temp.	Conduct.	DO	pН	ORP	Turbidity	REMARKS		
	(ft)		(°C)	(µs/cm)	(mg/L)			(ntu)			
	10.0										
0.50	43.9	2 5	15 5	157	0.24	6.40	02	110	Static Water level		
9:50	43.9	3.5	15.5	157	8.34	6.42 5.70	92	119	Pump started	ly 400 gallons	
10.00	45.4	3.5	12.83	14	0.Z	5.68	165	0	r uigeu appioximate	ly 400 gallons	
10:10	46.2	3.5	12.00	145	4 47	5.67	175	0			
10:20	46.25	3.5	12.74	144	4 75	5.66	180	0			
10:40	46.25	3.5	12.14	165	5.08	5.64	193	0			
10:50	46.30	3.5	11.97	187	5.66	5.62	199	0			
11:00	46.25	3.5	11.93	190	5.89	5.62	205	0			
11:10	46.25	3.5	11.92	189	5.9	5.62	209	0			
11:20	46.25	3.5	11.88	191	5.99	5.62	210	0			
11:30	46.25	3.5	11.89	192	5.69	5.62	213	0			
11:40	46.25	3.5	11.86	192	5.83	5.62	217	0			
11:50	46.25	3.5	11.87	191	5.85	5.62	219	0			
11:55									Collect sample LMW	/-19 at 11:55	
									MS/MSD		
Pump Type: Grundfos pump with poly tubing											
Analytical Parameters: TAL Metals											

		-		PROJECT					PROJECT No.	SHEET SHEETS	
WELL	SAMPI		RM	95900	1 OF 1						
LOCATION					DATE WELL STARTED	DATE WELL COMPLETED					
Liberty	Industr	ial Finish	ing, Bre		11/13/08	11/13/08					
	OFK Stat	te Depart	ment of	Environn	nental F	rotecti	on		SC / IVIA		
DRILLING	COMPANY			SIGNATORE OF INSPECTOR							
	ONE WE	LL VOLUME :	17.7	PUMP INTAKE DEPTH:	48 ft						
	Depth to	Purae		FIE	LD MEAS	SUREME	INTS				
Time	Water	Rate	Temp.	Conduct.	DO	рН	ORP	Turbidity	REMARKS		
	(ft)	(gpm)	(°C)	(µs/cm)	(mg/L)			(ntu)			
	41.2								Static Water Level		
17:00		2.5	14.06	204	10.39	5.94	135	0	Pump on		
17:10		2.5	13.15	203	10.36	5.44	185	0			
17:20		2.5	13.41	203	10.47	5.92	213	0			
									Purged approx. 55 g	al	
17:30						Collect sample LMW	/-20				
			-						-		
Pump ⁻	Туре:	Grundfos	s pump	with poly	tubing						
Analyti	Analytical Parameters: TAL Metals										

				PROJECT	PROJECT No.	SHEET SHEETS						
			RM	Multi Site		95900 DATE WELL STARTED	1 OF 1					
Liberty	/ Industr	rial Finish	ing, Bre	entwood, l	NY # 1-	-52-108	5		11/14/08	11/14/08		
CLIENT	(. Damant					-					
	ORK Star	te Depart	ment or	Environn	nental F	rotecti	on		SC / MA			
DIGLE												
	ONE WE	LL VOLUME :	11.2	Gallons	PUMP INTAKE DEPTH:	48 ft						
	Depth to	Purge		FIE	LD MEAS	SUREME	NTS					
Time	Water	Rate	Temp.	Conduct.	DO	рН	ORP	Turbidity	REM	ARKS		
 '	(ft)	(gpm)	(°C)	(µs/cm)	(mg/L)	'	'	(ntu)				
6:40	44 44	 '	 '	 '	 '	'	'	───	Ctatia Water Loval			
0.40 6:55	41.44	2	11.49	181	9.13	6 24	113	2	Static Water Lever			
7.05	┣───┦		136	243	8 43	5.4	164	<u> </u>				
7:15	├	i'	13.6	242	9.3	5 39	193	0	Purged approximate	ly 35 dals		
/	├ ──┤	i'	10.0	<u><u>L</u>¬<u>L</u></u>	0.0	0.00	100			ly oo galo		
7:25									Collect sample LMW	Collect sample LMW-21		
 '	\vdash	 '	↓ '	 '	↓ '	 '	 '	 				
 '	\vdash	 '	 '	 '	└─── ′	 '	 '	───	 			
 '	┝──┤	 '	↓ ′	 '	↓ ′	 '	 '	───				
 '	┣───┦	 '	 '	 '	├─── ′	 '	 '	───	1			
 '	──┤	 '	───′	 '	───′	 '	 '	───				
 '	──┤	 '	├ ────′	 '	───′	 '	 '	───				
'	──┤	[!]	───	<u> </u> '	───	 '	 '	───	<u> </u>			
 '	┟───┦	l'	┟────┘	 '	┟────┘	 '	 '	 				
 '	├ ──┤	l'	┟────┘	<u> </u> '	┟────┘	 '	 '	 				
 '	├ ──┤	i'	┟────′	 '	┟────′	 '	 '	 				
'	┼──┤	i'	├─── ′	<u> </u>	├─── ′	├ ───'	<u> '</u>	 	1			
 '	├ ──┤	i'	<i>י</i>	<u> </u>		┣────	'	<u> </u>				
 '	├ ──┦	i'	├ ───┦	 	├ ───┦	┣────	'	<u> </u>				
┢─────			├ ───┦		├ ───┦	├ ────	'		ł			
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Pump Type: Grupdfos pump with poly tubing												
		•••••	, F									
Analyti	Analytical Parameters: TAL Metals											
AECO	DM								WELL NO. MW- 5			
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	0.4.40			PROJECT	440		PROJECT No.	SHEET SHEETS				
	SAMP	LING FOI	< IVI	D004445	-14.3, 1	viuiti Si	ie G		60135736.30	1 OF 1 DATE WELL COMPLETED		
Liberty	Indust	rial Finish	ing, Bre	entwood, I	NY 1-52	2-108			March 8, 2010	March 8, 2010		
New Y	ork Sta	te Depart	ment of	Environn	nental a	and Cor	nservat	ion	Staci Birnbaum & C	eleste Foster		
DRILLING	COMPANY	to Dopart		2	ioniai e		1001100		SIGNATURE OF INSPECTOR			
	ONE WE	LL VOLUME :	4.35	Gallons	V	WELL TD:	50	ft	PUMP INTAKE DEPTH:	48 ft		
	Depth	Durran		FIE	LD MEAS	SUREME	NTS					
Time	to Water	Purge	Temp	Conduct	DO	nН	ORP	Turbidity	RFM	ARKS		
	(ft)	(mL/min)	(°C)	(µs/cm)	(mg/L)	pri	0.11	(ntu)				
		/						. ,				
12:05	43.34								Static water level			
12:07	43.35	0.54	15.19	0.365	10.58	5.71	197	7.9	pump on			
12:15	43.5	0.54	14.04	0.335	11.11	5.72	5.3					
12:24	43.5	0.54	13.73	0.299	11	8.9						
12:34	43.5	0.54	13.57	0.282	10.91	5.49	232	10.8				
12:35									total pumped 15 gal	turned off		
12:50									collected sample wi	th Teflon bailer		
12:53									collected sample			
Pump	Type:	Grundfos	Redi F	lo 2, sam	ple coll	ected v	vith a T	eflon baile	r			
	. –											
Analyti	cal Par	ameters:		TAL Meta	als							

AECO	DM								WELL NO. MW- 6			
	CAMD			PROJECT	44.0	A 14: C:			PROJECT No.	SHEET		SHEETS
	SAMP	LING FUI	K IVI	D004445	-14.3, N	viuiti Si	ie G		00135736.30 DATE WELL STARTED	DATE WELL	OF COMPLE	TED
Liberty	Indust	rial Finish	ing, Bre	entwood, I	NY 1-52	2-108			March 8, 2010	March 8	, 2010	1
New Y	ork Sta	te Depart	ment of	Environn	nental a	and Cor	nservat	ion	Staci Birnbaum & C	celeste Fo	ster	
DRILLING	COMPANY	•							SIGNATURE OF INSPECTOR			
	ONE WE	ELL VOLUME :	144	Gallons	v	VELL TD:	265	ft	I	150	ft	
	Depth to	Purge		FIE	LD MEAS	SUREME	NTS					
Time	Water (ft)	Rate (mL/min)	Temp. (°C)	Conduct. (us/cm)	DO (mg/L)	рН	ORP	Turbidity (ntu)	REN	IARKS		
	(,	(,,	()	(µ.e, e)	(()				
13:00	43.19								Static water level			
13:01	47.24	2.5	14.49	0.111	10.85	6.07	199	3.5	pump on			
13:27	46.4	2.5	14.93	0.137	11.69	5.91	208	13				
14:00	71.9	3	13.24	0.147	12.16	6.06	207	16.1				
15:00	68.88	2.5	15.27	0.102	11.65	6.05	191	17.5				
16:00	80.33	2.5	13.7	0.098	12.24	5.87	205	9.5	450 gal purged			
16:01						pump off						
16:05									collected sample			
				-								
				-								
									1			
Pump	Туре:	Grundfos	s Redi F	lo 2, sam	ple coll	ected v	vith a T	eflon baile	r			
Analyti	cal Par	ameters:		TAL Meta	als							

AECO	DM								WELL NO. MW-1	2	
	CAMD				44.0	A 14: C:			PROJECT No.	SHEET	SHEETS
	SAMP	LING FUI	K IVI	D004445	-14.3, 1	VIUITI SI	le G		00135736.30 DATE WELL STARTED	DATE WELL COMPLE	TED
	Indust	rial Finish	ing, Bre	entwood, l	NY 1-52	2-108			March 9, 2010	March 9, 2010)
New Y	ork Sta	te Depart	ment of	Environn	nental a	and Cor	nservat	ion	Staci Birnbaum &	Celeste Foster	
DRILLING	COMPANY								SIGNATURE OF INSPECTOR		
	ONE WE	LL VOLUME :	1.5	Gallons	v	WELL TD:	49.3	ft	PUMP INTAKE DEPT	n: 45 ft	
	Depth to	Purge		FIE	LD MEAS	SUREME	NTS				
Time	Water (ft)	Rate (mL/min)	Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	рН	ORP	Turbidity (ntu)	RE	MARKS	
	. ,	, ,	. ,		,						
7:55	40.13								Static water level		
9:05	40.31	2.4	13.87	1.44	10.21	5.26	189	-5	pump on		
9:21	40.31	2.4	15.17	0.497	9.65	5.76	142	518			
9:28	40.31	2.4	14.63	0.284	9.61	5.88	142	160			
9:29							10 gal purged and	turned off			
9:32								sample collected			
	1	I						1	I		
Pump	Туре:	Grundfos	s Redi F	lo 2, sam	ple coll	ected v	vith a T	eflon baile	er		
Analyti	ical Par	ameters:		TAL Meta	als						

AECO	DM								WELL NO. MW- 14		
				PROJECT					PROJECT No.	SHEET S	HEETS
WELL	SAMP	LING FOR	RW	D004445	-14.3, N	Vulti Si	te G		60135736.30		1
Liberty	Indust	rial Finish	ing, Bre	entwood, I	NY 1-52	2-108			March 9, 2010	March 9, 2010	-0
CLIENT Now V	ork Sta	to Donarti	ment of	Environn	nontal s	and Cor	neorvat	ion	NAME OF INSPECTOR	olosto Fostor	
	COMPANY	te Depart					1501 Val		SIGNATURE OF INSPECTOR		
	ONE WE	LL VOLUME :	9.74	Gallons	v	VELL TD:	100	ft	PUMP INTAKE DEPTH:	45 ft	
	Depth	_		FIE	LD MEAS	SUREME	NTS				
Timo	to Water	Purge	Tomp	Conduct	DO	nH		Turbidity	DEM		
Time	(ft)	(mL/min)	(°C)	(us/cm)	(ma/L)	рп	OKF	(ntu)	KEW	ARRS	
	(,	(,)	()	((()			
7:50	40.23								Static water level		
8:15	40.25	1gal/min	15.19	0.279	10.34	5.26	233	20.1	pump on		
8:26									10 gal purged		
8:28	40.3	1gal/min	7.6	0.424	11.29	5.75	211	13.46			
8:37	40.35	1gal/min	13.8	0.429	11.14	4.79	231	2.2	20 gal purged		
8:43	40.35	1gal/min	13.13	0.436	10.85	5.29	214	0			
5:50		1gal/min	13.18	0.433	10.4	5.31	211	0.10	35 gal purged		
8:51									turned pump off		
8:55									collected samples		
								1			
Pump	Туре:	Grundfos	Redi F	lo 2, sam	ple coll	ected w	vith a T	eflon baile	er		
	. –										
Analyti	cal Par	ameters:		TAL Meta	als						

AECO	DM								WELL NO. MW- 18	1
	0440			PROJECT	440	A 16: 01			PROJECT No.	SHEET SHEETS
	SAMP	LING FOI	K M	D004445	-14.3, ľ	Viulti Si	te G		60135736.30	1 OF 1
Liberty	Indust	rial Finish	ing, Bre	entwood, I	NY 1-52	2-108			March 10, 2010	March 10, 2010
New Y	ork Sta	te Depart	ment of	Environn	nental a	and Cor	nservat	ion	Staci Birnbaum & C	eleste Foster
DRILLING	COMPANY								SIGNATURE OF INSPECTOR	
	ONE WE	LL VOLUME :	17.63	Gallons	١	WELL TD:	150	ft	PUMP INTAKE DEPTH:	50 ft
	Depth	Durgo		FIE	LD MEAS	SUREME	NTS			
Time	Water	Rate	Temp.	Conduct.	DO	рΗ	ORP	Turbidity	REN	IARKS
	(ft)	(mL/min)	(°C)	(µs/cm)	(mg/L)	pri	O rta	(ntu)		
9:15	41.82								Static water level	
9:43	42.05	1.67	15.3	0.001	8.76	4.31	212	12.6	pump on	
9:57	42.09	1.67	15.3	0.001	8.76	4.31	212	12.6	purged 20 gal	
10:08	42.09	1.67	15.3	0.001	8.76	4.31	212	12.6	purged 40 gal	
10:19	42.09	1.67	15.3	0.001	8.76	12.6	purged 60 gal pump	o off		
10:30								collected sample		
									1	
Pump	Type	Grundfoo	Rodi C	lo 2 com	الم مام	acted w	vith a T	oflon baile	ar .	
unp	i ype.	Grandios		iu z, saili		งงเฮน ท	viui a l	chori balle	•1	
Analyti	cal Par	ameters:		TAL Meta	als					

AECO	DM								WELL NO. MW- 19	
				PROJECT		PROJECT No.	SHEET SHEETS			
	SAMP	LING FOI	< M	D004445	-14.3, M	Viulti Si	te G		60135736.30	1 OF 1 DATE WELL COMPLETED
Liberty	lndust	rial Finish	ing, Bre	entwood, l	NY 1-52	2-108			March 10, 2010	March 10, 2010
		to Donort	an a set at						NAME OF INSPECTOR	- Volgoto Footor
	COMPANY	te Depart	ment of	Environn	nental a	and Cor	iservat	ION	STACI BIMDAUM & C	eleste Foster
	ONE WE	LL VOLUME :	144.6	Gallons	V	WELL TD:	265	ft	PUMP INTAKE DEPTH:	52 ft
	Depth			FIE	LD MEAS	SUREME	INTS			
Time	to	Purge	Taman	Conduct	DO			Truels i ditta		
Time	(ft)	(mL/min)	(°C)	(us/cm)	(ma/L)	рп	ORP	(ntu)	KEW	ΙΑΚΝΟ
	()	((-)	(1.0.011)	((,		
9:07	42.78								Static water level	
9:22	43.44	1.11	14.07	0.2	8.93	5.9	224	0	pump on	
9:31	43.39	2.5	15.3	0.001	8.76	4.31	212	12.6	10 gal purged	
9:39	43.6	5gal/min	15.3	0.001	8.76	4.31	212	12.6	20 gal purged	
9:45		5gal/min							30 gal purged	
9:54		5gal/min								
10:00	44.49	5gal/min	15.3	0.001	8.76	4.31	212	12.60	450	
10:22	44.53	5gal/min							450 gal purged	
11:07	HU		JNE						turned pump off	
11.47										
11.21										
D	T					a at c -l		aflan ball	_	
Pump	i ype:	Grunatos	Real F	יוט ∠, sam	hie coll	ected V	with a 1	enon balle	1	
Analyti	ical Par	ameters:		TAL Meta	als					

AECO	DM								WELL NO. MW- 20	
	CAMD		204		440 1		PROJECT No.	SHEET SHEETS		
	SAIVIP	LING FUI	K IVI	D004445	-14.3, 1	VIUITI SI	le G		DUT30730.30 DATE WELL STARTED	I OF I DATE WELL COMPLETED
Liberty	Indust	rial Finish	ing, Bre	ntwood, I	NY 1-52	2-108			March 9, 2010	March 9, 2010
CLIENT Now V	ork Sta	to Donart	ment of	Environn	nontal a	and Cor	neorvati	ion	NAME OF INSPECTOR Staci Birnhaum & C	eleste Foster
	COMPANY	le Depair					1501 Val		SIGNATURE OF INSPECTOR	
	ONE WE	LL VOLUME :	17.96	Gallons	v	VELL TD:	149.5	ft	PUMP INTAKE DEPTH:	45 ft
	Depth	D		FIE	LD MEAS	SUREME	NTS			
Time	t0 Water	Purge	Temn	Conduct	DO	nH	ORP	Turbidity	REM	ARKS
Time	(ft)	(mL/min)	(°C)	(µs/cm)	(mg/L)	pri	OI	(ntu)		ANNO
	,		. ,		,			,		
11:07	39.32								Static water level	
11:19	39.64	1.67	14.12	0.291	5.01	106	0		pump on	
11:26	39.62	1.67	12.8	0.297	5.56	104	0		10 gal purge	
11:34	39.61	1.67	12.74	0.3	5.53	124		20 gal purge		
11:39	39.8	1.67	12.69	0.309	5.41	131		30 gal purge		
11:46	39.81	1.67	12.4	0.298	5.61	123		40 gal purge		
11:50	39.86	1.67	12.77	0.297	5.45	132		50 gal purge		
11:52							purged 55 gal turne	d off		
11:54							collected sample			
									1	
Pump	Type:	Grundfos	Redi F	lo 2. sam	ple coll	ected v	vith a T	eflon baile	r	
P	7,7 5.			- <u>_</u> , sam	1.10 000					
Analyti	cal Par	ameters:		TAL Meta	als					
-										

AECO	DM								WELL NO. MW- 21	l		
				PROJECT					PROJECT No.	SHEET		SHEETS
	SAMP	LING FO	KΜ	D004445	-14.3, ľ	Viulti Si	te G		60135736.30		OF	1
Liberty	Indust	rial Finish	ing, Bre	entwood, l	NY 1-52	2-108			March 9, 2010	March 9,	2010	
New Y	ork Sta	te Depart	ment of	- Environn	nental a	and Cor	nservat	ion	Staci Birnbaum & C	Celeste Fos	ster	
DRILLING	COMPANY								SIGNATURE OF INSPECTOR			
	ONE WE	ELL VOLUME :	11.6	Gallons	١	VELL TD:	110.5	ft	PUMP INTAKE DEPTH	: 45 1	ít	
	Depth to	Purge		FIE	LD MEAS	SUREME	NTS					
Time	Water	Rate	Temp.	Conduct.	DO	рН	ORP	Turbidity	REI	MARKS		
	(ft)	(mL/min)	(°C)	(µs/cm)	(mg/L)			(ntu)				
10.20	20.2								Statia watar laval			
10.20	30.38	1 1 2	12.2	0 353	8 36	5 76	177	83				
10.20	39.30	1.12	13.5	0.333	8 27	5.70	187	9.1	10 gal purge			
10:51	39.37	1.12	13.26	0.347	8 25	5.29	175	0	20 gal purge			
10:58	39.54	1.12	13 13	0.347	8.51	4 71	204	0	35 gal purge			
11.00	00.04	1.12	10.10	0.047	<u> </u>	37 gal pumped						
11:04									collected sample			
11.01												
								1				
Pump	Туре:	Grundfos	s Redi F	lo 2, sam	ple coll	ected v	vith a T	eflon baile	er			
Analyti	cal Par	ameters:		TAL Meta	als							

A	CO	M						WELL NO. MW- 2	
WELL	SVWD		PM	PROJECT	dustrial	Finishina ((1-52-108)	PROJECT №. 60135736	SHEET SHEET
					uustnari	inisining (1-52-100)	DATE WELL STARTED	
Brentv	/ood, S	uffolk Cou	inty, NY					5/26/2011	
NYSD	EC							Celeste Foster/Ste	ve Wright
ONE WEL		:	7.5	gallons	WELL TD:	54.2	ft	PUMP INTAKE DEPTH	50 ft
	Depth			FIELD MEAS	SUREMEN	TS			
Time	to	Purge	Tamm	Conduct	mLl	Turkidity		DEMADIZE	
Time	(ft)	(gal/min)	(C)	(ms/cm)	рп	(ntu)		REMARNO	
850	42.91						static water	r level	
900							pump on		
904	43.05	2	14.41	0.206	6.10	110			
908	43.05	2	13.66	0.239	5.90	40			
912	43.05	2	13.65	0.246	5.84	10	25 gallons		
915							pump off, 3	o gallons purged	
920							Samples co		
							field filtered	11 MW-02F	
Pumn	Type	Grundfoe	hand h	ailed for s	amnles				
, amp	· ypc.				ampico				
Analyt	ical Par	ameters:		TAL meta	als				

A	CO	M						WELL NO. MW- 3		
WELL	SAMP	LING FOR	RM	PROJECT Liberty In	dustrial	Finishing	(1-52-108)	ргојест №. 60135736	SHEET	SHEETS OF 1
LOCATION Brentv CLIENT	vood, S	uffolk Cou	inty, NY					DATE WELL STARTED 5/26/2011 NAME OF INSPECTOR		
NYSD	EC							Celeste Foster/Ste	ve Wright	
ONE WEL		:	7.5	gallons	WELL TD:	53.9	ft	PUMP INTAKE DEPTH	48 f	t
	Depth to	Purge	l	FIELD MEAS	SUREMEN	ITS				
Time	Water (ft)	Rate (gal/min)	Temp. (C)	Conduct. (ms/cm)	рН	Turbidity (ntu)		REMARKS		
940	42.89						static water	r level		
945							pump on			
948	43.15	2	14.47	0.228	6.22	75				
950	43.15	2	14.00	0.241	5.92	15				
955	43.15	2	13.93	0.244	5.82	10				
959							pump off, 3	0 gallons purged		
1005							Samples co	ollected:		
							unfiltered L	MW-03U		
							field filtered	LMW-03F		
	1			1						
	1			1						
Pump	Туре:	Grundfos	/hand b	ailed for s	amples		-			
Analyt	ical Par	ameters:		TAL meta	als					

A	CO	M						WELL NO. MW-4			
WELL	SAMP	LING FOR	RM	PROJECT Liberty In	dustrial l	Finishing ((1-52-108)	ргојест №. 60135736	SHEET 1	OF	sheets 1
LOCATION Brentw CLIENT	ı vood, Sı	uffolk Cou	inty, NY			-		DATE WELL STARTED 5/26/2011 NAME OF INSPECTOR	•		
NYSD	EC							Celeste Foster/Ste	ve Wright		
ONE WELI		:	7.5	gallons	WELL TD:	53.4	ft	PUMP INTAKE DEPTH	: 48	ft	
	Depth to	Purge	I	FIELD MEAS	SUREMEN	ITS					
Time	Water (ft)	Rate (gal/min)	Temp. (C)	Conduct. (ms/cm)	рН	Turbidity (ntu)		REMARKS	5		
1025	42.23						static water	r level			
1030							pump on				
1033	43.80	3	15.19	0.312	6.55	125					
1038	43.80	3	14.49	0.422	6.32	26					
1044	43.80	3	14.45	0.430	6.22	9.3	a survey a ff of				
1045							pump off, 4	O gallons purged			
1050							Samples Co				
							field filtered	11 MW-04F			
				ļ							
Pump	Туре:	Grundfos	/hand b	ailed for s	amples						
Analyti	cal Par	ameters:		TAL meta	als						

A	CO	M						WELL NO. MW-5			
WELL	SAMP	LING FOF	RM	PROJECT Liberty In	dustrial I	Finishing ((1-52-108)	PROJECT №. 60135736	SHEET 1	OF	sheets 1
LOCATION Brentw	ı vood, Si	uffolk Cou	inty, NY	• •				date well started 5/23/2011			
CLIENT NYSD	EC							NAME OF INSPECTOR Celeste Foster/Ste	ve Wright		
ONE WELI		:	3.3	gallons	WELL TD:	50.0	ft	PUMP INTAKE DEPTH	49	ft	
	Depth to	Purge		FIELD MEAS	SUREMEN	TS					
Time	Water (ft)	Rate (gal/min)	Temp. (C)	Conduct. (ms/cm)	рН	Turbidity (ntu)		REMARKS			
1208	44.92	,					static water	r level			
1600	44.94	1	14.53	0.431	5.85	15	pump on				
1615	44.93	1	14.38	0.424	5.67	12					
1620	44.95	1	14.25	0.417	5.62	10					
1625	44.95	1	13.75	0.399	5.50	10					
1700							pump off, 2	25 gallons purged			
1705							Samples co	ollected:			
							unfiltered L	MW-05U			
							field filtered	LMW-05F			
Pump	Туре:	Grundfos	/hand b	ailed for sa	amples						
Analyti	cal Par	ameters:		TAL meta	als						

A	CO	M						WELL NO. MW- 6		
	SAMD			PROJECT	طبيملتنما	-	(1 50 100)	PROJECT No.	SHEET SHE	EETS
	SAIVIP		X IVI	Liberty in	uusinai	rinishing ((1-52-106)	DUTSD730 DATE WELL STARTED	I OF	<u> </u>
Brentw	ood, S	uffolk Cou	inty, NY					5/23/2011		
OLIENT NYSDI	EC							Celeste Foster/Stev	ve Wright	
ONE WELL		:	144	gallons	WELL TD:	265	ft	PUMP INTAKE DEPTH:	75 ft	
	Depth to	Purge	I	FIELD MEAS	SUREMEN	ITS				
Time	Water (ft)	Rate (gal/min)	Temp. (C)	Conduct. (ms/cm)	рН	Turbidity (ntu)		REMARKS		
1207	44.76						static water	r level		
1230		5					pump on			
1312		5	14.36	0.237	6.66	14.9				
1400	78.25	5	12.94	0.158	6.11	11.2				
1442	74.20	5	12.88	0.11	6.12	11.0				
1620	73.59	5	12.59	0.096	5.74	11.0				
1645							pump off, ~	-500 gallons purged		
1650							Samples co	MW 06LL and		
							field filtered			
Pump	Туре:	Grundfos	/hand b	ailed for sa	amples					
Analyti	cal Par	ameters:		TAL meta	als					

A	CO	M						WELL NO. MW-10)		
WELL	SAMP	LING FOR	RM	PROJECT Liberty In	dustrial l	Finishing ((1-52-108)	ргојест №. 60135736	SHEET 1	OF	sheets 1
LOCATION Brentw CLIENT	ı vood, Sı	uffolk Cou	inty, NY					DATE WELL STARTED 5/26/2011			
NYSD	EC							Celeste Foster/Ste	ve Wright		
ONE WELI		:	5	gallons	WELL TD:	50.0	ft	PUMP INTAKE DEPTH:	48	ft	
	Depth to	Purge	I	FIELD MEAS	SUREMEN	ITS					
Time	Water (ft)	Rate (gal/min)	Temp. (C)	Conduct. (ms/cm)	рН	Turbidity (ntu)		REMARKS			
1147	42.10						static water	r level			
1158							pump on				-
1203	42.20	2	15.48	0.317	6.86	150					
1205	42.20	2	14.06	0.320	6.55	30					
1210	42.20	۷	14.01	0.315	0.12	10	nump off 2	25 gallons purged			
1210							Samples co	ollected:			
							unfiltered L	MW-10U			
							field filtered	LMW-10F			
Pump	Type:	Grundfos	/hand b	ailed for sa	amples						
Analyti	cal Par	ameters:		TAL meta	als						

A	CO	M						WELL NO. MW- 1	2		
WELL	SAMP	LING FOR	RM	PROJECT Liberty In	dustrial I	Finishing ((1-52-108)	ргојест №. 60135736	SHEET 1	OF	sheets 1
LOCATION Brentw	ı vood, Sı	uffolk Cou	inty, NY					DATE WELL STARTED 5/24/2011			
NYSDI	EC							Celeste Foster/Ste	eve Wright	t	
ONE WELI		:	1.5	gallons	WELL TD:	49.3	ft	PUMP INTAKE DEPTH	n: 45	ft	
	Depth to	Purge		FIELD MEAS	SUREMEN	ITS					
Time	Water (ft)	Rate (gal/min)	Temp. (C)	Conduct. (ms/cm)	рН	Turbidity (ntu)		REMARKS	5		
1430	41.69		. /	, <i>,</i>			static water	r level			
1505	42.10						pump on tu	Irbid water			
1507		5					cleared qui	ckly			
1512	42.13	5	15.76	0.166	5.59	55.3	· ·	,			
1517	42.12	1	15.62	0.173	5.5	45					
1518							pump off, 1	5 gallons purged			
1535							Samples co	ollected:			
							unfiltered L	MW-12U			
							LMW12U	MS			
							LMW12U	MSD			
							field filtered	LMW-12F			
							LMW-12F I	MS			
							LMW-12F I	MSD			
Pump	Туре:	Grundfos	/hand b	ailed for sa	amples						
Analyti	cal Par	ameters:		TAL meta	als						

A	CO	M						WELL NO. MW- 1	4		
WELL	SAMP	LING FOR	RM	PROJECT Liberty In	dustrial I	Finishing ((1-52-108)	project №. 60135736	SHEET 1	OF	sheets 1
LOCATION Brentw	ı vood, Sı	uffolk Cou	inty, NY					DATE WELL STARTED 5/24/2011			
NYSD	EC							Celeste Foster/Ste	ve Wright	. <u> </u>	
ONE WELI		:	9.5	gallons	WELL TD:	100	ft	PUMP INTAKE DEPTH	. 70	ft	
	Depth to	Purge	I	FIELD MEAS	SUREMEN	ITS					
Time	Water (ft)	Rate (gal/min)	Temp. (C)	Conduct. (ms/cm)	рН	Turbidity (ntu)		REMARKS			
1435	41.82						static water	r level			
1455							pump on				
1500	41.97	5	14.87	0.230	5.70	173					
1510	41.99	5	15.69	0.221	5.62	30					
1517	41.98	5	14.02	0.228	5.19	20					
1520							pump off, 3	30 gallons purged			
1610							Samples co	ollected:			
							unfiltered L	.MW-14U			
							field filtered	d LMW-14F			
1612							Blind duplic	cates			
							unfiltered L	.MW-64U			
							field filtered	d LMW-64F			
Pump	Туре:	Grundfos	/hand b	ailed for sa	amples						
Analyti	cal Par	ameters:		TAL meta	als						

A	CO	M						WELL NO. MW-16	5	
WELL	SVWD		ом	PROJECT	ductrial	Einishing ((1-52-108)	PROJECT №.	SHEET S	HEETS
	JANIF			LIDerty III	uusinari		1-52-106)	DATE WELL STARTED	I OF	<u> </u>
Brentw	ood, S	uffolk Cou	inty, NY					5/26/2011		
NYSDI	EC							Celeste Foster/Ste	ve Wright	
ONE WELL			9.3	gallons	WELL TD:	99.2	ft	PUMP INTAKE DEPTH	: 50 ft	
	Depth	Purge	I	FIELD MEAS	SUREMEN	ITS				
Time	Water (ft)	Rate (gal/min)	Temp. (C)	Conduct. (ms/cm)	рН	Turbidity (ntu)		REMARKS	i	
1145	42.29						static water	r level		
1202							pump on			
1204	43.51	2.5					5 gallons p	urged		
1206	43.51	2.5	14.22	0.207	5.50	22.2				
1210	43.51	2.5	13.94	0.229	5.37	0	"			
1215	43.51	2.5	13.94	0.228	5.37	0	pump off, 3	o galions purged		
1220							Samples co			
							field filtered	1000 11 MW-16F		
Pump	Туре:	Grundfos	/hand b	ailed for sa	amples					
Analyti	cal Par	ameters:		TAL meta	als					

A	CO	M						WELL NO. MW- 1	8	
WELL	SAMP		RM	_{РROJECT} Libertv In	dustrial I	Finishina	(1-52-108)	PROJECT №. 60135736	SHEET 1 OF	SHEETS
LOCATION Brentw CLIENT	1 1 1000, Si	uffolk Cou	inty, NY				(DATE WELL STARTED 5/24/2011 NAME OF INSPECTOR		
NYSD	EC							Celeste Foster/Ste	ve Wright	
ONE WELI	VOLUME :	:	17	gallons	WELL TD:	150	ft	PUMP INTAKE DEPTH	. 60 ft	
	Depth to	Purae	l	FIELD MEAS	SUREMEN	ITS				
Time	Water (ft)	Rate (gal/min)	Temp. (C)	Conduct. (ms/cm)	рН	Turbidity (ntu)		REMARKS	1	
917	43.41						static water	r level		
950		1					pump on			
1015	43.65	1	13.79	0.256	5.34	10				
1040	43.65	1	13.73	0.358	5.38	10				
1110	43.65	1	13.49	0.361	5.32	8.0				
1120							pump off, 8	0 gallons purged		
1145							Samples co	ollected:		
							unfiltered L	MW-18U and		
							field filtered	LMW-18F		
Pump	Туре:	Grundfos	/hand b	ailed for sa	amples					
Analyti	cal Par	ameters:		TAL meta	als					

A	CO	M						WELL NO. MW- 1	9		
WELL	SAMP	LING FOR	RM	PROJECT Liberty In	dustrial I	Finishing	(1-52-108)	project №. 60135736	SHEET 1	OF	sheets 1
LOCATION Brentw	ı /ood, Sı	uffolk Cou	inty, NY					date well started 5/24/2011			
CLIENT NYSD	EC							Celeste Foster/Ste	ve Wright		
		:	144	gallons	WELL TD:	265	ft	PUMP INTAKE DEPTH:	60 ·	ft	
	Depth to	Purge	F	IELD MEAS	SUREMEN	ITS					
Time	Water (ft)	Rate (gal/min)	Temp. (C)	Conduct. (ms/cm)	рН	Turbidity (ntu)	-	REMARKS			
915	44.39	(0.00 /	(-)	(static water	r level			
934	45.15	5					pump on				
938							pump off g	enerator turned off			
948	43.65	2					pump on, 2	and generator used.			
1010	45.66	2	13.98	0.192	6.10	10	r - r - ,	- J		,	
1055	45.67	2	12.82	0.243	5.58	8					
1215							generator t	urned off			
1220		5	-				pump back	on			
1350	45.65	5	14.00	0.245	5.61	8					
1400		-				-	pump off. ~	440 gallons purged			
1410							Samples co	ollected:			
							unfiltered L	MW-19U and			
							field filtered	HIMW-19F			
							1				
Pump	Туре:	Grundfos	/hand ba	ailed for sa	amples						
Analyti	cal Par	ameters:		TAL meta	als						

A	CO	M						WELL NO. MW-20)		
WELL	SAMP	LING FOF	RM	PROJECT Liberty In	dustrial I	Finishing ((1-52-108)	ргојест №. 60135736	SHEET 1	OF	sheets 1
LOCATION Brentw CLIENT	ı vood, Sı	uffolk Cou	inty, NY					DATE WELL STARTED 5/26/2011 NAME OF INSPECTOR			
NYSD	EC							Celeste Foster/Ste	ve Wright		
ONE WELI			18	gallons	WELL TD:	150.0	ft	PUMP INTAKE DEPTH:	45	ft	
	Depth to	Purge	I	FIELD MEAS	SUREMEN	ITS					
Time	Water (ft)	Rate (gal/min)	Temp. (C)	Conduct. (ms/cm)	рН	Turbidity (ntu)		REMARKS			
1310	40.95						static water	r level			
1332							pump on				
1335	41.60	2.6					5 gallons p	urged			
1338	41.60	2.6	13.79	0.287	5.66	0					
1344	41.60	2.6	13.30	0.296	5.43	0					
1352	41.60	2.6	12.95	0.299	5.40	0	pump off, 6	60 gallons purged			
1355	41.60	2.6					Samples co	ollected:			
1400							unfiltered L	MW-20U			
							field filtered	LIVIVV-20F			
											-
Pump Analyti	Type: cal Par	Grundfos	/hand b	ailed for sa	amples						
ary ti				.,							

A	CO	M						WELL NO. MW-21			
WELL	SAMP	LING FOR	RM	PROJECT Liberty In	dustrial I	Finishing ((1-52-108)	ргојест №. 60135736	SHEET 1	SHEET OF 1	S
LOCATION Brentw CLIENT	vood, S	uffolk Cou	inty, NY					DATE WELL STARTED 5/26/2011 NAME OF INSPECTOR			
NYSD	EC							Celeste Foster/Ste	ve Wright		
		:	11.3	gallons	WELL TD:	110.0	ft	PUMP INTAKE DEPTH:	50 f	ft	
	Depth to	Purge		FIELD MEAS	SUREMEN	TS					
Time	Water (ft)	Rate (gal/min)	Temp. (C)	Conduct. (ms/cm)	рН	Turbidity (ntu)		REMARKS			
1305	40.92						static water	r level			
1330							pump on				
1334	41.11	2.5	14.49	0.299	5.87	50					
1338	41.11	2.5	13.69	0.293	5.43	10					
1342	41.11	2.5	13.72	0.294	5.42	10					
1344							pump off, 3	35 gallons purged			
1350							Samples co	ollected:			
							unfiltered L	MW-21U			
							field filtered	a livivv-21F			
			-								
Pump	Type:	Grundfos	/hand b	ailed for sa	amples						
, anaryti											

		/ * 1							WELL NO.	MW-2
WFII	SAMP		RM	PROJECT		l Finish	lina		PROJECT No. 60135736	SHEET SHEETS
LOCATION	N N			LIDCITY	luusina		Ing		DATE WELL SAMPLED	
Brentw	<u>vood, N</u>	Y							8/23/2012	
NYSD	EC								Celeste Foster and	d Rita Papagian
				 						(
	ONE WE	LL VOLUME :	6.7	gallons	V	NELL TD:	54.3	ft	PUMP INTAKE DEPTI	н: 50 ft
	Depth to	Purge		FIE	LD MEA:	SUREME	INTS			
Time	Water (ft)	Rate (mL/min)	Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	рН	ORP	Turbidity (ntu)	RE	MARKS
10:20	44.05	<u> </u>					1		Static water level	
10:30									pump on	
10:40	44.00	300	14.61	0.246	14.34	6.04	237	12.6		
10:50	44.00	300	15.01	0.257	14.36	6.08	237	9.9		
11:00	44.00	300	15.03	0.257	14.48	6.07	236	8.8		
11:10	44.00	300	14.94	0.256	14.52	6.06	238	5.2		
11:15	 '	┣────	 '	 	 '	 '	───	───	Unfiltered Sample	LIMVV-2 Collected
11.20	├ ────′	┣────	 '	╂────	├ ───/	 '	╂────	╂────		VIVV-ZF COllected
	'	<u> </u>		<u> </u>	├ ───┦	 '			1/4" (OD) poly and	1/4" (OD) poly
. <u></u>	<u>├</u> ───′	 	}	<u> </u>	├ ───┦	┟────┘	╂────	╂────	bonded tubing put	back into the well.
	├ ───′				├ ──┦		<u> </u>	<u> </u>		
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Pump	Туре:	QED Bla	dder Pu	ımp						
Analyti	ical Par	ameters:	TAL M	etals (Tot	al and F	Field Fi	ltered)			

									WELL NO.	IVIVV-3
WELL	SAMP		RM	ркојест Libertv Ir	ndustria	l Finish	ina		PROJECT No. 60135736	SHEET SHEETS
OCATION Brentw	vood, N	Y							DATE WELL SAMPLED 8/23/2012	
:lient NYSDE	EC								NAME OF INSPECTOR Celeste Foster and	I Rita Papagian
	ONE WE	LL VOLUME :	7.1	gallons	1	WELL TD:	54.8	ft	PUMP INTAKE DEPTH	: 50 ft
	Depth			FIE	LD MEA	SUREME	NTS			
Time	to Water	Purge Rate	Temp.	Conduct.	DO	рН	ORP	Turbidity	REI	MARKS
10.00	(ft)	(mL/min)	(°C)	(µs/cm)	(mg/L)	 '	با	(ntu)	Otation standard	
10:30	44.00	075	↓ /	 	↓ /	↓ ′	il	l	Static water level	
10:40	43.80	210	47.04	0.220	44.02	0.21	400	24.0	pump on	
10:55	43.00	210	17.31	0.320	7.66	0.31	100	34.0	<u> </u>	
11:05	43.00	210	15.70	0.330	7.00	0.20	1/1	125	<u> </u>	
11:15	43.60	275	18.84	0.330	7.84	0.3∠ 0.20	1/1	100	<u> </u>	
11:20	43.00	210	10.70	0.333	7.01	6.30	168	53.Z	<u> </u>	
11:35	43.00	210	10.70	0.334	7.09	0.30	104	41.0	<u> </u>	
11:40	43.00	215	10.19	0.334	1.01	0.29	163	37.10	Filtered Sample I N	MM 2E Collected
11.50	Į		├ ───┦		└─── /	└─── ′	⊢−−−− ┦	 		IVV-3F Collected
11.55	Į		├ ───┦		───	├─── ′	┢────┦	<u> </u>		
── ┤	Į		├ ───┦		───┦	├─── ′	┢────┦	 		1/4" (OD) poly
── ┤	Į		├ ───┦		───┦	├─── ′	┢────┦	 	1/4 (OD) poly and	1/4 (OD) poly
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Pump ⁻	Гуре:	QED Bla	dder Pu	ımp						

									WEEL NO.	
WELL	SAMP		RM	PROJECT Liberty Ir	odustria	l Finish	ina		PROJECT №. 60135736	SHEET SHEE
OCATIO	N			LIDERY	luuotinai	1 11101.	lig		DATE WELL SAMPLED	i Qi .
3rentv	vood, N	Y							8/23/2012	
NYSD	EC								Celeste Foster a	and Rita Papagian
							- A A	<i>(</i> 1		<u> </u>
	ONE WE	LL VOLUME :	0.0	gallons	v	NELL TD:	54.4	ft	PUMP INTAKE DE	.PTH: 5U IT
	Depth			FIE	LD MEAS	SUREME	NTS			
Timo	to Water	Purge Pate	Temn	Conduct		ъH		Turbidity	4	DEMADKS
HING	(ft)	(mL/min)	(°C)	(us/cm)	(mg/L)	μn	UNI	(ntu)		KEWIARRO
11:45	44.36			(r ,					Static water leve	
12:00			[]						pump on	
12:05	44.36	275	19.35	0.145	8.240	6.41	211	81.5		
12:15	44.36	275	18.07	0.120	8.450	6.45	179	60.7		
12:25	44.36	275	18.82	0.125	8.040	6.42	170	44.1		
12:35	44.36	275	18.06	0.137	9.200	6.40	169	48.2		
12:45	44.36	275	17.64	0.144	9.930	6.42	179	41.5		
12:55	44.36	275	18.04	0.150	9.800	6.34	175	45.5		
13:05	44.36	275	18.22	0.172	9.730	6.30	178	44.5		
13:15	44.36	275	18.39	0.178	9.640	6.32	179	38.4	<u> </u>	** · · · · · · · ·
13:25	44.36	275	18.33	0.181	9.770	6.30	184	42.5	Appears to be at	fected by passing train
13:35	44.36	275	18.30	0.182	9.750	6.30	183	35.5		
13:40	 '	├ ────'	└─── ┦	┢────	↓ !	┢────┘	┣────′	┢────	Unfiltered Samp	le LIVIVV-4 Collected
13:45	───′	├ ────┘	├ ───┦		├ ───┦		'	 	Filtered Sample	LIVIVV-4F Collected
	'		!	<u> </u>	├ ──┦	┟──── ┘	'	<u> </u>	1/4" (OD) poly a	nd 1/4" (OD) poly
	├ ───┦	<u> </u>				├ ───┤	'		bonded tubing p	but back into the well.
	├ ───┤	+	├ ──┤		├ ── <i>१</i>	l – – – – – – – – – – – – – – – – – – –				
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חשוים	Tung		ddar Di	mn						
Fump	Type.		JUELLA	шþ						

		771							WELL NO.	MW-5
WELL	SAMP		RM	PROJECT Liberty Ir	ndustria	I Finish	lina		PROJECT No. 60135736	SHEET SHEET
OCATION				L					DATE WELL SAMPLED	
Brentw	/00d, N	<u>Y</u>							8/20/2012 NAME OF INSPECTOR	
NYSD	EC								Celeste Foster a	and Rita Papagian
	ONE WE	ELL VOLUME :	6.5	gallons	,	WELL TD:	58.0	ft	PUMP INTAKE DE	ртн: 53 ft
	Depth	Durgo		FIE	LD MEA	SUREME	INTS			
Time	Water (ft)	Rate (mL/min)	Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	рН	ORP	Turbidity (ntu)	1	REMARKS
9:00	47.97	· · ·							Static water leve)
13:10									pump on	
13:15	46.30	350	16.82	0.369	11.77	5.53	274	0.0		
13:30	46.40	275	14.54	0.263	7.90	5.51	300	0.1		
13:40	45.98	275	14.42	0.259	7.90	5.49	300	0.0		
13:50	45.99	275	14.30	0.254	8.04	5.50	300	0.0		
14:00									Unfiltered Samp	le LMW-5 Collected
									and MS/MSD co	llected
14:05									Duplicate Unfilte	red Sample LMW-55
14:10									Filtered Sample	LMW-5F Collected
14:15									Duplicate Filtere	d Sample LMW-55F
									1/4" (OD) poly a	nd 1/4" (OD) poly
	[<u> </u>		[['		<u> </u>	bonded tubing p	ut back into the well.
						<u> </u>				
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						<u> </u>				
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	<u> </u>	<u> </u>				<u> </u>				
Pump	Tvpe:	QED Bla	dder Pi	ump						
	. 16 -	••	••••	*···I-						
Analyti	cal Par	ameters:	TAL M	letals (Tof	tal and l	Field Fi	ltered)			

		///							WELL NO.	MW-6		
WELL	SAMP		RM	PROJECT Liberty Ir	ndustria	l Finish	ling		PROJECT No. 60135736	SHEET SHEET		
Brenty	i vood, N	Y							DATE WELL SAMPLED 8/20/2012			
	EC								Celeste Foster an	d Rita Papagian		
	ONE WE	ELL VOLUME :	141.7	gallons	١	NELL TD:	265.0	ft	PUMP INTAKE DEPT	тн: 260 ft		
	Depth	Burge		FIE	LD MEA	SUREME	ENTS					
Time	Water (ft)	Rate (mL/min)	Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	рН	ORP	Turbidity (ntu)	y REMARKS			
9:00	47.93								Static water level			
9:05									pump on			
10:00									Switch to higher c	ompressor		
10:30									Raised pressure			
10:45									water at top but not rising.			
									Raised pressure, no water			
									called US Enviornmental, next tir			
									use the helium tar	nk compressor		
12:55									Pump back on, at	highest pressure		
13:15	46.61	150	19.03	0.169	11.84	5.77	125	57.7	pump running at h	ighest capacity		
13:30	46.58	150	18.15	0.138	13.79	5.82	137	2.4				
13:40	45.50	150	17.98	0.132	15.72	5.87	147	0.0				
13:50	45.65	150	17.87	0.130	16.53	5.88	153	0.0				
14:00	45.70	150	17.81	0.129	17.00	5.90	158	0.0				
14.20		'	 '	───	<u> </u> '	┣───	'	 	Linfiltered Sample	LMM/ 6 Collected		
14.20	 '	 '	───	───	───′	┣───	 '	 				
14.20	 '	<u> </u> '	┨────┘	───	<i>'</i>	┝───	 '	 	Filtereu Sampie L	VIVV-OF CUILECIEU		
	 '	<u> </u> '	┨────┘	───	<i>'</i>	┝───	 '	 				
<u> </u>	 '	<u> </u> '	↓ ′	───	<i>'</i>	┝───	<u> </u>	 	1/4 (UD) puly and	1/1/4° (UD) puly		
┢────	 '	<u> </u> '	↓ ′	───	<i>'</i>	┝───	<u> </u>	 	bonded tubing wo	ula not go back into		
 	 '	 '	├ ────'	───	'	├───	<u> </u> '	╂────	Well, discarded			
	 '	 '	├ ────'	<u> </u>	 '	┢────	 '	<u> </u>	1			
	┝───┘	'	'	├───	<i>י</i>	┝───		<u> </u>	1			
	┣───┘	 '	├ ───┦	╂────				<u> </u>	1			
	┣────	<u> </u>	├ ───┦	 	┼ ───┦	i	⁻	<u> </u>	<u> </u>			
	┣────	<u> </u>	├ ───┦	 	┼ ───┦	i	⁻	<u> </u>	<u> </u>			
	┣────	<u> </u>	<u>├</u> /	 	┼ ───┦	i	⁻	<u> </u>	<u> </u>			
	┣────	<u> </u>	<u>├</u> /	 	┼ ───┦	i	⁻	<u> </u>	<u> </u>			
l	'	 '	├ ───┦		+	 		<u> </u>	<u>+</u>			
l		<u> </u>	├ ───!		+			<u> </u>	<u>+</u>			
	<u> </u>	<u> </u>	├ ───┤		+	<u> </u>		<u> </u>	+			
	<u> </u>	<u> </u>	├ ───┤		+	<u> </u>		<u> </u>	+			
	<u> </u>	<u> </u>	├ ───┤		+	<u> </u>		<u> </u>	+			
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>				
Pump	Type:	QED Bla	dder Pu	ump, Higł	n pressu	ure corr	noresso	r				
			-		•		ľ					
Analyti	ical Par	ameters:	TAL M	etals (To	tal and I	Field Fi	ltered)					

	evwd		лM	PROJECT	ductria	- Einich	ina		PROJECT No.	SHEET SHEE	
				Liberty in	dustria	FILISII	ing		DATE WELL SAMPLED	I OF I	
3rentv	vood, N	Y							8/23/2012		
	FC								Celeste Foster at	nd Rita Panagian	
1100	<u>LU</u>									IU Mila i apagian	
	ONE WE	ELL VOLUME :	4.4	gallons	v	NELL TD:	50.0	ft	PUMP INTAKE DEP	тн: 46 ft	
_	Depth	Purge		FIE	LD MEAS	SUREME	NTS	_			
Time	Water	Rate	Temp.	Conduct.	DO	nH	ORP	Turbidity	ty REMARKS		
	(ft)	(mL/min)	(°C)	(µs/cm)	(mg/L)			(ntu)			
7:40	43.20					('			Static water level	 	
7:50				[]					pump on		
8:00	43.20	250	14.72	0.209	11.25	6.27	215	15.3	<u> </u>		
8:10	43.20	250	14.78	0.210	11.34	6.26	225	0.0			
8:20	43.20	250	14.85	0.219	11.39	6.28	234	0.0			
8:30	43.20	250	14.86	0.226	11.27	6.29	242	0.0			
8:40	43.20	250	14.83	0.232	11.22	6.30	247	0.0			
8:50	43.20	250	14.83	0.233	11.10	6.30	247	0.0			
9:00	43.20	250	14.90	0.236	11.06	6.30	251	0.0			
						\Box '					
9:05	<u> </u>	[!				<u> </u>	<u> </u>		Unfiltered Sample	e LMW-10 Collected	
9:10	<u> </u>	['				<u> </u>	<u> </u>		Filtered Sample I	_MW-10F Collected	
	!	<u> </u>				<u> </u>	<u> </u>				
	<u> </u>	<u> </u>		ļ'		<u> </u>	<u> </u>		1/4" (OD) poly and 1/4" (OD) poly		
	<u> </u>	<u> </u>		ļ'	\square	 '	 '		bonded tubing put back into the well.		
	<u> </u> '	 '		 '	\square	 '	└── ′				
	 '	↓ '		 '	↓ !	└─── '	└── ′		<u> </u>		
	<u> </u> '	↓ '	└── ┤	 '	↓	└───'	 '		<u> </u>		
	<u> </u> '	<u> </u> '	└─── ┦	 '	↓	└─── '	 '		_		
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	<u> </u>	 '	↓	 '	↓	└─── '	 '		_		
	<u> </u>	 '	↓	 '	↓	└─── '	 '		_		
	<u> </u> '	<u> </u> '	 	 '	↓	 '	 '		_		
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	 '	 '	├ ───┦	 '	 	⊢−−−− ′	┟────′		<u> </u>		
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	 ′	 '	┟───┦	 '	├ ───┦	┟────┘	┢────┘		+		
	 '	 '	┢───┦	 '	┟───┦	├ ────┘	┢────┘		+		
	<i>'</i>	<u> </u>	┟───┦	 '	╂───┦	┟────┘	┢────┘		+		
		 '	┟───┦	i'	┣───┦	├ ─────	┢────┘		+		
				I		<u>نـــــــــا</u>	J		<u> </u>		
Jumn	Tune		ddor Pi	mn							
ump	Type.			шр							

		/ / 1							WELL NO.	MW-12
	2440			PROJECT	1	· Et alla la	• • • •		PROJECT No.	SHEET SHEET
	SAMP		RM	Liberty in	idustria	I Finisn	ing		60135736	1 OF 1
Brentw	iood, N	Y							8/21/2012	
NYSD'	EC								Celeste Foster a	and Rita Papagian
	ONE WE	ELL VOLUME :	1.07	gallons	,	WELL TD:	49.3	ft	PUMP INTAKE DE	:ртн: 45 ft
	Depth		<u> </u>	FIE	LD MEA	SUREME	INTS			
	to	Purge	L							
Time	Water (ft)	Rate	Temp.	Conduct.	DO (mg/L)	рН	ORP	Turbidity		REMARKS
13.15	42 75	(1112/1111)		(µs/ciii)	(iiig/L)		'	(iiiu)	Static water leve	اد
13.30	42.76	<u> </u>	}	i	╂────	}	┠────		numn on	71
13:40	42.75	175	21.59	0.200	4,91	5,81	129	326.0	vellow/brown co	lor
13:50	42.80	175	21.09	0.200	4.00	5.83	132	16.0	clear	
14:00	42.80	175	20.03	0.212	4.20	5.82	140	0.0	clear	
14.10	42.80	175	19.67	0.213	4.75	5.86	150	78.0	clear	
14.20	42.80	175	19.49	0.261	4.99	5.83	162	72.0	ologi	
14.30	42.80	175	18,94	0.270	5.04	5.85	172	44.3	clear	
14:40	42.80	175	18.60	0.273	5.51	5.83	176	35.4		
14:50	42.80	175	18.64	0.275	5.56	5.84	179	27.9		
	1		-	-	-	-		1		
14:55									Unfiltered Samp	le LMW-12 Collected
15:00									Filtered Sample	LMW-12F Collected
			i		1	1			+ MS/MSD on F	iltered Sample
									1/4" (OD) poly a	nd 1/4" (OD) poly
1				[1				bonded tubing p	ut back into the well.
1				[1					
1				ſ	1					
				[
	<u> </u>			<u> </u>						
	<u> </u>						<u> </u>			
				<u> </u>						
-	-									
Pump	Type:	QED BIa	dder Pu	ımp						
Analvti	ical Par	ameters:	TAL M	etals (Tot	al and	Field Fi	ltered)			

Image: Application of the second state of t	SAMP ood, N EC ONE WE Depth to Water (ft) 42.86 43.20	LING FOI Y LL VOLUME : Purge Rate	RM 9.25	PROJECT Liberty In gallons	ndustria	l Finishi	ing		PROJECT No. 60135736 Date well sampled 8/21/2012	SHEET SHEE 1 of 1						
Fill Fill 7 7 YSDE 7 YSDE 7 7	OOD NE WE ONE WE Depth to Water (ft) 42.86 43.20	Y LL VOLUME : Purge Rate	RM 9.25	gallons			ing		60135736 DATE WELL SAMPLED 8/21/2012	1 OF 1						
rentwc IENT YSDE 7:00 4 3:25 4 3:50 4 4:00 4 4:00 4 4:20 4 4:20 4	ONE WE ONE WE Depth to Water (ft) 42.86 43.20	Y LL VOLUME : Purge Rate	9.25	gallons					8/21/2012							
Fime 3:25 4 3:40 4 3:50 4 4:00 4 4:20 4 4:20 4	Depth to Water (ft) 42.86 43.20	LL VOLUME : Purge Rate	9.25	gallons												
Fime 3:00 4 3:25 4 3:40 4 3:50 4 4:00 4 4:00 4 4:20 4 4:20 4	ONE WE Depth to Water (ft) 42.86 43.20	LL VOLUME : Purge Rate	9.25	gallons					NAME OF INSPECTOR	nd Rita Papagian						
Fime 2:00 4 3:25 4 3:50 4 4:00 4 4:00 4 4:10 4 4:20 4 4:30 4	ONE WE Depth to Water (ft) 42.86 43.20	LL VOLUME : Purge Rate	9.25	gallons	١					ind Kild i upugidin						
Fime 3:00 4 3:25 4 3:40 4 3:50 4 4:00 4 4:00 4 4:20 4 4:20 4	Depth to Water (ft) 42.86 43.20	Purge Rate		CIC	-	NELL TD:	99.6	ft	PUMP INTAKE DE	ртн: 95 ft						
Fime 3:25 3:40 3:50 4:00 4:00 4:00 4:20 4:30	to Water (ft) 42.86 43.20	Purge Rate		LIE	LD MEAS	SUREME	NTS									
3:00 3:25 3:40 3:50 4:00 4:10 4:20 4:30	(ft) 42.86 43.20	(mal (main)	Tomn	Conduct	DO	nH	ORP	Turbidity		REMARKS						
3:25 4 3:40 4 3:50 4 4:00 4 4:10 4 4:20 4	42.86 43.20	(mL/min)	(°C)	(us/cm)	(mg/L)	рп	UKF	(ntu)								
3:25 3:40 3:50 4:00 4:10 4:20 4:20	43.20	(,,	(0)	(µ0/011)	(()	Static water leve							
3:40 3:50 4:00 4:10 4:20 4:20			28.88	0.182	10.84	6.09	200	57.0	pump on	•						
3:50 4:00 4:10 4:20 4:20	43.70	100	23.78	0.202	8.78	5.66	153	53.0	panip an							
4:00 4:10 4:20 4:30	43.80	100	22.41	0.183	7.86	5.59	144	805.0	Brown color							
4:10 4:20 4:30	43.80	250	17.03	0.176	8.14	5.58	132	696.0								
4:20 4:30 4	43.80	250	16.65	0.174	8.38	5.54	128	545.0								
4:30	43 80	250	16.35	0 174	7.97	5.54	121	516.0								
	43 80	250	16.37	0 175	7 65	5.54	126	468.0								
4:40	43.80	250	16.30	0.176	7.65	5.50	128	75.0	clear							
4:50	43.80	250	16.27	0.178	7.68	5.50	131	53.7	0.000							
5:00	43.80	250	16.19	0.176	7.67	5.49	130	52.9								
5.10	43 80	250	16.00	0 176	7 69	5 45	135	43.2								
	10.00	200	10.00	0.110	1.00	0.10	100	10.2								
5:20									Unfiltered Samp	le I MW-14 Collected						
5:20									Filtered Sample	I MW-14F Collected						
0.20																
									1/4" (OD) poly a	nd 1/4" (OD) poly						
									bonded tubing p	ut back into the well						
									bended tabing p							
-+																
-+																
I			1	L	L	L		L	1							
umn T	Evne:	QED Bla	dder Pu	imn												
and I	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,															

						WELL NO.	10100-10			
VFU	SAMP		RM	PROJECT Liberty Ir	dustria	l Finish	ina		PROJECT №. 60135736	SHEET SHEET
OCATIO	1			LIDCITY	luustiiu		ng		DATE WELL SAMPLED	
<u>3rentv</u>	<u>/ood, N</u> `	Y							8/23/2012	
VYSD	EC								Celeste Foster a	and Rita Papagian
								·.		05.0
	ONE WE	LL VOLUME :	9.62	gallons	v	NELL TD:	99.2	ft	PUMP INTAKE DEI	ртн: 95 ft
	Depth			FIE	LD MEAS	SUREME	INTS			
Timo	to Water	Purge Pate	Tomp	Conduct		54		Turbidity	4,	DEMADKG
line	(ft)	(mL/min)	(°C)	(us/cm)	(mg/L)	рп	UNF	(ntu)	'	XEMARNO
7:35	40.20	· · · ·		<u> </u>				`, <i>`</i>	Static water leve	į
7:50	39.10	[]		l		[]		「	pump on	
8:00	39.10	225	16.93	0.196	9.12	5.22	288	142.0		
8:10	39.10	225	15.84	0.204	8.83	5.31	292	59.0		
8:20	39.10	225	14.06	0.205	8.96	5.28	305	30.2		
8:30	39.10	225	13.97	0.204	12.03	5.28	309	30.0		
8:40	39.10	225	13.93	0.206	11.02	5.22	313	21.7		
8:50	39.10	225	13.98	0.202	10.54	5.21	313	26.4		
9:00	39.10	225	13.90	0.202	10.59	5.22	319	24.2	Ļ	
9:10	39.10	225	13.95	0.201	10.53	5.20	313	0.0		
0.15	 '	<u> </u> !	↓ ′		ا ــــــــــا	 '	 '	 	Filtered Comple	
9:15	 '		└─── ┦	 	↓ /	└──── ′	 '	┣────	Filtered Sample	LMW-16F Collected
9.20	 /	<u> </u>	├ ───┦	i	∤ ────┦	┟────┘	 '	ł		le Livivy- to Collected
	┟────┦		├ ───┦	i	┨────┦	┟──── ′	 '	<u> </u>	1/4" (OD) poly at	nd 1/4" (OD) poly
	├ ───┦			i	├ ───┦	┟────┦	'		1/4" (OD) poly and 1/4" (OD) poly	
	├ ───┦	¦!		l		├ ───┤				
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	└───′	<u> </u> '	↓ /	ļ	ļ/	 '	 '	 		
	└───┘	<u> </u> '	└─── ┘	 	ļ/	 '	 '	 		
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ממוור	Turnet		ddar Di							
ump	Type.			imp						

PROJECT Liberty Industrial Finishing PROJECT 60135736 SHE 60135736 Depth VSDEC SVELL SAMPLED 8/21/2012 NAME OF INSPECTOR Celeste Foster and Ritz ONE WELL VOLUME: 16.97 gallons well trb: 148.6 ft PUMP INTAKE DEPTH: ONE WELL VOLUME: 16.97 gallons well trb: 148.6 ft PUMP INTAKE DEPTH: Time Peth (tt) Purge (mL/min) Conduct. (tt) DO (us/cm) PH ORP Turbidity (ntu) REMARK 10:00 44.47 Image: Conduct. (ml/min) Conduct. (mg/L) DO PH ORP Turbidity (ntu) REMARK 10:30 Image: Conduct. (ml/min) Conduct. (mg/L) Conduct. (mg/L) DO pH ORP Turbidity (ntu) REMARK 11:58 Image: Conduct. (ml/min) Conduct. (mg/L) DO PH ORP Turbidity (ntu) Static water level 11:55 Image: Conduct. (tt) Conduct. (mg/L) Conduct. (mg/L) Conduct. (mg/L) Conduct. (mg/L) Conduct. (ntu) Conduct. (ntu) 11:50 Image: Conduct. (tt)	EF SH 1 oF 1 ≩ Papagian
Depth Purge FIELD MEASUREMENTS Celeste Foster and Ritz ONE WELL VOLUME : 16.97 gallons well to: 148.6 ft Pump INTAKE DEPTH: Depth Purge Temp. Conduct. DO PH ORP Turbidity REMARK 10:00 44.47	<u>a</u> Papagian
B/21/2012 NAME OF INSPECTOR Celeste Foster and Rita NAME OF INSPECTOR Celeste Foster and Rita ONE WELL VOLUME : 16.97 gallons WELL TD: 148.6 ft PUMP INTAKE DEPTH: Time to Water (ft) FIELD MEASUREMENTS REMARK (mu/min) Conduct. (ps/cm) DO PH ORP Turbidity (ntu) REMARK REMARK 10:00 44.47 Static water level 10:30	a Papagian
Depth to (ft) Purge Rate (ft) FIELD MEASUREMENTS Pump INTAKE DEPTH: 10:00 44.47 Image: Field Measurements (ft) Purge (ft) FIELD MEASUREMENTS REMARK (ntu) 10:00 44.47 Image: Field Measurements (ft) Static water level 10:30 Image: Field Measurements (ft) Image: Field Measurements (ft) Static water level 10:38 Image: Field Measurements (ft) Image: Field Measurements (ft) Image: Field Measurements (ft) Static water level 10:30 Image: Field Measurements (ft) Image: Field Measurements (ft) Image: Field Measurements (ft) Static water level 10:30 Image: Field Measurements (ft) Image: Field Measurements (ft) Image: Field Measurements (ft) Image: Field Measurements (ft) 10:58 Image: Field Measurements (ft) 11:05 Image: Field Measurements (ft) Image: Field Measurements (ft) Image: Field Measurements (ft) Image: Field Measurements (ft) 11:45 44.43 200 21.43 0.284 7.06 5.72	a Papagian
ONE WELL VOLUME: 16.97 gallons WELL TD: 148.6 ft PUMP INTAKE DEPTH: Time Purge Rate (ft) FIELD MEASUREMENTS Turbidity (ntu) REMARK 10:00 44.47 Static water level 10:30 pump on, no water, refit 10:30 back on, water pumping 10:58 back on, water pumping 11:05 44.43 200 21.79 0.295 10.93 5.82 234 0.0 11:15 44.43 200 21.41 0.285 7.03 5.63 250 0.0 11:25 44.43 200 21.41 0.285 7.03 5.72 247 0.0 11:50 11:55 11:55 <	
Depth to Purge Rate (t) FIELD MEASUREMENTS Pump INTAKE DEPTH: 10:00 44.47 Field Measurements Static water level REMARK 10:30 Purge Rate (t) Conduct. (us/cm) DO pH ORP Turbidity (ntu) REMARK 10:30 Purge Rate 200 PURPINTAKE DEPTH: Static water level pump on, no water, refit 10:58 Purge	
Depth to Purge Rate (ft) Temp. (ft) Conduct. (µs/cm) DO (µg/L) pH ORP Turbidity (ntu) REMARK 10:00 44.47 Static water level Purge pump on, no water, refit 10:30 Purge pump on, no water, refit 10:30 pump on, no water, refit 10:58 back on, water pumping 11:05 44.43 200 21.79 0.295 10.93 5.82 234 0.0 11:15 44.43 200 21.41 0.285 7.03 5.72 247 0.0 11:35 44.43 200 21.41 0.284 7.06 5.72 248 0.0 11:45 44.43 200 21.43 0.284 7.06 5.72 248 0.0	144 ft
to Purge (t) Temp. (mL/min) Conduct. (μ /min) DO (μ /min) pH ORP Turbidity (ntu) REMARK 10:00 44.47 Static water level 10:30 Static water level 10:38 pump on, no water, refit 10:58 stronger compressor 11:05 44.43 200 21.79 0.295 10.93 5.82 234 0.0 11:15 44.43 200 21.04 0.288 6.64 5.70 249 0.0 11:25 44.43 200 21.41 0.285 7.03 5.72 247 0.0 11:45 44.43 200 21.43 0.284 7.06 5.72 248 0.0	
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Image: stronger compressor stronger compressor 11:05 44.43 200 21.79 0.295 10.93 5.82 234 0.0 11:15 44.43 200 20.43 0.304 7.03 5.63 250 0.0 11:25 44.43 200 21.04 0.288 6.64 5.70 249 0.0 11:35 44.43 200 21.41 0.285 7.03 5.72 247 0.0 11:35 44.43 200 21.43 0.284 7.06 5.72 248 0.0 11:45 44.43 200 21.43 0.284 7.06 5.72 248 0.0 11:50 Image: stronger compressor Image: stronger compressor Image: stronger compressor Image: stronger compressor 11:50 Image: stronger compressor Image: stronger compressor Image: stronger compressor Image: stronger compressor 11:55 Image: stronger compressor Image: stronger compressor Image: stronger compressor Image: stronger compres	g, compressor
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11:45 44.43 200 21.43 0.284 7.06 5.72 248 0.0 11:50 Image: Constraint of the state of the s	
11:50 Unfiltered Sample LMW 11:55 Filtered Sample LMW-1 11:55 1/4" (OD) poly and 1/4" 11:55 1 11:55 1 11:55 1/4" (OD) poly and 1/4" 11:55 1 11:55 1 11:55 1 11:55 1 11:55 1 11:55 1 11:55 1 11:55 1 11:55 1 11:55 1 11:55 1 11:55 1 11:55 1 11:55 1 11:55 1 11:55 1 11:55 1 <tr< td=""><td></td></tr<>	
11:50 Unfiltered Sample LMW 11:55 Filtered Sample LMW-1 11:55 1/4" (OD) poly and 1/4" 1/4" (OD) poly and 1/4" bonded tubing would not well, discarded 1 1 1 1	
11:55 Filtered Sample LMW-1 Image: State of the sta	/-18 Collected
Image: Constraint of the second se	8F Collected
Image: Second	
Image: Second	(OD) poly
Well, discarded	ot go back into
Pump Type: QED Bladder Pump	
Analytical Parameters: TAL Metals (Total and Field Filtered)	

A									WELL NO.	MW-19	
WELL	SAMP	LING FO	RM	PROJECT Liberty Ir	ndustria	l Finish	ing		project №. 60135736	SHEET SHEETS	
LOCATION Brentw	i /ood, N	Y		y			0		date well sampled 8/21/2012		
	EC								Celeste Foster ar	nd Rita Papagian	
	ONE WE	ELL VOLUME :	143.3	gallons	١	WELL TD:	265.0	ft	PUMP INTAKE DEP	тн: 260 ft	
	Depth	Purgo		FIE	LD MEAS	SUREME	NTS				
Time	Water (ft)	Rate (mL/min)	Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	рН	ORP	Turbidity (ntu)	REMARKS		
9:45	45.51							1	Static water level		
10:05									pump on, no wate	er, pulled pump,	
									checked air hose	s, problem with air line	
									pulled line, refit p	ump, compressor	
									running at capaci	ity, next time use	
									helium compress	or.	
10:50									water!		
11:15	45.50	250	23.33	0.347	17.12	6.90	278	62.7			
11:25	45.50	250	25.66	0.340	17.15	6.89	275	48.0			
11:35	45.50	250	24.40	0.188	15.02	5.88	266	83.9			
11:45	45.50	250	25.50	0.181	14.93	5.82	263	50.0			
11:55	45.50	250	23.99	0.176	15.12	5.81	260	30.0			
12:00				L					Unfiltered Sample	e LMW-19 Collected	
12:05				L					Filtered Sample LMW-19F Collected		
									1/4" (OD) poly an	id 1/4" (OD) poly	
									bonded tubing wo	ould not go back into	
									well, discarded		
				L							
				 							
				 							
				 							
				 							
				 							
				 							
				 							
Pump	Type:	QED Bla	dder Pu	ımp, High	ı pressu	ire com	presso	r			
المحاب		om otorer		atala (T-1	المحمام		ltore -l'				
Analyti	cai raf	ameters:		ciais (101	.ai anu i	ieiu Fl	nereu)				

		///							WELL NO.	MW-20
	SAMP		DM	PROJECT	oduetria	I Finish	ina		PROJECT No.	SHEET SHE
	37.01			LIDEITY	luusina		Iliy		DATE WELL SAMPLED	
<u>3rentw</u>	ood, N	Y							8/21/2012	
IEN I VYSDI	EC								Celeste Foster and	l Rita Papagian
								•.		
	ONE WE	LL VOLUME :	17.12	gallons	١	NELL TD:	147.0	ft	PUMP INTAKE DEPTH	⊮ 142 ft
	Depth	Duran		FIE	LD MEA	SUREME	INTS			
Time	Water	Rate	Temp.	Conduct.	DO	рΗ	ORP	Turbidity	RE	MARKS
	(ft)	(mL/min)	(℃)	(µs/cm)	(mg/L)	P	.	(ntu)		
16:15	41.99	400		, N ,					Static water level	
6:30	41.87	275	16.30	0.292	14.20	5.90	213	234.0	pump on	
6:40	41.80	275	16.34	0.292	14.01	5.91	219	219.0	· · ·	
6:50	41.80	275	15.29	0.281	12.07	5.78	253	131.0		
17:00	41.80	275	14.97	0.279	9.97	5.78	260	52.1		
17:10	41.80	275	15.10	0.277	9.90	5.72	267	9.3		
17:20	41.80	275	15.00	0.277	9.93	5.75	269	5.3		
17:25	ا <u> </u>								Unfiltered Sample	LMW-20 Collected
7:30	 								Filtered Sample LN	/W-20F Collected
	'	<u> </u>	<u> </u>							
									1/4" (OD) poly and	1/4" (OD) poly
	·'	<u> </u>							bonded tubing put	back into the well.
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	l!		<u> </u>			!	<u> </u>			
Pump ⁻	Туре:	QED Bla	dder Pı	ımp, High	ı pressı	ire com	presso	r		
Analyti	cal Par	ameters:	TAL M	etals (Tot	tal and l	Field Fi	ltered)			

A									WELL NO.	MW-21
WELL	SAMP	LING FO	RM	_{РROJECT} Libertv Ir	dustria	Finish	ina		PROJECT №. 60135736	SHEET SHEETS
LOCATION Brentw	vood, N	Y							DATE WELL SAMPLED 8/21/2012	
CLIENT NYSD	EC								NAME OF INSPECTOR Celeste Foster and	Rita Papagian
			11 10	gallons	1		110.6	ft		106 ft
			11.15	gailons				n	FOMP INTAKE DEFTH.	100 11
	Depth to	Purge		FIE	LD MEA	SUREME	INIS			
Time	Water (ft)	Rate (mL/min)	Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	рН	ORP	Turbidity (ntu)	REMARKS	
16:30	41.95	· · · ·			,				Static water level	
16:37									pump on	
16:45	41.95	225	16.68	0.280	14.41	5.61	252	230.0		
16:55	41.95	225	15.97	0.263	11.11	5.48	254	115.0		
17:05	41.95	225	15.94	0.264	10.75	5.45	257	70.7		
17:15	41.95	225	15.97	0.265	10.40	5.42	258	38.3		
17.20									Linfiltorod Sompla I	MW 21 Collected
17.20									Filtered Sample I M	W-21E Collected
17.20										
									1/4" (OD) poly and	1/4" (OD) poly
									bonded tubing put k	back into the well.
Pump	Type:	QED Bla	dder Pu	imp						
Analyti	ical Par	ameters:	I AL M	etals (Tot	al and I	-ield Fi	itered)			

WELL	SAMP		RM	PROJECT I ibertv Ir	ndustria	l Finish	ina		PROJECT №. 60135736	SHEET SHEETS
ocation Brentv	vood, N	Y		Lio 011j		1			DATE WELL SAMPLED 11/6/2013	
CLIENT NYSD	EC								NAME OF INSPECTOR Steve Wright and I	Rita Papagian
_	ONE WE	LL VOLUME :	7.2	gallons	- \	NELL TD:	54.2	ft	PUMP INTAKE DEPTH	₁: 52 ft
	Depth	Purde		FIE	LD MEAS	SUREME	INTS		<u> </u>	
Time	Water (ft)	Rate (mL/min)	Temp. (°C)	Conduct. (us/cm)	DO (ma/L)	рН	ORP	Turbidity (ntu)	RE	MARKS
7:45	43.21	(,,	(-)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(5,	l		()	Static water level	
7:50	43.21	250	12.56	0.288	12.88	6.55	181	64.3	pump on	
8:00	43.22	250	11.14	0.273	25.72	6.46	222	39.5		
8:10	43.22	250	12.26	0.270	10.93	6.48	226	19.9	1	
8:20	43.22	250	13.15	0.270	8.42	6.46	237	13.8	1	
8:40	43.22	250	13.20	0.270	8.01	6.45	241	11.1	1	
8:45						l – – – – – – – – – – – – – – – – – – –			Unfiltered Sample	LMW-2 Collected
8:50						[]			Filtered Sample LN	MW-2F Collected
									1/4" (OD) poly and	1/4" (OD) poly
									bonded tubing put	back into the well.
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Pump	Type:	QED Bla	dder Pu	ımp						

		//1							WELL NO.	MW-3					
WELL	SAMP		RM	PROJECT I iherty Ir	ndustria	- I Finish	ina		PROJECT №. 60135736	SHEET SHEETS					
LOCATION Brentv	vood, N	Y	(17)				<u></u>		DATE WELL SAMPLED 11/4/2013						
^{CLIENT} NYSD	EC								NAME OF INSPECTOR Steve Wright and	d Rita Papagian					
	ONE WE	ELL VOLUME :	5.7	gallons	,	WELL TD:	54.0	ft	PUMP INTAKE DEF	этн: 50 ft					
	Depth	Purge		FIE	LD MEA	SUREME	ENTS								
Time	Water (ft)	Rate (mL/min)	Temp. (°C)	Conduct.	DO (mg/L)	рН	ORP	Turbidity (ntu)	- - -	REMARKS					
10:20	45.21	,	(-,	(p.c.c,	(···· <u>ə</u> . —,	<u> </u>	<u> </u>	(,	Static water leve						
10:40	44.92	250	13.21	0.376	22.05	6.45	206	49.9	pump on						
10:50	44.92	250	13.26	0.377	9.85	6.48	209	39.6	†						
11:00	44.92	250	13.18	0.376	8.99	6.49	210	33.4	1						
11:10	44.92	250	13.22	0.369	10.00	6.50	217	31.7							
								T							
									<u> </u>						
11:20									Filtered Sample	LMW-3F Collected					
11:25	<u> </u>	<u> </u>				<u> </u>			Unfiltered Sampl	e LMW-3 Collected					
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	 '	Ļ		Ļ	 '	Ļ		Ļ	1/4" (OD) poly and 1/4" (OD) poly bonded tubing put back into the well.						
	 '	 			 '		──		bonded tubing put back into the well.						
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Pump	Type:	QED Bla	dder Pu	ump			:14 o r o d)								
Anaiyu	Cal Par	ameters.			ai anu i		ilerea)								
WELL	SAMP		RM	PROJECT Liberty Ir	ndustria	l Finish	ina		PROJECT №. 60135736	SHEET SHEE					
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OCATION				LIDCITY III			ing		DATE WELL SAMPLED						
<u>3rentw</u>	/ood, N`	Y							11/4/2013						
NYSDI	EC								Stephen Wright a	nd Rita Papagian					
	ONE WE	LL VOLUME :	5.1	gallons	v	NELL TD:	54.4	ft	PUMP INTAKE DEPT	гн: 50 ft					
	Depth			FIE	LD MEAS	SUREME	NTS								
Time	to Watar	Purge	Tama	Conduct		mLl	OBB	Turbidity							
Time	(ft)	Rate (mL/min)	(°C)	(us/cm)	(ma/L)	рн	ORP	(ntu)	R	EMARNS					
10:20	46.6	(,	(-)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(l		()	Static water level						
10:30	46.6	250	11.99	0.115	8.180	5.65	194	17.7	pump on						
10:35	46.61	250	13.75	0.144	2.440	6.14	181	11.6	<u> </u>						
10:40	46.62	250	13.70	0.155	2.470	6.20	275	10.7							
10:50	46.64	250	13.69	0.182	2.810	6.29	169	10.6	<u> </u>						
11:00	46.66	250	13.68	0.211	6.630	6.21	162	11.7							
11:10	46.69	250	13.73	0.221	5.540	6.30	158	12.2							
11:20	46.71	250	13.68	0.231	6.110	6.33	162	9.7							
		['				\Box									
11:25						\Box '			Unfiltered Sample	LMW-4 Collected					
11:30		<u> </u>				<u> </u>			Filtered Sample L	MW-4F Collected					
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	├ ───┦		┟───┦		──	┢────┘	 '	 	<u> </u>						
I	├ ───┦	<u>├</u> ′	├ ───┦	 '	──┦	┟────┘	 '	 	ł						
I	┟ ────┦	¦'	┨────┦	¦'	┟───┦	┟────┘	 '	 	+						
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	 	'	┨────┦	'	───┦	┟──── ′	<u> </u> '	<u> </u>	1						
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	┟───┦	'	├ ───┦	i'	├ ──- <i> </i>	┟──── ┦	i'	<u> </u>	1						
	·	·	·	<u> </u>	L	·	L	L							
Pump	Tvpe:	QED Bla	dder Pu	ımn											
unp	1,120.		uuo	111P											

									WELL NO.	MW-5
WELL	SAMD		RM	PROJECT	dustria	l Finish	ina		PROJECT №. 60135736	SHEET SHEET
	1 SAME			LIDEITY	luusinai		IIIg		DATE WELL SAMPLED	
Brentw	/ood, N	Y							11/5/2013	
	EC								Stephen Wright	and Rita Papagian
				- 11			50.0			FO 4
	ONE WE	LL VOLUME :	7.1	gallons	v	NELL TD:	58.0	ft	PUMP INTAKE DE	ртн: 56 II
	Depth	_		FIE	LD MEAS	SUREME	INTS			
Time	t0 Water	Purge	Temn	Conduct		nH		Turbidity	, ł	DEMARKS
Inne	(ft)	(mL/min)	(°C)	(us/cm)	(mg/L)	hu	UNI	(ntu)	.	KEWARNO
7:15	47.19	250						, <i>, ,</i>	Static water leve)
7:20	47.19	250	8.37	0.252	13.90	6.11	-7	59.3	pump on	
7:30	47.19	250	11.12	0.236	15.15	6.26	-71	53.9		
7:40	47.19	250	11.77	0.229	13.83	6.25	-81	45.6		
7:50	47.19	250	11.96	0.222	15.10	6.22	-80	34.2		
8:00	47.19	250	12.01	0.215	14.66	6.19	-76	19.8		
8:10	47.19	250	12.12	0.209	13.88	6.18	-72	15.5		
8:20	47.19	250	12.25	0.205	13.01	6.13	-68	15.3		
8:25			<u> </u>		<u> </u>	 '	\square		Unfiltered Samp	le LMW-5 Collected
8:30	ا ــــــ ا		ļ'	 	ļ/	 '		 	Filtered Sample	LMW-5F Collected
			<u> '</u>	 	ļ/	 '				
	 		ļ'	 	ļ/	 '				
	 		└─── ′	 	ļ/	 '			1/4" (OD) poly and $1/4$ " (OD) poly	
	 		───′	┣────	───/	 '		 	1/4" (OD) poly and 1/4" (OD) poly	
			└─── ′	 	├ ───┦	 '	──		bonded tubing p	ut back into the well.
	 		┟────┦	┟────	∤ ───┦	 '	╂────			
	 		┟────┦	 	┨────┦	 '	├───			
	 		┣───┦	<u> </u>	┟───┦	 '	├───			
			├ ───┦	i	├ ───┦	'	├───			
			├ ───┦	i	╂───┦	'	├───		1	
			├ ───┦			'			<u> </u>	
			├── ┦		├ ──┦	'	<u> </u>			
			├ ─── <i>१</i>		├ ── /	'	1			
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				<u> </u>						
_	_	_	_							
oump	Туре:	QED Bla	dder Pu	ımp						
۱nalyti	cal Par	ameters:	TAL M	etals (Tot	al and F	Field Fi	Itered)			

		//1							WELL NO.	MW-6	
WELL	SAMP		RM	PROJECT Liberty Ir	ndustria	l Finish	ina		project №. 60135736	SHEET SHEET	
ocation Brentw	vood, N	Y		<u></u>					date well sampled 11/5/2013		
ilient NYSDI	EC								NAME OF INSPECTOR Celeste Foster and	Rita Papagian	
	ONE WE	LL VOLUME :	143.0	gallons	,	WELL TD:	265.0	ft	PUMP INTAKE DEPTH:	260 ft	
l	Depth	Burgo		FIE	LD MEA	SUREME	INTS				
Time	Water (ft)	Rate	Temp. (°C)	Conduct.	DO (mg/L)	рН	ORP	Turbidity (ntu)	REM	IARKS	
7:55	46.02	(,		(µ3/011)	(<u> </u>			Static water level		
8:05	45.95			[]	┝───┦			<u> </u>	nump on		
8:15	45.95	750	12,71	0.200	17.07	6.06	219	14.9	pump c		
8:25	45.95	750	12.71	0.128	16.29	6.08	220	14.3			
8:35	45.95	750	12.76	0.127	7.05	6.07	217	9.6			
8:45	45.95	750	12.60	0.126	7.13	6.09	220	7.2			
8:55	45.95	750	12.69	0.121	8.16	5.93	211	9.0			
9:05	45.95	750	12.67	0.130	7.93	6.04	215	11.3			
9:10	I	1							Unfiltered Sample L	MW-6 Collected	
9:15	I				!				Filtered Sample LM	W-6F Collected	
	[]	1		ſ'			1		· · ·		
	[]			ſ'			1		1/4" (OD) poly and 2	1/4" (OD) poly	
1	[]	1		ſ'			1		bonded tubing woul	d not go back into	
1	[]	lł		ſ'			1		well, discarded		
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Pump´	Туре:	QED Bla	dder Pu	ımp, High	pressu	ire com	presso	r			
Analyti	cal Par	ameters:	TAL M	etals (Tot	al and I	Field Fi	Itered)				

		//1							WELL NO.	MW-10
	SAMP		RM	PROJECT	odustria	I Finish	ina		PROJECT No. 60135736	SHEET SHEET
OCATION	1			LIDEITY	uustiiai		ng		DATE WELL SAMPLED	
<u>Brentw</u>	/ood, N	Y							11/4/2013	
	EC								Stephen Wright an	d Rita Papagian
			4 5				50.0	<i>r</i> .		40.4
	ONE WE	LL VOLUME :	4.5	galions	v	NELL TD:	50.0	ft	PUMP INTAKE DEPTH	: 48 T
	Depth			FIE	LD MEAS	SUREME	NTS			
Time	to Water	Purge Rate	Temp	Conduct		nH	ORP	Turbidity	RFI	MARKS
T III.	(ft)	(mL/min)	(°C)	(µs/cm)	(mg/L)	р.,		(ntu)		
13:30	43.10								Static water level	
13:35	42.90	250	['		[]	Ē'			pump on	
13:45	42.90	250	13.60	0.191	26.15	6.57	253	20.8		
13:55	42.90	250	13.49	0.208	22.16	6.62	261	12.9		
14:00	42.90	250	13.41	0.200	22.45	6.50	260	11.0	1	
14.15	42.90	250	13.49	0.209	21.09	0.09	203	11.9	Lufiltered Sample (
14:25	┟────┦		├ ───┦	<u> </u>	──┦	┟────┦	'		Filtered Sample LM	/W-10F Collected
1	l!		├ ───┤			l!				
	l	1				l				
									1/4" (OD) poly and	1/4" (OD) poly
									bonded tubing put	back into the well.
	Ē'	['	<u>['</u>			Ē'	['			
	 '		 '	 	└───┘	 '	 '	 		
	┢────┘		 '	───	───	┢────┘	 '	┣────	1	
	├ ────┘		┟───┘	 	──┦	├ ────┘	 '	 		
	┟──── ′		 '	<u> </u>	├ ───┦	┟──── ′	 '	<u> </u>		
	<u>∤</u> !	i'	├ ───┦	 	├┦	<u>∤</u> !	'	i		
	l	1	├ ───┤			l				
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	<u> </u> '	'	↓ '	 	ب ا	<u> </u> '	 '	 		
	└──── ′	'	 '	───	───	└──── ′	 '	┣────	1	
	┟────┘	¦'	┟────┘	┣────	├ ───┦	┟────┘	 '	ł		
	┟──── ┦		├ ────′	<u> </u>	┝───┦	┟──── ┦	'			
	├ ───┤		├ ───┦			├ ───┤				
		i	├ ───┤							
								<u> </u>	T	
	<u> </u>		<u> </u>	<u> </u>	<u>[</u>]	<u> </u>				
Pump	Туре:	QED Bla	dder Pu	ımp						
^ ~ oluti	and Dor		TAL N	tatala (Tot	tal and I	다시서 티	Harad)			
Allaiyu	Carran	diffeters.		etais (i or	al anu i		lleieuj			

	SAMP			PROJECT					IPRO JECT No	SHEET SHEET
	SAINF.		∩M ′	1 thanty Ir	- du otrio	- Cinich			00405706	4 1
	•		K IVI	Liberty in	dusina	I FILISII	Ing		DATE WELL SAMPLED	I OF I
	/ood, N	Y							11/5/2013	
· • • • 1									NAME OF INSPECTOR	and Pita Panagian
100	_0									anu mia rapayian
	ONE WE	ELL VOLUME :	1.03	gallons		WELL TD:	49.29	ft	PUMP INTAKE DE	ртн: 47.2 ft
	Depth	Diurge		FIE	LD MEA	SUREME	INTS			
Time	to Water	Purge	Temn	Conduct		nH	ORP	Turbidity	- , , , , , , , , , , , , , , , , , , ,	REMARKS
Time	(ft)	(mL/min)	(°C)	(us/cm)	(ma/L)	рп	UKF	(ntu)		
2:40	43.00		(- /	([(··· ʒ /			(,	Static water leve	
2:45	44.00	300	15.71	0.291	975	6.45	92	1000	pump on	
2:55	44.00	300	16.00	0.395	9.45	6.52	91	1000		
3:05	44.00	300	16.11	0.351	8.92	6.76	117	808		
3:15	44.00	300	16.10	0.353	9.26	6.73	131	572	1	
3:25	44.00	300	15.58	0.362	9.15	6.62	165	139		
3:35	44.00	300	15.56	0.362	9.00	6.63	167	125		
3:45	44.00	300	15,52	0.365	8.93	6.60	175	91.4		
3:55	44.00	300	15.35	0.374	9.03	6.54	184	47.5		
4:05	44.00	300	15.30	0.378	9.09	6.52	189	33.7		
4:10	-							* -	Unfiltered Samp	le LMW-12 Collected
4:15	İ	†	├ ── ┦	'	'		1		Filtered Sample	LMW-12F Collected
		<u> </u>	├ ── '		'		<u> </u>		Unfiltered Duplic	ate LMW-512 Collected
		<u> </u>	├ ──┦		'	'	<u> </u>		Filtered Duplicat	e LMW-512F Collected
		<u> </u>	├ ── <i>!</i>				1	1		
		1	+							
		<u> </u>	├ ── <i>!</i>				1	1		
									1/4" (OD) poly a	nd 1/4" (OD) poly
									bonded tubing p	ut back into the well.
			!						<u> </u>	
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			!							
		1	+							
		1	+							
		1	+							
		1	+							
	İ	†	├ ── ┦	'	'		1			
		†	├ ── ┦		'		1			
		†	├ ── ┦		'		1			
		<u> </u>	├ ── '		'					
		<u> </u>	├ ──┦		'	'				
	4	1	<u> </u>	<u> </u>	<u> </u>	<u>ı </u>	<u>I</u>		<u> </u>	
ump	Type:	QED Bla	dder Pi	ımp						
ump	. ,po.			ΠP						

	SAMD			PROJECT	ductrio	- Einich	ing		PROJECT No.	SHEET SHEET
	SAIVIE I			Liberty in	laustria	FILISI	ing		DATE WELL SAMPLED	I OF I
Brentw	/ood, N	Y							11/5/2013	
	FC								NAME OF INSPECTOR	and Rita Panagian
11000									Jotephen Wight	and mar apagian
	ONE WE	LL VOLUME :	9.21	gallons	V	NELL TD:	99.5	ft	PUMP INTAKE DE	:ртн: 95 ft
1	Depth			FIE	LD MEAS	SUREME	NTS			
Timo	to Water	Purge	Tomp	Conduct				Turbidity	-	DEMADKS
line	(ft)	(mL/min)	(°C)	(us/cm)	(mg/L)	рп	UKF	(ntu)		KEMARNO
14:25	43.02	(,,		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(5,			()	Static water leve	<u></u>
14:35	44.08	250	15.00	0.162	25.36	6.32	115	1000	pump on	
14:45	44.08	250	14.59	0.168	4.34	5.96	184	501	Dark grey water	
14:55	44.08	250	14.48	0.172	4.40	5.93	178	545	few sheen blebs	S
15:05	44.08	250	14.23	0.177	4.50	5.97	173	449		
15:15	44.08	250	14.91	0.178	5.65	5.92	174	451		
15:25	44.08	250	14.16	0.179	5.63	5.91	174	471		
15:35	44.08	250	14.03	0.183	5.89	5.89	175	460		
15:55	44.08	250	14.03	0.185	5.82	5.88	174	464	grey water	
16:05	44.08	250	14.04	0.187	5.81	5.70	177	469	grey water	
16:10	L'	<u> </u>		<u> </u> '	<u> </u>	<u> </u>	<u> </u>		Unfiltered Samp	le LMW-14 Collected
16:15	L'	<u> </u>		 '	<u> </u>	<u> </u>	<u> </u>		Filtered Sample	LMW-14F Collected
]	L'	<u> </u>		 '	<u> '</u>	<u> </u>	<u> </u>			
]	↓ '	 '		 '	 '	└── '	└── '			
]	⊢'	└─── '	└── ┘	 '	 '	└── ′	└── ′			
	└─── ′	└─── '	└── ┘	 '	└─── ′	└─── '	└─── '			
	┢────┘	 '	↓ /	 '	 '	 '	 '		1/4" (UD) poly a	nd 1/4" (OD) poly
	┢────┘	┟──── ′	└─── ′	 '	 '	└─── ′	└─── ′		bonded tubing p	ut back into the well.
	i'	└──── ′	├ ───┦	'	└─── ′	└─── ′	└─── ′		<u> </u>	
	i'	<u> </u>	├ ───┦	<u> </u> '	┟────┘	┟────┘	┟────┘			
	i'	<u> </u>	├ ───┦	¦'	┟────┘	┟────┘	┟────┘			
	'	├ ────┤	├ ───┦	'	├ ────′	├ ────′	├ ────′		1	
——	'	<u>├</u> ────┤	!		├ ───′	'	'			
—		<u>├</u> ───┦		'	├ ────┦					
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	(+	ľ	├ ───					
	(+	!	'	├ ──┤					
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		+							ĺ	
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			<u> </u>					J	•	
⁻ ump ⁻	Type:	QED Bla	dder Pu	ump						
				•						

/ELL : CATION rentwi IENT YSDE	SAMPI ood, N C ONE WE Depth to Water (ft) 44.63 44.63 44.63 44.63 44.64 44.64 44.64	LING FOF Y LL VOLUME : Purge Rate (mL/min) 250 250 250 250	8.94 Temp. (°C) 15.71 13.32	gallons FIE Conduct. (µs/cm)	LD MEAS (mg/L)	VELL TD: SUREME	99.5 99.5	ft	PROJECT NO. 60135736 DATE WELL SAMPLED 11/4/2013 NAME OF INSPECTOR Stephen Wright and PUMP INTAKE DEPTH:	sнеет sнее <u>1 оғ 1</u> I Rita Papagian 98 ft	
Fime 3:25 3:30 3:40 3:50 4:00 4:10 4:20	ood, N ¹ C ONE WE Depth to Water (ft) 44.63 44.63 44.63 44.63 44.64 44.64	Y Purge Rate (mL/min) 250 250	8.94 Temp. (°C) 15.71 13.32	gallons FIE Conduct. (µs/cm)	LD MEAS DO (mg/L)	VELL TD: SUREME	99.5 NTS	ft	DATE WELL SAMPLED 11/4/2013 NAME OF INSPECTOR Stephen Wright and PUMP INTAKE DEPTH:	I Rita Papagian 98 ft	
rentwi IENT YSDE 3:25 3:30 3:40 3:50 4:00 4:00 4:20	ood, N C ONE WE Depth to Water (ft) 44.63 44.63 44.63 44.63 44.63 44.64 44.64	Y LL VOLUME : Purge Rate (mL/min) 250 250 250	8.94 Temp. (°C) 15.71 13.32	gallons FIE Conduct. (µs/cm) 0.153	LD MEAS DO (mg/L)	VELL TD: SUREME pH	99.5 INTS	ft	11/4/2013 NAME OF INSPECTOR Stephen Wright and PUMP INTAKE DEPTH:	l Rita Papagian 98 ft	
Fime 3:25 3:30 3:40 3:50 4:00 4:10 4:20	C ONE WE Depth to Water (ft) 44.63 44.63 44.63 44.63 44.64 44.64 44.64	LL VOLUME : Purge Rate (mL/min) 250 250 250	8.94 Temp. (°C) 15.71 13.32	gallons FIE Conduct. (µs/cm)	LD MEAS DO (mg/L)	VELL TD: SUREME pH	99.5 NTS	ft	Stephen Wright and	l Rita Papagian 98 ft	
Fime 3:25 3:30 3:40 3:50 4:00 4:10 4:20	ONE WE Depth to Water (ft) 44.63 44.63 44.63 44.63 44.64 44.64	Purge Rate (mL/min) 250 250	8.94 Temp. (°C) 15.71 13.32	gallons FIE Conduct. (µs/cm)	LD MEAS DO (mg/L)	VELL TD: SUREME pH	99.5 NTS	ft	PUMP INTAKE DEPTH:	98 ft	
Fime 3:25 3:30 3:40 3:50 4:00 4:10 4:20	Depth to Water (ft) 44.63 44.63 44.63 44.63 44.64 44.64	Purge Rate (mL/min) 250 250 250	Temp. (°C) 15.71 13.32	FIE Conduct. (μs/cm)	LD MEAS DO (mg/L)	SUREME pH	NTS	-			
Sizes 3:25 3:30 3:40 3:50 4:00 4:10 4:20	to Water (ft) 44.63 44.63 44.63 44.63 44.64 44.64	Purge Rate (mL/min) 250 250 250	Temp. (°C) 15.71 13.32	Conduct. (µs/cm)	DO (mg/L)	рН					
Time 3:25 3:30 3:40 3:50 4:00 4:10 4:20	Water (ft) 44.63 44.63 44.63 44.63 44.64 44.64	Rate (mL/min) 250 250 250	Temp. (°C) 15.71 13.32	Conduct. (µs/cm) 0.153	DO (mg/L)	рН			1		
3:25 3:30 3:40 3:50 4:00 4:10 4:20	(ft) 44.63 44.63 44.63 44.63 44.64 44.64	(mL/min) 250 250 250	(° C) 15.71 13.32	(µs/cm) 0.153	(mg/L)		UKP	Turbidity	REM	ARKS	
3:25 3:30 3:40 3:50 4:00 4:10 4:20	44.63 44.63 44.63 44.63 44.64 44.64	250 250 250	15.71 13.32	0.153				(ntu)			
3:30 3:40 3:50 4:00 4:10 4:20	44.63 44.63 44.63 44.64 44.64	250 250 250	15.71 13.32	0.153					Static water level		
3:40 3:50 4:00 4:10 4:20	44.63 44.63 44.64 44.64	250 250	13.32	000	11.34	5.95	208	266	pump on		
3:50 4:00 4:10 4:20	44.63 44.64 44.64	250		0.166	10.54	4.98	345	242			
4:00 4:10 4:20	44.64 44.64		13.12	0.167	10.33	4.98	371	113			
4:10 4:20	44.64	250	13.02	0.168	14.02	4.98	379	80.0			
4:20	1 A C A	250	13.02	0.169	10.21	5.00	384	51.2			
	44.04	250	13.02	0.170	9.98	5.01	387	38.5	Filtered Sample LM	W-16F Collected	
4:30									Unfiltered Sample L	MW-16 Collected	
4:35											
									1/4" (OD) poly and 2	1/4" (OD) poly	
\rightarrow									bonded tubing put b	ack into the well.	
\rightarrow											
\rightarrow											
\rightarrow											
\rightarrow											
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\longrightarrow											
\rightarrow											
	Г. <i>и</i> с. с. :										
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aab ('			TAL M	atala /T · ·			tors IV				

		///							WELL NO.	MW-18
WELL	SAMP		RM	PROJECT	odustria	I Finish	ina		PROJECT No. 60135736	SHEET SHEET
OCATION	1				luoina		ing		DATE WELL SAMPLED	
Brentw	<u>/ood, N</u>	Y							11/5/2013	
NY <u>SD</u> I	EC								Stephen Wright a	nd Rita Papagian
			16.68	aollone	· · · ·		1/8 0	4		
	ONE WE		10.00	gailons		NELL TD:	140.0	IT		'H: 90 п
	Depth	Durgo		FIE	LD MEA	SUREME	INTS			
Time	Water	Rate	Temp.	Conduct.	DO	Ha	ORP	Turbidity	RI	EMARKS
	(ft)	(mL/min)	(°C)	(µs/cm)	(mg/L)	P **		(ntu)		
10:35	45.69								Static water level	
10:40	45.69	250	13.71	0.310	9.81	5.97	55	7.8	pump on	
10:50	45.69	250	13.89	0.307	8.69	5.78	84	4.2		
11:00	45.70	250	13.96	0.306	8.52	5.82	111	3.6		
11:10	45.70	250	14.02	0.306	8.66	5.81	133	3.2		
11:20	45.70	250	13.99	0.307	8,46	5.84	140	2.9		
11:30	45.70	250	13.97	0.307	8.40	5.86	145	2.8		
11:30	<u> </u>	 '	<u> </u>				<u> </u>	<u> </u>	Unfiltered Sample	LMW-18 Collected
11:35	 '	 '	<u> </u>	 '	<u> </u>	<u> </u>	<u> </u>	<u> </u>	Filtered Sample L	MW-18F Collected
	 '	 '	 '	 '	Ļ	<u> </u>	<u> </u>	Ļ		
	 '	 '	 '	 '	Ļ	<u> </u>	<u> </u>	Ļ		
	 '	 '	'	 '	<u> </u>	<u> </u>	<u> </u>	Ļ		
	 '	 '	 '	 '	Ļ	<u> </u>	<u> </u>	Ļ		
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	└───'	 '	 '	ļ'		 '	 '		1/4" (OD) poly and	d 1/4" (OD) poly
	└───'	 '	 '	 '		 '	 '	───	bonded tubing put	t back in well.
	└───'	 '	 '	 '		 '	 '	───		
	└───'	 '	 '	ļ'		 '	 '	───	ļ	
	└───'	 '	 '	ļ'		 '	 '	───	<u> </u>	
	└────'	 '	 '	ļ'		ļ'	 '	───	<u> </u>	
	└────'	 '	 '	ļ'		ļ'	 '	───	<u> </u>	
!	└────'	 '	 '	ļ'		ļ'	 '	───	<u> </u>	
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	└─── '	 '	 '	 '		 '	 '		 	
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	└─── '	 '	 '	 '		ļ'	 '	 	 	
	└─── '	 '	 '	 '		 '	 '		 	
!	 '	 '	 '	 '	──	 '	 '	 	 	
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	 '	 '	 '	ļ'		 '	 '	───	 	
	 '	 '	 '	 '	───	 '	 '	───	<u> </u>	
		<u> </u>	<u> </u>	<u> </u>				<u> </u>		
D	T		J-Jan Di							
Pump	Type.	QED Dia	daer Pu	ımp						
م ماريد ^	- al Dar	toro	T AL N	-tela (Tel	اممد احا	드 이상 드:	ltered)			
Anaiyu	Carran	ameters.		etais (100		Fleiu Fi	ilereu)			

WELL OCATION Brentv LIENT VYSD	SAMP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LING FO	RM	PROJECT					PROJECT No.	SHEET SHEET
OCATION Brentv LIENT VYSD	<u>/ood, N</u> EC	V			idustria	I Finish	ina		60135736	
	<u>vood, N</u> EC	v			luusina		ing		DATE WELL SAMPLED	
NYSD	EC	<u>I</u>							11/5/2013	
Time									Stephen Wright and	I Rita Papagian
Time			1111	aallone			265.0	4		255 ft
Time	ONE WE		144.4	gailons	، 	NELL ID:	200.0	IL	PUMP IN LAKE DEPTH:	200 ft
T :	Depth	Durgo		FIE	LD MEAS	SUREME	INTS			
ime	Water	Rate	Temp.	Conduct.	DO	Ha	ORP	Turbidity	REM	IARKS
	(ft)	(mL/min)	(°C)	(µs/cm)	(mg/L)			(ntu)		
10:40	43.90		<u> </u>			Ē	Ē		Static water level	
10:45	44.52	750	13.10	0.192	10.71	6.15	243	11.0	pump on	
10:55	44.52	750	13.41	0.190	3.33	5.99	244	9.4	<u> </u>	
11:05	44.52	750	13.51	0.189	2.53	5.99	242	8.2	 	
11:15	44.52	750	13.50	0.189	2.55	5.94	241	8.9		-
11:25	44.52	750	13.47	0.100	3.01	5.91	250	7.1	<u> </u>	
11.30	44.52	100	12.93	0.165	2.49	5.90	200	1.9	Lunfiltered Sample I	MM/-19 Collected
11.40	┟────┘	 '	├ ───┦	╂────	 '	───	───	╂────	Filtered Sample I M	MV-19 Collected
11.40	├ ────′	 '	┟────┦	┣────	 '	┣────	┣────	┣────		
	 '	 '	├─── ┦	┢────	'	├───	├───	<u> </u>	+	
	├ ───┦	'	┟───┦	<u> </u>	├ ───′	├───	├───	<u> </u>	1	
	┢───┦		┟───┦	<u> </u>	├────	├───	├───	<u> </u>	<u>+</u>	
			├ ── /	<u> </u>	1	<u> </u>	<u> </u>		1	
									1	
									<u> </u>	
									1/4" (OD) poly and 1	I/4" (OD) poly
									bonded tubing would	d not go back into
									well, discarded	
	<u> </u>		<u>[</u>	\square	 '	\square	\square			
	<u> '</u>	 '	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		
	↓ '	 '	↓ ′	Ļ	 '			 		
	└─── ′	 '	ļ'	 	 '			 	<u> </u>	
	 '	 '	↓ ′		 '			 	 	
	┟────┘	 '	───′	───	 '	──	──	───		
	───┘	 '	 !	───	 '	┣───	┣───	 	<u> </u>	
	┟────┘	 '	┟───┦	 	 '	──	──	 	<u> </u>	
	┟────┘	 '	∤ ───┦	╂────	 '	╂────	╂────	 	+	
	├ ────'	'	┨────┦	├───	'	├───	├───	<u> </u>	+	
	├ ───┦	'	┟───┦	<u> </u>	 '	├───	├───	<u> </u>	1	
	┢────┦		┟───┦	<u> </u>	├────	├───	├───	<u> </u>	<u>+</u>	
			├ ──┦		'				+	
			├ ──┦	<u> </u>		 	 		1	
	·	<u>. </u>	<u> </u>	<u> </u>		L	L			
Pump	Type:	QED Bla	dder Pu	ump, High	ı pressı	ire com	presso	r,		
				-	•					
Analyti	cal Par	ameters:	TAL M	etals (Tot	al and l	Field Fi	ltered)			

Product Product <t< th=""><th></th><th></th><th>//1</th><th></th><th></th><th></th><th></th><th></th><th></th><th>WELL NO.</th><th>MW-20</th></t<>			//1							WELL NO.	MW-20
Determine Date well same of the second	WELL	SAMP		RM	PROJECT Liberty Ir	odustria	l Finish	lina		PROJECT No. 60135736	SHEET SHE
Brentwood, NY 111/5/2013 NAME OF INSPECTOR Stephen Wright and Rita Papagi ONE WELL VOLUME: 10.88 gallons well to: 110.0 ft Pump INTAKE DEPTH: 108 ft Time Water Rate Temp. Conduct. DO pH ORP Turbidity REMARKS 13:55 43:24 250 15.27 0.289 12.54 5.89 198 3.4 pump on 14:10 43:24 250 15.27 0.289 18.64 5.86 215 0.1 14:20 43:24 250 14.68 0.291 8.80 5.88 222 0.0 14:40 43:24 250 14.72 0.291 8.80 5.86 235 0.0 15:00 14.77 0.291 8.81 5.86 237 0.0 15:00 14.75 0.291 8.81 5.86 237 0.0 Unfiltered Sample LMW-20 Colit 15:00 14.75 0.291 8.81 5.86	OCATION	1					11 11101.	ing		DATE WELL SAMPLED	
New YSDEC Time water building and the purple of the purple	Brentw	/ood, N	<u>Y</u>							11/5/2013	
DNE WELL VOLUME: 10.88 gallons WELTO: 110.0 ft PUMP WTAKE DEPTH: 108 ft Time Water Rate Temp. Conduct. D0 pH OR Turbidity REMARKS 13:55 43.24 Static water level 14:10 15.27 0.289 12.54 5.89 198 3.4 pump on 14:10 43.24 250 15.27 0.289 8.64 5.86 215 0.1 14:10 43.24 250 15.06 0.289 8.64 5.86 225 0.0 14:44 43.24 250 14.68 0.291 8.85 5.86 223 0.0 14:50 43.24 250 14.72 0.291 8.85 5.86 235 0.0 15:00 14:32 43.24 250 14.75 0.291 8.85 5.86 235 0.0 114:50 14:47 (OD) poly and 1/4" (OD) poly and 1/4" (OD) poly and 1/4" (OD) poly and 1/4" (OD) poly and 1/4" (OD) poly and 1/4" (OD) poly and 1/4" (OD) poly and 1/4" (OD) poly and 1/4" (OD) poly and 1/4" (OD) poly a	NYSDI	EC								Stephen Wright a	and Rita Papagian
Depth to Purge (R) Temp. (c) Conduct. (ws/cm) (mg/L) PH ORP Turbidity (ntu) REMARKS 13:55 43:24 250 15:27 0.289 12:54 5.89 198 3.4 purp on 14:10 43:24 250 15:27 0.289 9.95 5.87 207 1.5 14:20 43:24 250 15:21 0.289 9.86 5.86 215 0.1 1.41:30 43:24 250 14:80 0.291 8.80 5.86 235 0.0 1.4:80 43:24 250 14.78 0.291 8.85 5.86 235 0.0 1.4:50 43:24 250 14.75 0.291 8.85 5.86 235 0.0 1.5:00 1.4:75 0.291 8.81 5.86 235 0.0 1.5:00 1.4:75 0.291 8.81 5.86 235 0.0 1.6:0 1.4''' (OD) poly and 1/4''' (OD) poly and 1/4''' (OD) pol 1.4'''' (OD) pol y and 1/4'''' (OD) pol y and 1/4'''' (OD) pol y and 1/4''' (OD) pol y and 1/4'''' (OD) pol y	_	ONE WE	ELL VOLUME :	10.88	gallons		WELL TD:	110.0	ft	PUMP INTAKE DEP	тн: 108 ft
to (ft) Purge (ft) Tamp. (ft) Conduct. (gs/cm) DO (mg/L) PH ORP Turbidity REMARKS 13:55 43.24 - - - Static water level 14:10 43.24 250 15.27 0.289 12.54 5.89 198 3.4 pump on 14:10 43.24 250 15.21 0.289 8.64 5.86 215 0.1 14:30 43.24 250 14.85 0.291 8.80 5.88 221 0.0 14:40 43.24 250 14.75 0.291 8.81 5.88 235 0.0 14:50 43.24 250 14.75 0.291 8.81 5.86 237 0.0 15:00 43.24 250 14.75 0.291 8.81 5.86 237 0.0 15:00 - - - - - - - - 15:00 - - - - </td <td></td> <td>Depth</td> <td>_</td> <td></td> <td>FIE</td> <td>LD MEA</td> <td>SUREME</td> <td>INTS</td> <td></td> <td><u> </u></td> <td></td>		Depth	_		FIE	LD MEA	SUREME	INTS		<u> </u>	
Inite Inite <thinite< th=""> <thinite< th=""> <thin< td=""><td>Timo</td><td>to Water</td><td>Purge</td><td>Tomp</td><td>Conduct</td><td></td><td>nH</td><td></td><td>Turbidity</td><td></td><td>EMARKS</td></thin<></thinite<></thinite<>	Timo	to Water	Purge	Tomp	Conduct		nH		Turbidity		EMARKS
13:55 43:24 1	Time	(ft)	(mL/min)	(°C)	(us/cm)	(ma/L)	рп	UKF	(ntu)	ĸ	EWARKS
14:00 43.24 250 15.27 0.289 12.54 5.89 198 3.4 pump on 14:10 43.24 250 15.06 0.289 8.64 5.86 215 0.1 14:20 43.24 250 14.85 0.291 8.80 5.86 215 0.1 14:30 43.24 250 14.68 0.291 8.80 5.86 235 0.0 14:40 43.24 250 14.75 0.291 8.81 5.86 235 0.0 14:50 43.24 250 14.75 0.291 8.81 5.86 235 0.0 15:00 43.24 250 14.75 0.291 8.81 5.86 235 0.0 15:00 14.75 0.291 8.81 5.86 237 0.0 1 15:00 14.75 0.291 8.81 5.86 237 0.0 1 15:00 14.75 0.291 8.81 5.86 237 0.0 1 15:00 14.75 0.291 <	13:55	43.24			/	<u>, ,</u>				Static water level	
14:10 43.24 250 15.21 0.289 9.95 5.87 207 1.5 14:20 43.24 250 15.06 0.289 8.64 5.86 215 0.1 14:30 43.24 250 14.85 0.291 8.80 5.88 222 0.0 14:40 43.24 250 14.68 0.291 8.80 5.88 235 0.0 14:50 43.24 250 14.75 0.291 8.85 5.86 235 0.0 15:00 14.75 0.291 8.81 5.86 237 0.0 10 15:00 14.75 0.291 8.81 5.86 237 0.0 10 15:00 14.75 0.291 8.81 5.86 237 0.0 10 15:00 14.72 0.291 8.81 5.86 237 0.0 10 15:00 14.72 0.291 8.81 5.86 237 0.0 14" (OD) poly and 1/4" (OD) pol 15:00 14.72 14.72 14.72 14.72	14:00	43.24	250	15.27	0.289	12.54	5.89	198	3.4	pump on	
14:20 43.24 250 15.06 0.289 8.64 5.86 215 0.1 14:30 43.24 250 14.68 0.291 8.80 5.88 222 0.0 14:40 43.24 250 14.68 0.291 8.80 5.88 222 0.0 14:40 43.24 250 14.75 0.291 8.85 5.86 235 0.0 15:00 43.24 250 14.75 0.291 8.81 5.86 235 0.0 15:00 14.75 0.291 8.81 5.86 237 0.0 0 15:00 14.75 0.291 8.81 5.86 237 0.0 0 15:00 14.75 0.291 8.81 5.86 237 0.0 0 15:00 14.75 0.291 8.81 5.86 237 0.0 0 15:00 14.75 0.291 8.81 5.86 237 0.0 1/4" (OD) poly and 1/4" (OD) poly and 1/4" (OD) poly and 1/4" (OD) poly and 1/4" (DD) poly	14:10	43.24	250	15.21	0.289	9.95	5.87	207	1.5	ľ.	
14:30 43.24 250 14.85 0.291 8.80 5.88 222 0.0 14:40 43.24 250 14.72 0.291 8.85 5.89 231 0.0 14:50 43.24 250 14.72 0.291 8.85 5.86 235 0.0 15:00 43.24 250 14.75 0.291 8.85 5.86 237 0.0 15:00 43.24 250 14.75 0.291 8.81 5.86 237 0.0 15:00 14.75 0.291 8.81 5.86 237 0.0 0 15:00 14.75 0.291 8.81 5.86 237 0.0 0 15:00 14.75 0.291 8.81 5.86 237 0.0 0 15:00 14.75 0.291 8.81 5.86 237 0.0 0 15:00 1/4"(OD) poly and 1/4" (OD) poly and 1/4" (DD) poly and 1/	14:20	43.24	250	15.06	0.289	8.64	5.86	215	0.1		
14:40 43.24 250 14.68 0.291 9.53 5.89 231 0.0 14:50 43.24 250 14.75 0.291 8.85 5.86 235 0.0 15:00 43.24 250 14.75 0.291 8.85 5.86 235 0.0 15:00 43.24 250 14.75 0.291 8.81 5.86 237 0.0 15:00 14.75 0.291 8.81 5.86 237 0.0 1 15:00 14.75 0.291 8.81 5.86 237 0.0 1 15:05 14.75 14.75 0.291 8.81 5.86 237 0.0 15:05 14.75 14.75 14.77 14.77 14.77 14.77 0.91 15:05 14.75 14.77 14.77 14.77 14.77 0.91 14.77 0.91 14.77 0.91 14.77 0.91 14.77 0.91 14.77 0.91 14.77 0.91 14.77 0.91 14.77 0.91 14.77 <td< td=""><td>14:30</td><td>43.24</td><td>250</td><td>14.85</td><td>0.291</td><td>8.80</td><td>5.88</td><td>222</td><td>0.0</td><td></td><td></td></td<>	14:30	43.24	250	14.85	0.291	8.80	5.88	222	0.0		
14:50 43.24 250 14.72 0.291 8.85 5.86 235 0.0 15:00 43.24 250 14.75 0.291 8.81 5.86 237 0.0 15:00 - - - - - - Unfiltered Sample LMW-20 Colle 15:00 - - - - - - - - 15:00 - - - - - - - - 15:00 - - - - - - - - 15:00 - - - - - - - - 15:00 - - - - - - - - 15:00 - <td< td=""><td>14:40</td><td>43.24</td><td>250</td><td>14.68</td><td>0.291</td><td>9.53</td><td>5.89</td><td>231</td><td>0.0</td><td></td><td></td></td<>	14:40	43.24	250	14.68	0.291	9.53	5.89	231	0.0		
15:00 43.24 250 14.75 0.291 8.81 5.86 237 0.0 15:00 Image: Constraint of the state of the s	14:50	43.24	250	14.72	0.291	8.85	5.86	235	0.0		
15:00 Unfiltered Sample LMW-20 Colle 15:05 Filtered Sample LMW-20 Colle I I I I I	15:00	43.24	250	14.75	0.291	8.81	5.86	237	0.0		
15:05 Image: Constraint of the state	15:00									Unfiltered Sample	e LMW-20 Collected
Image: Second second	15:05									Filtered Sample L	MW-20F Collected
Image: Second second											
Image: Control of the state of the stat										1/4" (OD) poly an	d 1/4" (OD) poly
Image: Image:										1/4" (OD) poly and 1/4" (OD) poly bonded tubing put back into the well.	
Image: Image:											
Pump Type: QED Bladder Pump, High pressure compressor		<u> </u>									
Image: Image:		<u> </u>									
Image: Image:		 '									
Pump Type: QED Bladder Pump, High pressure compressor		 '									
Image: Sector of the sector		 '									
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Pump Type: QED Bladder Pump, High pressure compressor		 '		<u> </u>				<u> </u>	<u> </u>		
Image: Second secon		 '		<u> </u>				<u> </u>	<u> </u>		
Pump Type: QED Bladder Pump, High pressure compressor		 '	Ļ	<u> </u>	\square	<u> </u>	Ļ	<u> </u>	ļ		
Pump Type: QED Bladder Pump, High pressure compressor		 '	Ļ	<u> </u>	\square	<u> </u>	Ļ	<u> </u>	ļ		
Pump Type: QED Bladder Pump, High pressure compressor		 '									
Pump Type: QED Bladder Pump, High pressure compressor		 '	Ļ	<u> </u>	\square	<u> </u>	Ļ	<u> </u>	ļ		
Pump Type: QED Bladder Pump, High pressure compressor		 '		<u> </u>				<u> </u>	<u> </u>		
Pump Type: QED Bladder Pump, High pressure compressor		 '		<u> </u>		<u> </u>		<u> </u>	<u> </u>		
Pump Type: QED Bladder Pump, High pressure compressor		 '		<u> </u>		<u> </u>		<u> </u>	<u> </u>		
Pump Type: QED Bladder Pump, High pressure compressor		 '	Ļ	<u> </u>	\square	<u> </u>	Ļ	<u> </u>	ļ		
Pump Type: QED Bladder Pump, High pressure compressor		 '	Ļ	<u> </u>	\square	<u> </u>	Ļ	<u> </u>	ļ		
Pump Type: QED Bladder Pump, High pressure compressor		 '	Ļ	<u> </u>	\square	<u> </u>	Ļ	<u> </u>	ļ		
Pump Type: QED Bladder Pump, High pressure compressor		 '	 	ļ'	 		└───	ļ'	ļ		
Pump Type: QED Bladder Pump, High pressure compressor		<u> </u>				<u> </u>	<u> </u>				
Pump Type: QED Bladder Pump, High pressure compressor		_									
	Pump	Туре:	QED Bla	dder Pu	ump, High	i pressi	ire com	presso	r		
Analytical Parameters: TAL Metals (Total and Field Filtered)	Analyti	cal Par	ameters:	I AL M	etals (1 ot	al and I	Field Fi	Itered)			

									WELL NO.	MW-21	
WELL	SAMP	LING FOI	RM	Liberty In	dustria	l Finish	ing		60135736	SHEET SHEETS	
LOCATION Brentw	ı /ood, N	Y							DATE WELL SAMPLED 11/5/2013		
NYSDI	EC								Stephen Wright and	l Rita Papagian	
	ONE WE	LL VOLUME :	16.92	gallons	١	WELL TD:	147.0	ft	PUMP INTAKE DEPTH:	144 ft	
	Depth	Durgo		FIE	LD MEA	SUREME	NTS				
Time	Water (ft)	Rate	Temp.	Conduct.	DO (mg/l)	рН	ORP	Turbidity	REN	IARKS	
12:40	43.20	(//)	(0)	(µ3/011)	(iiig/L)			(inta)	Static water level		
12:45	43.20	200	17.63	0.001	14.11	5.41	136	188	pump on		
12:55	43.21	200	15.52	0.257	9.20	5.96	176	222			
13:05	43.21	200	15.40	0.251	9.02	5.88	192	71.2			
13:15	43.21	200	15.72	0.249	8.92	5.88	198	48.5			
13:25	43.21	200	15.88	0.244	10.55	5.86	201	25.9			
13:35	43.21	200	16.11	0.241	9.02	5.86	207	18.7			
13:45	43.21	200	16.15	0.239	9.31	5.86	211	17.7			
13:45									Unfiltered Sample L	MW-21 Collected	
13:50									Filtered Sample LM	W-21F Collected	
									1/4" (OD) poly and (1/4" (OD) poly	
									1/4" (OD) poly and 1/4" (OD) poly bonded tubing put back into the well.		
									bonded tubing put back into the well.		
Pump	Type:	QED Bla	dder Pu	Imp							
Analyti	cal Par	ameters:	TAL M	etals (Tot	al and I	Field Fi	ltered)				