# Alternatives Analysis Report/ Remedial Action Work Plan

295 Maryland Street Site BCP Site No. C915242 Buffalo, New York

December 2015

0222-001-100

Prepared For:

295 Maryland, LLC

Prepared By:



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# **BROWNFIELD CLEANUP PROGRAM**

# ALTERNATIVES ANALYSIS REPORT/ REMEDIAL ACTION WORK PLAN

295 MARYLAND STREET SITE, BCP SITE NO. C915242 BUFFALO, NEW YORK

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#### 295 MARYLAND, LLC

Prepared by:



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# AAR/RAWP

# 295 Maryland Street Site

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# AAR/RAWP 295 Maryland Street Site

#### Certification

*I, Thomas H. Forbes,* certify that I am currently a NYS registered Professional Engineer as defined in 6 NYCRR Part 375 and that this Alternatives Analysis Report/Remedial Action Work Plan for the 295 Maryland Street Site (BCP Site No. C915242) 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) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

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# **1.0** INTRODUCTION

This document presents an Alternatives Analysis Report (AAR) and Remedial Action Work Plan (RAWP) prepared under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) for the 295 Maryland Street Site in Buffalo, New York (see Figures 1 and 2). The BCP Site consists of 1.557 acres of contiguous property at 295 and 305 Maryland, and 129 West Avenue. The AAR/RAWP and the BCP are being performed on behalf of 295 Maryland, LLC for the purpose of redeveloping former manufacturing property into residential apartments for approximately 54 living units in a three-story building (see Figure 3).

In August 2010, Benchmark Environmental Engineering & Science, PLLC (Benchmark) met with the NYSDEC to discuss the potential eligibility of the Site for inclusion in the BCP. Based on extensive prior investigation work completed on the property by Benchmark and others (discussed below), it was determined that the Site would be a candidate for entry into the BCP at the remedial implementation stage, predicated on completion of a groundwater quality assessment. Accordingly, 295 Maryland, LLC completed preliminary groundwater characterization in September 2010 and subsequently submitted a BCP application to the NYSDEC in March 2011. The BCP application was deemed complete by the NYSDEC, and the public notice was published in the Buffalo News on April 13, 2011. The review and comment period concluded on May 13, 2011 and the Site, designated as BCP Site No. C915242, was accepted into the BCP effective July 14, 2011.

# 1.1 Background

The Site was historically used in a residential and commercial capacity, with the property at 295 Maryland Street most recently occupied by Lamar Advertising, Inc. (Lamar), a firm specializing in the sale of billboard advertising space and erection of billboard signs. Lamar relocated to another location within the City in December 2000; the associated commercial buildings and facilities on 295 Maryland Street as well as the residences at 121-129 West Avenue have been demolished. Currently, the Site is vacant and undeveloped.

A Phase I Environmental Site Assessment (ESA) was performed for the former Lamar Advertising property in January 2000, prior to facility demolition (Ref. 1). A separate Phase I ESA was prepared in 2001 for 121-129 West Avenue on behalf of the Buffalo



Niagara Renaissance Corporation (BNRC) (Ref. 2). The ESA reports indicate that 121-129 West Avenue was historically used for residential purposes, with 295 Maryland Street historically improved with an office, commercial building, and two multiple bay garages. Potential recognized environmental conditions (RECs) at 295 Maryland Street included:

- Vehicle maintenance
- Use and storage of paints, adhesives, and other flammables
- Underground storage tanks (USTs): 550-gallon and 4,000-gallon gasoline USTs were reportedly removed from the Site in 1974 and 1997, respectively. In addition, a small UST containing benzene was reportedly discovered and removed during facility decommissioning.

A Phase II Environmental Site Investigation was completed at 295 Maryland Street by Benchmark on behalf of the BNRC in November 2001 (Ref. 3) based on Phase I ESA findings. The Phase II identified surface and subsurface soil/fill materials exceeding NY State soil cleanup guidance values (i.e., as compared to TAGM 4046, the applicable NYSDEC guidance in place at that time) for certain parameters, including arsenic, lead, mercury, and several polyaromatic hydrocarbons (PAHs). These same parameters are elevated with respect to more recent Soil Cleanup Objectives (SCOs) for restrictedresidential use as published in 6NYCRR Part 375. Section 3.0 discusses the findings of the historic investigations in more detail, as well as supplemental investigations completed under the BCP to assess groundwater quality and refine areas of soil/fill requiring remediation.

# 1.2 **Purpose and Scope**

This AAR and RAWP has been prepared in general accordance with Section 5.3.b of NYSDEC's May 2010 DER-10 Technical Guidance for Site Investigation and Remediation. Accordingly, it addresses the following items:

- A Site characterization, including a description of the data from prior reports and the results of supplemental groundwater and soil/fill assessments in 2010, 2011, and 2013 (Section 2.0).
- Alternatives analysis relative to the NYSDEC Site Screening Criteria (Section 3.0).
- Remedial Action Work Plan for the implementation of the selected remedy (Section 4.0) along with schedule for implementation.
- References cited in the report (Section 5.0).



# 1.3 **Project Organization and Responsibilities**

Benchmark, a NY State professional engineering firm, will serve as BCP consultant to 295 Maryland, LLC. An experienced and qualified contractor will be retained by 295 Maryland, LLC to implement the remediation, with Benchmark providing confirmatory sampling as well as Qualified Environmental Professional (QEP) observation and documentation of the remedial activities. The NYSDEC Division of Environmental Remediation (DER) will monitor the remedial actions to verify that the work is performed in accordance with the approved RAWP.



# 2.0 SITE CHARACTERIZATION

#### 2.1 2001 Investigation Approach

Investigation activities undertaken on 295 Maryland Street on behalf of the BNRC in 2001 included an electromagnetic (EM) survey to check for the presence of buried metallic objects across the property, and a test pit investigation to further investigate the source of EM anomalies and allow for surface and subsurface soil/fill characterization. A summary of the 2001 investigation activities is presented below.

#### 2.1.1 EM-61 Survey

On September 13-14, 2001, Benchmark's designated subcontractor, Geomatrix Consultants, Inc., performed an electromagnetic geophysical (EM-61) survey across 295 Maryland Street. The purpose of the EM-61 survey was to identify and define areas within the Site boundary that may be indicative of buried metal or other highly conductive material. A Geonics EM-61 high-resolution time domain electromagnetic (TDEM) metal detector capable of detecting both ferrous and nonferrous metallic objects was used to collect the subsurface data. The EM-61 has an approximate effective depth of up to 10 feet below ground surface (fbgs).

Results of the geophysical survey indicated a number of suspect buried metallic anomalies across the property (see Appendix A). Based on discussions with the former owner (Lamar), several of the anomalies were suspected to be structural (reinforced) concrete. In addition, Lamar provided documentation substantiating removal of two USTs historically used for gasoline storage and a small UST historically containing benzene; these three USTs were identified in the January 2000 Phase I ESA Report. Nevertheless, Benchmark and the BNRC agreed that additional intrusive investigation would be required to positively identify the source of the anomalies.

# 2.1.2 EM Anomaly Test Pits

On October 22, 2001, a total of 10 test pits (EM-1 through EM-10) were excavated at suspect anomaly locations identified during the EM survey (see Figure 4). The test pits were excavated with a track-mounted excavator until the geophysical anomaly was positively identified, which occurred at depths ranging from 6 inches to 4 fbgs. During test pit



excavation, a Benchmark engineer logged the test pit lithology and anomaly findings, and characterized excavated soil/fill for visual and/or olfactory evidence of contamination. Soil/fill materials were also screened for volatile organic vapors with a photoionization detector (PID) as a further indicator of potential contamination.

Fill was generally present at each location to a depth of 3-4 fbgs. A thin layer of native topsoil overlying native clayey soils with silt was typically encountered below the fill materials. Groundwater was not encountered, excluding some instances of perched water over clayey soils. The fill material consisted of generally fine grained and very loose soil with mixtures of brick, concrete, ash, slag, and various metallic debris. All EM test pits positively identified each geophysical anomaly as metallic debris (e.g., steel channeling, plates, angles, etc.) and/or reinforced concrete; no vessels or containers were discovered. None of the test pits exhibited field evidence of impact with the exception of test pit EM-6, where a slight petroleum odor and staining were noted in the excavated fill soils. Based on these observations, test pit EM-6 was extended approximately 6 feet in the northern direction to provide an indication of the extent of impact. As the test pit was continued to the north, visual and olfactory evidence of petroleum became less evident to the point where no impacts were observed. In addition, perched water was encountered at the apparent native soil interface (approximately 3 fbgs), with a slight sheen observed on the perched water surface at this location.

In order to characterize the impacted soil/fill, a composite sample was collected from the side wall of test pit EM-6 for laboratory analysis of: "full list" volatile organic compounds (i.e., NYSDEC STARS List and Target Compound List volatiles); Target Compound List (TCL) semi-volatile organic compounds (SVOCs); Target Analyte List (TAL) inorganic compounds; and polychlorinated biphenyls (PCBs).

#### 2.1.3 Soil Characterization Test Pits

On October 23, 2001, Benchmark completed 10 soil characterization test pits (TP-1 through TP-10) across the 295 Maryland Street parcel (see Figure 4). Each test pit was completed to a depth of 8 fbgs or refusal, whichever occurred first.

At each location, Benchmark recorded pertinent field observations including fill types; depth to native soil (if encountered); visual or olfactory evidence of contamination; and photoionization detector (PID) readings. The investigation test pit lithology was similar



to the EM test pits, with the upper 6 inches to 1 foot of soil at each test pit location generally comprised of topsoil and clayey soils mixed with fragments of brick and stone. Approximately 2-3 feet of reworked clay fill generally underlies this upper fill layer followed by a thin (2 to 4-inch) historic topsoil layer. Deeper native soils are characterized by brown clayey soils containing some silt. Appendix B includes the test pit logs summarizing these field observations.

Benchmark collected separate composite samples of the surficial (0-6" below grade) and subsurface (1' below grade to completion) soils from each test pit. Samples were either retrieved using a stainless steel trowel or the backhoe bucket, depending on sample depth. All shallow (0-6") samples were collected for analysis of TCL SVOCs, PCBs, and TAL inorganic compounds. Deeper samples (6" to completion) were collected for these same parameters as well as TCL VOCs. All environmental samples were cooled to 4°C and transferred under chain-of-custody to Friend Laboratory for analysis in accordance with USEPA Method SW-846 protocols.

#### 2.2 2010-2011 Supplemental Investigation Approach

In September 2010, Benchmark performed a preliminary groundwater investigation in support of the BCP application. Four groundwater monitoring wells (MW-1 to MW-4) were installed to allow for collection of representative groundwater samples across the Site and determine groundwater elevation and flow direction. The wells were initially sampled in September 2010 and resampled for select parameters in March 2011. In addition, the drill rig advanced one soil boring (deemed SB-5) on the 129 West Avenue parcel to establish soil lithology and allow for sample collection on that property, which was not assessed during the 2001 Phase II investigation.

#### 2.2.1 Soil Borings

On September 13-14, 2010, Earth Dimensions, Inc. (retained by Benchmark) drilled four well borings and soil boring SB-5 using 4<sup>1</sup>/<sub>4</sub>-inch hollow stem augers. As shown on the field borehole logs in Appendix C, 2-inch diameter split-spoon samples were collected at 2foot intervals continuously through the fill and into the native soil. Stratigraphic field borehole logs were prepared by a qualified geologist from ground surface to the bottom of the borehole. Borings MW-1 through MW-4 were drilled to a nominal depth of 22 fbgs, and



SB-5 to 6 fbgs. Each 2-foot split-spoon soil sample was scanned for total organic vapors with a MiniRae 2000 Photoionization Detector (PID) equipped with a 10.6 eV lamp. Soil descriptions, PID scan results, and visual/olfactory observations during boring advancement are recorded on the Field Borehole Logs in Appendix C. As indicated, there were no organic vapors detected above background levels or any visual observations of impact identified in any of the overburden soil samples with the exception of a trace PID reading (1.6 ppm) from 20 to 22 fbgs at MW-2.

Two soil samples were collected during soil boring advancement. Sample MW-3 (4-6') was collected to discretely characterize the native soil layer, as the 2001 program involved collection of a composite of subsurface soil/fill sample that straddled both the fill and native soil intervals. Sample SB-5 (0-2') was collected to characterize fill materials on the 129 West Avenue Parcel. Soil samples were collected using dedicated stainless steel sampling tools. Representative soil samples were placed in pre-cleaned sample bottles and submitted under chain-of-custody to TestAmerica Laboratories Inc., for analysis of TCL VOCs, TCL SVOCs, PCBs, pesticides, and TAL inorganic compounds.

#### 2.2.2 Monitoring Well Construction and Sampling

Following borehole advancement, monitoring wells were installed within soil borings MW-1 to MW-4 at the locations shown on Figure 4. Appendix C includes the monitoring well installation logs. The well screens were installed between approximately 12 and 22 fbgs and extended into the sandy silt layer underlying the native clay soils. The wells were constructed with 2-inch diameter, flush-joint Schedule 40 PVC, and completed in flush mount protective locking curb boxes. Benchmark developed the newly installed monitoring wells on September 18, 2010.

Benchmark surveyed the wells on October 12, 2010; elevations were made relative to an arbitrary vertical datum designated at 500.00 feet. Groundwater was sampled on September 23, 2010 and March 1, 2011. Prior to and immediately following collection of groundwater samples, field measurements for pH, specific conductance, temperature, turbidity, dissolved oxygen, water level, and visual and olfactory field observations were recorded on the forms provided in Appendix D.

Groundwater grab samples were collected from each monitoring well using dedicated disposable polyethylene bailers. The September 2010 samples were transferred into



laboratory provided pre-preserved sample vials for analysis of TCL VOCs, TCL SVOCs, Pesticides/PCBs, and TAL inorganic compounds as well as total cyanide. Samples collected on March 1, 2011 were analyzed for a subset of parameters based on detections during the first event. The samples were cooled to 4°C in the field, and transported under chain-of-custody to TestAmerica Laboratories, Inc. The soil and groundwater samples were analyzed using United States Environmental Protection Agency (USEPA) SW-846 methods, and a Category B deliverable package was prepared (see Appendix E). Appendix D contains the groundwater sampling summary logs.

#### 2.3 Soil BUD-Evaluation

A soil BUD-investigation was performed on September 18-20, 2013 to better assist in defining the volume of soil/fill materials potentially requiring remediation under a restrictedresidential use scenario and evaluate the possibility of reuse of some of the soil at another BCP Site. The work included the completion of 25 test pits designated as TP-1-13 through TP-25-13 (see Figure 4). Several of the test pits were directed toward areas of former dwellings on the property to characterize backfill of the basement areas. The test pits were advanced by Benchmark with a Komatsu PC150LC excavator to a maximum depth of approximately 14 fbgs. Soil/fill samples were generally characterized within each test pit in 2-foot intervals continuously from the ground surface through the test pit terminus. Table 1 summarizes the soil descriptions, PID scan results, and visual/olfactory observations for the pre-remedial test pit investigation. No evidence of gross impact was observed with the exception of elevated PID readings in two areas. As indicated on Figure 4 and Table 1, soil/fill PID screening during the test pit activities indicated field evidence of impact in two areas of concern (AOCs): AOC 1 as represented by test pit TP-6-13 (5.5 to 11 fbgs); and AOC 2 as represented by test pits TP-9-13 (4 to 14 fbgs) and TP-13-13 (0 to 7 fbgs). At these locations, PID readings greater than 100 ppm were reported along with moderate odor.

To further assess potential impacts across the Site and determine potential alternatives for beneficial reuse of excavated soil/fill, 10 composite soil/fill samples were selected for laboratory analysis from 10 test pits at varying depths. Composite subsurface soil/fill samples were transferred to laboratory supplied, pre-cleaned sample containers, stored on ice in a cooler, and transported to Alpha Analytical following chain of custody



procedures. Alpha Analytical is an independent, New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory. Table 2 summarizes the analytical program that was implemented. Appendix E contains the laboratory analytical data report.

#### 2.4 Investigation Findings

#### 2.4.1 Physical Soil Description

As represented by 45 test pits and 5 borings, the soil at the 295 Maryland Street Site consists of fill generally present at each location to a nominal depth between 3 and 4 fbgs, with deeper areas of fill identified in certain areas where former dwellings with basements were located. Reworked and native clay soils underlying a thin layer of native topsoil were typically encountered below the fill materials. No fill materials were encountered during advancement of well boring MW-1, suggesting that fill thickness thins toward West Avenue consistent with Site topography (see Figure 4). Groundwater was not encountered within the fill, excluding some instances of perched water over clayey soils. The fill material generally consists of fine-grained soil (silt and clay) with mixtures of brick, concrete, ash, slag, and varying types of metallic debris. Underlying the fill material was a layer of brown clayey soils containing some silt typically extending to approximately 15 fbgs (20 fbgs in MW-4). A sandy silt layer beneath the clay layer was saturated and represents the uppermost water bearing unit at the Site.

#### 2.4.2 Groundwater Contours

Table 3 summarizes the groundwater elevations measured on September 23, 2010. As shown on Figure 5, overburden groundwater flows toward the southwest. MW-2 is a downgradient well and MW-4 is an upgradient well for the Site.

#### 2.4.3 Soil Sample Results

Table 4 summarizes the analytical results of soil samples collected during the 2001 Phase II investigation, 2010 soil boring program, and 2013 pre-remedial investigation. Figure 4 shows the soil sample locations.



As indicated on Table 4, surficial (0-0.5') and subsurface (>0.5') soil testing identified several PAHs and five inorganic compounds at levels in excess of the NYSDEC SCOs for restricted-residential use (see Figure 7). The compounds detected above restricted-residential SCOs in at least one samples include: benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3)pyrene, dibenz(a,h)anthracene, arsenic, barium, cadmium, lead, and mercury.

Samples from AOC 1 (TP-6-13; 7-9') and AOC 2 (TP-9-13; 9-12') were tested using the toxic characteristic leaching procedure (TCLP) with the extract analyzed for VOCs via USEPA Method 1311. As indicated on Table 4, no VOCs were detected in the extract from either sample. The negligible total VOCs and absence of leachable VOCs in these AOCs suggest that the elevated PID readings and moderate odors are indicative of weathered petroleum from a historic release.

#### 2.4.4 Groundwater Sample Analytical Results

Table 5 summarizes the analytical results of the groundwater sampling. As indicated, select VOCs and SVOCs were detected in the sample from well MW-2 at concentrations above NYSDEC groundwater quality standards and guidance values (GWQS/GVs). The VOCs and SVOCs detected above these standards include: benzene, ethylbenzene, toluene, and xylenes (BTEX); 1,2,4-trimethylbenzene; isopropylbenzene; benzo(a)anthracene; and naphthalene, all of which are constituents of petroleum products (e.g., gasoline or diesel). No other VOCs or SVOCs exceeded GWQS/GVs. Individual VOC and SVOC concentrations at well MW-2 were less than 100 micrograms per liter (ug/L). The total VOC concentrations from each of the two sampling rounds were 196 and 263 ug/L, well below the 1,000 ug/L threshold typically employed for inactivation of petroleum spill sites. Benzo(a)anthracene and naphthalene are relatively immobile in groundwater (i.e., high octanol-water partition coefficient and low water solubility). Results of groundwater testing are presented on Figure 5 for the sampling done on March 1, 2011.

Pesticides were also detected in the groundwater from all four wells. Pesticide exceedances of the GWQS/GVs were reported in wells MW-2, MW-3, and MW-4 for one or more of the following: alpha-BHC, beta-BHC, dieldrin, gamma-chlordane, and heptachlor. Concentrations were all less than 1 ug/L. Higher levels of pesticides were identified in wells MW-4 (upgradient) and MW-3, suggesting groundwater transport onto the



Site from an upgradient source. Downgradient well MW-2 had one exceedance (beta-BHC) of the GWQS/GVs at a concentration of 0.06 ug/L during the September 23, 2010 sampling event. Well MW-1 did not contain any pesticide concentration above the GWQS/GVs.

Groundwater from all four wells contained levels of sodium greater than the GWQS. Groundwater from well MW-4 contained a slight exceedance of manganese (0.315 mg/L) as compared to the GWQS (0.3 mg/L). Sodium and manganese are naturally-occurring minerals. Their presence in the upgradient wells indicates ambient conditions.

#### 2.4.5 Chemicals of Potential Concern

Based on the foregoing, chemicals of potential concern (COPCs) in soil as defined by exceedances of restricted-residential SCOs include the following PAHs: benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3)pyrene, and dibenz(a,h)anthracene. In addition, the following inorganic compounds were detected in at least one sample in excess of the restricted-residential SCOs and are considered COPCs: arsenic, barium, cadmium, lead, and mercury.

Groundwater constituents that were identified above GWQS/GVs but were not otherwise identified in upgradient wells include VOC and SVOC compounds commonly associated with petroleum products (e.g., gasoline or diesel). Results of testing from the most recent groundwater sampling round (March 1, 2011) are presented on Figure 5. While groundwater samples from well MW-2 exceeded GWQS/GVs for certain petroleum VOCs and SVOCs, the concentrations present are not indicative of a large release; rather, these results are indicative of residual contamination in *de minimis* quantities. Further, the contaminants are subject to natural degradation due to sorption and biodegradation, and the likely source of VOCs has been removed (i.e., historic USTs). Consequently, the levels of VOCs will continue to naturally degrade over time. In addition, residents in Buffalo are serviced by municipal-supplied public water obtained from Lake Erie; therefore, exposure to contaminants is unlikely as there are no drinking water receptors and the environmental easement will prohibit the use of groundwater.

# 2.5 Conceptual Model

Historical usage of this Site as a manufacturing facility from the 1920s through 2000 included the use of solvents; petroleum products including gasoline (USTs) and hydraulic oil (maintenance lift); paints; and other hazardous materials. Import of non-virgin fill material as well as apparent releases from these manufacturing products/processes resulted in surface and subsurface soil impacts for SVOCs and inorganic compounds to a depth of approximately 1 to 4 fbgs across the Site, with deeper impacts identified in areas where basements were historically present. The SVOCs and inorganic compounds detected in the soil/fill are isolated to that medium as they are not mobile in groundwater nor are they subject to significant volatilization.

# 2.6 Fate and Transport of COPCs

The soil and groundwater sample analytical results were incorporated with the physical characterization of the Site to evaluate the fate and transport of COPCs in Site media. The mechanisms by which the COPCs can migrate to other areas or media are outlined below.

# 2.6.1 Airborne Pathways

Potential migration pathways involving airborne transport of non-volatile COPCs include erosion and transport of soil particles and sorbed chemical constituents in fugitive dust emissions.

# 2.6.2 Fugitive Dust

The chemicals present in soil/fill at elevated concentrations are considered nonvolatile substances that can be released to ambient air as a result of fugitive dust generation caused by wind erosion or physical disturbance of surface soil particles.

# 2.6.3 Waterborne Pathways

Chemicals in surface soils could be potentially transported via storm water runoff. Due to the relatively insoluble nature of the soil COPCs and presence of clayey soils above



the water table, chemical migration via leaching to groundwater from surface soil/fill is not considered a migration pathway.

#### 2.6.4 Groundwater Pathway

Concentrations of VOCs (primarily BTEX) and two SVOC compounds in groundwater do not represent a significant threat to on-site or off-site receptors. Public water is available and the environmental easement will prohibit the use of groundwater. The concentrations of the compounds detected are relatively low. The chemical properties (low water solubility and high octanol-water partition coefficient) coupled with the attenuation processes such as sorption and biodegradation makes the groundwater pathway insignificant. Other compounds detected in groundwater (low level pesticides and inorganic compounds) appear to be a result of upgradient off-site conditions or are otherwise ubiquitous.

# 2.6.5 Surface Water Runoff

Erosion and transport of surface soils and associated sorbed chemicals in surface water runoff is a potential migration pathway as the Site is sloped with sparse vegetation. The Site is surrounded by a combined sanitary/storm water sewer collection system (i.e., Buffalo Sewer Authority [BSA] collection and conveyance system), which provides a mechanism for controlled surface water transport, but will ultimately result in sediment capture in the BSA's grit chambers followed by disposal at a permitted sanitary landfill.

# 2.6.6 Exposure Pathways

Based on the conceptual model described in the previous section, the potentially complete exposure pathways through which Site contaminants could reach receptors at significant point concentrations include:

• On-site contact with surface and subsurface soil/fill and vapor intrusion into buildings.



# 3.0 **Remedy Selection**

#### 3.1 Remedial Action Objectives

The remedial actions for the 295 Maryland Street Site must satisfy Remedial Action Objectives (RAOs). RAOs are site-specific statements that convey the goals for minimizing substantial risks to public health and the environment and/or addressing specific environmental regulatory requirements. For the Site, appropriate RAOs have been defined as follows:

#### Groundwater

#### **RAOs for Public Health Protection**

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

#### **RAOs for Environmental Protection**

Remove the source of ground or surface water contamination.

#### <u>Soil</u>

#### **RAOs for Public Health Protection**

Prevent ingestion/direct contact with contaminated soil.

#### **RAOs for Environmental Protection**

• Prevent migration of contaminants that would result in groundwater or surface water contamination.

#### Soil Vapor

#### RAOs for Public Health Protection

• Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the site.

# 3.2 Alternative Evaluation Criteria

NYSDEC's Environmental Remediation Program calls for remedy evaluation in accordance with DER-10 Technical Guidance for Site Investigation and Remediation (Ref. 4) and set forth in 6NYCRR 375-1.8(f). The guidance provides for remedy evaluation for the nine criteria described below:

1. Overall protectiveness of public health and the environment. This criterion is an evaluation of the remedy's ability to protect public health and the environment, assessing how risks posed through each existing or potential pathway of exposure are eliminated, reduced, or controlled through removal, treatment, engineering controls, or institutional controls.



- **2. Standards, criteria, and guidance.** Compliance with SCGs addresses whether a remedy will meet applicable environmental laws, regulations, standards, and guidance. Table 6 summarizes the SCGs for the Site.
- **3.** Long-term effectiveness and permanence. A program or project that achieves a complete and permanent cleanup of the site is preferred over a program or project that does not do so. This criterion evaluates the long-term effectiveness of the remedy after implementation. If wastes or treated residuals remain on-site after the selected remedy has been implemented, the following items are evaluated: (i) the magnitude of the remaining risks (i.e., will there be any significant threats, exposure pathways, or risks to the community and environment from the remaining wastes or treated residuals), (ii) the adequacy of the engineering and institutional controls intended to limit the risk, (iii) the reliability of these controls, and (iv) the ability of the remedy to continue to meet RAOs in the future.
- 4. Reduction in toxicity, mobility, or volume of contamination through treatment. A program or project that permanently and significantly reduces the toxicity, mobility, or volume of contamination is to be preferred over a program or project that does not do so. This criterion evaluates the remedy's ability to reduce the toxicity, mobility, or volume of site contamination. Preference is given to remedies that permanently and significantly reduce the toxicity, mobility, or volume of the wastes at the site.
- 5. Short-term impacts and effectiveness. Short-term effectiveness is an evaluation of the potential short-term adverse impacts and risks of the remedy upon the community, the workers, and the environment during construction and/or implementation. This includes a discussion of how the identified adverse impacts and health risks to the community or workers at the site will be controlled, and the effectiveness of the controls. This criterion also includes a discussion of engineering controls that will be used to mitigate short term impacts (i.e., dust control measures), and an estimate of the length of time needed to achieve the remedial objectives.
- 6. Implementability. The implementability criterion evaluates the technical and administrative feasibility of implementing the remedy. Technical feasibility includes the difficulties associated with the construction and the ability to monitor the effectiveness of the remedy. For administrative feasibility, the availability of the necessary personnel and material is evaluated along with potential difficulties in obtaining specific operating approvals, access for construction, etc.
- 7. Cost-effectiveness, including capital costs and annual site maintenance plan costs. Capital, operation, maintenance, and monitoring costs are estimated for the remedy and presented on a present worth basis.
- 8. Land Use. This is an evaluation of the current, intended, and reasonably intended future use of the site. In developing and screening remedial alternatives, NYSDEC's Part 375 regulations require that the reasonableness of the anticipated future land be



factored into the evaluation. The regulations identify 15 criteria that must be considered. Appendix F presents these criteria and the resultant outcome for the 295 Maryland Site. As indicated, this evaluation supports residential use as the reasonably anticipated future use of the Site, which is consistent with historic use of the neighborhood. Accordingly, remedial alternatives to clean up the Site to restricted-residential end use are identified and evaluated herein.

**9. Community acceptance**. This criterion evaluates the public's comments, concerns, and overall perception of the remedy, and is generally gauged through public comment of the NYSDEC's Decision Document.

# 3.3 Technology Evaluation

The types of technologies that could be implemented at the Site are limited based on the exposure scenarios and the recalcitrant nature of the inorganic compounds and PAHs to treatment technologies such as soil washing and chemical oxidation. Accordingly, technologies that can be used under these conditions and to address the COCs identified herein are generally limited to excavation and off-site disposal or capping.

# 3.4 Alternative Evaluation

The Site is intended to be used for residential (apartment) purposes. As such, the alternatives include options to achieve a restricted-residential end use. In addition, the least restricted-use (i.e., unrestricted) scenario is evaluated consistent with the requirements of NYSDEC DER-10. The following alternatives are evaluated relative to the criteria outlined in Section 3.2:

- Unrestricted use SCOs (Track 1)
- Restricted-residential use SCOs (Track 2) with institutional controls (ICs)
- Restricted-residential use using site-specific action levels (Track 4) with IC/ECs

# 3.4.1 Alternative 1: Remediate to Unrestricted-Use Conditions (Track 1)

Alternative 1 consists of excavation and off-site disposal of all soil/fill that contains chemical constituents at concentrations greater than the 6NYCRR Part 375 unrestricted-use SCOs and/or is considered grossly contaminated media. Achieving Track 1 remediation goals generally obviates the need for IC/ECs; however, under this scenario a groundwater restriction may be required to preclude groundwater use without treatment unless data can



be generated to show that groundwater meets Class GA GWQS/GVs following completion of the removal work.

Exceedances of the Part 375 unrestricted-use SCOs were noted in the majority of soil/fill samples collected at the Site, primarily for PAHs and select metals. Due to the highly ubiquitous nature of the constituents observed in Site soil/fill and the extent to which they exceeded the unrestricted-use SCO values, it is likely that this alternative would require removal of soil/fill materials across the entire Site footprint as well as deeper areas in the AOCs (i.e., in the vicinity of test pits TP-6-13 and TP-9-/TP-13-13) where PID impacts extend into the underlying native soils. Based on these assumptions, Figure 6 illustrates the areas and approximate depths of soil/fill removal that would be expected under this alternative. The volume of impacted soils/fill across the Site that would be excavated, loaded, transported and landfilled is estimated at 10,900 cubic yards (i.e., approximately 17,500 tons).

The excavated soil/fill is assumed be non-hazardous and would therefore be transported to a commercial solid waste disposal facility. Excavated materials would require handling and preparation prior to off-site transportation and disposal. Excavated areas would be backfilled with material meeting the BCP criteria presented in DER-10 and 6NYCRR Part 375 to the design (i.e., redevelopment) subgrade elevations and grades, and all disturbed areas would be restored with topsoil and grass seeding or hardscape.

**Overall Protectiveness of Public Health and the Environment** – Excavation and off-site disposal to unrestricted-use SCOs would be protective of public health under the intended reuse scenario (i.e., apartments with municipal water service). However, this alternative would permanently use and displace approximately 11,000 cubic yards (CY) of valuable landfill airspace, and would require excavating, transporting, and placing a similar number of CY of clean soil from an off-site borrow source to backfill the excavation, also contributing to significant detrimental off-site environmental issues.

*Compliance with SCGs* – Excavation and off-site disposal work under this alternative would need to be performed in accordance with applicable, relevant, and appropriate SCGs. Soil excavation activities would necessitate preparation of and adherence to a community air monitoring plan (CAMP) in accordance with Appendices 1A and 1B of DER-10.



*Long-Term Effectiveness and Permanence* – This alternative would remove all impacted soil/fill and therefore provides long-term effectiveness and permanence.

**Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment** – Through removal of all impacted soil/fill, this alternative would permanently and significantly reduce the toxicity, mobility, and volume of contamination on the Site. However, since this alternative transfers Site soil/fill from one environment to another, an overall reduction of toxicity and volume would not occur, although mobility of soluble constituents would be reduced in the commercial landfill with a liner, leachate collection, and cover system.

Short-Term Impacts and Effectiveness – The principal advantage of a large-scale excavation to achieve unrestricted-use SCOs is reliability of the remedy in the long-term. However, the short-term adverse impacts and risks to the community, workers, and environment during implementation of this alternative are significant. Potential accidents from heavy truck traffic would be expected as the excavation work would require removal of approximately 800 truckloads of soil/fill through narrow residential streets servicing the property and import of a similar number of clean loads from the borrow source. Dust control methods would be required to limit the release of particulates during placement of the backfill soils; however, substantial disruption of the neighboring community would occur due to material transport and deliveries and noise from heavy equipment used to construct the remedy. This action would result in storm water impacts at the borrow source(s) and onsite, and diesel fuel consumption on the order of 6,500 gallons (assuming 65 miles round trip to a local landfill; 8 miles per gallon), with an equal number of gallons likely consumed by excavation and grading equipment and backfill delivery trucks. The USEPA's estimated CO<sub>2</sub> generation rate for diesel engines is approximately 22.2 pounds per gallon of diesel consumed. Accordingly, this alternative would produce over 288,000 pounds of greenhouse gas. The RAOs would be achieved once the soil/fill is removed from the Site (est. 3 months).

*Implementability* – Certain technical implementability issues would be encountered in construction of this unrestricted-use alternative. These issues may include, but are not limited to: shoring/stabilizing excavation sidewalls to prevent sloughing during excavation;



groundwater and/or storm water handling; and traffic coordination for trucks entering and exiting the Site.

*Cost-Effectiveness* – The remedial costs for implementation of Alternative 1 are estimated at \$1.37 million and detailed on Table 7.

*Land Use* – This alternative is consistent with the reasonably anticipated future use of the Site.

*Community Acceptance* – Community acceptance will be evaluated based on comments received from the public on the draft Decision Document. However, significant short-term disruption may result in complaints by neighbors during construction.

# 3.4.2 Alternative 2: Remediate Site to Restricted-Residential SCOs with ICs (Track 2)

This remedial scenario is aimed at removal of soil/fill across the Site such that no materials remain within the upper 15 feet in excess of the restricted-residential use SCOs. Exceedances of the restricted-residential SCOs were commonly found in the surface and near surface (0-4 fbgs) soil/fill materials across much of the Site, excluding the northeastern area of the property (fill materials were encountered in this area of the Site but not sampled and, as such, this area may also contain fill in excess of restricted-residential SCOs). Similar to Alternative 1 deeper soil contamination (grossly contaminated soils from apparent weathered petroleum products) exists to a limited extent in the natural soils proximate to test pits TP-6-13 and TP-9-13/TP-13-13.

Based on the assumption that this alternative would address only the known areas of restricted-residential SCO exceedances and/or grossly impacted soil/fill, Figure 7 illustrates the areas and approximate depths of soil/fill removal that would be expected. The estimated volume of impacted soil/fill across the Site that would be excavated, loaded, transported and landfilled under this alternative is estimated at 7,400 CY (i.e., approximately 11,800 tons). Post-excavation confirmatory sampling would be performed to verify achievement of the restricted-residential SCOs, the absence of nuisance conditions, and low PID readings.

The excavated soil/fill is assumed to be non-hazardous and would therefore be transported to a commercial solid waste disposal facility. Excavated materials would require



handling and preparation prior to off-site transportation and disposal. Excavated areas would be backfilled with material meeting the BCP criteria presented in DER-10 and 6NYCRR Part 375 to the design (i.e., redevelopment) subgrade elevations and grades, and all disturbed areas would be restored with topsoil and grass seeding or hardscape.

Because the alternative would not achieve unrestricted use conditions, ICs would be required. Specifically, an Environmental Easement would be prepared and filed limiting Site use to restricted-residential or a more restrictive end use and precluding the use of on-site groundwater without treatment. A Site Management Plan (SMP) would also be prepared to ensure that the ICs are followed, with annual certifications provided via a Periodic Review Report (PRR). An SMP describes the ICs/ECs, if any, and includes the following components: an IC/EC Plan; Operations and Maintenance (O&M) Plan; and Excavation Work Plan; a Site Monitoring Plan; and a copy of the Environmental Easement.

**Overall Protection of Public Health and the Environment** – Alternative 2 will achieve removal of soil/fill within the areas exhibiting soil contaminant concentrations in excess of restricted-residential SCOs to a nominal depth of 15 feet. As such Alternative 2 is protective of public health and the environment under the intended reuse scenario, and will successfully achieve the RAOs for the Site.

*Compliance with SCGs* – Excavation and off-site disposal under this alternative would need to be performed in accordance with applicable, relevant, and appropriate SCGs. Soil excavation activities would necessitate preparation of and adherence to a CAMP in accordance with Appendices 1A and 1B of DER-10.

*Long-Term Effectiveness and Permanence* – Excavation of the impacted soil/fill will achieve removal of effectively all soil/fill with exceedances of restricted-residential SCOs within the work limits. As such, this alternative provides long-term effectiveness and permanence.

**Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment** – Through removal of all soil/fill exceeding the restricted-residential SCOs, this alternative would permanently and significantly reduce the toxicity, mobility, and volume of contamination on the Site. However, since this alternative transfers Site soil/fill from one



environment to another, an overall reduction of toxicity and volume would not occur, although mobility of soluble constituents would be reduced in the commercial landfill with a liner, leachate collection, and cover system.

*Short-Term Effectiveness* – The short-term adverse impacts and risks to the community, workers, and environment during implementation of this alternative are similar to those discussed for Alternative 1. Alternative 2 is expected to achieve the RAOs for the Site within approximately 2-3 months after initiation of the work.

*Implementability* – Technical implementability issues expected with this alternative are similar to those under Alternative 1.

*Cost* – The capital cost of Alternative 2 is estimated at \$1.0 million. Annual OM&M costs for annual certifications are estimated to be \$2,500. Therefore, the 30-year present worth of the remedial cost to implement Alternative 2 is estimated at \$1.05 million. Table 8 provides a breakdown of these remedial costs.

*Land Use* – This alternative is consistent with the reasonably anticipated future use of the Site.

*Community Acceptance* – Community acceptance will be evaluated based on comments received from the public on the draft Decision Document. However, significant short-term disruption may result in complaints by neighbors during construction.

#### 3.4.3 Alternative 3: Remediate Site to SSALs and Place Cover (Track 4)

Per 6NYCRR Part 375-3.8(e)(4), Track 4 soil cleanups use site-specific information to identify site-specific SCOs (or site-specific action levels; SSALs) that are protective of public health and the environment under a restricted-use scenario. For Track 4 remedies, restrictions can be placed on the use of the property in the form of IC/ECs if they can be realistically implemented and maintained in a reliable and enforceable manner. For restricted-residential use, the top two feet of all exposed soils that are not otherwise covered by the components of the development of the site (e.g. buildings, pavement) cannot exceed the restricted-residential SCOs. Areas that exceed the restricted-residential SCOs must be



covered by material meeting the requirements of the generic soil cleanup table contained in 6NYCRR Part 375-6.7(d) for restricted-residential future Site use.

In determining the SSALs that will be employed under the Track 4 cleanup approach, it is necessary to consider: 1) the need to remediate grossly impacted soil/fill (such as those in the AOCs exhibiting weathered petroleum impact) where feasible per NYSDEC cleanup policy; and 2) the exposure scenario of the construction or maintenance worker who may need to perform periodic grounds keeping or other subsurface work (e.g., utility repairs) involving work beneath the cover system. Toward that end, Alternative 3 would include:

- Removal and off-site disposal of soil/fill that is characterized by weathered petroleum products (i.e., the AOCs associated with TP-6-13 and TP-9-/TP-13-13 and any other areas of grossly impacted soil/fill that might be encountered during construction).
- Removal and off-site disposal of soil/fill where total PAHs exceed 500 mg/kg (i.e., NYSDEC CP-51 total PAH guidance for non-residential sites; Ref. 5), and removal and off-site disposal of soil/fill where other parameter concentrations exceed Industrial SCOs<sup>1</sup> (see Figure 8).
- Placement of a site-wide soil cover system, including a demarcation layer (e.g., orange plastic netting) and at least two feet of approved cover material in areas not covered by impervious/hardscape materials such as asphalt driveways and parking lots, and concrete slabs or walkways. Hardscape cover outside the building footprint would be a minimum of 6 inches thick.
- Filing of an Environmental Easement limiting site use to restricted residential or more restrictive end uses, precluding the use of on-site groundwater without treatment, and requiring adherence to a Site Management Plan (SMP). The SMP would be prepared to ensure that the ICs are followed and that the ECs (cover system) are maintained, with annual certifications provided via a Periodic Review Report (PRR).

The volume of soil/fill to be excavated, loaded, transported, and landfilled under Alternative 3 is estimated at 2,065 CY (i.e., approximately 3,300 tons).

<sup>&</sup>lt;sup>1</sup> The Industrial SCOs are deemed protective of human health for outdoor workers who contact soils on a routine basis (twice per week), and are therefore conservative when considered as an initial screening criterion for establishing SSALs under a Track 4 scenario. For PAHs, the alternative Soil Cleanup Level of 500 mg/kg total PAHs for non-residential sites was employed in lieu of individual Industrial SCOs per NYSDEC CP-51 Soil Cleanup Guidance on the premise that the Track 4 cleanup will include institutional controls (Environmental Easement and Site Management Plan).



**Overall Protectiveness of Public Health and the Environment** – This alternative meets NYSDEC requirements for a Track 4 cleanup under the BCP regulations and is protective of public health and the environment. The RAOs for the Site would be satisfied through the completed and planned remedial activities, including: removal and off-site disposal of soil/fill AOCs; removal and off-site disposal of soil/fill exceeding SSALs; installation of cover systems (soil and imperious) across the Site; and the enforced use of IC/ECs to prevent potential future exposure and limit the future Site use to restricted-residential applications.

*Compliance with SCGs* – The remedial activities will need to be performed in accordance with applicable, relevant, and appropriate SCGs. Imported cover material would need to meet backfill quality criteria per DER-10 and 6NYCRR Part 375. Subgrade preparation activities will need to adhere to a CAMP in accordance with Appendices 1A and 1B of DER-10.

Long-Term Effectiveness and Permanence – Removal of soil/fill AOCs and impacted soil/fill exceeding the SSALs as well as construction of a cover system will mitigate direct contact with soil/fill exceeding applicable SCOs. Periodic inspection and maintenance of the soil cover as well as the hardscape cover (e.g., asphalt roads, concrete walkways, and parking areas, etc.) will be required to assure long-term cover integrity. The SMP will include: an O&M Plan to confirm that ECs, including the cover systems, are operating and being maintained in accordance with the SMP; an Excavation Work Plan to address any impacted soil/fill encountered during post-development maintenance activities; and a Site-wide inspection program to assure that the IC/ECs placed on the Site have not been altered and remain effective. Furthermore, an Environmental Easement for the Site will be filed with Erie County, which will limit the future use of the Site to restricted-residential use, restrict groundwater use, and reference the NYSDEC-approved SMP. As such, this alternative will provide long-term effectiveness and permanence.

**Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment** – Removal of soil/fill AOCs and soil/fill exceeding SSALs followed by placement of cover systems will permanently and significantly reduce the toxicity, mobility, and volume of the soil/fill that could potentially be contacted or produce localized areas of environmental impact at the Site. Accordingly, this alternative satisfies this criterion.



*Short-Term Effectiveness and Impacts* – During intrusive remedial activities, air monitoring will be performed to assure conformance with the CAMP action levels. The potential for chemical exposures and physical injuries will be addressed through safe work practices; proper personal protection equipment (PPE); environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. Excavation of the soil/fill AOCs is expected to be completed within a 2-week period, thereby limiting short-term adverse effects. This alternative will achieve the RAOs for the Site once the cover system is in place and the Environmental Easement is filed.

*Implementability* – No significant technical or administrative implementability issues are associated with this alternative.

**Cost-Effectiveness** – The estimated capital cost for Alternative 3 is \$370,000 including: soil/fill removal; construction of a 2-foot soil cover system in landscaped areas; development and filing of an Environmental Easement; and preparation of an FER and SMP. Annual OM&M costs for cover maintenance and annual certifications are estimated to be \$3,000. Therefore, the 30-year present worth of the remedial cost to implement Alternative 3 is estimated at \$432,000. Table 9 provides a breakdown of these remedial costs.

*Land Use* – Based on the land use evaluation presented in Appendix F, reuse of the Site in a restricted-residential capacity is consistent with past and current development and zoning on-site and within the vicinity of the Site, and does not pose additional environmental or public health risks.

*Community Acceptance* – Community acceptance will be evaluated based on comments received from the public on the draft Decision Document.

# 3.4.4 Alternative 3A: Remediate Site to SSALs (Additional Soil/Fill Removal) and Place Cover (Track 4)

Alternative 3A is similar to Alternative 3; however, under this alternative the volume of soil/fill to be excavated prior to cover placement would be expanded to improve the quality of the remaining soil/fill and further reduce the risk from exposure to residual concentrations in the event of cover system failure or breach. Specifically this alternative would involve:



• Removal and off-site disposal of an estimated 2,065 CY (same area and criteria as Alternative 3) with the addition of the following areas (see Figure 9):

- Soil/fill surrounding TP-25-13, where elevated mercury concentrations were identified in the composite sample from 0.5-4 fbgs. It is suspected that the elevated concentration is associated with shallow fill materials. Excavation in this area will proceed with a goal of achieving commercial SCOs<sup>2</sup> or better for mercury.

- Soil/fill surrounding TP-7, where elevated lead and barium levels were identified in the composite sample from 0.5-4 fbgs. It is suspected that the elevated concentrations are associated with shallow fill materials. Excavation in this area will proceed with a goal of achieving commercial SCOs or better for lead and barium.

- Soil/fill surrounding TP-10, where elevated PAH levels were identified primarily in the composite sample from 0-0.5 fbgs. Although total PAHs were reported below the CP-51 level of 500 mg/kg, this area represents an outlier with respect to other soil/fill that will remain under the Track 4 approach. Accordingly, excavation in this area will proceed with a goal of achieving total PAHs less than 100 mg/kg consistent with other ubiquitous soil/fill on-site.

• Placement of a site-wide soil cover system, including a demarcation layer (e.g., orange plastic netting) and at least two feet of approved cover material in areas not covered by impervious/hardscape materials such as asphalt driveways and parking lots, and concrete slabs or walkways. Hardscape cover outside the building footprint will be a minimum of 6 inches thick.

• Filing of an Environmental Easement: limiting Site use to restricted-residential or a more restrictive end use; precluding the use of on-site groundwater without treatment; and requiring adherence to an SMP. The SMP would be prepared to ensure that the ICs are followed and that the ECs (cover system) are maintained, with annual certifications provided via a PRR.

<sup>&</sup>lt;sup>2</sup> Per the September 2006 NYSDEC/NYSDOH Technical Support Document, Commercial SCOs are protective of dermal, inhalation and ingestion exposures, including those by child receptors, on a routine basis but at a reduced frequency and duration than those under a restricted residential scenario.



The volume of soil/fill to be excavated, loaded, transported, and landfilled under this Alternative is estimated at 2,200 CY (3,520 tons).

**Overall Protectiveness of Public Health and the Environment** – This alternative meets NYSDEC requirements for a Track 4 cleanup under the BCP regulations and is protective of public health and the environment. The RAOs for the Site would be satisfied through the completed and planned remedial activities, including: removal and off-site disposal of soil/fill AOCs; removal and off-site disposal of soil/fill exceeding the SSALs; installation of cover systems (soil and imperious) across the Site; and the enforced use of IC/ECs to prevent potential future exposure and limit the future Site use to restricted-residential applications.

*Compliance with SCGs* – The remedial activities will need to be performed in accordance with applicable, relevant, and appropriate SCGs. Imported cover material would need to meet backfill quality criteria per DER-10 and 6NYCRR Part 375. Subgrade preparation activities will need to adhere to a CAMP in accordance with Appendices 1A and 1B of DER-10. The remedial actions are expected to be fully protective of public health and the environment once the cover is placed and the easement is filed.

Long-Term Effectiveness and Permanence – Removal of soil/fill AOCs and impacted soils exceeding the SSALs as well as construction of a cover system will mitigate direct contact with soil/fill exceeding applicable SCOs. Periodic inspection and maintenance of the soil cover as well as the hardscape cover (e.g., asphalt roads, concrete walkways, and parking areas, etc.) will be required to assure long-term cover integrity. The SMP will include: an O&M Plan to confirm that ECs, including the cover systems, are operated and maintained in accordance with the SMP; an Excavation Work Plan to address any impacted soil/fill encountered during post-development maintenance activities; and a Site-wide inspection program to assure that the IC/ECs placed on the Site have not been altered and remain effective. Furthermore, an Environmental Easement for the Site will be filed with Erie County, which will limit the future use of the Site to restricted-residential use, restrict groundwater use, and reference the NYSDEC-approved SMP. As such, this alternative will provide long-term effectiveness and permanence.



**Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment** – Removal of soil/fill AOCs and soil/fill exceeding SSALs followed by placement of cover systems will permanently and significantly reduce the toxicity, mobility, and volume of the soil/fill that could potentially be contacted or produce localized areas of environmental impact at the Site. Accordingly, this alternative satisfies this criterion.

*Short-Term Effectiveness and Impacts* – During intrusive remedial activities air monitoring will be performed to assure conformance with CAMP action levels. The potential for chemical exposures and physical injuries will be addressed through safe work practices; proper PPE; environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. Excavation of the soil/fill AOCs and other areas is expected to be completed within a 2-week period, thereby limiting short-term adverse effects. This alternative will achieve the RAOs for the Site once the cover system is in place and the Environmental Easement is filed.

*Implementability* – No significant technical or administrative implementability issues are associated with this alternative.

*Cost-Effectiveness* – The estimated capital cost for Alternative 3A is \$393,000 including: soil/fill removal; construction of a 2-foot soil cover system in landscaped areas; development and filing of an Environmental Easement; and preparation of an FER and SMP. Annual OM&M costs for cover maintenance and annual certifications are estimated to be \$3,000. Therefore, the 30-year present worth of the remedial cost to implement Alternative 3A is estimated at \$455,000. Table 10 provides a breakdown of these remedial costs.

*Land Use* – Based on the land use evaluation presented in Appendix F, reuse of the Site in a restricted-residential capacity is consistent with past and current development and zoning on-site and within the vicinity of the Site, and does not pose additional environmental or public health risks.

*Community Acceptance* – Community acceptance will be evaluated based on comments received from the public on the draft Decision Document.



#### 3.4.5 Comparison of Remedial Alternatives

The remedial alternatives evaluated above are compared below using the same screening criteria.

**Overall Protectiveness of Public Health and the Environment** – Each of the alternatives is protective of public health and the environment. Alternatives 2, 3, and 3A require ICs (environmental easements) to assure protection of site users; Alternatives 3 and 3A also require ECs (cover systems) to prevent exposures to soil/fill above the restricted-residential SSALs. Alternative 3A would yield lower residual concentrations beneath the cover than Alternative 3, which would reduce short-term risks due to cover system failure.

*Compliance with SCGs* – Each of the alternatives will need to be performed in accordance with applicable, relevant, and appropriate SCGs. Imported subgrade backfill under each alternative as well as imported cover material under Alternatives 3 and 3A would need to meet import quality criteria per DER-10 and 6NYCRR Part 375. Subgrade preparation activities under all of the alternatives will need to adhere to a CAMP in accordance with Appendices 1A and 1B of DER-10.

*Long-Term Effectiveness and Permanence* – Each of the alternatives provides long-term remedy effectiveness and permanence. Alternatives 2, 3, and 3A require development and continued enforcement of ICs (environmental easements) to assure continuing effectiveness and permanence, and Alternatives 3 and 3A also require continued maintenance of the cover systems.

**Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment** – Removal of soil/fill exceeding SCOs will permanently and significantly reduce the toxicity, mobility, and volume of the soil/fill that could potentially be contacted or produce localized areas of environmental impact at the Site; however, each of the alternatives relies on off-site disposal resulting in no overall reduction of toxicity or volume.

Short-Term Effectiveness and Impacts – Short-term impacts attributable to dust and organic vapor migration will need to be addressed under each of the alternatives via air monitoring and mitigation in conformance with the CAMP. The potential for chemical exposures and physical injuries under each alternative will be addressed through safe work



practices; proper PPE; environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. Potential significant short-term disruption of the neighborhood due to noise and traffic issues is associated with Alternatives 1 and 2. Alternatives 3 and 3A would be less disruptive as they will be completed over a shorter time period.

*Implementability* – No significant technical or administrative implementability issues are associated with Alternatives 3 or 3A. Technical implementability issues associated with Alternatives 1 and 2 may include, but are not limited to: additional work to shore/stabilize excavation sidewalls to prevent sloughing during excavation; groundwater and/or storm water handling; and traffic coordination for trucks entering and exiting the Site.

*Cost-Effectiveness* – The estimated 30-year present worth cost for Alternatives 1, 2, 3, and 3A are \$1.37 million; \$1.05 million; \$432,000, and \$455,000.

*Land Use* – Each of the alternatives proposes Site use in a restricted-residential capacity consistent with past and current development and zoning on-site and within the vicinity of the Site.

*Community Acceptance* – Community acceptance of the selected alternative will be evaluated based on comments received from the public on the draft Decision Document.

#### 3.4.6 Recommended Remedial Alternative

The recommended remedial approach for the Site is *Alternative 3A:* Restricted-Use (*Track 4*) Cleanup because it is: protective of public health and the environment; significantly less disruptive to the community than Alternatives 1 and 2; consistent with current and future land use; and a more cost-effective approach than Alternatives 1 or 2 while fully satisfying the RAOs for the Site. Although Alternative 3A requires a higher capital investment than Alternative 3, it provides greater protection of public health because residual concentrations would be lower, resulting in reduced short-term risk if the cover system fails or is breached. In summary, Alternative 3A involves:



• Excavation and off-site disposal of soil/fill in the areas identified on Figure 9. Post-excavation confirmatory samples would be collected to assure absence of gross impact (elevated PID, visual and/or olfactory evidence of impact), and that residual concentrations of metal COCs fall below commercial SCOs with total PAHs falling below 100 mg/kg consistent with ubiquitous conditions across the site. Excavation would continue as reasonable and warranted to achieve these goals.

• Placement of a vapor barrier (greater than 10-mil) beneath the reinforced concrete floor slab of the apartment building and future buildings to prevent against potential vapor intrusion. Although not required based on current vapor intrusion guidance, this is considered a preventative measure based on elevated PID readings measured in soil/fill and low petroleum VOC levels in one of the monitoring wells. Alternatively, the building may be constructed with a vented crawl space to allow for utility access only (i.e., not for storage or occupancy), in which case vapor barrier would not be necessary. The effectiveness of the vapor barrier needs to be evaluated during the heating season after completion of the construction. Whether a vapor barrier is installed or is not installed, as per the approved Decision Document for the site, either an active SSDS should be installed on any newly constructed buildings on-site or the potential for VI should be evaluated after construction and prior to occupancy and possibly again during the heating season to characterize worst case conditions.

• Placement of a cover system across the entire BCP Site. This will be comprised of a demarcation layer and at least two feet of approved soil cover material in landscaped areas, or impervious materials such as asphalt driveways and parking lots, and concrete building foundations, slabs, or walkways in non-vegetated areas. Approved soil cover material will meet NYSDEC DER-10 standards for restricted-residential sites (i.e., lower of Part 375 public health or groundwater protection values for restricted-residential use sites). Hardscape material outside of the building footprint will be at least 6 inches thick.

• Implementation of an SMP that will include:

o IC/EC Plan describing ECs that: include any physical barrier or method employed to actively or passively contain, stabilize, or monitor contaminants; restrict the movement of contaminants; or eliminate potential exposure pathways to contaminants; and



ICs that include restrictions on groundwater use and Site use for restricted-residential purposes.

• Excavation Work Plan to assure that future intrusive activities and soil/fill handling at the Site are completed in a safe and environmentally responsible manner.

• Site Monitoring Plan that includes provisions for a Site-wide inspection program to assure that the IC/ECs have not been altered and remain effective.

• Environmental Easement filed with Erie County.

Section 4.0 is the Remedial Action Work Plan (RAWP) that summarizes the components and details of the proposed remedial action.



## 4.0 REMEDIAL ACTION WORK PLAN

## 4.1 **Purpose and Scope**

This section of the Remedial Action Work Plan (RAWP) describes the excavation and off-site disposal of impacted soil/fill and cover system placement. The primary tasks of the planned remedial work are:

- Testing of the soil/fill to develop a waste profile.
- Excavation of impacted soil/fill across the Site to achieve SSALs.

• Verification sampling on a grid basis to determine residual concentrations and assess the need for additional excavation.

• Off-site transportation and disposal of impacted soil/fill at a permitted solid waste disposal facility. Any additional soil/fill requiring removal to enable a minimum two feet of cover in the "green" areas and allow for hardscape, utilities, or building areas will be subject to off-site transportation and disposal as well.

The RAWP also addresses the following tasks:

- Pre-mobilization
- Health, safety, and community air monitoring procedures

• Dust, storm water, and erosion control measures required for minimizing potential release of soils outside the work zone during construction

- Equipment decontamination requirements
- Remedial action documentation
- Implementation scheduling
- Post-remedial Site Management Plan



## 4.2 **Pre-Mobilization Tasks**

### 4.2.1 Public Information and Outreach

It is expected that the NYSDEC will issue a draft Decision Document for NYSDOH review and public comment. A fact sheet announcing the draft Decision Document will be transmitted to those individuals on the Brownfield Site Contact List, including property owners and residents adjacent to the Site; environmental groups; local political representatives; and interested regulatory agencies. Furthermore, a copy of the RAWP will be made available for public review at the NYSDEC Region 9 office and the Niagara Branch of the Buffalo and Erie County Public Library, the designated document repository.

## 4.2.2 Underground Utilities Location

The remediation contractor will contact underground facilities protection organization (Dig Safely New York, UFPO) to locate utility lines within the work area.

## 4.2.3 Health and Safety Plan Development

A Health and Safety Plan (HASP) will be prepared and enforced by the remediation contractor in accordance with the requirements of 29 CFR 1910.120. The HASP will cover all on-site remedial activities. Benchmark will be responsible for Site control and for the health and safety of its authorized Site workers. For informational purposes, Benchmark's HASP is provided in Appendix G. The remediation contractor will be required to develop a HASP as or more stringent than Benchmark's HASP.

### 4.2.4 Waste Disposal Characterization

Benchmark and the remediation contractor will coordinate with the Solid Waste Disposal Facility (SWDF) for disposition of the soil/fill to be removed from the Site. Although 295 Maryland, LLC has no knowledge of any hazardous waste disposal on the Site, the soil/fill must be tested to verify that it does not exceed characteristic hazardous waste thresholds. A composite sample(s) will be prepared from representative areas of soil/fill planned for removal by compositing discrete samples of soil/fill at a frequency agreeable to the SWDF. The composite sample(s) will be tested by the Toxic



Characteristic Leaching Procedure (TCLP) for the full list of regulated toxicity indicator parameters, as well as ignitability, corrosivity, and total PCBs. For the purposes of the discussion below, the assumption has been made that the impacted soil/fill is nonhazardous. If the soil/fill is determined to be characteristically hazardous, the RAWP will be modified.

## 4.3 Remedial Activities

### 4.3.1 Mobilization and Site Preparation

The remediation contractor's field operations at the Site will commence with mobilizing equipment and materials to the Site, and erecting safety fencing and other temporary controls as described below.

## 4.3.2 Temporary Facilities and Controls

Temporary facilities for use during the remedial work may include a construction field trailer and portable toilets. Temporary controls will be employed for protection against off-site migration of soil and safety hazards during construction, including safety fencing, dust suppression, and erosion control as further described below.

## 4.3.2.1 Access Controls

Temporary safety construction fencing (i.e.,6-foot chain link) will be placed around the perimeter of the work area(s) to distinguish the work zone and discourage trespassing. The fencing will not be removed until the excavation/ backfilling work is complete.

As a requirement of the BCP, a sign will be placed along Maryland Street to identify the property as a BCP Site.

## 4.3.2.2 Dust Monitoring and Controls

A CAMP will be implemented during Site excavation work. If community air monitoring indicates the need for dust suppression or if dust is visually observed leaving the Site, the remediation contractor will apply a water spray across the excavation and surrounding areas, and on haul roads as necessary to mitigate airborne dust formation and migration. Potable water will be obtained from either a public hydrant or the on-site water



service, if available. Other dust suppression techniques that may be used to supplement the water spray include:

- Hauling materials in properly tarped containers or vehicles
- Restricting vehicle speeds on-site

### 4.3.2.3 Erosion and Sedimentation Control

Provisions will be made for erosion and sedimentation control at the work perimeter during remediation activities. Erosion and sedimentation controls to be followed during remedial activities include silt fencing, hay baling, mulching, and other measures, as warranted and deemed necessary to mitigate erosion and sedimentation.

## 4.3.3 Soil/Fill Excavation

Excavation of impacted subsurface soil/fill will proceed methodically across the Site digging progressively from one side of the Site to the other. A track-mounted crawler excavator with a mechanically operated bucket will be used to unearth the soil/fill. Verification samples will be collected to confirm that SSALs have been attained. If active utilities (e.g., electric service) are encountered or anticipated, hand digging will be performed to expose the utility line within the planned excavation horizon (2 feet or deeper if needed) and limit the potential for damage to the utility(s).

Excavated materials will be direct-loaded into dump trucks for off-site disposal at a SWDF. All excavation work will be observed by an experienced Benchmark environmental scientist. If disposal truck scheduling necessitates stockpiling of excavated soil/fill, the stockpiles will be placed on and covered with plastic sheeting during nonworking hours.

## 4.3.4 Post-Excavation Verification Sampling

Post-excavation verification composite samples will be collected from the side walls and bottom of the excavations. Consistent with the requirements of DER-10 (Ref. 4), the following discrete samples are proposed:

- One sample from the sidewall of each excavation at a frequency of one per every 30 feet along the perimeter.
- One sample for each 900 square feet of excavation bottom.



All samples will be analyzed by a NYSDOH ELAP certified analytical laboratory for TCL SVOCs (i.e., to quantify PAHs) by USEPA Method 8270 and inorganic compounds by Method 6010/7471 for arsenic, barium, cadmium, copper, lead, mercury, silver, and zinc.

Samples will be reported with an equivalent Category B deliverables package to facilitate data evaluation by a third-party validation expert.

Quality assurance (QA) samples will be collected to support the verification sample data evaluation. The QA samples will include a minimum of one matrix spike (MS), one matrix spike duplicate (MSD), and one blind duplicate per 20 verification samples. Dedicated equipment will be used to avoid the need for equipment blanks.

## 4.3.5 Off-Site Disposal

All sample shipments will be accompanied by a solid waste disposal manifest. Scale receipts will be required to confirm offload at the SWDF and quantify the amount of material removed from the Site.

## 4.4 Construction of Cover System

## 4.4.1 Subgrade Preparation

Site grading to design subgrade elevations, and as necessary for underground utility construction, will occur after confirmatory soil samples are received and SSALs are verified. Any excess materials will be disposed off-site at a permitted SWDF. Following sub-grade preparation work, all equipment will be cleaned free of any soil clods, mud, or clinging debris prior to removal from the Site or use in cover placement activities.

## 4.4.2 Demarcation Layer

A demarcation layer will be placed in designated green space areas following grading of the Site and prior to import of the soil cover system material. Demarcation will be constructed and placed so as to easily identify the existing Site sub-grade from the cover system material, and prevent the potential for inadvertent removal of sub-grade material during potential future Site work. The demarcation material will be comprised of



an orange <sup>3</sup>/<sub>4</sub>-inch plastic industrial netting material that will be rolled across the sub-grade and overlapped by approximately one foot at the seams.

## 4.4.3 Cover System Placement

Construction of the cover system will follow re-grading activities and placement of the demarcation layer. The apartment building and other hardscape construction (parking, sidewalk, driveway, etc., minimum 6" thickness) in addition to the 2-foot soil layer across the remainder of the Site will encompass the Track 4 cover system. As indicated in Section 3.0, the apartment building will be furnished with passive vapor intrusion controls in the form of either a poly vapor barrier or a vented crawl space.

In areas that will not be covered with buildings or hardscape, the cover system will consist of a minimum 2-foot layer of imported clean cover soil followed by seeding or mulching around plantings. Cover material shall be compacted to mitigate potential for settlement. Cover material depth will be verified by Benchmark through survey or grade stake level measurements. Depth verification measurements will be included in the Final Engineering Report.

## 4.5 Import Criteria

## 4.5.1 General

All materials proposed for import onto the Site must be approved by the NYSDEC. The criteria under which off-site material may be used as cover or backfill are presented below.

• Off-Site Soil: Off-Site soil may be used as backfill provided that it originates from: 1) an NYSDEC-approved borrow site; or 2) a known source having no evidence of disposal or releases of hazardous substances, hazardous, toxic, radioactive wastes, or petroleum. In both instances the imported soil must be tested and demonstrated to meet the criteria identified in Section 3.4.2 in accordance with Appendix 5 of DER-10. In addition, no off-site materials meeting the definition of a solid waste as defined in 6NYCRR, Part 360-1.2 (a) shall be used as backfill.

• Other Off-Site Material: Certain material may be imported as backfill or cover, without chemical testing, provided it contains less than 10% (by weight) material

that would pass through a size 80 sieve: 1) Rock or stone, consisting of virgin material from a permitted mine or quarry; 2) steel slag under BUD#555-9-152; 3) Recycled concrete, brick, or asphalt from a NYSDEC-registered or permitted construction and demolition (C&D) debris processing facility (as specified in Section 360-16.1 of 6NYCRR Part 360) that conforms to Section 304 of the New York State Department of Transportation Standard Specifications Construction and Materials Volume 1 (2002). As stated in Section 360-16.4(b)(2), the facility may only accept recognizable, uncontaminated, non-pulverized C&D debris or C&D debris from other authorized C&D processing facilities. According to Section 360-16.2(c), "uncontaminated" means C&D debris that is not mixed or commingled with other solid waste at the point of generation, processing, or disposal, and that is not contaminated with spills of a petroleum product, hazardous waste, or industrial waste.

## 4.5.2 Quality Assurance Requirements

All imported soil sources, including general backfill soil and topsoil, will be subject to third-party testing to verify that they meet the QA requirements specified below. The contractor will be required to collect the specified number of samples and submit the samples to an independent, NYSDOH ELAP-certified laboratory for analysis. The NYSDEC will be notified of the sampling and provided an opportunity to observe the sample collection work.

All analyses will be in accordance with USEPA SW-846 methodology. The laboratory data package will be a Category A deliverable; however, the NYSDEC may request, at any time, to upgrade the deliverable to Category B. Each import soil source shall be analyzed for the following parameters as more specifically listed in 6NYCRR Part 375-6:

- VOCs Method 8260
- SVOCs Method 8270
- Organochlorine Pesticides and PCBs Method 8081/8082
- Metals, excluding mercury Method 6010
- Mercury Method 7471
- Cyanide Method 9013



Each import soil source shall be subject to testing in accordance with the following schedule per NYSDEC DER-10 Table 5.4(e)10:

| Contaminant:                   | VOCs                                       | SVOCs, Inorgan            | ics & PCBs/Pesticides  |
|--------------------------------|--|---------------------------|--|
| Soil Quantity<br>(cubic yards) | Discrete Samples                           | Composite                 | Discrete<br>Samples/Composite                                      |
| 0-50                           | 1  | 1                         |  |
| 50-100                         | 2  | 1                         |  |
| 100-200                        | 3  | 1                         | 3-5 discrete samples from  |
| 200-300                        | 4  | 1                         | different locations in the fill                                    |
| 300-400                        | 4  | 2                         | <ul><li>being provided will</li><li>comprise a composite</li></ul> |
| 400-500                        | 5  | 2                         | sample for analysis  |
| 500-800                        | 6  | 2                         | sample for analysis  |
| 800-1,000                      | 7  | 2                         |  |
| 1,000                          | Add an additional 2 VOC a consult with DER | nd 1 composite for each a | dditional 1,000 cubic yards or                                     |

Grab samples collected via En-Core<sup>®</sup> sampling technique will be required for VOC analysis. For all other required analyses, a minimum of four grab samples will be collected to form a single composite sample. Approximately equal aliquots of the grab samples will be composited in the field using a stainless steel trowel and bowl. The trowel and bowl shall be decontaminated with a non-phosphate detergent (e.g., Alconox®) and potable water wash solution followed by a distilled water rinse between sampling locations).

Import criteria are restricted-residential SCOs and protection of groundwater quality SCOs or lesser as published in 6NYCRR Part 375-6.8(b).

## 4.6 Remedial Activities Support Documents

## 4.6.1 Community Air Monitoring

Real-time community air monitoring will be performed during remedial activities at the Site in accordance with the CAMP (see Appendix G). Particulate monitoring will be performed along the downwind perimeter of the work area during subgrade excavation, backfilling, grading, and soil/fill handling activities in accordance with the CAMP. The CAMP is consistent with the requirements for community air monitoring at remediation sites as established by the NYSDOH and NYSDEC. Accordingly, it follows procedures



and practices outlined under NYSDOH's Generic CAMP (Appendix 1A of DER-10) and Fugitive Dust and Particulate Monitoring (Appendix 1B of DER-10).

## 4.7 Health and Safety Protocols

Benchmark has prepared a HASP for use by its employees in accordance with 40 CFR 300.150 of the NCP and 29 CFR 1910.120. The HASP, provided as Appendix G, includes the following site-specific information:

- Hazard assessment
- Training requirements
- Definition of exclusion, contaminant reduction, and other work zones
- Monitoring procedures for Site operations
- Safety procedures
- Personal protective clothing and equipment requirements for various field operations
- Disposal and decontamination procedures

The HASP also includes a contingency plan that addresses potential site-specific emergencies and a CAMP that describes required particulate monitoring to protect the neighboring community during intrusive site remediation activities.

Health and safety activities will be monitored throughout the remedial field activities. A member of the field team will be designated to serve as the Site Safety and Health Officer (SSHO) throughout the field program. This person will report directly to the Project Manager and the Corporate Health and Safety Coordinator. The HASP will be subject to revision as necessary, based on new information that is discovered during the remedial activities.

## 4.8 Citizen Participation Activities

NYSDEC will coordinate and lead community relations throughout the course of the project with support from Benchmark as requested. A Citizen Participation (CP) Plan will be prepared by Benchmark and approved by NYSDEC. A copy of the CP Plan will be placed in the Niagara Branch of the Buffalo and Erie County Public Library, the designated project document repository. The NYSDEC, with input from Benchmark, will issue project fact sheets to keep the public informed of remedial activities.



## 4.9 Reporting

### 4.9.1 Remedial Activities Reporting

Benchmark will provide full-time on-site inspection to document all remedial action activities. Monitoring and documentation of the remedial action activities will include: daily reports of activities; community air monitoring results; pre- and post-excavation sampling and analysis; and progress photographs and sketches.

## 4.9.2 Construction Monitoring

Standard daily reporting procedures will include preparation of an Inspector's Daily Report and, when appropriate, problem identification and corrective measures reports. Appendix H contains sample project documentation forms. Information that may be included on the daily report form includes:

- Processes and locations of construction under way
- Equipment and personnel working in the area, including subcontractors
- Number and type of truckloads of soil/fill removed from the Site
- Approximate sampling locations (sketches) or GPS (Trimble) coordinates and sample designations for pre-excavation characterization and post-excavation verification
- Grid locations and depths being excavated

The completed reports will be available on-site and submitted to the NYSDEC as part of the Final Engineering Report. The NYSDEC will be promptly notified of problems requiring modifications to this RAWP prior to proceeding or completion of the construction item.

Photo documentation of the remedial activities will be prepared by a field representative throughout the duration of the project as necessary to convey typical work activities, changed conditions, and/or special circumstances.

## 4.10 Final Engineering Report

A Final Engineering Report (FER) will be prepared at the conclusion of remedial activities. The FER will include the following information and documentation, consistent with the NYSDEC's DER-10 Technical Guidance for Site Remediation (Ref. 4):



- Introduction and background
- A Site or area planimetric map showing the parcel(s) remediated, including significant site features
- A Site map showing the lateral limits of any excavations
- Tabular summaries of unit quantities including: volume of soil excavated and disposition of excavated soil
- Planimetric map showing location of all verification and other sampling locations with sample identification labels/codes
- Tabular comparison of verification and other sample analytical results to SCOs. An explanation shall be provided for any results exceeding acceptance criteria
- Documentation on the disposition of impacted soil removed from the Site
- Copies of daily inspection reports and, if applicable, problem identification and corrective measure reports
- Photo documentation of remedial activities
- Text describing the remedial activities performed; a description of any deviations from the RAWP and associated corrective measures taken; and other pertinent information necessary to document that the Site activities were carried out in accordance with this RAWP

In addition, Benchmark will subcontract for third-party data review of postexcavation verification data by a qualified, independent data validation expert. Specifically, a DUSR will be prepared, with appropriate data qualifiers added to the results. The DUSR format will follow the NYSDEC's September 1997 DUSR guidelines and DER-10 guidance (Ref. 4). The DUSR and any necessary qualifications to the data will be appended to the FER.

## 4.11 Site Management Plan

For any BCP site not cleaned up to NYSDEC Part 375 unrestricted SCOs, preparation of a Site Management Plan (SMP) that describes site-specific IC/ECs is a required component of the final remedy. Therefore, an SMP will be prepared as part of the final remedy for the Site. Consistent with NYSDEC BCP requirements, components of the SMP will include:

• **Engineering and Institutional Controls Plan.** Engineering controls include any physical barrier or method employed to actively or passively contain, stabilize, or monitor contaminants; restrict the movement of contaminants; or



eliminate potential exposure pathways to contaminants. Institutional controls at the Site will include groundwater use restrictions and restrictions for use of the Site (i.e., residential or commercial purposes).

- **Operation and Maintenance Plan** will not be a requirement of the SMP as there are no systems containing mechanical components that will be operated, monitored, and maintained.
- *Excavation Work Plan* to assure that future intrusive activities and soil/fill handling at the Site are completed in a safe and environmentally responsible manner unless the Site has been remediated to unrestricted SCOs.
- *Site Monitoring Plan* that includes: provisions for a groundwater monitoring plan and a Site-wide inspection program to assure that the IC/ECs have not been altered and remain effective.
- *Environmental Easement* filed with Erie County.

## 4.12 **Project Schedule**

The anticipated project schedule for the major tasks to be performed during implementation of the RAWP is as follows:

- December 2014 Conduct pre-excavation waste profile sampling
- *Late January 2015* Initiate remedial excavation fieldwork
- March-August 2015 Construct building and place cover systems
- May 2015 Submit SMP
- *September 15, 2015* Submit FER



## 5.0 **REFERENCES**

- 1. Clayton Group Services, Inc. Excerpts of the January 2000 Phase I Environmental Site Assessment and Trench Sampling Report of the Lamar Outdoor Advertising Facility, 295 Maryland Street, Buffalo, New York.
- 2. Benchmark Environmental Engineering & Science, PLLC. Phase I Environmental Site Assessment at 295 Maryland Street & 121-129 West Avenue. 2001.
- 3. Benchmark Environmental Engineering & Science, PLLC. Phase II Environmental Site Investigation Report, 295 Maryland Street, Buffalo, NY. November 2001.
- 4. New York State Department of Environmental Conservation. DER-10/Technical Guidance for Site Investigation and Remediation. May 3, 2010.
- 5. New York State Department of Environmental Conservation. *CP-51/Soil Cleanup Guidance*. October 21, 2010.



# **TABLES**





## TABLE 1 2013 PRE-REMEDIAL INVESTIGATION - TEST PIT FIELD OBSERVATIONS

| Test Pit | Basement<br>Present | Basement<br>Depth | Concrete<br>Slab Present |        | Fill  |          | Native Soil   | Sample | PID Readings  |
|----------|---------------------|-------------------|--------------------------|--------|---|----------|---|--------|---|
| Number   | (Y/N)               | (ft)              | (Y/N)                    | Depth  | Description   | Depth    | Description   | Depth  | PID Readings  |
| TP-1-13  | Y                   | 4.5'              | N                        | 0-4.5' | Brown, moist, lean clay (low plasticity fines) with some<br>cinders and ash, few metal and wood, stiff  | 4.5-9'   | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles                |        | 0   |
| TP-2-13  | Y                   | 5.0'              | Y                        | 0-4.0' | Brown and gray, moist, sandy silt (non-plastic fines with<br>some fine to coarse sand) with some fill (brick, concrete,<br>metal pieces, cinders and ash) | 4-7.5'   | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles                |        | 0   |
| TP-3-13  | N                   | Ν                 | Ν                        | 0-4'   | Brown, moist, lean clay (low plasticity fines) with little fill<br>(cinders, ash, and brick), stiff   |          | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles                |        | 0   |
| TP-4-13  | N                   | Ν                 | Ν                        | 0-3.5' | Brown, moist, lean clay (low plasticity fines) with few fill<br>(brick, rocks, and metal pieces) 3.   |          | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles                | 0-3'   | 0   |
| TP-5-13  | Ν                   | Ν                 | Ν                        | 0-3'   | Brown, moist, lean clay (low plasticity fines) with few fill<br>(bricks and ash), stiff   | 3-4'     | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles                | 0-3'   | 0   |
| TP-6-13  | Ν                   | N                 | N                        | 0-5.5' | Brown, moist, lean clay (low plasticity fines) with few fill<br>(brick, concrete and trace ash), stiff  | 5.5-11'  | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles, moderate odor | 7-9'   | 0-5.5' = 0<br>5.5-7' = 400<br>7-9' = 1000<br>9-11' = 1300 |
| TP-7-13  | Ν                   | N                 | N                        | 0-4'   | Brown, moist, lean clay (low plasticity fines) with few fill<br>(brick and concrete), stiff   | 3-7'     | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles                | 0-3'   | 0   |
| TP-8-13  | Ν                   | Ν                 | Ν                        | 0-4'   | Brown, moist, lean clay (low plasticity fines) with some fill<br>(basement rocks, bricks, and ash), stiff   | 4-5'     | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles                |        | 0   |
| TP-9-13  | Ν                   | N                 | N                        | 0-4'   | Brown, moist, lean clay (low plasticity fines) with few fill<br>(bricks, concrete and trace metal pieces), stiff  | 4-14'    | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles, moderate odor | 9-12'  | 0-4' = 0<br>4-6' = 300<br>6-11' = 400<br>11-14' = 500     |
| TP-10-13 | Ν                   | Ν                 | Ν                        | 0-3.5' | Brown, moist, lean clay (low plasticity fines) with some fill<br>(bricks, concrete, metal pieces, wood pieces, and ash), stiff                            | 3.5-5.5' | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles                |        | 0   |
| TP-11-13 | N                   | Ν                 | Ν                        | 0-4'   | Brown, moist, lean clay (low plasticity fines) with some fill<br>(bricks, concrete, metal pieces, wood pieces, cinders and ash),<br>stiff                 | 4-6'     | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles                |        | 0   |
| TP-12-13 | Ν                   | Ν                 | Ν                        | 0-4'   | Brown, moist, lean clay (low plasticity fines) with some fill<br>(cinders,ash, bricks, and metal pieces), stiff   |          | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles                |        | 0   |



## TABLE 1 2013 PRE-REMEDIAL INVESTIGATION - TEST PIT FIELD OBSERVATIONS

| Test Pit | Basement<br>Present | Basement<br>Depth | Concrete<br>Slab Present |        | Fill  |        | Native Soil  | Sample | PID Readings                          |
|----------|---------------------|-------------------|--------------------------|--------|---|--------|--|--------|---------------------------------------|
| Number   | (Y/N)               | (ft)              | (Y/N)                    | Depth  | Description   | Depth  | Description  | Depth  | FID Readings                          |
| TP-13-13 | N                   | N                 | N                        | 0-3'   | Black and gray, moist, sandy gravel with little cinders and ash,<br>moderate odor, loose  | 3-9'   | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles, moderate odor<br>from 3 to 7', faint odor from 7 to 9' | 8-9'   | 0-3' = 300<br>3-7' = 500<br>7-9' = 25 |
| TP-14-13 | Ν                   | Ν                 | Ν                        | 0-3'   | Brown, moist, lean clay (low plasticity fines) with some fill<br>(bricks, basement rocks, wood pieces, metal pieces), stiff           | 3-5.5' | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles   |        | 0                                     |
| TP-15-13 | Ν                   | Ν                 | Ν                        | 0-4'   | Brown, moist, lean clay (low plasticity fines) with some fill<br>(bricks, wood pieces, metal pieces, trace cinders and ash),<br>stiff | 4-5'   | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles   |        | 0                                     |
| TP-16-13 | Ν                   | Ν                 | Ν                        | 0-4'   | Brown, moist, lean clay (low plasticity fines) with some fill<br>(bricks, wood pieces, metal pieces, trace cinders and ash),<br>stiff | 4-5.5' | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles   |        | 0                                     |
| TP-17-13 | Y                   | 6'                | Y                        | 0-6'   | Bricks and concrete with some lean clay and trace metal, stiff  | 6-8'   | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles   |        | 0                                     |
| TP-18-13 | Y                   | 6'                | Y                        | 0-6'   | Brown and black, moist, lean clay (low plasticity fines) with<br>some fill (concrete, bricks, shingles, cinders and ash), stiff       | 6-8'   | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles   |        | 0                                     |
| TP-19-13 | Y                   | 7'                | Ν                        | 0-7'   | Concrete with some cinders, ash, brick and trace metal pieces   | 7-8.5' | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles   |        | 0                                     |
| TP-20-13 | Ν                   | Ν                 | Ν                        | 0-9+'  | Pea stone with little concrete, few lean clay, and trace metal pieces, loose  |        | Not encountered  |        | 0                                     |
| TP-21-13 | Y                   | 5.5'              | Y                        | 0-5.5' | Brown, moist, lean clay (low plasticity fines) with some fill<br>(concrete, bricks, and trace wood pieces, cinders and ash),<br>stiff | 5.5-7' | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles   |        | 0                                     |
| TP-22-13 | Y                   | 5.5'              | Y                        | 0-5.5' | Brown, moist, lean clay (low plasticity fines) with some fill<br>(concrete, bricks, and trace metal pieces), stiff                    | 5.5-8' | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles   | 6-8'   | 0                                     |
| TP-23-13 | Ν                   | N                 | N                        | 0-1'   | Dark brown, moist, lean clay (low plasticity fines) with few fill (bricks and concrete), stiff  | 1-8'   | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles   | 0.5-3' | 0-1' = 0<br>1-5' = 1.7<br>5-8' = 0    |
| TP-24-13 | N                   | Ν                 | N                        | 0-4'   | Brown, moist, lean clay (low plasticity fines) with few fill<br>(bricks, concrete and trace ash), stiff                               | 4-8'   | Reddish brown, moist, lean clay (medium<br>plasticity fines) with few sub-rounded fine<br>gravel, very stiff, gray mottles   | 0.5-4' | 0                                     |
| TP-25-13 | Ν                   | Ν                 | Ν                        | 0-4'   | Brown, moist, lean clay (low plasticity fines) with some fill<br>(bricks, concrete, few cinders and ash), stiff                       |        |  | 0.5-4' | 0                                     |



# TABLE 2 2013 PRE-REMEDIAL INVESTIGATION - ANALYTICAL PROGRAM SUMMARY

### Alternatives Analysis Report/Remedial Action Work Plan 295 Maryland Street Site

|                 |                                   |          |              |                          |      | Analysis   | 8                          |            |            |           |
|-----------------|-----------------------------------|----------|--------------|--------------------------|------|------------|----------------------------|------------|------------|-----------|
| Test Pit Number | Depth Sampled/<br>Screened (fbgs) | TCL VOCs | TCL BN SVOCs | Select PAHs <sup>1</sup> | PCBs | TAL Metals | Select Metals <sup>2</sup> | Pesticides | Herbicides | TCLP VOCs |
| TP-4-13         | 0-3'                              | Х        | Х            |                          | Х    | Х          |                            | Х          | Х          |           |
| TP-5-13         | 0-3'                              | Х        | Х            |                          | Х    | Х          |                            | Х          | Х          |           |
| TP-6-13         | 7-9'                              | Х        | Х            |                          |      |            |                            |            |            | Х         |
| TP-7-13         | 0-3'                              |          |              | Х                        | Х    |            | Х                          |            |            |           |
| TP-9-13         | 9-12'                             | Х        | Х            |                          |      |            |                            |            |            | Х         |
| TP-13-13        | 8-9'                              | Х        | Х            |                          |      |            |                            |            |            |           |
| TP-22-13        | 6-8'                              | Х        | Х            |                          | Х    | Х          |                            | Х          | Х          |           |
| TP-23-13        | 0.5-3'                            |          |              | Х                        | Х    |            | Х                          |            |            |           |
| TP-24-13        | 0.5-4'                            |          |              | Х                        | Х    |            | Х                          |            |            |           |
| TP-25-13        | 0.5-4'                            |          |              | Х                        | Х    |            | Х                          |            |            |           |

Notes:

1. Includes benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene,

dibenz(a,h)anthracene, and indeno(1,2,3)pyrene.

2. Includes arsenic, barium, cadmium, copper, lead, mercury, silver, and zinc.



### TABLE 3

### SUMMARY OF SEPTEMBER 2010 GROUNDWATER ELEVATIONS

### Alternatives Analysis Report/Remedial Action Work Plan 295 Maryland Street Site

|                        |       |                           | 18-Se                               | ep-10                    | 23-Se                               | ep-10                    |
|------------------------|-------|---------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| Monitoring<br>Location | Grade | Top of PVC<br>Riser Elev. | Water Level<br>from Top of<br>Riser | Groundwater<br>Elevation | Water Level<br>from Top of<br>Riser | Groundwater<br>Elevation |
| MW-1                   | 492.4 | 491.78                    | 7.94                                | 483.84                   | 8.09                                | 483.69                   |
| MW-2                   | 493.4 | 495.85                    | 14.78                               | 481.07                   | 15.00                               | 480.85                   |
| MW-3                   | 497.2 | 499.49                    | 15.08                               | 484.41                   | 15.25                               | 484.24                   |
| MW-4                   | 497.5 | 499.83                    | 14.07                               | 485.76                   | 14.46                               | 485.37                   |

### Notes:

1. All wells were surveyed on 10/12/10 with site specific datum of 500 feet.



#### TABLE 4 SUMMARY OF SOIL/FILL ANALYTICAL RESULTS

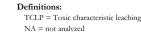
#### Alternatives Analysis Report/Remedial Action Work Plan

295 Maryland Street Site

|  |               | I              | art 375 SC     | Os               |                 |                |             |               |                           |             |                |                |                | 2001           | Test Pit      | Investigat | ion            |                  |                |                |                |                |                 |                 |                   | 2010 B<br>Prog | 0              |                 |              |            | 2013        | B Pre-Reme   | medial Investigation |                  |              |           |                |
|--|---------------|----------------|----------------|------------------|-----------------|----------------|-------------|---------------|---------------------------|-------------|----------------|----------------|----------------|----------------|---------------|------------|----------------|------------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-------------------|----------------|----------------|-----------------|--------------|------------|-------------|--------------|----------------------|------------------|--------------|-----------|----------------|
| Parameter  | USCO          | RSCO           | RRSCO          | csco             | ISCO            | TP-1<br>0-0.5' |             |               | TP-2 TP-3<br>0.5-8' 0-0.5 |             | TP-4<br>0-0.5' | TP-4<br>0.5-8' | TP-5<br>0-0.5' | TP-5<br>0.5-8' | TP-6<br>0-0.5 |            | TP-7<br>0-0.5' | TP-7<br>0.5-5.5' | TP-8<br>0-0.5' | TP-8<br>0.5-8' | TP-9<br>0-0.5' | TP-9<br>0.5-8' |                 | TP-10<br>0.5-8' | EM-6<br>Composite | MW-3<br>4-6'   | SB-5<br>0-2'   | TP-4-13<br>0-3' |              |            |             |              | TP-25-13<br>0.5-4'   |                  |              |           |                |
| Volatile Organic Compounds (µ,                           | o/ko)         |                |                |                  |                 |                |             |               |                           |             |                |                |                |                |               |            |                |                  |                |                |                |                |                 |                 |                   |                |                |                 |              |            |             |              |                      |                  | L            |           | <u> </u>       |
| Benzene  | 60            | 2900           | 4800           | 44,000           | 89,000          | NA             |             | NA            | NA                        |             | NA             |                | NA             |                | NA            |            | NA             |                  | NA             | 0.8            | NA             |                | NA              |                 | 3                 |                |                |                 |              |            | NA          |              |                      |                  | NA           | NA        | NA             |
| Acetone  | 50            | 100,000        | 100,000        | 500,000          | 1,000,000       | ) NA           |             | NA            | NA                        |             | NA             |                | NA             |                | NA            |            | NA             |                  | NA             |                | NA             |                | NA              |                 |                   |                |                |                 |              |            | NA          |              | 32                   |                  | NA           | NA        | NA             |
| 2-butanone   | None          | None           | None<br>41.000 | None<br>200.000  | None<br>780.000 | NA             |             | NA            | NA                        |             | NA             |                | NA             |                | NA            |            | NA             |                  | NA             |                | NA             |                | NA              |                 |                   |                |                |                 |              |            | NA          |              | 3 J                  |                  | NA           | NA        | NA             |
| Ethylbenzene<br>Bromomethane                             | 1,000<br>None | 30,000<br>None | 41,000<br>None | 390,000<br>None  | 780,000<br>None | NA<br>NA       |             | NA            | NA<br>NA                  |             | NA<br>NA       |                | NA<br>NA       |                | NA<br>NA      |            | NA<br>NA       |                  | NA<br>NA       |                | NA<br>NA       |                | NA<br>NA        |                 |                   |                |                |                 |              |            | NA<br>NA    | 62<br>97 J   |                      |                  | NA<br>NA     | NA<br>NA  | NA<br>NA       |
| p/m-xylene   | 260           | 100,000        | 100,000        | 500,000          |                 |                |             | NA            | NA                        |             | NA             |                | NA             |                | NA            |            | NA             |                  | NA             |                | NA             |                | NA              |                 |                   |                |                |                 |              |            | NA          | 92 J         |                      |                  | NA           | NA        | NA             |
| Isopropylbenzene   | None          | None           | None           | None             | None            | NA             |             | NA            | NA                        |             | NA             |                | NA             |                | NA            |            | NA             |                  | NA             |                | NA             |                | NA              |                 |                   |                |                |                 |              |            | NA          | 46 J         | 1.3                  |                  | NA           | NA        | NA             |
| Methylene chloride                                       | 50            | 5,100          | 100,000        | 500,000          | 1,000,000       | ) NA           |             | NA            | NA                        |             | NA             |                | NA             |                | NA            |            | NA             |                  | NA             |                | NA             |                | NA              |                 |                   | 7.9            | 3.5            |                 |              |            | NA          |              |                      |                  | NA           | NA        | NA             |
| TCLP Volatile Organic Compounds<br>No Compounds Detected | None          | None           | None           | None             | None            | NA             | NA          | NA            | NA NA                     | NA          | NA             | NA             | NA             | NA             | NA            | NA         | NA             | NA               | NA             | NA             | NA             | NA             | NA              | NA              | NA                | NA             | NA             | NA              | NA           |            | NA          |              | NA                   | NA               | NA           | NA        | NA             |
| Semi-Volatile Organic Compour                            |               |                | rtone          | rtone            | rtone           |                | 1           |               |                           |             |                | 1              |                |                |               |            | 1              |                  |                |                |                |                |                 |                 |                   |                |                |                 |              | 1          |             |              |                      |                  |              |           |                |
| 2-Methylnaphthalene                                      | None          | None           | None           | None             | None            |                |             |               |                           |             |                |                |                |                |               |            |                |                  |                |                |                |                |                 | 69              |                   |                |                |                 |              |            |             | 18,000       |                      |                  | NA           | NA        | NA             |
| Acenaphthene   | 20,000        | 100,000        | 100,000        | 500,000          |                 | )              |             |               |                           |             |                |                |                |                |               |            |                |                  |                |                |                |                |                 | 250             |                   |                |                |                 |              |            |             | 3,000        | 240                  |                  | NA           | NA        | NA             |
| Anthracene   | 100,000       | 100,000        | 100,000        | 500,000<br>5,600 | 1,000,000       | 150            |             | 85            | 220                       |             | 2,100          | 110            | 330            |                | 280           | 98<br>290  | 200            | 290              | 440<br>2 000   | 200<br>900     | 2,500          | 280<br>760     | 4,700<br>17,000 | 930<br>2 000    | 2.700             |                | 20<br>73       | 80 J<br>320     | 58 J<br>240  |            | 62 J<br>220 | 960<br>100 J |                      | <br>64 J         | <br>52 J     |           | 4,000<br>4,800 |
| Benzo(a)anthracene<br>Benzo(a)pyrene                     | 1,000         | 1,000          | 1,000          | 1,000            | 1,100           | 130            |             |               | 750                       |             | 3,600          |                | 1,200          |                | 2,100         |            | 3,000          | 290<br>370       | 2,000          | 900            | 7,100          | 670            | 17,000          | 1,600           |                   |                | 59             | 320             | 240          |            | 220         |              |                      | 53 J             | 52 J<br>57 J |           | 4,800<br>3,400 |
| Benzo(b)fluoranthene                                     | 1,000         | 1,000          | 1,000          | 5,600            | 11,000          |                |             |               | 1,100                     |             | 5,100          |                | 1,800          |                | 3,000         | 360        | 3,900          | 350              | 3,000          | 1,300          | 9,900          | 1,000          | 19,000          | 2,600           |                   |                | 84             | 350             | 270          |            | 250         | 54 J         |                      | 65 J             | 77 J         |           | 4,300          |
| Benzo(g,h,i)perylene                                     | 100,000       | 100,000        | 100,000        | 500,000          | , ,             | ) (            |             |               | 330                       |             | 1,400          |                | 770            |                | 1,800         |            | 2,700          | 720              | 1,300          | 470            | 3,300          | 260            | 5,700           | 680             |                   |                | 47             | 180             | 170          |            |             |              |                      |                  | NA           | NA        | NA             |
| Benzo(k)fluoranthene<br>Biohoayl                         | 800<br>None   | 1,000          | 3,900          | 56,000           | 110,000         |                |             |               | 410                       |             | 1,900          |                | 540            |                | 900           | 140        | 1,200          |                  | 1,100          | 540            | 3,800          | 330            | 8,100           | 980             |                   |                | 31             | 180             | 130          |            | 120         | 2,600        |                      | 66 J             | 40 J<br>NA   | <br>NA    | 2,000<br>NA    |
| Biphenyl<br>Bis-2-ethylhexyl phthalate                   | None<br>None  | None<br>None   | None<br>None   | None<br>None     | None            |                |             |               |                           |             |                |                |                |                |               |            | 250            | <br>970          |                |                |                |                |                 |                 |                   |                | 120            |                 |              |            |             | 2,000        |                      |                  | NA           | NA        | NA             |
| Butyl benzyl phthalate                                   | None          | None           | None           | None             | None            |                |             |               |                           |             |                |                |                |                |               |            | 500            |                  |                |                |                |                |                 |                 |                   |                |                |                 |              |            |             |              |                      |                  | NA           | NA        | NA             |
| Carbazole  | None          | None           | None           | None             | None            |                |             |               |                           |             |                |                | 150            |                |               |            |                |                  |                |                |                | 160            |                 | 400             |                   |                |                | 43 J            |              |            |             | 120 J        |                      |                  | NA           | NA        | NA             |
| Chrysene   | 1,000         | 1,000          | 3,900          | 56,000           | 110,000         | 120            |             | 75            | 710                       |             | 4,100          | 98             | 1,100          |                | 1,600         | 240        | 1,700          | 420              | 1,700          | 830            | 7,400          | 660            | 14,000          | 1,700           | 2,800             |                | 77             | 330             | 210          |            | 240         | 110          |                      |                  | 60 J         |           | 4,200<br>560   |
| Dibenzo (a,h) anthracene<br>Dibenzofuran                 | 330<br>7,000  | 330<br>14,000  | 330<br>59,000  | 560<br>None      | 1,100<br>None   |                |             |               |                           |             |                |                |                |                | 420           |            | 610            |                  |                |                |                |                |                 | 230             |                   |                |                | 50 J            | 55 J         |            |             | 1,400        |                      |                  | <br>NA       | <br>NA    | 560<br>NA      |
| Di-n-octyl phthalate                                     | None          | None           | None           | None             | None            |                |             |               | 73                        |             |                |                |                |                |               |            |                |                  |                |                |                |                |                 | 130             |                   |                |                |                 |              |            |             |              |                      |                  | NA           | NA        | NA             |
| Fluoranthene   | 100,000       | 100,000        | 100,000        | 500,000          | 1,000,000       | ) 230          |             |               | 1,700                     |             | 13,000         | 240            | 2,500          |                | 2,200         | 570        | 1,400          | 320              | 3,600          | 2,400          | 19,000         | 1,600          | 38,000          | 4,800           |                   |                | 150            | 640             | 280          | 37 J       |             | 700          |                      | 120              | NA           | NA        | NA             |
| Fluorene   | 30,000        | 100,000        | 100,000        | 500,000          | 1,000,000       | (              |             |               |                           |             | 610            |                | 72             |                | 61            |            |                |                  |                | 61             |                | 86             | 1,200           | 250             |                   |                |                |                 |              |            |             | 2,400        | 130 J                |                  | NA           | NA        | NA             |
| Indeno(1,2,3-cd)pyrene<br>Naphthalene                    | 500<br>12,000 | 500<br>100,000 | 500<br>100,000 | 5,600<br>500,000 | 11,000          |                |             |               | 390                       |             | 1,700          |                | 830            |                | 1,800         |            | 3,000          | 410              | 1,300          | 550            | 4,300          | 290            | 7,000           | 150             |                   |                | 43             | 190             | 180          |            | 130 J       |              |                      |                  | 42 J<br>NA   | <br>NA    | 1,900<br>NA    |
| Phenanthrene   | 100,000       | 100,000        | 100,000        | 500,000          | , ,             | ) 190          |             | 79            | 980                       | 63          | 10,000         | 160            | 1,500          |                | 1,200         | 510        | 740            | 250              | 2,200          | 1,300          | 13,000         | 1,200          | 25,000          | 4,000           |                   |                | 100            | 310             | 220          |            |             | 4,800        |                      | 78 ]             | NA           | NA        | NA             |
| Pyrene   | 100,000       | 100,000        | 100,000        | 500,000          | ,,              | 230            |             | 130           | 1,600                     | 110         | 10,000         | 190            | 3,600          |                | 6,400         | 530        | 5,500          | 1,900            | 4,800          | 2,200          | 18,000         | 1,500          | 35,000          | 4,100           |                   |                | 120            | 530             | 260          |            |             | 580          |                      | 100 J            | NA           | NA        | NA             |
| DCD ( (1))   |               |                |                | TO               | TAL PAHs        | s 800          |             | 369           | 0 7,330                   | 173         | 45,410         | 558            | 12,942         |                | 21,361        | 2,517      | 24,250         | 4,710            | 19,840         | 9,251          | 78,000         | 7,036          | 149,700         | 19,830          | 5,500             |                | 654            | 2,820           | 2,053        |            | 1,222       | 12,004       | 370                  | 426              | 328          |           | 25,160         |
| PCBs (µg/kg)<br>Total PCBs                               | 100           | 1,000          | 1,000          | 1,000            | 25,000          | 1              | 1 T         | 1             |                           | 42          | 12             | 1              | 48             | 1              | 61            |            | 57             |                  | 91             |                | 211            |                | 765             |                 | - 1               |                | l 1            | - I             | -            | NA         | I           | NA           | NA                   | l                |              |           |                |
| PCB 1254   | None          | None           | None           | None             | None            |                |             |               |                           | 42          | 12             |                | 48             |                | 61            |            | 57             |                  | 91             |                | 211            |                | 765             |                 |                   |                |                |                 |              | NA         |             | NA           | NA                   |                  |              |           |                |
| Pesticides (ug/kg)                                       |               |                |                |                  |                 |                |             | •             |                           | -           |                |                |                |                |               |            | •              |                  |                |                |                |                |                 |                 |                   |                |                |                 |              |            |             |              |                      |                  |              |           |                |
| 4,4'-DDE   | 3.3           | 1800           | 8900           | 62,000           | 120,000         |                |             |               | NA NA                     |             | NA             | NA             | NA             | NA             | NA            |            | NA             | NA               | NA             | NA             | NA             | NA             | NA              | NA              | NA                |                | 4.1            | 4.66            |              | NA         | NA          | NA           | NA                   |                  | NA           | NA        | NA             |
| 4,4'-DDT   | 3.3           | 1700           | 7900           | 47,000           | 94,000          | NA             | NA          | NA            | NA NA                     | NA          | NA             | NA             | NA             | NA             | NA            | NA         | NA             | NA               | NA             | NA             | NA             | NA             | NA              | NA              | NA                |                | 4              |                 |              | NA         | NA          | NA           | NA                   |                  | NA           | NA        | NA             |
| Inorganic Compounds (mg/kg)<br>Aluminum                  | None          | None           | None           | None             | None            | 6,820          | 9,980       | 7 760         | 8,260 7,980               | 11.000      | 8,930          | 7,710          | 8,450          | 8,870          | 5,690         | 11,100     | 4,470          | 4,410            | 4,490          | 5,710          | 6,720          | 8,240          | 10,800          | 7,270           | NA                | 11,600         | 13,800         | 8,700           | 10,000       | NA         | NA          | NA           | NA                   | 8,000            | NA           | NA        | NA             |
| Antimony   | None          | None           | None           | None             | None            |                |             |               |                           |             |                | 8.11           |                |                |               |            | 7.18           |                  | 7.83           |                |                | 8.45           |                 |                 | NA                |                |                |                 |              | NA         | NA          | NA           | NA                   |                  | NA           | NA        | NA             |
| Arsenic  | 13            | 16             | 16             | 16               | 16              | 2.9            | 3.5         |               | 2.8 7.2                   |             | 16             | 2.4            | 23             |                | 4.2           |            | 3.1            |                  | 4.7            |                | 4.1            |                | 1.1             | 3.2             | NA                | 4.5            | 6.4            | 7               | 3.9          | 5          | NA          | NA           | NA                   | 3.5              | 2.8          | 4.4       | 3.4            |
| Barium   | 350           | 350            | 400            | 400              | 10,000          | 97             |             |               | 67.4 218                  |             | 327            | 80             | 516            | 78.2           | 213           |            | 61.8           |                  | 98.8           | 192            | 143            | 150            | 140             | 73.5            | NA                | 136            | 133            | 140             | 100          | 110        | NA          | NA           | NA                   | 72               | 78           | 72        | 69<br>NIA      |
| Beryllium<br>Cadmium                                     | 2.5           | 14<br>2.5      | 72<br>4        | 590<br>9         | 2,700           | 0.486          | 0.539 0.608 |               | 0.477 0.530               |             | 0.596          |                | 0.601          | 0.506          | 0.603         |            | 0.543 0.872    |                  | 0.493 0.651    | 0.478          | 0.778<br>2.91  | 0.508          |                 | 0.467<br>0.697  | NA<br>NA          | 0.562          | 0.649<br>0.621 | 0.44            | 0.5          | NA<br>0.83 | NA<br>NA    | NA<br>NA     | NA<br>NA             | 0.36 J<br>0.72 J | NA<br>0.63   | NA<br>0.6 | NA<br>1.1      |
| Calcium  | None          | None           | None           | None             | None            | 43,100         |             | 35,900 (      |                           |             |                |                |                |                |               |            |                |                  | 179,000        |                |                |                |                 | 65,400          | NA                | 55,100         |                | 40,000          | 9,000        | NA         | NA          | NA           | NA                   | 67,000           | NA           | NA        | NA             |
| Chromium   | 30            | 36             | 180            | 1,500            | 6,800           | -              | 11.5        | 9.08          | 10.5 65.4                 |             |                | 11.3           | 71.6           | 11.8           | 17.2          |            | 11             | 10.7             | 13.6           | 13.8           | 30             | 18.9           | 18              | 11              | NA                | 14.3           | 19.2           | 20              | 15           | NA         | NA          | NA           | NA                   | 13               | NA           | NA        | NA             |
| Cobalt   | None          | None           | None           | None             | None            | -              |             | 5.61          |                           |             |                |                | 6.91           |                |               |            | 1.9            |                  | 2.9            | 5.4            |                | 6.45           |                 | 6.09            | NA                | 13             | 11.8           | 6               | 6.7          | NA         | NA          | NA           | NA                   | 6.3              | NA           | NA        | NA             |
| Copper<br>Iron   | 50<br>None    | 270<br>None    | 270<br>None    | 270<br>None      | 1,000<br>None   | -              |             | 25.7<br>8.830 | 18.5 141<br>14,600 14,50  |             |                |                | 52.3<br>15,700 | 18<br>15,200   |               |            | 19.9<br>6,390  |                  | 23.2<br>7,620  | 49.3<br>14 500 | 35<br>17,300   | 28<br>19.700   | 30.7<br>11,700  | 22.5<br>13.000  | NA<br>NA          | 19.4           | 22.7<br>23,600 | 32<br>16,000    | 45<br>17,000 | 20<br>NA   | NA<br>NA    | NA<br>NA     | NA<br>NA             | 19<br>16,000     | 12<br>NA     | 18<br>NA  | 37<br>NA       |
| Lead   | 63            | 400            | 400            | 1,000            | 3,900           |                | 55.2        |               | 34.3 3,610                | 126         | 3,270          | 15,000         | 8,160          | 36.3           | 632           | 17,200     | 71.4           | 9,990<br>1,420   | 176            | 14,500<br>503  | 602            | 344            | 328             | 97.6            | NA                | 18,000         | 85.3           | 920             | 130          | 270        | NA          | NA           | NA                   | 48               | 17           | 110       | 120            |
| Magnesium  | None          | None           | None           | None             | None            |                |             | 9,630 2       |                           | 22,900      | 9,830          | 20,100         | 12,000         |                | 15,800        |            |                |                  | 13,600         | 9,960          | 23,500         | 16,000         | 28,500          | 21,600          | NA                | 20,600         | 9,340          | 13,000          | 4,800        | NA         | NA          | NA           | NA                   | 21,000           | NA           | NA        | NA             |
| Manganese  | 1,600         | 2,000          | 2,000          | 10,000           | 10,000          |                | 510         |               | 451 540                   |             | 413            |                | 394            | 498            | 655           |            | 376            | 291              | 375            | 365            | 533            | 474            | 1,120           | 386             | NA                | 648            | 904            | 340             | 520          | NA         | NA          | NA           | NA                   | 390              | NA           | NA        | NA             |
| Mercury<br>Nickel  | 0.18          | 0.81 140       | 0.81<br>310    | 3<br>310         | 6               | 0.31           |             | 0.3           | 1<br>17.6 17.8            | 0.3<br>20.3 | 0.94<br>16.2   |                | 1<br>15.5      |                | 14.8          | 0.062      | <br>9.55       | 10.6             | 0.11<br>9.59   | 0.92<br>20     | 0.35           | 0.25<br>17.2   |                 | 15.1            | NA<br>NA          | 0.0218         | 0.167<br>21.6  | 1.3<br>12       | 1.1<br>14    | 0.7<br>NA  | NA<br>NA    | NA<br>NA     | NA<br>NA             | 0.08             | <br>NA       | 3.7<br>NA | 4<br>NA        |
| Potassium  | None          | None           | None           | None             | None            | -              |             |               | 1250 1250                 |             | 1410           |                | 1370           | 1690           |               |            | 9.55<br>579    |                  | 726            | 20<br>996      |                | 17.2           |                 | 1310            | NA                | 1820           |                | 950             | 960          | NA         | NA          | NA           | NA                   | 14               | NA           | NA        | NA             |
| Selenium   | 3.9           | 36             | 180            | 1,500            | 6,800           |                |             |               |                           |             |                |                |                |                |               |            |                |                  |                |                |                |                |                 |                 | NA                |                |                |                 |              | NA         | NA          | NA           | NA                   |                  | NA           | NA        | NA             |
| Silver   | 2             | 36             | 180            | 1,500            | 6,800           |                |             |               |                           |             |                |                | 1.19           |                | 31.8          |            | 9.39           |                  | 6.91           | 1.26           | 1.4            |                | 3.85            |                 | NA                |                |                |                 |              |            | NA          | NA           | NA                   |                  |              |           |                |
| Sodium   | None          | None           | None           | None             | None            | 149            | 159         | 1080          | 258 299                   | 172         | 255            | 155            | 224            | 218            | 379           | 210        | 233            | 339              | 315            | 306            | 208            | 170            | 446             | 228             | NA                | 260            |                | 88 J            | 140 J        | NA         | NA          | NA           | NA                   | 120 J            | NA           | NA        | NA             |
| Thallium<br>Vanadium                                     | None<br>None  | None<br>None   | None           | None<br>None     | None            | <br>14.9       | 19.9        | 20.7          | 17.7 19.9                 | 26.2        | 20.1           | 17.2           | 19.1           | 19.5           | 12.2          | 22.6       | 10.2           |                  | 8.37           | 17.1           | 11.9           | 18.8           | 10.3            | 15.3            | NA<br>NA          | 21.6           | 28.5           | 19              | 21           | NA<br>NA   | NA<br>NA    | NA<br>NA     | NA<br>NA             | 18               | NA<br>NA     | NA<br>NA  | NA<br>NA       |
| Zinc   | 109           | 2,200          | 10,000         | 10,000           | 10,000          |                |             |               | 63.9 342                  | 102         | 683            | 75.8           | 784            | 66.7           | 141           | 103        | 80             | 546              | 131            | 885            | 850            | 265            | 661             | 170             | NA                | 66.5           | 135            | 210             | 140          | 99         | NA          | NA           | NA                   | 94               | 71           | 84        | 87             |
|  |               |                | <u> </u>       |                  |                 |                | _           |               |                           |             |                |                |                |                |               |            |                |                  |                |                |                |                |                 |                 |                   |                |                |                 |              | •          |             | •            | •                    | •                |              |           |                |

= Exceeds the Unrestricted SCO (USCO) = Exceeds the Residential SCO (RSCO) = Exceeds the Restricted Residential SCO (RRSCO)

= Exceeds the Commercial SCO (CSCO) = Exceeds the Industrial SCO (ISCO)



Semi-volatile Organic Compounds highlighted in blue are also categorized as Polyaromatic Hydrocarbons (PAHs). A total PAH concentration of 500 ppm was used to delineate the Track 4 cleanup extents in lieu of individual Industrial Restricted SCOs as specified in the CP-51 policy.

TCLP = Toxic characteristic leaching procedure NA = not analyzed -- = Not Detected



#### TABLE 5 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

#### Alternatives Analysis Report/Remedial Action Work Plan 295 Maryland Street Site

| MX<br>(9/23/10)<br>(L)<br> | (3/1/11)                    | MV<br>(9/23/10)   |  | MV   | V-3  | MV  | W-4  | Blind Dup <sup>3</sup>   | GWQS/GV <sup>2</sup>   |
|----------------------------|-----------------------------|---|--|--|--|---|--|--|--|
| (L)<br>ND<br>              |                             | (9/23/10)   |  |  |  |   |  |  |  |
| ND<br>                     |                             |   | $(3/1/11)^4$   | (9/23/10)  | (3/1/11)   | (9/23/10)   | $(3/1/11)^4$   | (3/1/11)   |  |
| ND<br>                     |                             |   | (-, , )  | <u> </u>   | ( ,  | ( ,   |  | ( ,  |  |
|                            | ND                          | ND  | 19   | ND   | ND   | ND  | ND   | ND   | 5  |
| -                          | ND                          |   | 1.2  |  | ND   |   | ND   | ND   | 5  |
| 5                          | ND                          | ND  | ND   | ND   | ND   | ND  | ND   | ND   | 50   |
| ND                         | ND                          | 38  | 20   | ND   | ND   | ND  | ND   | ND   | 1  |
| 2                          | ND                          | 4.2   | ND   | 5.4  | ND   | 2.8   | ND   | ND   | 7  |
| ND                         | ND                          | 39  | 46   | ND   | ND   | ND  | ND   | ND   | 5  |
| ND                         | ND                          | ND  | 4.6  | ND   | ND   | ND  | ND   | ND   | 5  |
|                            | ND                          | ND  | 43   | ND   | ND   | ND  | ND   | ND   | 5  |
| ND                         | ND                          | ND  | 2.3  | ND   | ND   | ND  | ND   | ND   | 10   |
|                            | ND                          |   | 35   | ND   | ND   | ND  | ND   | ND   | 5  |
| ND                         | ND                          | 18  | 14   | ND   | ND   | ND  | ND   | ND   | 5  |
| ND                         | ND                          | 97  | 78   | ND   | ND   | ND  | ND   | ND   | 5  |
| s (ug/L)                   |                             |   |  |  |  |   |  |  |  |
| ND                         |                             | 1.3   |  | ND   |  | ND  |  |  | 5  |
|                            |                             |   |  |  |  | -   |  |  |  |
|                            |                             |   |  |  |  |   |  |  | 0.002  |
|                            |                             |   |  |  |  |   |  |  | 50   |
|                            |                             |   |  |  |  |   |  |  | 50   |
|                            |                             |   |  |  |  |   |  |  | 50   |
|                            |                             |   |  |  |  |   |  |  | 10   |
|                            |                             |   |  |  |  |   |  |  | 50   |
|                            |                             |   |  |  |  |   |  |  | 50   |
|                            |                             |   |  |  |  |   |  |  |  |
| ND                         |                             | ND  |  | 0.23   | 0.04 I   | 0.25  | 0.036 I  | 0.022 I  | 0.3  |
|                            |                             |   |  |  |  |   |  | J  | 0.2  |
|                            |                             |   |  |  |  | -   |  |  | 0.01   |
|                            |                             |   |  |  |  |   |  |  | 0.01   |
|                            |                             |   |  |  |  |   |  |  | 0.004  |
|                            |                             |   |  |  |  |   | J  | J  |  |
|                            |                             |   |  |  |  |   |  |  |  |
|                            |                             |   |  |  |  |   | 3  |  |  |
|                            |                             |   |  |  |  |   |  |  | 5  |
|                            |                             |   |  |  |  |   | 5  |  | 0.05   |
|                            |                             |   |  |  | <b>j</b>   |   |  |  | 0.03   |
|                            |                             |   |  |  |  |   |  |  | 0.04   |
|                            |                             |   |  |  |  |   |  |  | 35   |
| 0.007                      |                             | 0.070   |  | v.2  | 1,15   | 0.10  | 0.0215   | 1,15   | 55   |
| 0.0542                     |                             | 0.332   |  | 0.0985   |  | 0.0687  |  |  | 1  |
|                            |                             |   |  |  |  |   |  |  |  |
|                            |                             |   |  |  |  |   |  |  |  |
|                            |                             |   |  |  |  |   |  |  | 0.3  |
|                            |                             |   |  |  |  |   |  |  | 0.3  |
|                            |                             |   |  |  |  |   |  |  |  |
|                            |                             |   |  |  |  |   |  |  | 20   |
|                            | 2<br>ND<br><br>ND<br><br>ND | 2         ND           ND | 2         ND         4.2           ND         ND         ND         39           ND         ND         ND         ND           ND         ND         ND         ND           ND         ND         ND         ND           ND         ND         ND            ND         ND         ND            ND         ND         ND            ND         ND          2.8           ND          0.35         0.51          0.71           0.51          0.71         0.551          0.71           0.51          0.71         0.65         ND          2.8           ND          0.47         ND          2.1           ND          0.42          0.42            ND          ND          0.42            ND          ND         ND          ND           ND          ND         ND          ND <td>2         ND         4.2         ND           ND         ND         ND         ND         46           ND         ND         ND         ND         46            ND         ND         ND         43           ND         ND         ND         2.3             ND          35           ND         ND         18         14           ND         ND         97         78           s         (ug/L)          1.3            ND          2.8            ND          0.35         ND           0.51          0.65            ND          0.47         ND           ND          0.58         ND           ND          0.58         ND           ND          ND            ND          ND            ND          ND            ND          ND       ND</td> <td>2         ND         4.2         ND         5.4           ND         ND         ND         ND         ND         ND           ND         ND         ND         ND         4.6         ND            ND         ND         A3         ND           ND         ND         ND         2.3         ND            ND          35         ND           ND         ND         18         14         ND           ND         ND         97         78         ND           S (ug/L)          1.3          ND           ND          2.8          1.1           ND          0.35         ND         ND           0.51          0.65          0.58           0.51          0.47         ND         ND           ND          0.42         ND         ND           ND          0.42         ND         ND           ND          ND          ND           ND        </td> <td>2         ND         4.2         ND         5.4         ND           ND         ND         ND         ND         ND         ND           ND         ND         ND         ND         ND         ND           ND         ND         ND         ND         ND         ND           ND         ND         ND         2.3         ND         ND           ND         ND         18         14         ND         ND           ND         ND         18         14         ND         ND           ND         ND         97         78         ND         ND           ND          1.3          ND            ND          2.8          1.1            ND          0.35         ND         ND            0.51          0.65          0.58            ND          0.47         ND         ND            ND          0.42         ND         ND            ND          ND</td> <td>2         ND         4.2         ND         5.4         ND         2.8           ND         ND         ND         39         46         ND         ND         ND           ND         ND         ND         ND         ND         ND         ND         ND           ND         ND         ND         ND         ND         ND         ND         ND           ND         ND         ND         2.3         ND         ND         ND         ND           ND         ND         18         14         ND         ND         ND         ND           ND         ND         13          ND         ND         ND         ND           ND          2.8          1.1          ND         ND           ND          0.35         ND         ND          ND         ND          ND           ND          0.47         ND         ND          ND         ND          ND           ND          0.42         ND         ND          ND          ND</td> <td>2         ND         4.2         ND         5.4         ND         2.8         ND           ND         ND         ND         ND         ND         ND         ND         ND           ND         ND         ND         ND         A6         ND         ND         ND         ND           -         ND         ND         H4         ND         ND         ND         ND            ND          35         ND         ND         ND         ND            ND          35         ND         ND         ND         ND           ND         ND          35         ND         ND         ND         ND           ND         ND          35         ND         ND         ND         ND           ND          1.3          ND         ND         ND         ND         ND            ND          0.35         ND         ND          ND          0.017          0.58          0.72           0.058         ND         <t< td=""><td>2         ND         4.2         ND         5.4         ND         2.8         ND         ND           ND         ND         ND         ND         ND         ND         ND         ND         ND           ND         ND         ND         ND         ND         ND         ND         ND         ND           -         ND         ND         A43         ND         ND         ND         ND         ND           ND         ND         ND         A43         ND         ND         ND         ND         ND           ND         ND         ND         A43         ND         ND         ND         ND         ND           ND         ND         ND         A43         ND         ND         ND         ND         ND         ND           ND         ND         A43         ND         -         -         -         -         -         -         -         ND         -</td></t<></td> | 2         ND         4.2         ND           ND         ND         ND         ND         46           ND         ND         ND         ND         46            ND         ND         ND         43           ND         ND         ND         2.3             ND          35           ND         ND         18         14           ND         ND         97         78           s         (ug/L)          1.3            ND          2.8            ND          0.35         ND           0.51          0.65            ND          0.47         ND           ND          0.58         ND           ND          0.58         ND           ND          ND            ND          ND            ND          ND            ND          ND       ND | 2         ND         4.2         ND         5.4           ND         ND         ND         ND         ND         ND           ND         ND         ND         ND         4.6         ND            ND         ND         A3         ND           ND         ND         ND         2.3         ND            ND          35         ND           ND         ND         18         14         ND           ND         ND         97         78         ND           S (ug/L)          1.3          ND           ND          2.8          1.1           ND          0.35         ND         ND           0.51          0.65          0.58           0.51          0.47         ND         ND           ND          0.42         ND         ND           ND          0.42         ND         ND           ND          ND          ND           ND | 2         ND         4.2         ND         5.4         ND           ND         ND         ND         ND         ND         ND           ND         ND         ND         ND         ND         ND           ND         ND         ND         ND         ND         ND           ND         ND         ND         2.3         ND         ND           ND         ND         18         14         ND         ND           ND         ND         18         14         ND         ND           ND         ND         97         78         ND         ND           ND          1.3          ND            ND          2.8          1.1            ND          0.35         ND         ND            0.51          0.65          0.58            ND          0.47         ND         ND            ND          0.42         ND         ND            ND          ND | 2         ND         4.2         ND         5.4         ND         2.8           ND         ND         ND         39         46         ND         ND         ND           ND         ND         ND         ND         ND         ND         ND         ND           ND         ND         ND         ND         ND         ND         ND         ND           ND         ND         ND         2.3         ND         ND         ND         ND           ND         ND         18         14         ND         ND         ND         ND           ND         ND         13          ND         ND         ND         ND           ND          2.8          1.1          ND         ND           ND          0.35         ND         ND          ND         ND          ND           ND          0.47         ND         ND          ND         ND          ND           ND          0.42         ND         ND          ND          ND | 2         ND         4.2         ND         5.4         ND         2.8         ND           ND         ND         ND         ND         ND         ND         ND         ND           ND         ND         ND         ND         A6         ND         ND         ND         ND           -         ND         ND         H4         ND         ND         ND         ND            ND          35         ND         ND         ND         ND            ND          35         ND         ND         ND         ND           ND         ND          35         ND         ND         ND         ND           ND         ND          35         ND         ND         ND         ND           ND          1.3          ND         ND         ND         ND         ND            ND          0.35         ND         ND          ND          0.017          0.58          0.72           0.058         ND <t< td=""><td>2         ND         4.2         ND         5.4         ND         2.8         ND         ND           ND         ND         ND         ND         ND         ND         ND         ND         ND           ND         ND         ND         ND         ND         ND         ND         ND         ND           -         ND         ND         A43         ND         ND         ND         ND         ND           ND         ND         ND         A43         ND         ND         ND         ND         ND           ND         ND         ND         A43         ND         ND         ND         ND         ND           ND         ND         ND         A43         ND         ND         ND         ND         ND         ND           ND         ND         A43         ND         -         -         -         -         -         -         -         ND         -</td></t<> | 2         ND         4.2         ND         5.4         ND         2.8         ND         ND           ND         ND         ND         ND         ND         ND         ND         ND         ND           ND         ND         ND         ND         ND         ND         ND         ND         ND           -         ND         ND         A43         ND         ND         ND         ND         ND           ND         ND         ND         A43         ND         ND         ND         ND         ND           ND         ND         ND         A43         ND         ND         ND         ND         ND           ND         ND         ND         A43         ND         ND         ND         ND         ND         ND           ND         ND         A43         ND         -         -         -         -         -         -         -         ND         - |

#### Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.

2. NYSDEC Class "GA" Groundwater Quality Standards/Guidance Values (GWQS/GV), 6 NYCRR Part 703.

3. Blind Duplicate collected at monitoring well MW-3.

4. MS/MSD collected at monitoring wells MW-2 and MW-4.

Bold

Exceeds the NYSDEC TOGS 1.1.1 Groundwater Quality Standard or Guidance Value

#### Definitions:

N/A = Not Available

ND = Not Detected

J = Result estimated below the quantitation limit. "--" = Not analyzed or no GWQS/GV



## TABLE 6 SUMMARY OF SITE SPECIFIC STANDARDS, CRITERIA AND GUIDANCE (SCGs)

| SCGs  | Applicability to Site   |
|---|---|
| 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes   | YES   |
| DER 10/Technical Guidance for Site Investigation and Remediation (May 3, 2010)  | YES   |
| CP-51/Soil Cleanup Guidance (October 21, 2010) NYSDEC Policy  | YES   |
| DER 2/Making Changes to Selected Remedies April 1, 2008   | Potentially applicable  |
| 6 NYCRR Part 375 - Environmental Remediation Programs (December 2006)   | YES   |
| 6 NYCRR Parts 700-706 - Water Quality Standards   | YES   |
| 6 NYCRR Part 182 - Endangered & Threatened Species of Fish & Wildlife   | Not Applicable as no endangered or threatened species of fish or wildlife |
| 6 NYCRR Part 608 - Use and Protection of Waters   | YES   |
| 6 NYCRR Part 661 - Tidal Wetlands - Land Use Regulations  | Not Applicable, not in tidal zone.  |
| 6 NYCRR Part 663 - Freshwater Wetlands Maps and Classification  | Not Applicable, wetlands are not within 1/2 mile<br>of site.              |
| 6 NYCRR Part 257 - Air Quality Standards  | Potentially applicable  |
| 10 NYCRR Part 5 of the State Sanitary Code - Drinking Water Supplies (May 1998)   | Not applicable  |
| 29 CFR Part 1910.120 - Hazardous Waste Operations and Emergency Response  | Potentially applicable  |
| 6 NYCRR Part 175 - Special Licenses and PermitsDefinitions and Uniform Procedures   | Potentially applicable  |
| SPOTS #14 - Site Assessments at Bulk Storage Facilities (August 1994)   | YES   |
| TOGS 1.1.1 - Ambient Water Quality Standards & Guidance Values and Groundwater Effluent   | YES   |
| Limitations<br>Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites (October 1994)  | Not applicable, no receptors or nearby fish or wildlife.                  |
| Technical Guidance for Screening Contaminated Sediments (January 1999)  | Not applicable, no sediment receptors.                                    |
| Niagara River Biota Contamination Project: Fish Flesh Criteria for Piscivorus Wildlife (July 1987)  | Not applicable, no receptors or nearby fish or<br>wildlife.               |
| Wildlife Toxicity Assessment for Cadmium in Soils (May 1999)  | Not applicable, no receptors or nearby wildlife.                          |
| Air Guide 1 - Guidelines for the Control of Toxic Ambient Air Contaminants  | Potentially applicable  |
| The 10 ppt Health Advisory Guideline for 2,3,7,8-TCDD in Sportfish Flesh  | Not applicable, no receptors or nearby fishing zones.                     |
| The 1 ppm Health Advisory Guideline for Cadmium in Sportfish Flesh  | Not applicable, no receptors or nearby fishing zones.                     |
| Criteria for the Development of Health Advisories for Sportfish Consumption   | Not applicable, no receptors or nearby fishing zones.                     |
| NYSDOH Indoor Air Sampling & Analysis Guidance (August 8, 2001 or subsequent update)  | Not applicable  |
| NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (Final October 2006)   | Not applicable  |
| 6 NYCRR Part 376 - Land Disposal Restrictions   | YES   |
| 19 NYCRR Part 600 - Waterfront Revitalization and Coastal Resources   | Not applicable, not on waterfront or coast.                               |
| TAGM 4051 - Early Design Strategy (August 1993)   | Not applicable  |
| CP-43 - Groundwater Monitoring Well Decommissioning Policy (November 2009)  | YES   |
| Freshwater Wetlands Regulations - Guidelines on Compensatory Mitigation (October 1993)  | Not Applicable, wetlands are not within 1/2 mile of site.                 |
| USEPA Office of Solid Waste and Emergency Response Directive 9355.047FS Presumptive<br>Remedies: Policy and Procedures (September 1993)   | Not applicable  |
| USEPA Office of Solid Waste and Emergency Response Directive 9355.048FS Presumptive<br>Remedies: Site Characterization and Technology Selection for CERCLA sites with Volatile Organic<br>Compounds in Soils (September 1993) | Not applicable  |
| USEPA Office of Solid Waste and Emergency Response Directive 9355.049FS Presumptive Remedy<br>for CERCLA Municipal Landfills (September 1993)   | Not applicable, not a municipal landill.                                  |



## TABLE 6 SUMMARY OF SITE SPECIFIC STANDARDS, CRITERIA AND GUIDANCE (SCGs)

| SCGs  | Applicability to Site  |
|---|------------------------|
| DER-15 - Presumptive/Proven Remedial Technologies (February 2007)   | YES                    |
| 6 NYCRR Part 612 - Registration of Petroleum Storage Facilities (February 1992)   | Not applicable         |
| 6 NYCRR Part 613 - Handling and Storage of Petroleum (February 1992)  | Not applicable         |
| 6 NYCRR Part 614 - Standards for New and Substantially Modified Petroleum Storage Tanks<br>(February 1992)  | Not applicable         |
| 6 NYCRR Subpart 374-2 - Standards for the Management of Used Oil (November 1998)  | Not applicable         |
| 40 CFR Part 280 - Technical Standards and Corrective Action Requirements for Owners and<br>Operators of Underground Storage Tanks                                     | Not applicable         |
| Spill Response Guidance Manual  | Not applicable         |
| Permanent Closure of Petroleum Storage Tanks (July 1988)  | Not applicable         |
| NYSDOH Environmental Health Manual CSFP-530 - "Individual Water Supplies - Activated<br>Carbon Treatment Systems"   | Not applicable         |
| 40 CFR Part 144 - Underground Injection Control Program   | Not applicable         |
| 10 NYCRR Part 67 - Lead   | Not applicable         |
| 12 NYCRR Part 56 - Industrial Code Rule 56 (Asbestos)   | Not applicable         |
| 6 NYCRR Part 372 - Hazardous Waste Manifest System and Related Standards for Generators,<br>Transporters and Facilities (November 1998)                               | Potentially applicable |
| 6 NYCRR Subpart 373-4 - Facility Standards for the Collection of Household Hazardous Waste and<br>Hazardous Waste from Conditionally Exempt Small Quantity Generators | Potentially applicable |
| 6 NYCRR Subpart 374-1 - Standards for the Management of Specific Hazardous Wastes and<br>Specific Types of Hazardous Waste Management Facilities (November 1998)      | Potentially applicable |
| 6 NYCRR Subpart 374-3 - Standards for Universal Waste (November 1998)   | Potentially applicable |
| 6 NYCRR Part 376 - Land Disposal Restrictions   | Potentially applicable |
| 19 NYCRR Part 600 - Waterfront Revitalization and Coastal Resources   | Not applicable         |
| 6 NYCRR Part 750 through 758 - Implementation of NPDES Program in NYS   | Not applicable         |
| TAGM 4013 - Emergency Hazardous Waste Drum Removal/ Surficial Cleanup Procedures (March<br>1996)  | Not applicable         |
| TAGM 4059 - Making Changes To Selected Remedies (May 1998)  | Potentially applicable |
| Citizen Participation in New York's Hazardous Waste Site Remediation Program: A Guidebook<br>(June 1998)  | YES                    |
| TOGS 1.3.8 - New Discharges to Publicly Owned Treatment Works   | Not applicable         |
| TOGS 2.1.2 - Underground Injection/Recirculation (UIR) at Groundwater Remediation Sites   | Not applicable         |
| State Coastal Management Policies   | Not applicable         |
| OSWER Directive 9200.4-17 - Use of Monitored Natural Attenuation at Superfund, RCRA<br>Corrective Action, and Underground Storage Tank Sites (November 1997)          | Potentially applicable |
| NYSDOH Environmental Health Manual CSFP-530 - "Individual Water Supplies - Activated<br>Carbon Treatment Systems"   | Not applicable         |



# TABLE 7 COST ESTIMATE FOR UNRESTRICTED USE (TRACK 1) ALTERNATIVE 1

| Item   | Quantity | Units |    | Unit<br>Cost |          | Total<br>Cost |
|--|----------|-------|----|--------------|----------|---------------|
| Impacted Soil/Fill Removal   |          |       |    |              |          |               |
| Soil/Fill Excavation & Hauling   | 10900    | CY    | \$ | 22.00        | \$       | 239,800       |
| Disposal at TSDF (1.6 tons per CY)   | 17440    | TON   | \$ | 30.00        | ջ<br>Տ   | 523,200       |
| Waste Characterization Analytical  | 10       | EA    | \$ | 800.00       | \$<br>\$ | 8,000         |
| Post-Excavation Confirmatory Sampling                                      | 100      | EA    | \$ | 400.00       | \$<br>\$ | 40,000        |
| Subtotal:  | 100      |       | Ŷ  | 100.00       | \$       | 811,000       |
| Packfill Eugenetics with Assessed Import Material                          |          |       |    |              |          |               |
| Backfill Excavation with Approved Import Material<br>Haul, Place & Compact | 8175     | CY    | \$ | 15.00        | \$       | 122,625       |
| Backfill Characterization and Sampling                                     | 10       | EA    | \$ | 750.00       | ې<br>\$  | 7,500         |
| Subtotal:  | 10       | 15/1  | Ŷ  | 750.00       |          | 130,125       |
|  |          |       |    |              |          |               |
| Excavation Water Handling and Treatment                                    |          |       |    |              |          |               |
| Frac tanks, Filtration and GAC System, GAC Changeout                       | 1        | LS    | \$ | 20,000.00    | \$       | 20,000        |
| Temporary Discharge Application Permit, Addt. Fee                          | 1        | LS    | \$ | 4,000.00     | \$       | 4,000         |
| Excavation Water Analytical Sampling                                       | 3        | EA    | \$ | 600.00       | \$       | 1,800         |
| Subtotal:  |          |       |    |              | \$       | 25,800        |
| Subtotal Capital Cost  |          |       |    |              | \$       | 966,925       |
| Contractor Mobilization/Demobilization (5%)                                |          |       |    |              | \$       | 48,346        |
| Health and Safety (2%)   |          |       |    |              | \$       | 19,339        |
| Engineering/Contingency (35%)  |          |       |    |              | \$       | 338,424       |
| Total Cost   |          |       |    |              | \$       | 1,373,034     |



## TABLE 8 COST ESTIMATE FOR RESTRICTED-RESIDENTIAL USE (TRACK 2) ALTERNATIVE 2

| Item   | Quantity | Units |          | Unit<br>Cost |         | Total<br>Cost    |
|--|----------|-------|----------|--------------|---------|------------------|
| Impacted Soil/Fill Removal                           |          |       |          |              |         |                  |
| Soil/Fill Excavation & Hauling                       | 7400     | CY    | \$       | 22.00        | \$      | 162,800          |
| Disposal at TSDF (1.6 tons per CY)                   | 11840    | TON   | \$       | 30.00        | ۹<br>\$ | 355,200          |
| Waste Characterization Analytical                    | 8        | EA    | \$<br>\$ | 800.00       | ։<br>Տ  | 555,200<br>6,400 |
| Post-Excavation Confirmatory Sampling                | 0<br>100 | EA    | ء<br>۲   | 400.00       | ۹<br>\$ | 40,000           |
| Subtotal:  | 100      | ĽA    | ې        | 400.00       | Գ       | 564,400          |
| Backfill Excavation with Approved Import Material    |          |       |          |              |         |                  |
| Haul, Place & Compact                                | 5550     | CY    | \$       | 15.00        | \$      | 83,25            |
| Backfill Characterization and Sampling               | 8        | EA    | \$       | 750.00       | \$      | 6,000            |
| Subtotal:  | 0        |       | 4        | 750.00       | \$      | 89,250           |
| Excavation Water Handling and Treatment              |          |       |          |              |         |                  |
| Frac tanks, Filtration and GAC System, GAC Changeout | 1        | LS    | \$       | 20,000.00    | \$      | 20,000           |
| Temporary Discharge Application Permit, Addt. Fee    | 1        | LS    | \$       | 4,000.00     | \$      | 4,000            |
| Excavation Water Analytical Sampling                 | 3        | EA    | \$       | 600.00       | \$      | 1,800            |
| Subtotal:  |          |       |          |              | \$      | 25,800           |
| Subtotal Capital Cost                                |          |       |          |              | \$      | 679,450          |
| Contractor Mobilization/Demobilization (5%)          |          |       |          |              | \$      | 33,97            |
| Health and Safety (2%)                               |          |       |          |              | \$      | 13,58            |
| Engineering/Contingency (35%)                        |          |       |          |              | \$      | 237,808          |
| Total Capital Cost                                   |          |       | _        |              | \$      | 964,819          |
| Institutional Controls                               |          |       |          |              |         |                  |
| Environmental Easement                               | 1        | LS    | \$       | 15,000.00    | \$      | 15,000           |
| Site Management Plan                                 | 1        | LS    | \$       | 20,000.00    | \$      | 20,000           |
| Subtotal:  |          |       |          |              | \$      | 35,000           |
| Annual Operation Maintenance & Monitoring (OM&M):    |          |       |          |              |         |                  |
| Annual Certification                                 | 1        | Yr    | \$       | 2,500.00     | \$      | 2,50             |
| Fotal Annual OM&M Cost                               |          |       |          |              | \$      | 2,500            |
| Annual Certification OM&M Present Worth (PW):        |          |       |          |              |         |                  |
| Number of Years ( n ):                               |          |       |          |              |         |                  |
| Interest Rate (I):                                   |          |       |          |              |         | 39               |
| p/A value:   |          |       |          |              |         | 19               |
| Annual Certification OM&M Present Worth (PW):        |          |       |          |              | \$      | 49,00            |
| Total OM&M Present Worth (PW):                       |          |       |          |              | \$      | 51,50            |
| Fotal Cost   |          |       |          |              | \$      | 1,052,000        |



## TABLE 9 COST ESTIMATE FOR RESTRICTED-RESIDENTIAL USE (TRACK 4) ALTERNATIVE 3

#### Alternatives Analysis Report/Remedial Action Work Plan 295 Maryland Street Site

|  |      |     |          | Cost      |          | Total<br>Cost    |
|--|------|-----|----------|-----------|----------|------------------|
| Impacted Soil/Fill Removal                                     |      |     |          |           |          |                  |
| Soil/Fill Excavation & Hauling                                 | 2060 | CY  | \$       | 22.00     | \$       | 45,320           |
| 0  | 3296 | TON | \$       | 30.00     | ې<br>\$  | 43,320<br>98,880 |
| Disposal at TSDF (1.6 tons per CY)                             | 8    |     | ء<br>ج   | 800.00    | ۹<br>\$  |                  |
| Waste Characterization Analytical                              |      | EA  | 5<br>5   | 400.00    | ې<br>\$  | 6,400            |
| Post-Excavation Confirmatory Sampling Subtotal:                | 30   | EA  | \$       | 400.00    | ৯<br>\$  | 12,000           |
| Subtotal:  |      |     |          |           | Þ        | 162,600          |
| Backfill Excavation with Approved Import Material <sup>1</sup> |      |     |          |           |          |                  |
| Haul, Place & Compact  | 0    | CY  | \$       | 15.00     | \$       |                  |
| Backfill Characterization and Sampling                         | 0    | EA  | \$<br>\$ | 750.00    | ۹<br>\$  | -                |
| Subtotal:  | 0    | EA  | ð        | 750.00    | ه<br>\$  | -                |
| Subtotal.  |      |     |          |           | φ        | -                |
| Excavation Water Handling and Treatment                        |      |     |          |           |          |                  |
| Frac tanks, Filtration and GAC System, GAC Changeout           | 1    | LS  | \$       | 20,000.00 | \$       | 20,000           |
| Temporary Discharge Application Permit, Addt. Fee              | 1    | LS  | \$       | 4,000.00  | \$       | 4,000            |
| Excavation Water Analytical Sampling                           | 3    | EA  | \$       | 600.00    | \$       | 1,800            |
| Subtotal:  |      | 1   | Ŷ        | 000.00    | \$       | 25,800           |
|  |      |     |          |           | *        |                  |
| Soil Cover System  |      |     |          |           |          |                  |
| Import and Place 2-ft cover in Greenspace areas                | 2200 | CY  | \$       | 20.00     | \$       | 44,000           |
| Cover Soil Characterization and Sampling                       | 4    | EA  | \$       | 750.00    | \$       | 3,000            |
| Subtotal:  |      |     |          |           | \$       | 47,000           |
| Subtotal Capital Cost  |      |     |          |           | \$       | 235,400          |
| Contractor Mobilization/Demobilization (5%)                    |      |     |          |           | \$       | 11,770           |
|  |      |     |          |           | \$<br>\$ | 4,708            |
| Health and Safety (2%)<br>Engineering/Contingency (35%)        |      |     |          |           | ۹<br>\$  | 4,708            |
| Engineering/Contingency (3576)                                 |      |     |          |           | å        | 82,390           |
| Total Capital Cost   |      | -   |          |           | \$       | 334,268          |
| Institutional Controls   |      |     |          |           |          |                  |
| Environmental Easement   | 1    | LS  | ¢        | 15,000.00 | \$       | 15,000           |
| Site Management Plan   | 1    | LS  | \$<br>\$ | 20,000.00 | ۹<br>\$  | 20,000           |
| Subtotal:  | 1    | Lo  | ş        | 20,000.00 | پ<br>\$  | 35,000           |
| Subiotal.  |      |     |          |           | Ψ        | 55,000           |
| Annual Operation Maintenance & Monitoring (OM&M):              |      |     |          |           |          |                  |
| Annual Certification   | 1    | Yr  | \$       | 2,500.00  | \$       | 2,500            |
| Non-Routine Cover Maintenance                                  | 1    | Yr  | \$       | 500.00    | \$       | 500              |
| Total Annual OM&M Cost   |      |     |          |           | \$       | 3,000            |
|  |      |     |          |           |          |                  |
| Annual Certification OM&M Present Worth (PW):                  |      |     |          |           |          |                  |
| Number of Years (n):   |      |     |          |           |          | 30               |
| Interest Rate (I):   |      |     |          |           |          | 3%               |
| p/A value:   |      |     |          |           | Ι.       | 19.6             |
| Annual Certification OM&M Present Worth (PW):                  |      |     |          |           | \$       | 58,800           |
| Total OM & M Brocont Worth (DWA)                               |      |     |          |           | ¢        | 61 000           |
| Total OM&M Present Worth (PW):                                 |      |     |          |           | \$       | 61,800           |
| Total Cost   |      |     |          |           | \$       | 432,000          |

Notes:

1. Backfill not expected to be required based on cut/fill balance for building foundation and utilities



## TABLE 10 COST ESTIMATE FOR RESTRICTED-RESIDENTIAL USE (TRACK 4) ALTERNATIVE 3A

#### Alternatives Analysis Report/Remedial Action Work Plan 295 Maryland Street Site

| Item   | Quantity | Units | Unit<br>Cost |           | Total<br>Cost |              |
|--|----------|-------|--------------|-----------|---------------|--------------|
| Impacted Soil/Fill Removal                                     |          |       |              |           |               |              |
| Soil/Fill Excavation & Hauling                                 | 2200     | CY    | \$           | 22.00     | \$            | 48,400       |
| Disposal at TSDF (1.6 tons per CY)                             | 3520     | TON   | \$           | 30.00     | ې<br>\$       | 105,600      |
|  |          | EA    | ء<br>\$      |           | ء<br>\$       | ,            |
| Waste Characterization Analytical                              | 8        |       | -            | 800.00    |               | 6,400        |
| Post-Excavation Confirmatory Sampling Subtotal:                | 46       | EA    | \$           | 400.00    | \$<br>\$      | 18,400       |
| Subtotal:  |          |       |              |           | φ             | 178,800      |
|  |          |       |              |           |               |              |
| Backfill Excavation with Approved Import Material <sup>1</sup> | 0        | CV    | ¢            | 20.00     | ¢             |              |
| Haul, Place & Compact  | 0        | CY    | \$           | 20.00     | \$            | -            |
| Backfill Characterization and Sampling                         | 0        | EA    | \$           | 750.00    | \$            | -            |
| Subtotal:  |          |       |              |           | \$            | -            |
| Excavation Water Handling and Treatment                        |          |       |              |           |               |              |
| ~  | 1        | LS    | ¢            | 20,000.00 | ¢             | 20.000       |
| Frac tanks, Filtration and GAC System, GAC Changeout           |          |       | \$           | ,         | \$            | 20,000       |
| Temporary Discharge Application Permit, Addt. Fee              | 1        | LS    | \$           | 4,000.00  | \$            | 4,000        |
| Excavation Water Analytical Sampling                           | 3        | EA    | \$           | 600.00    | \$            | 1,800        |
| Subtotal:  |          |       |              |           | \$            | 25,800       |
| Soil Cover System  |          |       |              |           |               |              |
| Import and Place 2-ft cover in Greenspace areas                | 2200     | CY    | \$           | 20.00     | \$            | 44,000       |
| Cover Soil Characterization and Sampling                       | 4        | EA    | \$<br>\$     | 750.00    | ې<br>\$       | 3,000        |
| Subtotal:  | 4        | ĽA    | å            | 750.00    | ۹<br>\$       | 47,000       |
| Subtotal:  |          |       |              |           | φ             | 47,000       |
| Subtotal Capital Cost  |          |       |              |           | \$            | 251,600      |
| Contractor Mobilization/Demobilization (5%)                    |          |       |              |           | \$            | 12,580       |
| Health and Safety (2%)   |          |       |              |           | \$            | 5,032        |
| Engineering/Contingency (35%)                                  |          |       |              |           | \$            | 88,060       |
| Englicening/ contingency (5576)                                |          |       |              |           | φ             | 00,000       |
| Total Capital Cost   |          |       |              |           | \$            | 357,272      |
|  |          |       |              |           |               |              |
| Institutional Controls   |          | т.    | ¢            | 45,000,02 | ¢             | 45.000       |
| Environmental Easement   | 1        | LS    | \$           | 15,000.00 | \$            | 15,000       |
| Site Management Plan   | 1        | LS    | \$           | 20,000.00 | \$            | 20,000       |
| Subtotal:  |          |       |              |           | \$            | 35,000       |
| Annual Operation Maintenance & Monitoring (OM&M):              |          |       |              |           |               |              |
| Annual Certification   | 1        | Yr    | \$           | 2,500.00  | \$            | 2,500        |
| Non-Routine Cover Maintenance                                  | 1        | Yr    | \$           | 500.00    | \$            | 500          |
| Total Annual OM&M Cost   | 1        | 11    | å            | 500.00    | ջ<br>\$       | <b>3,000</b> |
| Total Allitua Owe W Cost                                       |          |       | I            |           | φ             | 5,000        |
| Annual Certification OM&M Present Worth (PW):                  |          |       |              |           |               |              |
| Number of Years ( n ):   |          |       |              |           |               | 30           |
| Interest Rate (I):   |          |       |              |           |               | 3%           |
| p/A value:   |          |       |              |           |               | 19.6         |
| Annual Certification OM&M Present Worth (PW):                  |          |       |              |           | \$            | 58,800       |
| Annual Octometation Official Fresche wolth (Fw).               |          |       |              |           | φ             | 50,000       |
| Total OM&M Present Worth (PW):                                 |          |       |              |           | \$            | 61,800       |
| Total Cost   |          |       |              |           | \$            | 455,000      |
|  |          |       |              |           |               |              |

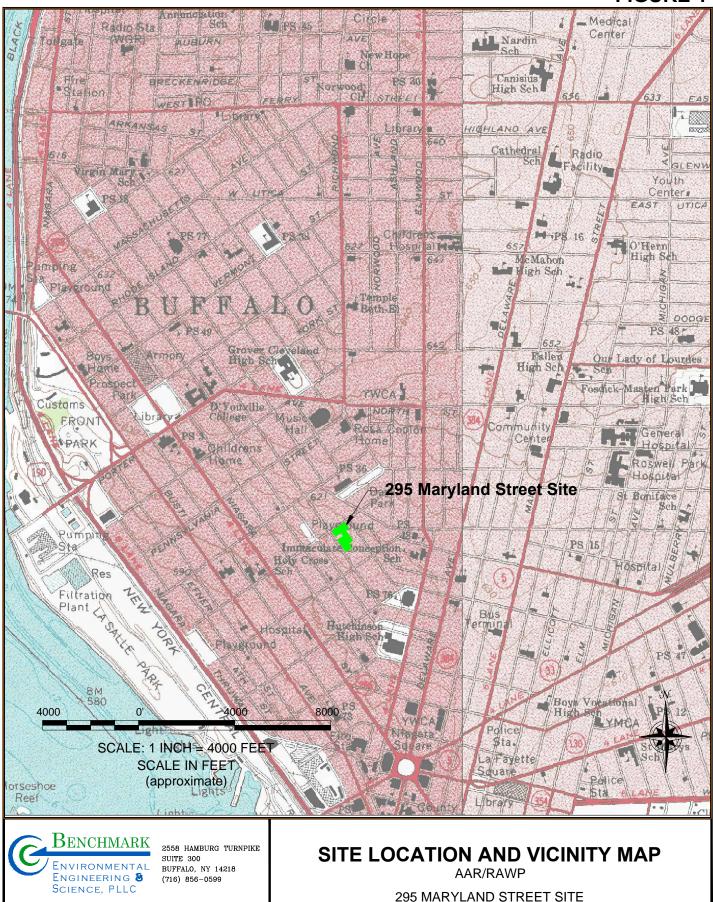
Notes:

1. Backfill not expected to be required based upon cut/fill balance for building foundation and utilities

## **FIGURES**



## **FIGURE 1**

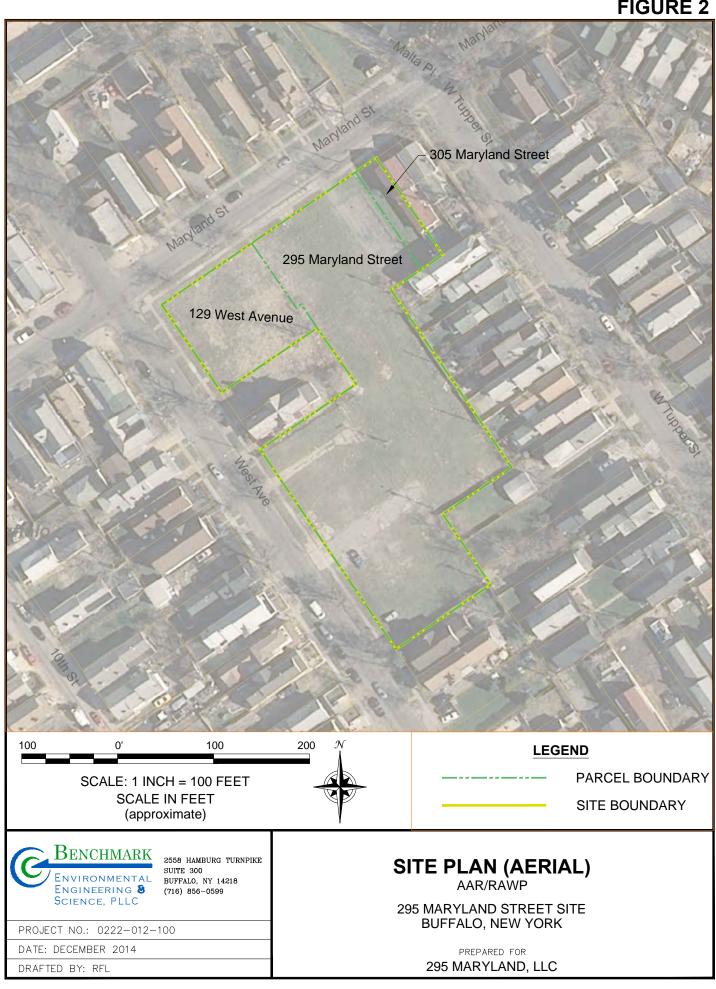


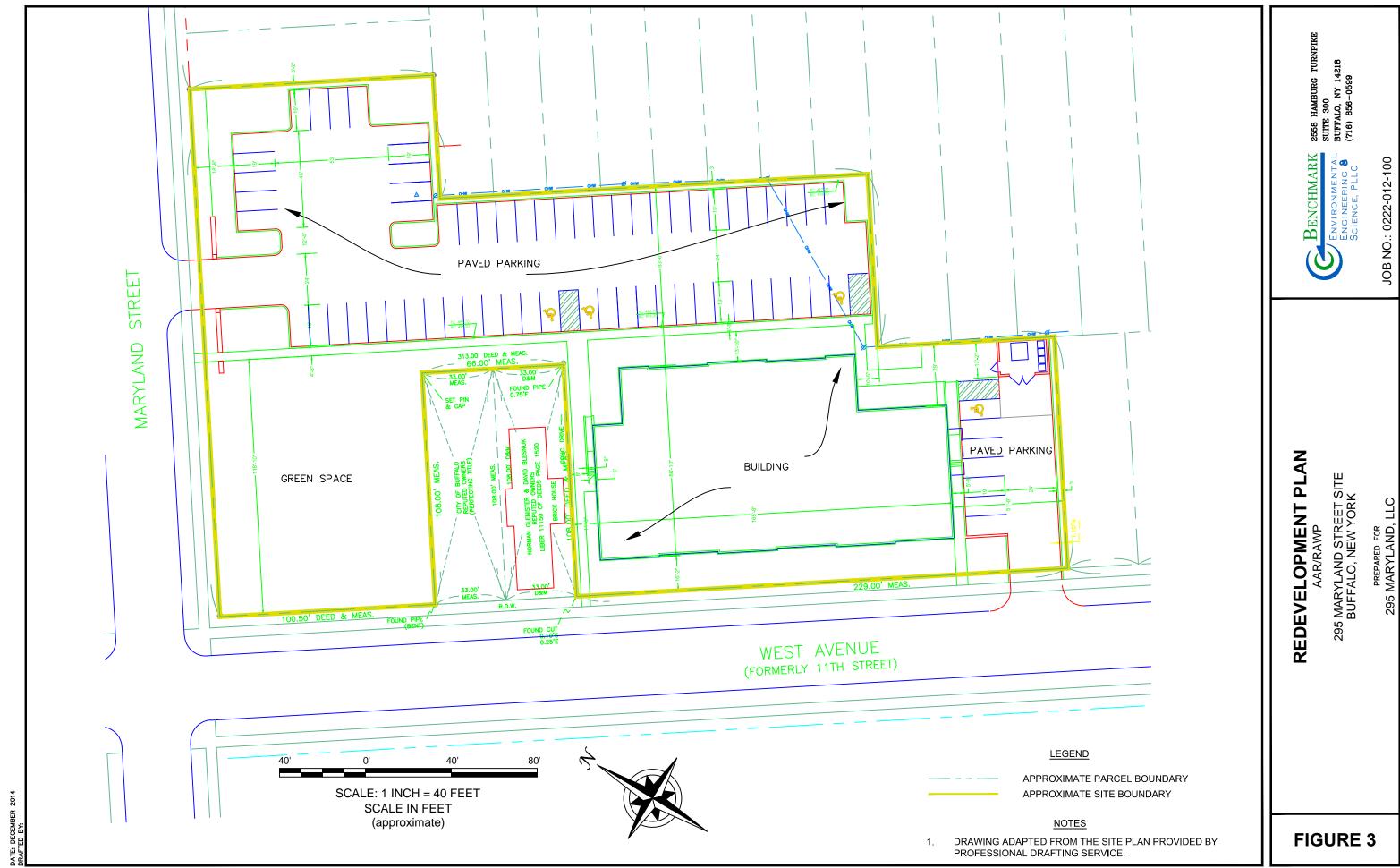
DATE: DECEMBER 2014

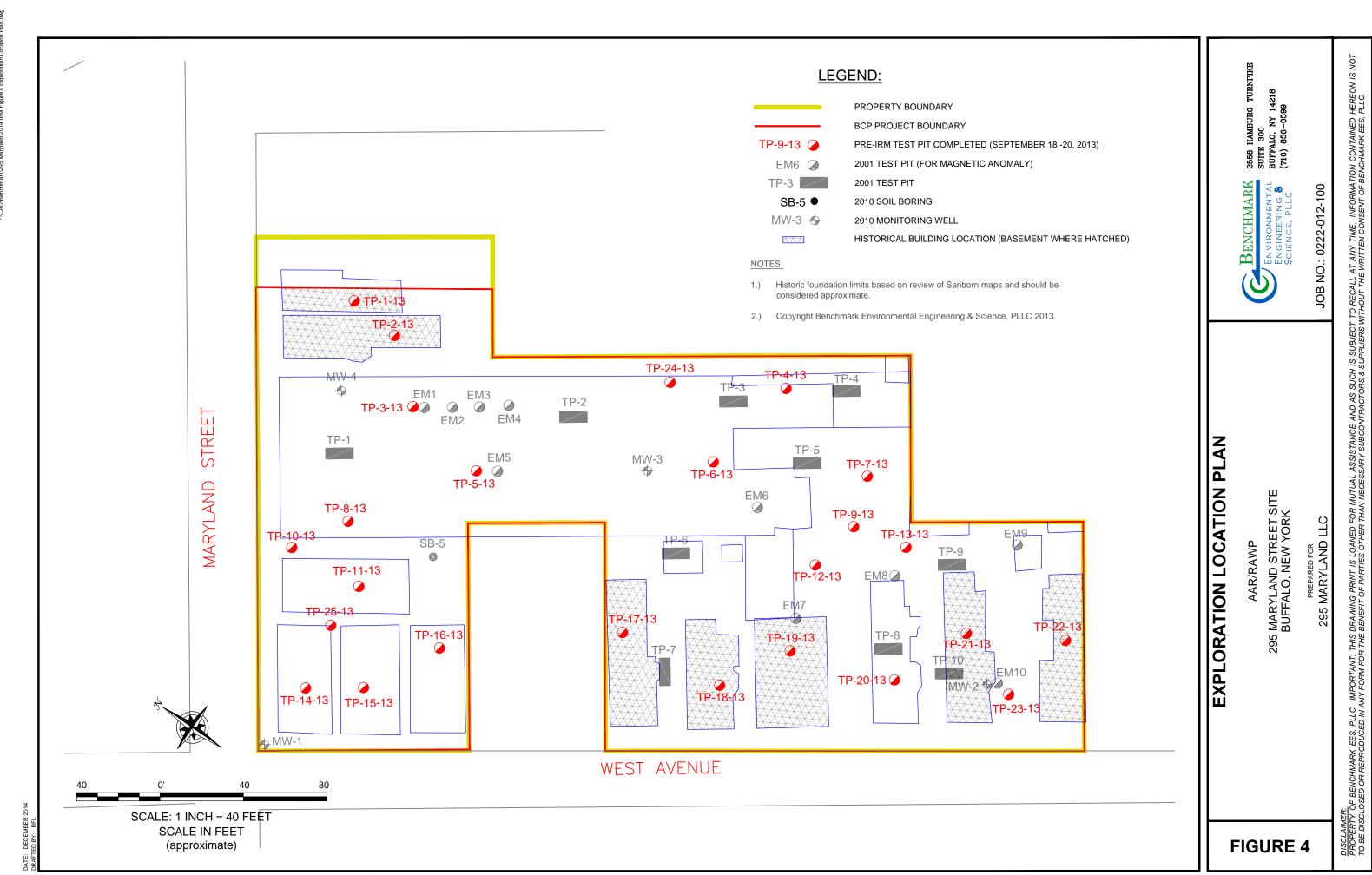
DRAFTED BY: RFL

**BUFFALO, NEW YORK** 

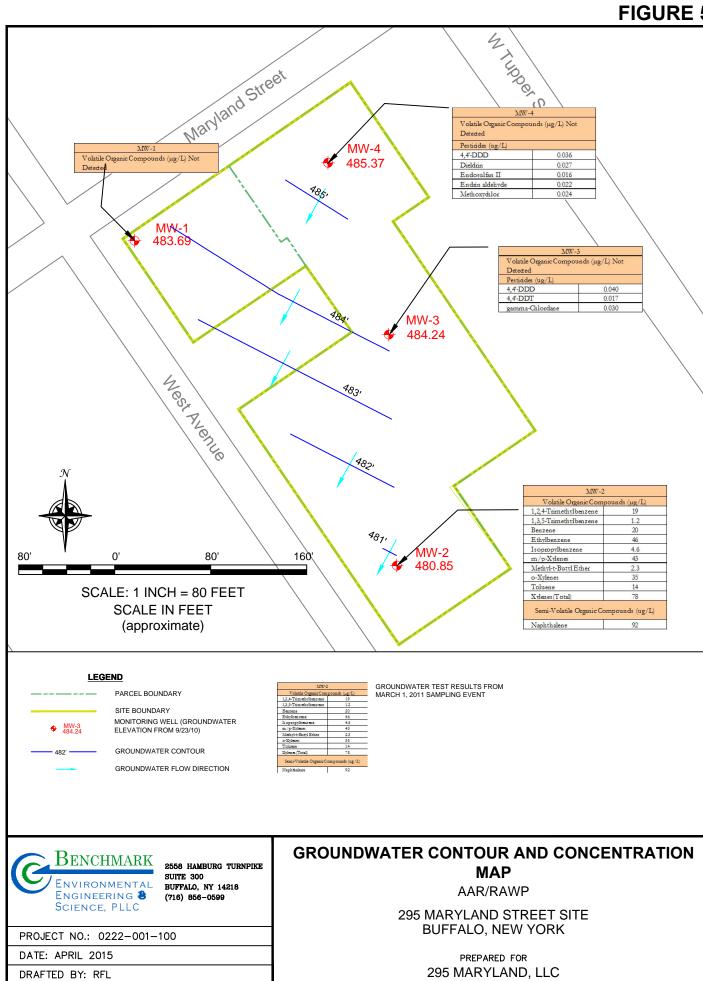
## **FIGURE 2**



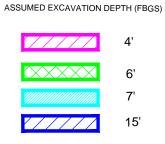


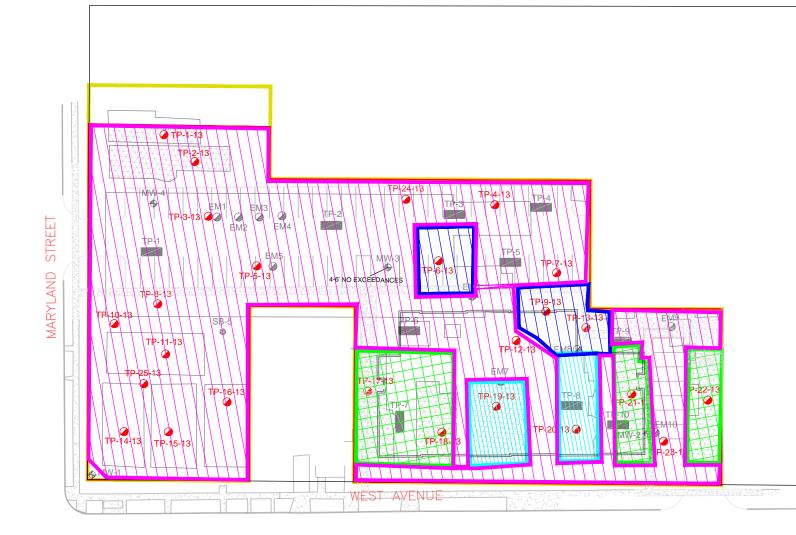


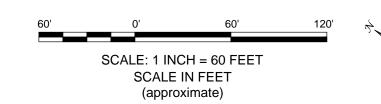




#### LEGEND: PROPERTY BOUNDARY BCP PROJECT BOUNDARY TP-9-13 🥥 PRE-IRM TEST PIT COMPLETED (SEPTEMBER 18 -20, 2013) EM6 🥥 2001 TEST PIT (FOR MAGNETIC ANOMALY) TP-3 2001 TEST PIT SB-5 ● 2010 SOIL BORING MW-3 🔶 2010 MONITORING WELL 5.5.2 HISTORICAL BUILDING LOCATION (BASEMENT WHERE HATCHED)

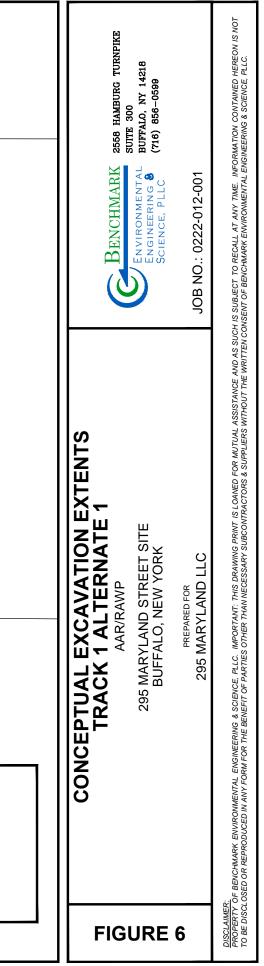


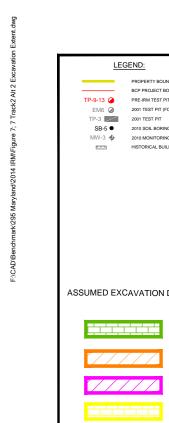


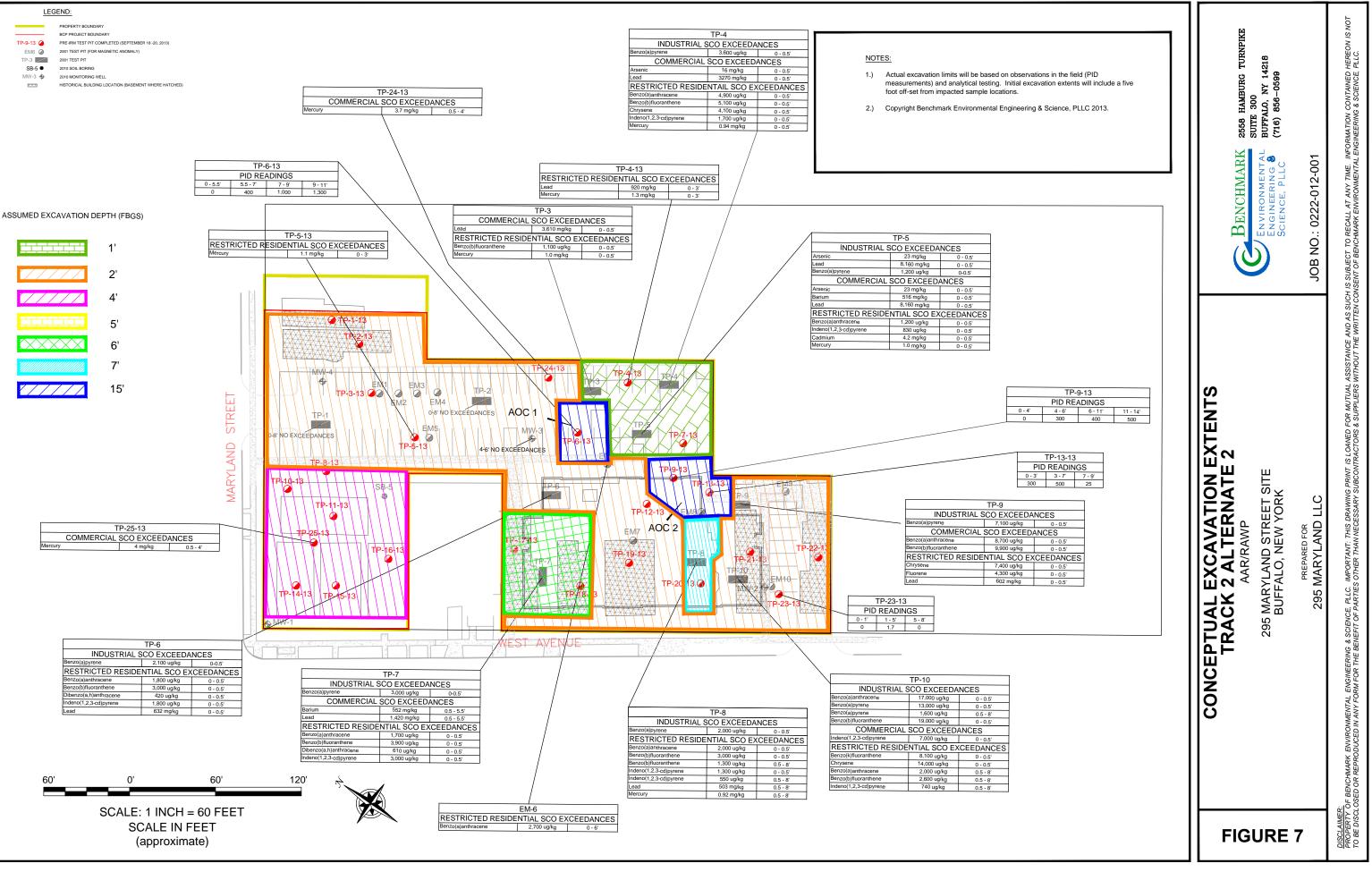


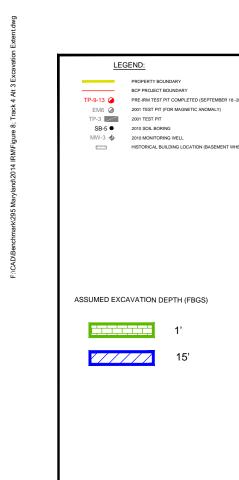
NOTES:

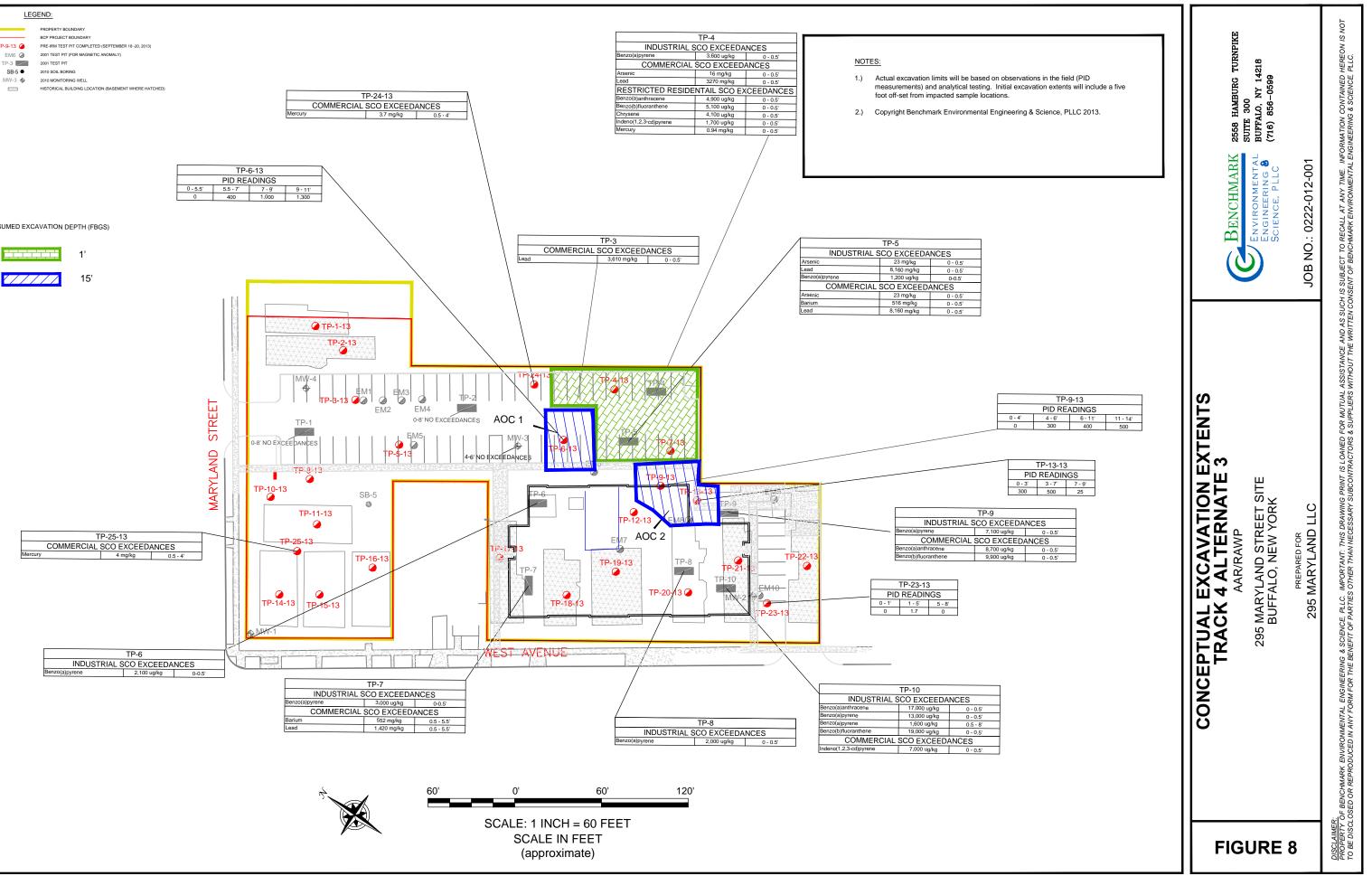
- 1.) Actual excavation limits will be based on observations in the field (PID measurements) and analytical testing. Initial excavation extents will include a five foot off-set from impacted sample locations.
- 2.) Copyright Benchmark Environmental Engineering & Science, PLLC 2013.

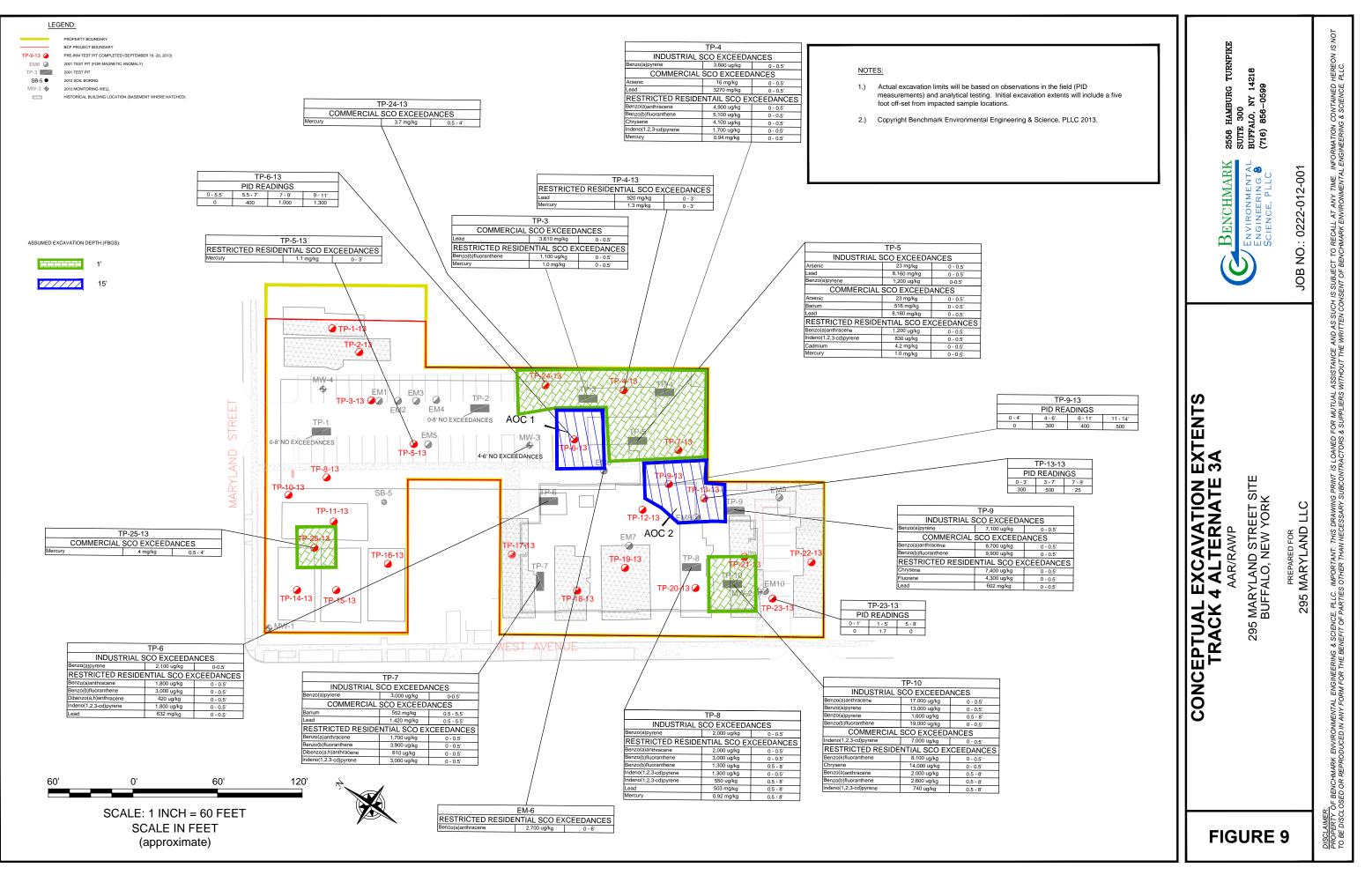








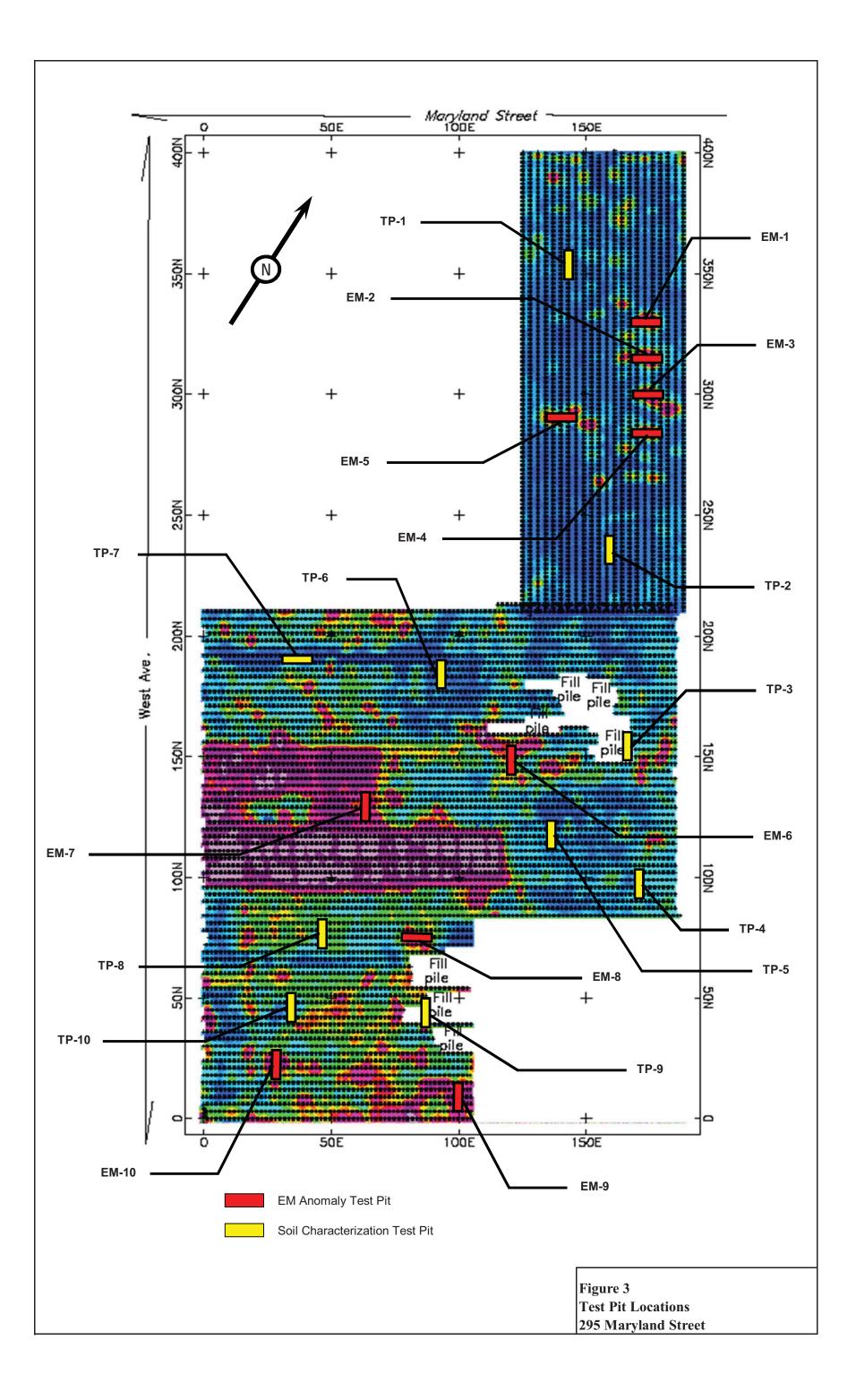




# **APPENDIX A**

**GEOPHYSICAL SURVEY RESULTS** 





# **APPENDIX B**

**TEST PITS LOGS** 



## ELECTROMAGNETIC ANOMALY TEST PIT LOGS

(EM-1 to EM-10)

| PROJECT. | 295 Maryland ST           |
|----------|---------------------------|
| JOB NO.  | 0009-005-100              |
| CONTRAC  | TOR <u>Zoladz</u>         |
| SUBJECT  | EM Test Bit Envestigation |
|          |                           |

| DATE     | 0-22-01  |  |
|----------|----------|--|
| WEATHER: |          |  |
| Temp:    | 55°F     |  |
| Wind:    | 5-10 MPH |  |
| Precip:  | NIA      |  |

EM-1 185 X 340 N

Brown/Bray soil, day some brick, to concrete Located approx 2'x2'x 3' & concrete Faster @ 1'Bos No PED measurement > backgound (0.0 prom) No 020-5, No visual contam

Signature: \_\_\_\_

12

5C

Title: Priet My-



| PROJECT 245 Mary and ST | DATE 10-22-01      |
|-------------------------|--------------------|
| JOB NO. 0009-005-100    | WEATHER: Sun       |
| CONTRACTOR Zoladz       | Temp: <u>58°</u> F |
| SUBJECT Em Fest p.ts    | Wind:              |
|                         | Precip:/_4         |
|                         |                    |

TP EM-2 Same as EM-1: conc. Forte approx 28" Stameter, 3'S 1'B6-5. 8"x 8" steel plate on top at footer Approx l'Fill w/ stone, brick over native br. chy No odo- No visul contan, 0.0 ppm on PED Signature: Jom Fart Title: Project My



| PROJECT 295 Maryland | DATE_ |
|----------------------|-------|
| JOB NO. 009-205-100  | WEAT  |
| CONTRACTOR Zuladz    | Temp: |
| SUBJECT Em Test Pits | Wind: |
|                      |       |

| DATE     | 10-22-01  |  |
|----------|-----------|--|
| WEATHER: |           |  |
| Temp:    | 53'F      |  |
| Wind: _  | 5-10 MPI+ |  |
| Precip:  | NA        |  |

Benchmar

Test Pit EM-3 6" Fill w/ stone, brick gray-brown over mostly rative br cluy Some Fill leases @ 2-3' bgs Located approx 30" Dimeter x 3' D concrete Poter 6" B6-5 No odor, No PED No visul contan Signature: \_\_\_\_\_\_\_ Title: \_\_\_\_\_\_

| PROJECT Mary/ma ST.  | DATE 10-22-01        |
|----------------------|----------------------|
| JOB NO               | WEATHER: <u>Sunn</u> |
| CONTRACTOR Zoladz    | Temp:58 °F           |
| SUBJECT EM Test Pits | Wind: 570 Molt       |
|                      | Precip:/             |

Test P. F EM-4. clay w Fill lense @ 2'BGS 06" Fill w/ brick, store smill anot perched water @ 2.5' Concrete Foster 30" D x 3'D present 6" B65 No odors, No visual indication of cartamination, 00 pm on PED Signature: \_\_\_\_\_\_ Title: \_\_\_\_\_ Project Mar



| PROJECT 295 Mary/and ST |  |
|-------------------------|--|
| JOB NO                  |  |
| CONTRACTOR Zoladz       |  |
| SUBJECT EM Test Pits    |  |

| DATE 10-22-0/  |  |
|----------------|--|
| WEATHER:       |  |
| Temp:          |  |
| Wind: 5-10 mpt |  |
| Precip:        |  |

TP EM-5: Excavited 3' × 8' Test pt to 2' PGS Fill soil - Br / Ste Brown wy brick, stone Located concrete-encased I bean (possible Former Forter) @ 1'BGS No odors, No visual contan evident, Oc Mm on PED



| PROJECT 295 Maryland ST | DATE 10-22-01       |
|-------------------------|---------------------|
| JOB NO                  | WEATHER: <u>Sun</u> |
| CONTRACTOR 20/22        | Temp: <u>60°</u> F  |
| SUBJECT Em FEST Pits    | Wind: 570 mp/4      |
|                         | Precip:///          |

Brick, concrete & stone Fill @ surface; encountered small stubier 212) of 4' CE pipe which may have been the source of the Em Anamoly in add to concrete Fragments Encountered blackish staned sand @ approx 3' BGS al slight - maderate Kerosene. like obor . Mr. sheen on perhed ruter a stas crell 0.0 ppm on PID. Appears to be localized chased to south For noto softer soil / clay who odor. Collected says (e) The For VOCS, SVOCS, PCBS, THE metals. Atso retained aliquit For ptf TOC . Jarte soil Sond 3' Pors , Cost wal 6 Fit Bles This Signature: Title: Project May



| PROJECT 295 May/a) ST |
|-----------------------|
| JOB NO. 0009-005-100  |
| CONTRACTOR Zolad Z    |
| SUBJECT EM FEST fits  |
|                       |

| DATE         | 10-22-01  |  |
|--------------|-----------|--|
| WEATHER: Sun |           |  |
| Temp: _      | 55-0/-    |  |
| Wind:        | 5-10 mpt  |  |
| Precip:      | $\sim/14$ |  |

Test fit Em-7

Approx l'of soil fill w/ large amounts of brack over competent concrete paid No visual folketory evidence or contamination 0.0 ppm on PED

Signature: \_\_\_\_\_\_ For for \_\_\_\_

Title: \_ Project Mg-



| PROJECT | 295 Murylan) ST |
|---------|-----------------|
| JOB NO. | 0009-005-100    |
| CONTRAC | TOR _ Zulad Z   |
| SUBJECT | Em Test Pits    |
|         |                 |

| DATE    | 10-22-01        |  |
|---------|-----------------|--|
| WEATH   | ER: <u>50 n</u> |  |
| Temp: _ | 50F             |  |
| Wind: _ | 5-10 MP1-       |  |
| Precip: | N].4            |  |

Test Pit Em-8 2-3" of gravel over concrete Rd, also uncouvered 2 small steel burs (6" x 2" x 2") No adors, No Moul contan, O. Open on Puis Signature: \_\_\_\_\_ Fach\_\_\_\_\_ Title: Project Mage

PROJECT 295 Maryland ST

JOB NO. 0009-005-100

CONTRACTOR Zoladz

SUBJECT Em Fest Pits

| DATE    | 10-22-01       |          |
|---------|----------------|----------|
| WEATH   | ER: <u>Sun</u> | <u> </u> |
| Temp:   | 52 %-          |          |
| Wind: _ | 5-10 mp14      |          |

Precip: N/A

Test PitEm-89 MAR Uncovered 5' length of steel c channel, l' piece angle iron 0-6" BGS, excavated & x 6' x 4' D Test pit. 1' 51, mixed w TOPSoil over native br. clay. inter perhad ( 3' B6-5 No visual contra , No adors, O.O FED Also encarated shallow sail cast of TPEM-\$ " verity aroundly Uncovered addal stell banding and channel

,

Signature: \_\_\_\_\_\_\_\_

Title: <u>Fry</u>. my -



| PROJECT | 295 Maryland ST |  |
|---------|-----------------|--|
| JOB NO. | 009-005-103     |  |
| CONTRAC | TOR Zolad Z     |  |
| SUBJECT | Em Fest Pits    |  |

| DATE_   | 10-22-01 |  |
|---------|----------|--|
| WEATH   | ER:      |  |
| Temp:   | 48°F     |  |
| Wind: _ | 540 MPH  |  |
| Precip: | ~/4      |  |

Test PitEm-10: Located seven (suchous of steel angle @ 0-1'Bas sails consist of 1'repeal intermingled of Fill over move be clay No visual jot Factory ev. Junce of contamination, OD ppm on PED Signature: John Fork Title: 10-22-01 Primy

## 2001 TEST PIT LOGS

(TP-1 to TP-10)

| PROJECT 295 Mayland ST          | DATE 10/23/01    |
|---------------------------------|------------------|
| JOB NO. 0009-005-700            | WEATHER: Overast |
| CONTRACTOR ZOLAZ                | Temp: <u>557</u> |
| SUBJECT Investigation Fest Pits | Wind:5 MPH       |
|                                 | Precip:          |

| Inve | estigation Test Pit 1 (TPI):                             |
|------|--|
|      | Excavated to a depth of 8' BGS, 3Wx6'L                   |
|      | 3" Fill over clay 13, soil mix appears to have been      |
| (    | pright afre layer 3' bass - based on presence of         |
|      | awriter 10/1501 layer at Mis den B.                      |
|      | Native brown soil below (elay)                           |
|      | No adors visual indictions of contain . U. is promon PED |
|      | samples collected surface (0.6") and subsurface          |
| (    | 6"-g')@ 8'5 am   |
|      |  |
|      |  |
|      |  |
|      |  |
|      |  |

Title: Fras My-

Benchmark

Signature: \_ Thun Forly

| PROJECT | 295 Maryland Street     |
|---------|-------------------------|
| JOB NO. | 0009-005-100            |
| CONTRAC | TOR <u>Zoladz</u>       |
| SUBJECT | Investigation Test Pits |
|         |                         |

| DATE 10-23-0/   |  |
|-----------------|--|
| WEATHER: OVERST |  |
| Temp:           |  |
| Wind: 20 MPH    |  |
| Precin: N/A     |  |

Investigation Test Ritz (TPZ) 3'W x 10'L x 8'D Greyish ash/Cinders 0.8" over brown clay 8"-2" Sand layer w/ some perched mater at 2' Native brown clay 2' - B' No odors or visual contamination evident 00 ppm on PED collected samples @ 840 an allected MS/MSD From (0-6")(6"8") 6" - 8' interval



Title: \_\_\_\_\_

Signature: \_\_\_\_\_

| PROJECT | 295 Maryland ST         |  |
|---------|-------------------------|--|
|         | 0009-005-100            |  |
| CONTRAC | TORZolad z              |  |
| SUBJECT | Investigation test Pits |  |

| DATE /0-23-0/     |
|-------------------|
| WEATHER: Overcast |
| Temp:55°F         |
| Wind: 20 mp4      |
|                   |

Investigation test Pit TP-3  $\frac{1}{6} = \frac{36}{10} = \frac{25}{10} = \frac{1}{10} = \frac{1}{10}$ Fill and brown wisone rock & brich Fill extends to aprox 2' BGS Q somer ad of Pit Porched water to 2' on southern and Native bricky 2' - 8' No overs or indications of contamination. Us ppm on PED Signature: \_\_\_\_\_\_ Falm Title: freet Munage

| PROJECT 245 Mary knd ST        |
|--------------------------------|
| JOB NO 7005-100                |
| CONTRACTOR                     |
| SUBJECT Test fit Investigation |
|                                |

| DATE10/23/01        |
|---------------------|
| WEATHER: Clouds/Sun |
| Temp:53°F           |
| Wind: 20 m/2/7      |
| Precip:/A           |

Envestigation Test Pit 4 (TP-4): Excavited TP-4@ 3'x 10' x aprox 9'D I'fill w/brick, stone, cky over approx 2' cky 0" Topsoil / durter soil lens ( 3' bys brown native clay 31-91 bass No water No visual or d'factory evidence of contamination 0.0 pm on PED collected samples @ 940 an Fron 0-6" 26"- 3" interals

Signature: \_\_\_\_\_ Forthes

Title: <u><u>froj</u> Majo</u>



| PROJECT | 295 Maryland ST        | _ |
|---------|------------------------|---|
| JOB NO. | 0009-005-100           | _ |
| CONTRAC | TOR _ Zolad 2          |   |
| SUBJECT | Test lit Investigation |   |

| DATE    | 10-23-01     |
|---------|--------------|
| WEATH   | ER: OVErcast |
| Temp:   | 60°F         |
| Wind: _ | 20 MP1+      |
| Precip: | NIA          |

Test Pit 5 (TP-5) Excapted 3'W × 10'L × g'IS FM-6 Similar to TP-4 1' Fill of some store & brick over ziclay sandy repsoil lers @ 3'BGS, native br. clay below No odurs or visual contamination evident 00 ppm on pED TP-5 Collected samples From 0.6" & 6"-3" @ 10 man Signature: The Fork Title: Project my

| PROJECT | 295 Maryland ST         | - |
|---------|-------------------------|---|
| JOB NO. | 0009-005-100            | - |
| CONTRAC | TOR <u>Zuladz</u>       | _ |
| SUBJECT | Investigation Fest Pits | _ |

| DATE 10-23-01       |          |
|---------------------|----------|
| WEATHER: clouds/sun |          |
| Temp:               | <u> </u> |
| Wind: 20 mpil       |          |
| Precip:             |          |

Investigation Test Pit 6 (TP-6) Excavited TP-6 3'WX 10'L × 8'J Fill soils wi some mine Delans, plastic & price to approx 2' by s (3:5 bas & on s. side) Vtriked chy pipe (8) anter notes atory on Cast & Wist sides of pit near so. Side No odors, No visual contam indicated. Orogen in Pid Samples of 0.6" & 6" - 9' intervals collected @ 1030ay mo Fal Title: Pro my Signature: \_\_\_\_

| PROJECT | 295 Maryland ST        |
|---------|------------------------|
| JOB NO. | 0009-005-100           |
| CONTRAC | TOR Zoladz             |
| SUBJECT | Test Pit Investigation |

| DATE    | 10/23/01    |
|---------|-------------|
| WEATH   | ER: <a></a> |
| Temp:   | 60°F        |
| Wind: _ | 20 mpt      |
| Precip: | NA          |

Test Pit TP-D Excavited 3'W x 10 'L x 55'S Encountered refusal ( old concrete Floor)@55'D Appears to have been a former wooden structure demolished in place. Fill materials consistor wood, store, concrete, shingles plastic & cloth. No visual contan, odors appear to be related to cotting wood & shingles (slight asphalt odor) Scriptes collected at 11" an 0.6" & 6"-5.5' BG-S Signature: The Forles

Title: <u><u><u>Proj</u> My-</u></u>

|                                       | SATION REPORT               |
|---------------------------------------|-----------------------------|
| PROJECT 295 Maryland St               | DATE 10-23-01               |
| JOB NO. 000 9-205-100                 | WEATHER: Sun /clouds        |
| CONTRACTOR Zoladz                     | Temp: <u>65°</u> F          |
| SUBJECT Test Pit Investigation        | Wind: 20 MPH                |
|                                       | Precip:/A                   |
|                                       |                             |
| Test Pit TP-8.                        |                             |
|                                       |                             |
| Excavited approx 3'WX 10              | $O'L \times S'D$            |
| Significant amounts of fill mattes en | confront (1)                |
| Mi comprised at Sul Sriek, Cork       |                             |
| Buried 1" elect. Conduit running E    | IN encontered approx 251015 |
| Native Blay soil @ 6- 8-36-5          |                             |
| Some perched canter on 5 side of      | F.F. Q. K' Mrs              |
|                                       |                             |
| Samples collected @ 1140 an           | $\sim$                      |
|                                       |                             |
|                                       |                             |
|                                       |                             |
|                                       |                             |
|                                       |                             |
|                                       |                             |
|                                       |                             |
|                                       |                             |
|                                       |                             |
|                                       |                             |
|                                       |                             |

Signature: Jhun Faile

Title: Pro May



| FIELD INVESTIGATION REPORT        |                                     |  |  |  |  |  |  |
|-----------------------------------|-------------------------------------|--|--|--|--|--|--|
| PROJECT 295 Marylaw ST            | DATE 10/23/01                       |  |  |  |  |  |  |
| JOB NO009-005-700                 | WEATHER: Sun (clouds                |  |  |  |  |  |  |
| CONTRACTOR                        | Temp:60 °.F                         |  |  |  |  |  |  |
| SUBJECT Test Pit Envestigation    | Wind: 20 MpH                        |  |  |  |  |  |  |
|                                   | Precip:/A                           |  |  |  |  |  |  |
|                                   |                                     |  |  |  |  |  |  |
| Test pit TP-9                     |                                     |  |  |  |  |  |  |
| Excanted 3'WX 10'L × 9'0          | to T PIT                            |  |  |  |  |  |  |
| 2' Soil Gill W/ some brick, wwo   |                                     |  |  |  |  |  |  |
| Encountered Former cinder block 1 | Foundation on east side of Test pit |  |  |  |  |  |  |
| clay on W side begins (0 2' BG    |                                     |  |  |  |  |  |  |
| No perches mater                  |                                     |  |  |  |  |  |  |
| No odors or Visual indiantias or  | contamination                       |  |  |  |  |  |  |
| 0.0 from on PES                   |                                     |  |  |  |  |  |  |

Collected sample from 0-6 + 6 - 8 @ 120 pm

Title: Roject Marage

Ben

Signature: Thom Forks

| gnature: _ The Fork                  | Title: Project Marage        |
|--------------------------------------|------------------------------|
|                                      |                              |
|                                      |                              |
|                                      |                              |
|                                      |                              |
|                                      |                              |
| Collected samples of 0°6" & 6        | "-8' (2) 12 <sup>30</sup> pm |
| O.C. PP. on PEB                      |                              |
| NI oders or visual follow trong evid | ace of confamination         |
| Notive Grand red ching 4'-B' BGS     |                              |
| OLD store Floor @ 3.5'BGS.           |                              |
| Fill w/ some brize stone & rock      |                              |
| Excavated 3'WXQ'LX8'S                |                              |
| Test Pit TP-10:                      |                              |
|                                      | Precip://A                   |
| SUBJECT Test Pit Envestigation       | Wind: 20 -25 MPH             |
| CONTRACTOR Zoladz                    | Temp:60 ℃                    |
| JOB NO. 0009-005-100                 | WEATHER: Clauds/sun          |
| PROJECT 295 Mayland Street           | DATE 10-23-01                |

# **APPENDIX C**

FIELD BOREHOLE LOGS/WELL INSTALLATION DETAILS



| Pr<br>Cl        | Project No: 0222-001-100       Borehole Number: MW-1         Project: Phase II Investigation       A.K.A.:         Client: 295 Maryland LLC.       Logged By: TAB         Site Location: 295 Maryland, Buffalo, NY       Checked By: BCH |   |               |             |               |      | ENVIRO<br>ENGINI<br>SCIENC |               |   |
|-----------------|--|---|---------------|-------------|---------------|------|----------------------------|---------------|---|
|                 |  | SUBSURFACE PROFILE  | _             | SAN         | _             | _    |                            |               |   |
| Depth<br>(fbgs) | Elev.<br>/Depth  | Description<br>(ASTM D2488: Visual-Manual Procedure)  | Sample No.    | SPT N-Value | Recovery (ft) | nbol | PID<br>VOCs<br>0 12.5 25   | Lab<br>Sample | Well Completion<br>Details<br>or<br>Remarks                         |
| 0.0 -           | 0.0<br>0.0   | Ground Surface Top soil Brown, moist, mostly nonplastic fines, trace  | / S1          | 52          | 2.0           |      | 0.0                        |               | 4 Concrete  |
|                 | -2.0<br>2.0  | subrounded coarse sand, trace fine gravel medium<br>dense rootlets.   | S2            | 27          | 1.5           |      | 0.0                        |               | ♀ <mark>`</mark>  |
| -<br>5.0 —      | -4.0<br>4.0  | Reddish brown, moist, non plastic fines, trace fine<br>sand, very dense, medium to high dry strength.<br>As above, medium dense.  | ,<br>S3       | 55          | 2.0           |      | 0.0                        |               | PVC Riser   |
|                 | -6.0<br>6.0  | Lean Clay<br>Reddish Brown, moist, low plasticty fines, hard, high<br>toughness.  | S4            | 37          | 2.0           |      | 0.0                        |               | 2" PVC Riser<br>2" PVC Riser<br>September 19, 20<br>Bentonite chips |
|                 | -8.0<br>8.0  | As above, trace coarse sand.<br>As above, mostly low to medium plastic fines, little<br>coarse sand, slight laminations.  | S5            | 41          | 2.0           |      | 0.0                        |               |   |
| 10.0            | -13.0<br>13.0<br>-14.5<br>14.5<br>-18.0<br>18.0  | Reddish brown, moist, medium to high plasticity fines,<br>stiff.<br>Silt with Sand<br>Reddish brown, wet, mostly non plastic fines with some<br>fine sand, medium dense.<br>As above. | S6            | 13          | 1.0           |      | 0.0                        |               | 2" PVC Screen, 0.010" slot  |
| 20.0 -          | -19.5<br>19.5<br>-20.5<br>20.5   | Lean Clay<br>Reddish brown, wet, high plasticity fines, with few fine<br>sand, hard, high toughness   | - S7<br>,' S8 | 57          | 1.9<br>1.4    |      | 0.0                        |               | 2" PVC Scree  |
| 25.0            | -22.0<br>22.0  | As Above<br>Silt with Sand<br>Reddish brown, wet, mostly non plastic fines with some<br>fine sand, medium dense.<br>End of Borehole   |               |             |               |      |                            |               | ¥ LO  |

Drilled By: Earth Dimensions, Inc. Drill Rig Type: CME 550 Drill Method: 4.25-inch Continous SS w/HSA Comments: Drill Date(s): 9 13 10

Hole Size: 8 1/2 - inch Stick-up: Flush Mount Datum: NA

| Project No: 0222-001-100       Borehole Number: MW-2         Project: Phase II Investigation       A.K.A.:         Client: 295 Maryland LLC.       Logged By: TAB         Site Location: 295 Maryland, Buffalo, NY       Checked By: BCH         SUBSURFACE PROFILE       SAMPLE |                            |  |   |            |             |               |        | ENVIRO<br>ENGIN<br>SCIENC |                        |               |   |
|--|----------------------------|--|---|------------|-------------|---------------|--------|---------------------------|------------------------|---------------|---|
| Depth<br>(fbgs)  | Elev.<br>/Depth            | Description<br>(ASTM D2488: Visual-Manual Procedure)   |   | Sample No. | SPT N-Value | Recovery (ft) | Symbol | 0                         | PID<br>VOCs<br>12.5 25 | Lab<br>Sample | Well Completion<br>Details<br>or<br>Remarks |
| -3.0   | <u>0.0</u><br>0.0          | Ground Surface<br>Lean Clay w/Fill<br>Reddish brown with black, moist, non to low plastic  |   | S1         | 16          | 2.0           |        | 0.0                       |                        |               | A ConcreteM                                 |
| 2.0  | -2.0<br>2.0<br>-4.0<br>4.0 | <ul> <li>fines, few fine sand, trace fine gravel, very stiff, with concrete and cinders, wood fragments, medium toughness.</li> <li>As above no black, no wood fragments, cinders or concrete, moist, orange brick fragments, rootlets, trace</li> </ul> | ⊢ | S2         | 12          | 1.4           |        | 0.0                       |                        |               |   |
| -<br>7.0-  | -6.0<br>6.0                | <ul> <li>coarse sand and fine gravel.</li> <li>Lean Clay</li> <li>Reddish Brown, moist, low plasticty fines, very stiff, medium toughness.</li> <li>As above, trace coarse sand.</li> </ul>  |   | S3<br>S4   | 29<br>37    | 2.0           |        | 0.0                       |                        |               | 2" PVC Riser                                |
|  | -10.0<br>10.0              | As above, mostly medium plastic fines, trace fine sand,<br>trace fine gravel, orange fine sand areas, medium<br>toughness  |   | S5         | 20          | 2.0           |        |                           |                        |               | L 18 2010                                   |
| -  | -15.0<br>15.0              | Silt with Sand<br>Brown, wet, mostly non plastic fines with some fine<br>sand, dense, rapid dilatancy.   |   | S6         | 37          | 1.4           |        | 0.0                       |                        |               | Screen, 0.010" slot                         |
| 17.0   | -20.0<br>20.0              | As above, slight odor  |   |            |             |               |        | <br><br>1.6               |                        |               | 2" PVC Screen, 0.010" slot                  |
| <br>22.0 —<br>   | -22.0<br>22.0              | End of Borehole  |   | S7         | 24          | 1.3           |        |                           |                        |               | ¥   |
|  |                            |  |   |            |             |               |        |                           |                        |               |   |

Drilled By: Earth Dimensions, Inc. Drill Rig Type: CME 550 Drill Method: 4 1/4-inch HSA w/Continous SS Comments: Drill Date(s): 9 13 10

Hole Size: 8 1/2-inch Stick-up: 2.5-foot Datum: NA

| Project No: 0222-001-100       Borehole Number: MW-3         Project: Phase II Investigation       A.K.A.:         Client: 295 Maryland LLC.       Logged By: TAB         Site Location: 295 Maryland, Buffalo NY       Checked By: BCH         SUBSURFACE PROFILE       SAMPLE |   |  |  |             | Benchmark Envi<br>2558 l  | ENGIN  | ONMEN<br>EERING<br>CE, PLL<br>ngineerin<br>rnpike, Su<br>IY 14218 | ITAL<br>8 &<br>.C<br>g & Science, PLLC |                            |  |   |
|---|---|--|--|-------------|---|--------|---|--|----------------------------|--|---|
| Depth<br>(fbgs)   | Elev.<br>/Depth   | Description<br>(ASTM D2488: Visual-Manual Procedure)   | Sample No.   | SPT N-Value | Recovery (ft)   | Symbol | 0   | PID<br>VOCs<br>ppm<br>12.5 25          | Lab<br>Sample              |  | l Completion<br>Details<br>or<br>Remarks  |
| -3.0  | 0.0<br>0.0<br>2.0<br>2.0<br>4.0<br>4.0<br>-10.0<br>10.0<br>10.0<br>12.0<br>12.0<br>12.0<br>14.0<br>15.0<br>15.0<br>15.0<br>15.0<br>15.0<br>15.0<br>15.0<br>15 | Ground Surface         Top Soil         Brown, moist, mostly low plastic fines, trace         subrounded coarse sand, trace fine gravel medium         dense rootlets.         Lean Clay w/ Fill         Reddish brown, moist, dense mostly low plasticity fines, trace fine sand, trace fine to coarse gravel, orange brick.         As above, ash layer .5-inch thick at (3.0) fbgs.         Lean Clay         Reddish brown, moist, low to medium plastic fines, trace fine sand, stiff, rootlets, high toughness.         As above, trace coarse sand.         As above, grey fine sand filled fractures.         As above, trace, fine and coarse gravel.         As above, iron stained fine sand lenses.         As above.         Sandy Silt         Brown, wet, mostly, non-plastic fines, with some fine sand, medium dense.         As above.         End of Borehole | S1<br>S2<br>S3<br>S4<br>S5<br>S6<br>S7<br>S7<br>S8<br>S9<br>S10<br>S11 |             | 1.5         1.5         1.4         1.9         2.0         2.0         2.0         1.8         1.5         1.4         1.5 |        |   |  | See<br>analytical<br>table | Concrete Con | Currier Internation Internation Internation     September 18, 2010     Entronit       Currier Internation Internation     Entronite chips     Protective Casing |

Drilled By: Earth Dimensions, Inc Drill Rig Type: CME 550 Drill Method: 4 1/4-inch HSA w/Continous SS Comments: Drill Date(s): 9 14 10

Hole Size: 8 1/2-inch Stick-up: 2.5-fbgs Datum: NA

| Cli                  | <b>ent:</b> 295                | ase II Investigation<br>Maryland LLC.<br><b>on:</b> 295 Maryland, Buffalo, NY  | 2558 Ham<br>B | Restoration, LLC<br>TurnKey Environmental Restoration, LLC<br>2558 Hamburg Turnpike, Suite 300<br>Buffalo, NY 14218<br>(716) 856-0635 |               |        |                          |               |   |
|----------------------|--------------------------------|--|---------------|---|---------------|--------|--------------------------|---------------|---|
|                      |                                | SUBSURFACE PROFILE   | Ś             | SAM   | PLE           |        |                          |               |   |
| epth<br>ogs)         | Elev.<br>/Depth                | Description<br>(ASTM D2488: Visual-Manual Procedure)   | Sample No.    | SPT N-Value   | Recovery (ft) | Symbol | PID<br>VOCs<br>0 12.5 25 | Lab<br>Sample | Well Completion<br>Details<br>or<br>Remarks   |
| 3.0 —                |                                |  |               |   |               |        |                          |               | P   |
| -                    | 0.0<br>0.0                     | Ground Surface<br>Lean Clay W/Fill<br>Brown, moist, mostly non to low platicty fines with<br>some fine sand, few coarse sand and fine gravel           | S1            | 18  | 1.3           |        |                          |               | Concrete     Aconcrete     Aconcret |
| 2.0 —<br>-<br>-<br>- | -5.0<br>5.0                    | asphalt and brick.<br>Lean Clay<br>Reddish brown, moist, mostly medium plastic fines with<br>trace fine sand, very stiff, trace coarse sand, grey fine |               | 23  | 2.0           | -<br>7 |                          |               | 2" PVC Riser  |
| <br>-<br>-           | <u>-10.0</u><br>10.0           | sand partings, medium toughness.<br>As above, with brown fine sand lenses 0.05 to 0.1-inch   |               |   |               |        |                          |               | · · · · · · · · · · · · · · · · · · ·   |
| -<br><br>-           | -15.0                          | thick.   | S3            | 36  | 2.0           |        |                          |               | ptember 17, 200   |
| -<br>7.0<br>-        | 15.0                           | As above, no brown fine sand lenses.   | S4            | 12  | 2.0           |        |                          |               | 2" PVC Screen, 0.010" slot  |
|                      | -20.0<br>20.0<br>-22.0<br>22.0 | Sandy Silt<br>Brown, wet, mostly non plastic fines with some fine<br>sand, very dense, trace fine gravel.<br>End of Borehole                           | S5            | 61  | 1.6           |        |                          |               |   |

Drilled By: Earth Dimensions, Inc. Drill Rig Type: CME 550 Drill Method: 41/4-inch HSA w/Continous SS Comments: Drill Date(s): 9 14 10 Hole Size: 8 1/2-inch Stick-up: 2.5-feet Datum: NA

| Pi<br>Ci        | Project No: 0222-001-100Borehole Number: SB-5Project: Phase II investigationA.K.A.:Client: 295 Maryland LLC.Logged By: TABSite Location: 295 Maryland, Buffalo, NYChecked By: BCH |  |            |             |               |        |     |                        |                             | Benchmark Environmental Engineering & Science, PLLC<br>Benchmark Environmental Engineering & Science, PLLC<br>2558 Hamburg Turnpike, Suite 300<br>Buffalo, NY 14218<br>(716) 856-0599 |  |  |
|-----------------|---|--|------------|-------------|---------------|--------|-----|------------------------|-----------------------------|---|--|--|
|                 |   | SUBSURFACE PROFILE   |            | SAN         | 1PLE          |        |     |                        |                             |   |  |  |
| Depth<br>(fbgs) | Elev.<br>/Depth   | Description<br>(ASTM D2488: Visual-Manual Procedure)   | Sample No. | SPT N-Value | Recovery (ft) | Symbol | 0   | PID<br>VOCs<br>12.5 25 | Lab<br>Sample               | Well Completion<br>Details<br>or<br>Remarks   |  |  |
| 0.0-            | <u>0.0</u><br>0.0<br>-2.0<br>2.0  | Ground Surface<br>Lean Clay w/Fill<br>Reddish brown, moist, low to non plastic fines, trace<br>fine sand, very stiff, asphalt and glass piecies, cinders.<br>As above. | S1         | 20          | 2.0           |        | 0.0 |                        |                             |   |  |  |
| -               | <u>-4.0</u><br>4.0  |  | S2         | 20          | 1.4           |        | 0.0 |                        |                             |   |  |  |
| 5.0-            |   | <i>Lean Clay</i><br>Reddish brown, moist, low plasticity fines, trace fine<br>sand, very stiff, medium toughness.  | \$3        | 27          | 2.0           |        | 0.0 |                        | See<br>analytical<br>tables |   |  |  |
| -               | -6.0<br>6.0   | End of Borehole  |            |             |               |        |     |                        |                             |   |  |  |

Drilled By: Earth Dimensions, Inc. Drill Rig Type: CME 550 Drill Method: 4 1/4-inch HSA w/ Continous SS Comments: Drill Date(s): 9 13 10

Hole Size: 8 1/2-inch Stick-up: NA Datum: Mean Sea Level

# **APPENDIX D**

**GROUNDWATER SAMPLING LOGS** 



| Project Nar  | me: $29$  | 5 Mar   | VIA à  | St  |  |  | Date:  | 341   | //  |  |
|--|---|---|--|---|--|--|--|---|---|--|
| ocation:   | 295   | 5 Mari<br>Maryi                                   | 4000<br>400  | Project   | No.:   |  | Field Te   | <u>31,1</u><br>eam: pt.   |   |  |
| Well No  | o. m  | N-1   | Diameter (in   | iches):   | >  | Sample Dat   | e / Time: 🛛 🖇  | Hili  |   |  |
|  | pth (fbTOR):  | <u>~~ }</u>                                       | Water Colur  | · · · · · · · · · · · · · · · · · · ·   | and the second | DTW when   |  | (1.40)  |   |  |
| DTW (statio  |   | 5.95  | One Well Vo  | <u>`````</u>  |  |  |  | t 🗌 Sample  | ole 🛛 🔟 Purge & Sample  |  |
| Total Depth (fbTOR): 21.52                                   |   |   | Total Volum  | e Purged (gal):   |  | Purge Meth   | od: $L\alpha$  | V Flor  |   |  |
| Time   | Water<br>Level<br>(fbTOR)   | Acc.<br>Volume<br>(gallons)                       | pH<br>(units)  | Temp.<br>(deg. C)   | SC<br>(uS)   | Turbidity<br>(NTU)   | DO<br>(mg/L)   | ORP<br>(mV)   | Appearance &<br>Odor  |  |
|  | o Initial   |   | 23   | ž., (   | 11 - 25  | 54   | 1 51   | Im  | Clear   |  |
|  | 1 / 35  | 125   | 8.02   | 96  | 1158   | 38   | 1.91   | T/I   | 0.111   |  |
|  | 2 <u>9.60</u><br>3 5 40   | .50   | 7.24   | 1. 1.   | 1/60   | 61   | 1.69<br>2.27   | 197   | 1. CC   |  |
|  | <u> </u>  | . 75  | 1-2-21-  | 9.3<br>9.7  | 1100   | /  | a martine  | tior<br>tior  | (1 //   |  |
|  | 4 <u>70.</u>  | 1.0   | 1.09   | 7.)   | 1100   | -62  | 1-28   | $\left[ \begin{array}{c} H0 \end{array} \right]$  |   |  |
|  | 6   |   |  |   |  |  |  |   |   |  |
|  | 7   |   |  |   |  |  |  |   |   |  |
|  | 8   |   |  |   |  |  |  |   |   |  |
|  | 9   |   |  |   |  |  |  |   |   |  |
|  | 10  |   |  |   |  |  |  |   |   |  |
| Sample   | Information   |   |  |   |  |  |  |   |   |  |
|  | S1 71.40  | T   | 2.55   | 9.3   | 1071   | 152  | 2.08   | 7103  | Clean   |  |
| 1045   |   | 1   | 11-3-3   | 1.  | 1000   | 1 US   |  | 1105  | t the state and the second s   |  |
| /030   | \$2   |   | 2/33   | 7>  | 7071   |  | 2.08   | 1105  |   |  |
| 7030   | 1111-   |   | 1 - 3 - 4<br>  |   |  |  | <u> </u>   | 1105  |   |  |
|  | \$2   | <u></u>   |  |   |  |  | 0  | 2/1/1   |   |  |
| Well No  | 52<br>0. Mu   | 1-2   | Diameter (ir   | nches):   |  | Sample Dat   | le / Time:   | 3/1/11  |   |  |
| Well No<br>Product De  | \$2   | 13.30   | Diameter (ir<br>Water Colu   | nches):   |  | Sample Dat   | le / Time:   | 3/1/11  |   |  |
| Well No<br>Product De  | <b>o.</b> <i>f</i> <sub>h</sub> ( <i>b</i> )<br>ppth (fbTOR):<br>(c) (fbTOR):   |   | Diameter (ir<br>Water Colu<br>One Well V   | nches):<br>mn (ft):   |  | Sample Dat   | te / Time:<br>sampled:   | 3/1/1/<br>t   | e Purge & Sample  |  |
| Well Ne<br>Product De<br>DTW (stati                          | <b>o.</b> <i>f</i> <sub>h</sub> ( <i>b</i> )<br>ppth (fbTOR):<br>(c) (fbTOR):   | [3.30   | Diameter (ir<br>Water Colu<br>One Well V   | nches):<br>mn (fl):<br>clume (gal):   |  | Sample Dai<br>DTW when<br>Purpose:   | te / Time:<br>sampled:   | 3/1/1/<br>t   | e Purge & Sample  |  |
| Well No<br>Product De<br>DTW (stati<br>Total Depti           | o. M.G.<br>sz<br>o. M.G.<br>spth (foTOR):<br>c) (fbTOR):<br>h (fbTOR):<br>Water<br>Level  | /3.30<br>24.77<br>Acc.<br>Volume                  | Diameter (ir<br>Water Colui<br>One Well V<br>Total Volum<br>pH   | nches):<br>mn (fl):<br>olume (gal):<br>ne Purged (gal):<br>Temp.  | SC   | Sample Dai<br>DTW when<br>Purpose: [<br>Purge Meth<br>Turbidity  | te / Time:<br>sampled:<br>Developmen<br>od:  | 3/1/1/<br>t   | e Purge & Sample  |  |
| Well No<br>Product De<br>DTW (stati<br>Total Depti           | o. <u>M</u> (<br>epth (fbTOR):<br>c) (fbTOR):<br>h (fbTOR):<br>Water<br>Level<br>(fbTOR)  | /3.30<br>24.77<br>Acc.<br>Volume                  | Diameter (ir<br>Water Colui<br>One Well V<br>Total Volum<br>pH   | nches):<br>mn (fl):<br>olume (gal):<br>ne Purged (gal):<br>Temp.  | SC   | Sample Dai<br>DTW when<br>Purpose: [<br>Purge Meth<br>Turbidity  | te / Time:<br>sampled:<br>Developmen<br>od:  | 3/1/11<br>t Sample<br>v F100<br>ORP<br>(mV)   | Appearance & Odor   |  |
| Well No<br>Product De<br>DTW (stati<br>Total Dept<br>Time    | o. <u>M</u> (<br>ppth (fbTOR):<br>c) (fbTOR):<br>h (fbTOR):<br>Water<br>Level<br>(fbTOR)<br>o Initial   | 13.30<br>24.77<br>Acc.<br>Volume<br>(gallons)     | Diameter (ir<br>Water Coluu<br>One Well V<br>Total Volum<br>pH<br>(units)                                  | nches):<br>mn (fl):<br>olume (gal):<br>ne Purged (gal):<br>Temp.<br>(deg. C)  | SC<br>(uS)<br>(882-<br>185(  | Sample Dai<br>DTW when<br>Purpose: [<br>Purge Meth<br>Turbidity<br>(NTU)   | te / Time:<br>sampled:<br>Developmen<br>od:  | 3/1/1/<br>t Sample<br>v F100<br>ORP<br>(mV)   | Appearance & Odor   |  |
| Well No<br>Product De<br>DTW (stati<br>Total Dept<br>Time    | No.         Model           sz         0.         Model           opth (fbTOR):         (fbTOR):         (fbTOR):           c) (fbTOR):         Water         Level   | [3.30<br>24.77<br>Acc,<br>Volume<br>(gallons)     | Diameter (ir<br>Water Colur<br>One Well V<br>Total Volum<br>pH<br>(units)<br>7. 37<br>7. 27.<br>7. 07      | nches):<br>mn (ft):<br>olume (gal):<br>ne Purged (gal):<br>Temp.<br>(deg. C)  | sc<br>(us)<br>1882<br>1851<br>1846   | Sample Dai<br>DTW when<br>Purpose: [<br>Purge Meth<br>Turbidity<br>(NTU)   | te / Time:<br>sampled:<br>Developmen<br>od: 2 cc<br>DO<br>(mg/L)   | 3/1/11<br>t Sample<br>v F700<br>ORP<br>(mV)<br>+96<br>+97,<br>+69   | Appearance & Odor   |  |
| Well No<br>Product De<br>DTW (stati<br>Total Dept<br>Time    | 0. M (c)<br>ppth (fbTOR):<br>ic) (fbTOR):<br>ic) (fbTOR):<br>Water<br>Level<br>(fbTOR)<br>0 Initial<br>1 / 4 3<br>2 / 5 6<br>3 / 6 4<br>4 / 6 4   | [3.30<br>24.77<br>Acc.<br>Volume<br>(gallons)<br> | Diameter (ir<br>Water Coluu<br>One Well V<br>Total Volum<br>pH<br>(units)                                  | nches):<br>mn (fi):<br>olume (gal):<br>ne Purged (gal):<br>Temp.<br>(deg. C)<br>9.5<br>/ 0.3  | SC<br>(uS)<br>(882-<br>185(  | Sample Dai<br>DTW when<br>Purpose: [<br>Purge Meth<br>Turbidity<br>(NTU)   | te / Time:<br>sampled:<br>Developmen<br>od: / cc.<br>DO<br>(mg/L)<br>3.4/8<br>3.4/8  | 3/1/11<br>t Sample<br>v F700<br>ORP<br>(mV)<br>t96<br>t97   | Appearance & Odor   |  |
| Well No<br>Product De<br>DTW (stati<br>Total Dept<br>Time    | o. <u>M</u> (correction)<br>o. <u>M</u> (correction)<br>o. <u>M</u> (correction)<br>o. <u>M</u> (correction)<br>o. <u>M</u> (correction)<br>o. <u>M</u> (correction)<br>o. <u>M</u> (correction)<br>water<br>Level<br>(fbTOR)<br>o. <u>M</u> (correction)<br>o. <u>M</u> (  | [3.30<br>24.77<br>Acc.<br>Volume<br>(gallons)<br> | Diameter (ir<br>Water Colur<br>One Well V<br>Total Volum<br>pH<br>(units)<br>7. 37<br>7. 27.<br>7. 07      | nches):<br>mn (ft):<br>olume (gal):<br>ne Purged (gal):<br>Temp.<br>(deg. C)<br>  | sc<br>(us)<br>1882<br>1851<br>1846   | Sample Dai<br>DTW when<br>Purpose: [<br>Purge Meth<br>Turbidity<br>(NTU)   | te / Time:<br>sampled:<br>Developmen<br>od: /. cc.<br>DO<br>(mg/L)<br>3. 4 8<br>3. 4 1<br>3. 0 3   | 3/1/11<br>t Sample<br>v F700<br>ORP<br>(mV)<br>+96<br>+97,<br>+69   | Appearance & Odor   |  |
| Well No<br>Product De<br>DTW (stati<br>Total Dept<br>Time    | <b>o.</b> $M$ (b)<br>ppth (fbTOR):<br>(c) (fbTOR):<br>(c) (fbTOR):<br>(fbTOR):<br>Water<br>Level<br>(fbTOR)<br>I 1/4/3<br>I 2/5.6<br>I 5.6<br>G   | [3.30<br>24.77<br>Acc.<br>Volume<br>(gallons)<br> | Diameter (ir<br>Water Colur<br>One Well V<br>Total Volum<br>pH<br>(units)<br>7. 37<br>7. 27.<br>7. 07      | nches):<br>mn (ft):<br>olume (gal):<br>ne Purged (gal):<br>Temp.<br>(deg. C)<br>  | sc<br>(us)<br>1882<br>1851<br>1846   | Sample Dai<br>DTW when<br>Purpose: [<br>Purge Meth<br>Turbidity<br>(NTU)   | te / Time:<br>sampled:<br>Developmen<br>od: /. cc.<br>DO<br>(mg/L)<br>3. 4 8<br>3. 4 1<br>3. 0 3   | 3/1/11<br>t Sample<br>v F700<br>ORP<br>(mV)<br>+96<br>+97,<br>+69   | Appearance & Odor   |  |
| Well No<br>Product De<br>DTW (stati<br>Total Dept<br>Time    | No.         M. (.)           sz         Sz           O.         M. (.)           opth (fbTOR):         (fbTOR):           tribustorial         Mater           Level         (fbTOR):           Ø.         Initial           1         1.4.7           2         1.5.6           3         1.6.4           4         1.6.4           5         6           7         7  | [3.30<br>24.77<br>Acc.<br>Volume<br>(gallons)<br> | Diameter (ir<br>Water Colur<br>One Well V<br>Total Volum<br>pH<br>(units)<br>7. 37<br>7. 27.<br>7. 07      | nches):<br>mn (ft):<br>olume (gal):<br>ne Purged (gal):<br>Temp.<br>(deg. C)<br>  | sc<br>(us)<br>1882<br>1851<br>1846   | Sample Dai<br>DTW when<br>Purpose: [<br>Purge Meth<br>Turbidity<br>(NTU)   | te / Time:<br>sampled:<br>Developmen<br>od: /. cc.<br>DO<br>(mg/L)<br>3. 4 8<br>3. 4 1<br>3. 0 3   | 3/1/11<br>t Sample<br>v F700<br>ORP<br>(mV)<br>+96<br>+97,<br>+69   | Appearance & Odor   |  |
| Well No<br>Product De<br>DTW (stati<br>Total Dept<br>Time    | <b>O.</b> $M$ ( <i>b</i><br>ppth (fbTOR):<br><b>ic</b> ) (fbTOR):   | [3.30<br>24.77<br>Acc.<br>Volume<br>(gallons)<br> | Diameter (ir<br>Water Colur<br>One Well V<br>Total Volum<br>pH<br>(units)<br>7. 37<br>7. 27.<br>7. 07      | nches):<br>mn (ft):<br>olume (gal):<br>ne Purged (gal):<br>Temp.<br>(deg. C)<br>  | sc<br>(us)<br>1882<br>1851<br>1846   | Sample Dai<br>DTW when<br>Purpose: [<br>Purge Meth<br>Turbidity<br>(NTU)   | te / Time:<br>sampled:<br>Developmen<br>od: /. cc.<br>DO<br>(mg/L)<br>3. 4 8<br>3. 4 1<br>3. 0 3   | 3/1/11<br>t Sample<br>v F700<br>ORP<br>(mV)<br>+96<br>+97,<br>+69   | Appearance & Odor   |  |
| Well No<br>Product De<br>DTW (stati<br>Total Dept<br>Time    | <b>o.</b> $M_{10}$<br>sz<br><b>o.</b> $M_{10}$<br>sz<br><b>o.</b> $M_{10}$<br>sz<br><b>o.</b> $M_{10}$<br>sz<br><b>o.</b> $M_{10}$<br>sz<br><b>o.</b> $M_{10}$<br>water<br>Level<br>(fbTOR):<br><b>o.</b> $M_{10}$<br><b>o.</b>   | [3.30<br>24.77<br>Acc.<br>Volume<br>(gallons)<br> | Diameter (ir<br>Water Colur<br>One Well V<br>Total Volum<br>pH<br>(units)<br>7. 37<br>7. 27.<br>7. 07      | nches):<br>mn (ft):<br>olume (gal):<br>ne Purged (gal):<br>Temp.<br>(deg. C)<br>  | sc<br>(us)<br>1882<br>1851<br>1846   | Sample Dai<br>DTW when<br>Purpose: [<br>Purge Meth<br>Turbidity<br>(NTU)   | te / Time:<br>sampled:<br>Developmen<br>od: /. cc.<br>DO<br>(mg/L)<br>3. 4 8<br>3. 4 1<br>3. 0 3   | 3/1/11<br>t Sample<br>v F700<br>ORP<br>(mV)<br>+96<br>+97,<br>+69   | Appearance & Odor   |  |
| Well No<br>Product De<br>DTW (statil<br>Total Deptit<br>Time | <b>o.</b> $M$ (b)<br>ppth (fbTOR):<br>c) (fbTOR):<br>c) (fbTOR):<br><b>h</b> (fbTOR):<br><b>w</b> ater<br>Level<br>(fbTOR)<br><b>o</b> Initial<br><b>1</b> $J$ $J$ $J$ $J$<br><b>2</b> $J$ $S$ $G$<br><b>3</b> $J$ $G$ $Y$<br><b>4</b> $J$ $G$ $Y$<br><b>5</b><br><b>6</b><br><b>7</b><br><b>8</b><br><b>9</b><br><b>10</b>   | [3.30<br>24.77<br>Acc.<br>Volume<br>(gallons)<br> | Diameter (ir<br>Water Colur<br>One Well V<br>Total Volum<br>pH<br>(units)<br>7. 37<br>7. 27.<br>7. 07      | nches):<br>mn (ft):<br>olume (gal):<br>ne Purged (gal):<br>Temp.<br>(deg. C)<br>  | sc<br>(us)<br>1882<br>1851<br>1846   | Sample Dai<br>DTW when<br>Purpose: [<br>Purge Meth<br>Turbidity<br>(NTU)   | te / Time:<br>sampled:<br>Developmen<br>od: /. cc.<br>DO<br>(mg/L)<br>3. 4 8<br>3. 4 1<br>3. 0 3   | 3/1/11<br>t Sample<br>v F700<br>ORP<br>(mV)<br>+96<br>+97,<br>+69   | Appearance & Odor   |  |
| Well No<br>Product De<br>DTW (statil<br>Total Deptil<br>Time | <b>o.</b> $f_{h}$ ( <i>b</i> )<br>spth ( <i>f</i> )( <b>b</b> )<br>( <i>f</i> )( <b>f</b> | [3.30<br>24.77<br>Acc.<br>Volume<br>(gallons)<br> | Diameter (ir<br>Water Coluu<br>One Well V<br>Total Volum<br>pH<br>(units)<br>7.37<br>7.37<br>7.37<br>7.07  | nches):<br>min (fi):<br>clume (gal):<br>ne Purged (gal):<br>Temp.<br>(deg. C)<br>9.5<br>/ 0-3<br>/ ()-7<br>/ 0-7                      | с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с   | Sample Dai<br>DTW when<br>Purpose: [<br>Purge Meth<br>Turbidity<br>(NTU)   | te / Time:<br>sampled:<br>Developmen<br>od: 2 cc.<br>DO<br>(mg/L)<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.4 | 3/1/11<br>t Sample<br>v F700<br>ORP<br>(mV)<br>t 96<br>t 97,<br>t 69<br>t 56  | Appearance & Sample<br>V<br>Appearance & Odor<br>TUIBIO<br>TUIBIO<br>TUIBIO<br>TUIBIO<br>TUIBIO<br>TUIBIO<br>TUIBIO<br>TUIBIO<br>TUIBIO<br>TUIBIO   |  |
| Well No<br>Product De<br>DTW (statil<br>Total Deptil<br>Time | $12.7$ sz         O. $M_{10}$ opth (fbTOR): $12.7$ ic) (fbTOR): $12.7$ water $12.7$ Level $(fbTOR)$ : $0$ Initial $1$ $14.7$ $22.7$ $2$ $15.6$ $3.76.7$ $4.76.7$ $3.76.7$ $4.76.7$ $5.76$ $6.77$ $8.99$ $9.910$ $10.96.57$ Information $$1.19.65$ $5.19.65$ $5.119.65$ $5.119.65$   | [3.30<br>24.77<br>Acc.<br>Volume<br>(gallons)<br> | Diameter (ir<br>Water Colur<br>One Well V<br>Total Volum<br>pH<br>(units)<br>7. 37<br>7. 27.<br>7. 07      | nches):<br>mn (ft):<br>olume (gal):<br>ne Purged (gal):<br>Temp.<br>(deg. C)<br>(deg. C)<br>9.5<br>/ 0.3<br>/ 0.3                     | sc<br>(us)<br>1882<br>1851<br>1846   | Sample Dai<br>DTW when<br>Purpose: [<br>Purge Meth<br>Turbidity<br>(NTU)   | te / Time:<br>sampled:<br>Developmen<br>od: /. cc.<br>DO<br>(mg/L)<br>3. 4 8<br>3. 4 1<br>3. 0 3   | 3/1/11<br>t Sample<br>v F700<br>ORP<br>(mV)<br>t 96<br>t 97,<br>t 69<br>t 56  | Appearance & Odor   |  |
| Well No<br>Product De<br>DTW (statil<br>Total Deptil<br>Time | <b>o.</b> $f_{h}$ ( <i>b</i> )<br>spth ( <i>f</i> )( <b>b</b> )<br>( <i>f</i> )( <b>f</b> | [3.30<br>24.77<br>Acc.<br>Volume<br>(gallons)<br> | Diameter (ir<br>Water Coluu<br>One Well V<br>Total Volum<br>pH<br>(units)<br>7.37<br>7.37<br>7.37<br>7.07  | nches):<br>min (fi):<br>clume (gal):<br>ne Purged (gal):<br>Temp.<br>(deg. C)<br>9.5<br>/ 0-3<br>/ ()-7<br>/ 0-7                      | с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с   | Sample Dai<br>DTW when<br>Purpose: [<br>Purge Meth<br>Turbidity<br>(NTU)   | te / Time:<br>sampled:<br>Developmen<br>od: 2 cc.<br>DO<br>(mg/L)<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.4 | $3/1/11$ t $\Box$ Sample<br>$V = F1 \circ v$<br>ORP (mV)<br>+G6<br>+G2<br>+G2<br>+G56<br>+G2<br>+G56<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+G2<br>+  | Appearance & Odor<br>V<br>Appearance & 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 |  |
| Well No<br>Product De<br>DTW (statil<br>Total Deptil<br>Time | <b>o.</b> $M$ (b) $C$<br>spth (fbTOR):<br>c) (fbTOR):<br>h (fbTOR):<br>h (fbTOR):<br>Vater Level (fbTOR)<br>o Initial<br>1 / U / 2<br>2 / 5 / 6<br>3 / 6 / 7<br>4 / 6 / 7<br>5<br>6<br>7<br>8<br>9<br>10<br>Information<br>S1 / G / 6 / 7   | 3.30<br>24.77<br>Acc.<br>Volume<br>(gallons)<br>  | Diameter (ir<br>Water Coluu<br>One Well V<br>Total Volum<br>pH<br>(units)<br>7.27.<br>7.07<br>7.07<br>7.07 | nches):<br>min (fi):<br>olume (gal):<br>ne Purged (gal):<br>Temp.<br>(deg. C)<br>9.5<br>/0.3<br>/().7<br>/0.7<br>/0.7<br>/0.7<br>/0.7 | с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с   | Sample Dat<br>DTW when<br>Purpose: [<br>Purge Meth<br>Turbidity<br>(NTU)   | te / Time:<br>sampled:<br>Developmen<br>od: 1 ca<br>DO<br>(mg/L)<br>3.48<br>3.91<br>3.03<br>2.99<br>2.99   | $\frac{3/1/11}{1}$ t $\Box$ Sample<br>$\sim 1700$<br>ORP<br>(mV)<br>$\pm 96$<br>$\pm 97$<br>$\pm 96$<br>$\pm 97$<br>$\pm 69$<br>$\pm 56$<br>$\Box$<br>= 1<br>Stat   |   |  |
| Well No<br>Product De<br>DTW (statil<br>Total Deptil<br>Time | $12.7$ sz         O. $M_{10}$ opth (fbTOR): $12.7$ ic) (fbTOR): $12.7$ water $12.7$ Level $(fbTOR)$ : $0$ Initial $1$ $14.7$ $22.7$ $2$ $15.6$ $3.76.7$ $4.76.7$ $3.76.7$ $4.76.7$ $5.76$ $6.77$ $8.99$ $9.910$ $10.96.57$ Information $$1.19.65$ $5.19.65$ $5.119.65$ $5.119.65$   | 3.30<br>24.77<br>Acc.<br>Volume<br>(gallons)<br>  | Diameter (ir<br>Water Coluu<br>One Well V<br>Total Volum<br>pH<br>(units)<br>7.27.<br>7.07<br>7.07<br>7.07 | nches):<br>min (fi):<br>olume (gal):<br>ne Purged (gal):<br>Temp.<br>(deg. C)<br>9.5<br>/0.3<br>/().7<br>/0.7<br>/0.7<br>/0.7<br>/0.7 | с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с   | Sample Dai<br>DTW when<br>Purpose: [<br>Purge Meth<br>Turbidity<br>(NTU)<br>>/00<br>& t<br>}<br>00<br>& t<br>}<br>00<br>& t<br>}<br>00<br>& t<br>}<br>00<br>& t<br>}<br>00<br>& t<br>]<br>00<br>& t<br>]<br>00<br>& t<br>]<br>00<br>& t<br>]<br>00<br>& t<br>]<br>00<br>& t<br>]<br>00<br>& t<br>]<br>00<br>& 0<br>00<br>& 0<br>00<br>& 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | te / Time:<br>sampled:<br>Developmen<br>od: 2 cc.<br>DO<br>(mg/L)<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.48<br>3.4 | $\frac{3}{1}$ t Sample<br>$\frac{700}{0RP}$ (mV)<br>$\frac{1466}{492}$ t 66<br>t 67<br>t 56<br>$\frac{1456}{1}$ T 76<br>$\frac{1456}{1}$ T 76<br>$\frac{1466}{1}$ T 76 T 76<br>$\frac{1466}{$ | Appearance &<br>Odor<br>1013D<br>1013D<br>1013D<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>10130<br>1010 |  |

Note: All water level measurements are in feet, distance from top of riser.

PREPARED BY: RLD

4<sup>#</sup>

6"

0.653

1.469

DO

ORP

± 0.3 mg/L ± 10 mV

| G | BENCHMARK                                       |
|---|---|
| G | ENVIRONMENTAL<br>Engineering &<br>Science, PLLC |

### GROUNDWATER FIELD FORM

| Project Name: | 295 Mai  | w Mud              | Date:                   | 3/1/11 |
|---------------|----------|--------------------|-------------------------|--------|
| Location:     | 295 Mary | Project No.:       | Field Team:             | PUD    |
|               |          |                    |                         | *      |
| Well No.      | mw-3     | Diameter (inches): | Sample Date / Time: 2/1 | h i    |

| Product De  | pth (fbTOR):              |                             | Water Colur     | ກກ (ft)·          |                        | DTW when sampled:  |  |             |                      |  |  |  |
|---|---------------------------|-----------------------------|-----------------|-------------------|------------------------|--------------------|--|-------------|----------------------|--|--|--|
|   | ·                         | 12.35                       | One Well Vo     | 2                 |                        |                    | Purpose: Development Sample Purge & Sample |             |                      |  |  |  |
| DTW (static) (fbTOR): (2.35<br>Total Depth (fbTOR): 24.8) |                           |                             | e Purged (gal): | :                 | Purge Method: Low Flow |                    |  |             |                      |  |  |  |
| Time  | Water<br>Level<br>(fbTOR) | Acc.<br>Volume<br>(gallons) | pH<br>(units)   | Temp.<br>(deg. C) | SC<br>(uS)             | Turbidity<br>(NTU) | DO<br>(mg/L)                               | ORP<br>(mV) | Appearance &<br>Odor |  |  |  |
|   | o Initial                 |                             |                 |                   |                        |                    |  |             |                      |  |  |  |
| 1137  | 1 /3.7                    | . 25                        | 7.28            | 9.1               | 2843                   | >100               | 414  | 1196        | turki d              |  |  |  |
|   | 2 14.8                    | ,75                         | 6-97            | 10.2              | 2846                   | 90                 | LIGT_                                      | 1209        | ( <sup>1</sup> (     |  |  |  |
|   | 3 5.8                     |                             | 6.93            | 10.1              | 2831                   | 95                 | 407  | 1219        |                      |  |  |  |
|   | 4 16.4                    | 1.25                        | 6.66            | 9.8               | 2834                   | 99                 | 3.98                                       | 1220        | .ξ. Č.ξ              |  |  |  |
|   | 6                         |                             | 0.10            | ,                 | 1                      |                    |  |             |                      |  |  |  |
|   | 6                         |                             |                 |                   |                        |                    |  |             |                      |  |  |  |
|   | 7                         |                             |                 |                   |                        |                    |  |             |                      |  |  |  |
|   | 18                        |                             |                 |                   |                        |                    |  |             |                      |  |  |  |
|   | 9                         |                             |                 |                   |                        |                    |  |             |                      |  |  |  |
|   | 10                        |                             |                 |                   |                        |                    |  |             |                      |  |  |  |
| Sample  | Information               | •                           |                 |                   |                        |                    |  |             |                      |  |  |  |
| 149   | SI 199                    |                             | 6.47            | /6.1              | 2832                   | 88                 | 293  | +172        | TUBI()               |  |  |  |
|   | S2                        |                             |                 |                   |                        | 0.0                |  |             |                      |  |  |  |

| Well No                  | . Mw                      | 1-4                         | Diameter (ir  | nches): 2         |            | Sample                | Sample Date / Time: 3/1/1/ |              |             |                      |  |  |
|--------------------------|---------------------------|-----------------------------|---------------|-------------------|------------|-----------------------|----------------------------|--------------|-------------|----------------------|--|--|
| Product De               |                           | /                           | Water Colu    | nn (ft):          |            | DTW wi                | en sam                     | pled:        | - · ¢       |                      |  |  |
| DTW (static              | ) (fbTOR): /              | 0.19                        | One Well V    | olume (gal):      |            |                       |                            |              |             | Purge & Sample       |  |  |
| Total Depth (fbTOR): 242 |                           |                             | Total Volum   | e Purged (gal):   |            | Purge Method: 204 How |                            |              |             |                      |  |  |
| Time                     | Water<br>Level<br>(fbTOR) | Acc.<br>Volume<br>(gallons) | pH<br>(units) | Temp.<br>(deg. C) | SC<br>(uS) | Turbidity<br>(NTU)    |                            | DO<br>(mg/L) | ORP<br>(mV) | Appearance &<br>Odor |  |  |
|                          | o Initial                 |                             |               |                   |            |                       |                            |              |             |                      |  |  |
|                          | 1/1.9                     | ,50                         | 7.21          | 8.4               | 1850       | 78                    | 4                          | 1.85         | +114        | Cloudy               |  |  |
|                          | 2 13.7                    | , 75                        | 20            | 9.0               | 1836       | Sloc                  | $\rightarrow l$            | 1.88         | +115        | TIMBIN               |  |  |
|                          | 3 153                     | 1                           | 7.18          | Ś.y               | 1852       | 710                   | ) $l$                      | 1.84         | +126        | (( ()                |  |  |
|                          | 4                         |                             |               | 0 /               |            | 3-                    |                            | ~ <i>,</i>   |             |                      |  |  |
|                          | 5                         |                             |               |                   |            |                       |                            |              |             |                      |  |  |
|                          | 6                         |                             |               |                   |            |                       |                            |              |             |                      |  |  |
|                          | 7                         |                             |               |                   |            |                       |                            |              |             |                      |  |  |
|                          | 8                         |                             |               |                   |            |                       |                            |              |             |                      |  |  |
|                          | 9                         |                             |               |                   |            |                       |                            |              |             |                      |  |  |
|                          | 10                        |                             |               |                   |            |                       |                            |              |             |                      |  |  |
| Sample I                 | nformation:               |                             |               |                   |            |                       |                            |              |             |                      |  |  |
| 1118                     | S1 2 [.4]                 | S                           | 2.16          | 10                | 1781       | >100                  |                            | .72          | 1121        | 10/30                |  |  |
| Ъ.                       | S2                        |                             |               |                   |            |                       |                            |              |             |                      |  |  |
|                          | ~                         |                             |               |                   |            |                       |                            |              |             | lization Criteria    |  |  |
| REMARK                   | S: BLW                    | aplication                  | ( Jaken       | at m              | UB FO      | 12.                   |                            | Calculation  | Parame      |                      |  |  |
| Vocs                     | ¢ pes                     | heder                       |               |                   |            |                       | Diam.                      | Vol. (g/ft)  | рH          | ± 0.1 unit           |  |  |
| *                        | r                         |                             |               |                   |            | 1                     | 1"                         | 0.041        | SC          | ± 3%                 |  |  |

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 Diam.
 Vol. (g/it)
 pH

 1<sup>n</sup>
 0.041
 SC

 2<sup>n</sup>
 0.163
 Turbidity

 4<sup>n</sup>
 0.653
 DO

 6<sup>n</sup>
 1.469
 ORP

± 10%

± 0.3 mg/L

± 10 mV

Note: All water level measurements are in feet, distance from top of riser.

PREPARED BY: Red

# **APPENDIX E**

## LABORATORY ANALYTICAL DATA





### Analytical Report

SDG Number: RTI0959

Project Description(s) Work Order RTI0959 - Benchmark - 295 Maryland St. site Work Order RTI1016 - Benchmark - 295 Maryland St. site

For:

Tom Forbes

Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

S.

Brian Fischer Project Manager Brian.Fischer@testamericainc.com Thursday, September 30, 2010

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exception to NELAP requirements are noted in this report. Persuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project manager who has signed this report.

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Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218 SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

## TestAmerica Buffalo Current Certifications

#### As of 08/16/2010

| STATE          | Program                     | Cert # / Lab ID  |
|----------------|-----------------------------|------------------|
| Arkansas       | CWA, RCRA, SOIL             | 88-0686          |
| California*    | NELAP CWA, RCRA             | 01169CA          |
| Connecticut    | SDWA, CWA, RCRA, SOIL       | PH-0568          |
| Florida*       | NELAP CWA, RCRA             | E87672           |
| Georgia*       | SDWA,NELAP CWA, RCRA        | 956              |
| Illinois*      | NELAP SDWA, CWA, RCRA       | 200003           |
| Iowa           | SW/CS                       | 374              |
| Kansas*        | NELAP SDWA, CWA, RCRA       | E-10187          |
| Kentucky       | SDWA                        | 90029            |
| Kentucky UST   | UST                         | 30               |
| Louisiana*     | NELAP CWA, RCRA             | 2031             |
| Maine          | SDWA, CWA                   | NY0044           |
| Maryland       | SDWA                        | 294              |
| Massachusetts  | SDWA, CWA                   | M-N Y044         |
| Michigan       | SDWA                        | 9937             |
| Minnesota      | SDWA, CWA, RCRA             | 036-999-337      |
| New Hampshire* | NELAP SDWA, CWA             | 233701           |
| New Jersey*    | NELAP,SDWA, CWA, RCRA,      | NY455            |
| New York*      | NELAP, AIR, SDWA, CWA, RCRA | 10026            |
| North Dakota   | CWA, RCRA                   | R-176            |
| Oklahoma       | CWA, RCRA                   | 9421             |
| Oregon*        | CWA, RCRA                   | NY200003         |
| Pennsylvania*  | NELAP CWA,RCRA              | 68-00281         |
| Tennessee      | SDWA                        | 02970            |
| Texas*         | NELAP CWA, RCRA             | T104704412-08-TX |
| USDA           | FOREIGN SOIL PERMIT         | S-41579          |
| Virginia       | SDWA                        | 278              |
| Washington*    | NELAP CWA,RCRA              | C1677            |
| Wisconsin      | CWA, RCRA                   | 998310390        |
| West Virginia  | CWA, RCRA                   | 252              |

\*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parame ters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218 SDG Number: RTI0959

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066 Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

#### CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

S

Brian Fischer Project Manager

Thursday, September 30, 2010

There are pertinent documents appended to this report, 2 pages, are included and are an integral part of this report.

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.



Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218 SDG Number: RTI0959 Project: Benchmark - 295 Maryland St. site Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project Number: TURN-0066

The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to the lab MDL. It must be noted that results reported below lab standard quantitation limits (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

| SpecificMethod | Analyte        | <u>Units</u> | Client RL | Lab PQL |
|----------------|----------------|--------------|-----------|---------|
| 8270C          | 4-Methylphenol | ug/kg dry    | 170       | 330     |

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|---|---|
| 2558 Hamburg Turnpike, Suite 300              |   |
| Lackawanna, NY 14218                          | Ρ |
|   | F |

SDG Number: RTI0959

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066 Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

#### DATA QUALIFIERS AND DEFINITIONS

- B Analyte was detected in the associated Method Blank.
- **B1** Analyte was detected in the associated method / calibration blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
- C Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected above the laboratory PQL, data not impacted.
- C8 Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.D02 Dilution required due to sample matrix effects
- J Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
- L Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- M7 The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
- M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
- QFL Florisil clean-up (EPA 3620) performed on extract.
- **QSU** Sulfur (EPA 3660) clean-up performed on extract.
- NR Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

#### ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

TestAmerica

Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218 SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |                                    | I                   | Executive  | Summa        | ry - Detecti                                | ons          |                                  |      |                    |                |
|---|------------------------------------|---------------------|------------|--------------|---|--------------|----------------------------------|------|--------------------|----------------|
|   | Sample                             | Data                |            |              |   | Dil          | Date                             | Lab  |                    |                |
| Analyte   | Result                             | Qualifiers          | RL         | MDL          | Units                                       | Fac          | Analyzed                         | Tech | Batch              | Method         |
| Client ID: MW-3 (4-6) (F                                | RTI1016-01 - So                    | olid)               |            |              | Sampled: 09/14/10 10:40 Recvd: 09/15/10 14: |              |                                  |      |                    |                |
| Volatile Organic Comp                                   | ounds by EPA                       | 8260B               |            |              |   |              |                                  |      |                    |                |
| Methylene Chloride                                      | 7.9                                |                     | 5.4        | 2.5          | ug/kg dry                                   | 1.00         | 09/21/10 22:14                   | CDC  | 10 1494            | 8260B          |
| Total Metals by SW 84                                   | 6 Series Metho                     | ods                 |            |              |   |              |                                  |      |                    |                |
| Aluminum  | 11600                              |                     | 10.2       | NR           | mg/kg dry                                   | 1.00         | 09/22/10 18:47                   | DAN  | 10 1415            | 6010B          |
| Arsenic   | 4.5                                |                     | 2.0        | NR           | mg/kg dry                                   | 1.00         | 09/22/10 18:47                   | DAN  | 10 1415            | 6010B          |
| Barium  | 136                                |                     | 0.511      | NR           | mg/kg dry                                   | 1.00         | 09/22/10 18:47                   | DAN  | 10 1415            | 6010B          |
| Beryllium   | 0.562                              |                     | 0.204      | NR           | mg/kg dry                                   | 1.00         | 09/22/10 18:47                   | DAN  | 10 1415            | 6010B          |
| Calcium   | 55100                              |                     | 51.1       | NR           | mg/kg dry                                   | 1.00         | 09/22/10 18:47                   | DAN  | 10 1415            | 6010B          |
| Chromium  | 14.3                               |                     | 0.511      | NR           | mg/kg dry                                   | 1.00         | 09/22/10 18:47                   | DAN  | 10 1415            | 6010B          |
| Cobalt  | 13.0                               |                     | 0.511      | NR           | mg/kg dry                                   | 1.00         | 09/22/10 18:47                   | DAN  | 10 1415            | 6010B          |
|   | 19.4                               |                     | 1.0        | NR           |   | 1.00         | 09/22/10 18:47                   |      | 1011415            | 6010B          |
| Copper  |                                    |                     |            |              | mg/kg dry                                   |              |                                  | DAN  |                    |                |
| Iron  | 18000                              |                     | 10.2       | NR           | mg/kg dry                                   | 1.00         | 09/22/10 18:47                   | DAN  | 10 1415            | 6010B          |
| Lead  | 14.7                               |                     | 1.0        | NR           | mg/kg dry                                   | 1.00         | 09/22/10 18:47                   | DAN  | 10 1415            | 6010B          |
| Magnesium   | 20600                              |                     | 20.4       | NR           | mg/kg dry                                   | 1.00         | 09/22/10 18:47                   | DAN  | 10 1415            | 6010B          |
| Manganese   | 648                                | B1, B               | 0.2        | NR           | mg/kg dry                                   | 1.00         | 09/22/10 18:47                   | DAN  | 10 1415            | 6010B          |
| Nickel  | 22.0                               |                     | 5.11       | NR           | mg/kg dry                                   | 1.00         | 09/22/10 18:47                   | DAN  | 10 1415            | 6010B          |
| Potassium   | 1820                               |                     | 30.7       | NR           | mg/kg dry                                   | 1.00         | 09/22/10 18:47                   | DAN  | 10 1415            | 6010B          |
| Sodium  | 260                                |                     | 143        | NR           | mg/kg dry                                   | 1.00         | 09/22/10 18:47                   | DAN  | 10 1415            | 6010B          |
| Vanadium  | 21.6                               |                     | 0.511      | NR           | mg/kg dry                                   | 1.00         | 09/22/10 18:47                   | DAN  | 10 1415            | 6010B          |
| Zinc  | 68.6                               |                     | 2.0        | NR           | mg/kg dry                                   | 1.00         | 09/22/10 18:47                   | DAN  | 10 1415            | 6010B          |
| Mercury   | 0.0218                             |                     | 0.0213     | NR           | mg/kg dry                                   | 1.00         | 09/20/10 15:32                   | JRK  | 10 1343            | 7471A          |
| General Chemistry Pa                                    | rameters                           |                     |            |              |   |              |                                  |      |                    |                |
| Percent Solids  | 90                                 |                     | 0.010      | NR           | %   | 1.00         | 09/16/10 16:43                   | JRR  | 1011002            | Dry Weight     |
| Client ID: SB-5 (0-2) (R                                | TI0959-01 - Sol                    | lid)                |            |              | Samp  | led: 09/     | /13/10 10:50                     | Recv | /d: 09/14/1        | 0 12:10        |
| Volatile Organic Comp                                   | ounds by EPA                       | 8260B               |            |              |   |              |                                  |      |                    |                |
| Methylene Chloride                                      | 3.5                                | J                   | 6.3        | 2.9          | ug/kg dry                                   | 1.00         | 09/18/10 16:20                   | PJQ  | 10 1220            | 8260B          |
| -   | by CC/MS                           |                     |            |              | 00,   |              |                                  |      |                    |                |
| Semivolatile Organics                                   |                                    |                     |            |              |   |              |                                  |      |                    |                |
| Anthracene  | 20                                 | J                   | 210        | 5.4          | ug/kg dry                                   | 1.00         | 09/22/10 23:09                   | JLG  | 10 1091            | 8270C          |
| Benzo(a)anthracene                                      | 73                                 | J                   | 210        | 3.6          | ug/kg dry                                   | 1.00         | 09/22/10 23:09                   | JLG  | 10 1091            | 8270C          |
| Benzo(a)pyrene  | 59                                 | J                   | 210        | 5.1          | ug/kg dry                                   | 1.00         | 09/22/10 23:09                   | JLG  | 1011091            | 8270C          |
| Benzo(b)fluoranthene                                    | 84                                 | J                   | 210        | 4.1          | ug/kg dry                                   | 1.00         | 09/22/10 23:09                   | JLG  | 1011091            | 8270C          |
| Benzo(ghi)perylene                                      | 47                                 | J                   | 210        | 2.5          | ug/kg dry                                   | 1.00         | 09/22/10 23:09                   | JLG  | 1011091            | 8270C          |
| Benzo(k)fluoranthene                                    | 31                                 | J                   | 210        | 2.3          | ug/kg dry                                   | 1.00         | 09/22/10 23:09                   | JLG  | 1011091            | 8270C          |
| Bis(2-ethylhexyl)<br>phthalate                          | 120                                | J                   | 210        | 68           | ug/kg dry                                   | 1.00         | 09/22/10 23:09                   | JLG  | 10 1091            | 8270C          |
| Chrysene  | 77                                 | J                   | 210        | 2.1          | ug/kg dry                                   | 1.00         | 09/22/10 23:09                   | JLG  | 10 1091            | 8270C          |
| Fluoranthene  | 150                                | J                   | 210        | 3.1          | ug/kg dry                                   | 1.00         | 09/22/10 23:09                   | JLG  | 10 1091            | 8270C          |
| Indeno(1,2,3-cd)pyrene                                  | 43                                 | J                   | 210        | 5.8          | ug/kg dry                                   | 1.00         | 09/22/10 23:09                   | JLG  | 10 1091            | 8270C          |
| Phenanthrene  | 100                                | J                   | 210        | 4.4          | ug/kg dry                                   | 1.00         | 09/22/10 23:09                   | JLG  | 10 1091            | 8270C          |
| Pyrene  | 120                                | J                   | 210        | 1.4          | ug/kg dry                                   | 1.00         | 09/22/10 23:09                   | JLG  | 10 1091            | 8270C          |
| -   |                                    |                     |            |              |   |              |                                  |      |                    |                |
|   |                                    | <u>lethod 8081A</u> |            |              |   |              |                                  |      |                    |                |
| Organochlorine Pestic<br>4,4'-DDE [2C]<br>4,4'-DDT [2C] | <u>ides by EPA N</u><br>4.1<br>4.0 | <u>1ethod 8081A</u> | 2.1<br>2.1 | 0.31<br>0.21 | ug/kg dry<br>ug/kg dry                      | 1.00<br>1.00 | 09/18/10 14:46<br>09/18/10 14:46 |      | 10 1075<br>10 1075 | 8081A<br>8081A |

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Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218 SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                          |                  | I           | Executive | Summa | ry - Detecti | ons      |                |      |             |            |
|--------------------------|------------------|-------------|-----------|-------|--------------|----------|----------------|------|-------------|------------|
|                          | Sample           | Data        |           |       |              | Dil      | Date           | Lab  |             |            |
| Analyte                  | Result           | Qualifiers  | RL        | MDL   | Units        | Fac      | Analyzed       | Tech | Batch       | Method     |
| Client ID: SB-5 (0-2) (I | RTI0959-01 - Sol | id) - cont. |           |       | Samp         | led: 09/ | /13/10 10:50   | Recv | vd: 09/14/1 | 0 12:10    |
| Total Metals by SW 8     | 46 Series Metho  | <u>ods</u>  |           |       |              |          |                |      |             |            |
| Aluminum                 | 13800            |             | 12.3      | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Arsenic                  | 6.4              |             | 2.5       | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Barium                   | 133              |             | 0.613     | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Beryllium                | 0.649            |             | 0.245     | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Cadmium                  | 0.621            |             | 0.245     | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Calcium                  | 13200            |             | 61.3      | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Chromium                 | 19.2             |             | 0.613     | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Cobalt                   | 11.8             |             | 0.613     | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Copper                   | 22.7             |             | 1.2       | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Iron                     | 23600            |             | 12.3      | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Lead                     | 85.3             |             | 1.2       | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Magnesium                | 9340             |             | 24.5      | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Manganese                | 904              | B1, B       | 0.2       | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Nickel                   | 21.6             |             | 6.13      | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Potassium                | 1910             |             | 36.8      | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Vanadium                 | 28.5             |             | 0.613     | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Zinc                     | 135              |             | 2.5       | NR    | mg/kg dry    | 1.00     | 09/22/10 18:41 | DAN  | 10 1415     | 6010B      |
| Mercury                  | 0.167            |             | 0.0249    | NR    | mg/kg dry    | 1.00     | 09/20/10 15:30 | JRK  | 10 1343     | 7471A      |
| General Chemistry P      | arameters        |             |           |       |              |          |                |      |             |            |
| Percent Solids           | 79               |             | 0.010     | NR    | %            | 1.00     | 09/16/10 10:26 | JRR  | 1010914     | Dry Weight |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

| Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 | SDG Number: RTI0959   | Received:<br>Reported: | 09/14/10-09/15/10<br>09/30/10 11:33 |
|--|---|------------------------|-------------------------------------|
| Lackawanna, NY 14218   | Project: Benchmark - 295 Maryland St. site<br>Project Number: TURN-0066 |                        |                                     |

### Sample Summary

| Sample Identification | Lab Number | Client Matrix | Date/Time<br>Sampled | Date/Time<br>Received | Sample<br>Qualifiers |
|-----------------------|------------|---------------|----------------------|-----------------------|----------------------|
| MW-3 (4-6)            | RTI1016-01 | Solid         | 09/14/10 10:40       | 09/15/10 14:45        |                      |
| SB-5 (0-2)            | RTI0959-01 | Solid         | 09/13/10 10:50       | 09/14/10 12:10        |                      |

TestAmerica

#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

G Number: K110959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

| Client ID: MW-3 (4-6) (RT11016-01 - Solid)         Sampled: 09/14/10 10:40         Recvd: 09/15/10 14:44           Volatile Organic Compounds by EPA 8260E         1.1.1-Trichlorocethane         ND         5.4         0.39         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         82           1.1.2.2-Trichlorocethane         ND         5.4         0.71         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         82           1.1.2-Trichlorocethane         ND         5.4         0.71         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         82           1.1-Dichlorocethane         ND         5.4         0.67         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         82           1.1-Dichlorocethane         ND         5.4         0.67         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         82           1.2-Dichloroberane         ND         5.4         0.70         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         82           1.2-Dichloroberane         ND         5.4         0.73         ug/kg dry         1.00         09/21/10 22:14         CDC   |                              |              |            | А   | nalytical | Report    |          |                |      |             |                |
|---|------------------------------|--------------|------------|-----|-----------|-----------|----------|----------------|------|-------------|----------------|
| Client D:         Unit O:         Sampled:         By dy dy 100         Object:         By dy dy 10.00         Recvd:         Object:         Object:         Display         Recvd:         Object:         Display  |                              | -            |            |     |           |           |          |                |      |             |                |
| Volatile Organic Compounds by EPA 8260B           1.1.1.2-Trichoroethane         ND         5.4         0.39         ug/k gfy         1.00         0921/10.22:14         CDC         101494         828           1.1.2.2-Trichoroethane         ND         5.4         0.88         ug/k gfy         1.00         0921/10.22:14         CDC         101494         828           1.1.2-Trichoroethane         ND         5.4         0.86         ug/k gfy         1.00         0921/10.22:14         CDC         101494         828           1.1.2-Trichoroethane         ND         5.4         0.86         ug/k gfy         1.00         0921/10.22:14         CDC         101494         828           1.2-Dichoroethane         ND         5.4         0.87         ug/k gfy         1.00         0921/10.22:14         CDC         101494         828           1.2-Dichoroethane         ND         5.4         0.43         ug/k gfy         1.00         0921/10.22:14         CDC         101494         828           1.2-Dichoroethane         ND         5.4         0.70         ug/k gfy         1.00         0921/10.22:14         CDC         101494         828           1.2-Dichoroethane         ND         5.4         0.77 <tu< th=""><th>Analyte</th><th>Result</th><th>Qualifiers</th><th>RL</th><th>MDL</th><th>Units</th><th>Fac</th><th>Analyzed</th><th>Tech</th><th>Batch</th><th>Method</th></tu<>  | Analyte                      | Result       | Qualifiers | RL  | MDL       | Units     | Fac      | Analyzed       | Tech | Batch       | Method         |
| 1,1-Enclosocethane         ND         5.4         0.39         ug/kg dry         1.00         092/110 22:14         CDC         101/144         82           1,1,2-Trichloroethane         ND         5.4         0.71         ug/kg dry         1.00         092/110 22:14         CDC         101/144         82           1,1,2-Trichloroethane         ND         5.4         0.71         ug/kg dry         1.00         092/110 22:14         CDC         101/144         82           1,1-Dichloroethane         ND         5.4         0.66         ug/kg dry         1.00         092/110 22:14         CDC         101/144         82           1,2-Dichloroethane         ND         5.4         0.67         ug/kg dry         1.00         092/110 22:14         CDC         101/144         82           1,2-Dichloroethane         ND         5.4         0.70         ug/kg dry         1.00         092/110 22:14         CDC         101/144         82           1,2-Dichloroethane         ND         5.4         0.70         ug/kg dry         1.00         092/110 22:14         CDC         101/144         82           1,2-Dichloroethane         ND         5.4         0.76         ug/kg dry         1.00         092/110 22:14  | Client ID: MW-3 (4-6) (RTI   | 1016-01 - So | olid)      |     |           | Samp      | oled: 09 | /14/10 10:40   | Recv | /d: 09/15/1 | 0 14:45        |
| 1,12,2-Tertachoncethane         ND         5.4         0.88         ug/kg dry         1.00         092/110 22:14         CDC         101444         828           1,12-Trichlooc-1,2,2-triflu         ND         5.4         0.71         ug/kg dry         1.00         092/110 22:14         CDC         101444         828           1,10-britoroethane         ND         5.4         0.66         ug/kg dry         1.00         092/110 22:14         CDC         101444         828           1,12-britoroethane         ND         5.4         0.66         ug/kg dry         1.00         092/110 22:14         CDC         101494         828           1,2-britoroethane         ND         5.4         0.70         ug/kg dry         1.00         092/110 22:14         CDC         101494         828           1,2-britoroethane         ND         5.4         0.73         ug/kg dry         1.00         092/110 22:14         CDC         101494         828           1,2-britoroethane         ND         5.4         0.43         ug/kg dry         1.00         092/110 22:14         CDC         101444         828           1,2-britoroethane         ND         5.4         0.76         ug/kg dry         1.00         092/110 22:14 <td>Volatile Organic Compou</td> <td>unds by EPA</td> <td>A 8260B</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>   | Volatile Organic Compou      | unds by EPA  | A 8260B    |     |           |           |          |                |      |             |                |
| 1,1,2,2-Tertachoncethane       ND       5.4       0.88       ug/kg dry       1.00       09/21/10 22:14       CDC       10/14/4       828         1,1,2-Trichtono-1,2,2-triflu       ND       5.4       0.12       ug/kg dry       1.00       09/21/10 22:14       CDC       10/14/4       828         1,1-Dichtorothane       ND       5.4       0.66       ug/kg dry       1.00       09/21/10 22:14       CDC       10/14/4       828         1,2-Dichtorothane       ND       5.4       0.67       ug/kg dry       1.00       09/21/10 22:14       CDC       10/14/4       828         1,2-Dichtorothane       ND       5.4       0.33       ug/kg dry       1.00       09/21/10 22:14       CDC       10/14/4       828         1,2-Dichtorothane       ND       5.4       0.43       ug/kg dry       1.00       09/21/10 22:14       CDC       10/14/4       828         1,2-Dichtorothane       ND       5.4       0.27       ug/kg dry       1.00       09/21/10 22:14       CDC       10/14/4       828         1,2-Dichtorothane       ND       5.4       0.76       ug/kg dry       1.00       09/21/10 22:14       CDC       10/14/4       828         1,2-Dichtorothane       ND </td <td>1,1,1-Trichloroethane</td> <td>ND</td> <td></td> <td>5.4</td> <td>0.39</td> <td>ug/kg dry</td> <td>1.00</td> <td>09/21/10 22:14</td> <td>CDC</td> <td>10 1494</td> <td>8260B</td>   | 1,1,1-Trichloroethane        | ND           |            | 5.4 | 0.39      | ug/kg dry | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
| 1,1,2-Trichioro-1,2-ztrifu       ND       5.4       0.71       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         oroethane       ND       5.4       0.66       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         1.1-Dichloroethane       ND       5.4       0.67       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         1.2-Dichrone-3-chioroparpa       ND       5.4       0.67       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         1.2-Dichronethane       ND       5.4       0.73       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         1.2-Dichronethane       ND       5.4       0.74       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         1.2-Dichronethane       ND       5.4       0.73       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         1.2-Dichronethane       ND       5.4       0.77       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         1.2-Dichronethane       ND   | 1,1,2,2-Tetrachloroethane    | ND           |            | 5.4 | 0.88      |           | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
| 1,1,2-Trichioro-1,2,2-triflu       ND       5.4       1,2       ug/kg dry       1,00       09/21/10.22:14       CDC       10/1494       823         1,1-Dichloroethane       ND       5.4       0.66       ug/kg dry       1.00       09/21/10.22:14       CDC       10/1494       823         1,2-Dichloroethane       ND       5.4       0.33       ug/kg dry       1.00       09/21/10.22:14       CDC       10/1494       823         1,2-Dichloroethane       ND       5.4       0.70       ug/kg dry       1.00       09/21/10.22:14       CDC       10/1494       824         1,2-Dichloroethane       ND       5.4       0.43       ug/kg dry       1.00       09/21/10.22:14       CDC       10/1494       824         1,2-Dichloroethane       ND       5.4       0.74       ug/kg dry       1.00       09/21/10.22:14       CDC       10/1494       824         1,2-Dichlorophane       ND       5.4       0.76       ug/kg dry       1.00       09/21/10.22:14       CDC       10/1494       824         1,3-Dichlorophane       ND       5.4       0.76       ug/kg dry       1.00       09/21/10.22:14       CDC       10/1494       824         1,3-Dichlorophane       ND   | 1,1,2-Trichloroethane        | ND           |            | 5.4 | 0.71      |           | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
| ordentane         SA         0.66         ug/kg dry         1.00         09/21/10 22:14         CDC         101494         822           1.1.Dichloroethane         ND         5.4         0.67         ug/kg dry         1.00         09/21/10 22:14         CDC         101494         823           1.2.Dibromo-3-chioroprop         ND         5.4         0.73         ug/kg dry         1.00         09/21/10 22:14         CDC         101494         823           1.2.Dibromo-3-chioroptop         ND         5.4         0.70         ug/kg dry         1.00         09/21/10 22:14         CDC         101494         824           1.2.Dichloroberzene         ND         5.4         0.73         ug/kg dry         1.00         09/21/10 22:14         CDC         101494         824           1.2.Dichloroberzene         ND         5.4         0.78         ug/kg dry         1.00         09/21/10 22:14         CDC         101494         824           1.3.Dichloroberzene         ND         5.4         0.76         ug/kg dry         1.00         09/21/10 22:14         CDC         101494         824           2-Butanone         ND         27         2.7         ug/kg dry         1.00         09/21/10 22:14         CDC  | 1,1,2-Trichloro-1,2,2-triflu | ND           |            |     |           |           | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
| 1-Dichlorosethene         ND         5.4         0.67         ug/kg dry         1.00         09/21/10 22:14         CCC         101444         822           1.2-Ditromo-3-chioroprop         ND         5.4         0.33         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         822           are   |                              |              |            |     |           | 007       |          |                |      |             |                |
| 12.4-Tichlorobenzene       ND       5.4       0.33       uğkg dry       1.00       09/21/10 22:14       CDC       101/1494       822         1.2-Dibromos-3-chloroprop       ND       5.4       0.70       ug/kg dry       1.00       09/21/10 22:14       CDC       101/1494       822         1.2-Dibriorobenzene       ND       5.4       0.70       ug/kg dry       1.00       09/21/10 22:14       CDC       101/1494       822         1.2-Dibriorobenzene       ND       5.4       0.27       ug/kg dry       1.00       09/21/10 22:14       CDC       101/1494       822         1.2-Dibriorobenzene       ND       5.4       0.27       ug/kg dry       1.00       09/21/10 22:14       CDC       101/1494       822         1.3-Dibriorobenzene       ND       2.7       ug/kg dry       1.00       09/21/10 22:14       CDC       101/1494       822         2-Haxanne       ND       2.7       2.0       ug/kg dry       1.00       09/21/10 22:14       CDC       101/1494       822         2-Hexanne       ND       2.7       1.3       ug/kg dry       1.00       09/21/10 22:14       CDC       101/1494       822         2-Hexanne       ND       5.4       0.73<   | 1,1-Dichloroethane           | ND           |            | 5.4 | 0.66      | ug/kg dry | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
| 1,2,4-Trichlorobenzene       ND       5.4       0.33       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       823         1,2-Dibromos-3-chloroprop       ND       5.4       2.7       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       823         1,2-Dichlorobenzene       ND       5.4       0.70       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       823         1,2-Dichlorobenzene       ND       5.4       0.27       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       823         1,2-Dichlorobenzene       ND       5.4       0.27       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       823         2-Butanone       ND       2.7       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       824         2-Hexanone       ND       2.7       2.0       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       824         2-Hexanone       ND       2.7       2.7       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       824         2-Hexanone       ND       5.4       0.73       <  | 1,1-Dichloroethene           | ND           |            | 5.4 | 0.67      | ug/kg dry | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
| 1.2-Dibromo-3-chloroprop       ND       5.4       2.7       ug/kg dry       1.00       09/21/10 22:14       CDC       101/1494       82         1.2-Dibromoethane       ND       5.4       0.70       ug/kg dry       1.00       09/21/10 22:14       CDC       101/1494       824         1.2-Dibromoethane       ND       5.4       0.43       ug/kg dry       1.00       09/21/10 22:14       CDC       101/1494       824         1.2-Dibromoethane       ND       5.4       0.27       ug/kg dry       1.00       09/21/10 22:14       CDC       101/1494       822         1.3-Dibromoeznene       ND       5.4       0.26       ug/kg dry       1.00       09/21/10 22:14       CDC       101/1494       822         2-Butanone       ND       2.7       ug/kg dry       1.00       09/21/10 22:14       CDC       101/1494       822         2-Hexanoe       ND       2.7       ug/kg dry       1.00       09/21/10 22:14       CDC       101/1494       824         2-Hexanoe       ND       2.7       ug/kg dry       1.00       09/21/10 22:14       CDC       101/1494       824         Bromodichloromethane       ND       5.4       0.27       ug/kg dry       1.00 <td>1,2,4-Trichlorobenzene</td> <td>ND</td> <td></td> <td>5.4</td> <td>0.33</td> <td></td> <td>1.00</td> <td>09/21/10 22:14</td> <td>CDC</td> <td>10 1494</td> <td>8260B</td>  | 1,2,4-Trichlorobenzene       | ND           |            | 5.4 | 0.33      |           | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
| ane<br>1.2-Dibromethane<br>ND<br>1.2-Dibromethane<br>ND<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4<br>1.2-Dibromethane<br>ND<br>5.4 | 1,2-Dibromo-3-chloroprop     | ND           |            | 5.4 | 2.7       |           | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
| 1,2-Dichlorobenzene       ND       5.4       0.43       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         1,2-Dichloropropane       ND       5.4       0.27       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         1,3-Dichlorobenzene       ND       5.4       0.28       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         2-Butanone       ND       5.4       0.76       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         2-Hexanone       ND       2.7       2.0       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         2-Hexanone       ND       2.7       1.8       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         Benzene       ND       5.4       0.27       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         Bromodichloromethane       ND       5.4       0.27       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         Bromodichloromethane       ND       5.4       0.73 </td <td></td>   |                              |              |            |     |           |           |          |                |      |             |                |
| 12-Dichloroethane       ND       5.4       0.27       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         1.3-Dichlorobenzene       ND       5.4       0.27       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         1.4-Dichlorobenzene       ND       5.4       0.76       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         2-Butanone       ND       2.7       2.0       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         2-Hexanone       ND       2.7       1.8       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         2-Hexanone       ND       2.7       1.8       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         Bromodichloromethane       ND       5.4       0.77       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         Bromodichloromethane       ND       5.4       0.77       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       822         Bromodichloromethane       ND       5.4   | 1,2-Dibromoethane            | ND           |            | 5.4 | 0.70      | ug/kg dry | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
| 12-Dichloroethane       ND       5.4       0.27       ug/kg dry       1.00       09/21/10/22:14       CDC       101/1494       822         1,2-Dichloropopane       ND       5.4       0.28       ug/kg dry       1.00       09/21/10/22:14       CDC       101/1494       822         1,4-Dichlorobenzene       ND       5.4       0.28       ug/kg dry       1.00       09/21/10/22:14       CDC       101/1494       822         2-Butanone       ND       2.7       2.0       ug/kg dry       1.00       09/21/10/22:14       CDC       101/1494       822         2-Hexanone       ND       2.7       2.7       ug/kg dry       1.00       09/21/10/22:14       CDC       101/1494       822         2-Hexanone       ND       2.7       4.6       ug/kg dry       1.00       09/21/10/22:14       CDC       101/1494       822         Beromodichloromethane       ND       5.4       0.77       ug/kg dry       1.00       09/21/10/22:14       CDC       101/1494       822         Bromodichloromethane       ND       5.4       0.77       ug/kg dry       1.00       09/21/10/22:14       CDC       101/1494       822         Bromodichloromethane       ND       5.4 <td>1,2-Dichlorobenzene</td> <td>ND</td> <td></td> <td>5.4</td> <td>0.43</td> <td></td> <td>1.00</td> <td>09/21/10 22:14</td> <td>CDC</td> <td>10 1494</td> <td>8260B</td>  | 1,2-Dichlorobenzene          | ND           |            | 5.4 | 0.43      |           | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
| 12-Dichloropropane       ND       5.4       2.7       ug/k g/ry       1.00       09/21/10 22:14       CDC       101494       822         1.3-Dichlorobenzene       ND       5.4       0.28       ug/kg dry       1.00       09/21/10 22:14       CDC       101494       822         2-Butanone       ND       27       2.0       ug/kg dry       1.00       09/21/10 22:14       CDC       101494       822         2-Hexanone       ND       27       2.0       ug/kg dry       1.00       09/21/10 22:14       CDC       101494       822         2-Hexanone       ND       27       1.8       ug/kg dry       1.00       09/21/10 22:14       CDC       101494       822         2-Hexanone       ND       5.4       0.27       ug/kg dry       1.00       09/21/10 22:14       CDC       101494       822         Bromodichloromethane       ND       5.4       0.73       ug/kg dry       1.00       09/21/10 22:14       CDC       101494       822         Bromodichloromethane       ND       5.4       0.72       ug/kg dry       1.00       09/21/10 22:14       CDC       101494       822         Bromodichloromethane       ND       5.4       0.72  | 1,2-Dichloroethane           | ND           |            |     |           |           | 1.00     |                |      | 10 1494     | 8260B          |
| 1.3-Dichlorobenzene       ND       5.4       0.28       ug/kg dry       1.00       09/21/10 22:14       CDC       10/114/4       822         1.4-Dichlorobenzene       ND       27       2.0       ug/kg dry       1.00       09/21/10 22:14       CDC       10/114/4       822         2-Hexanone       ND       27       2.7       ug/kg dry       1.00       09/21/10 22:14       CDC       10/114/4       822         2-Hexanone       ND       27       4.6       ug/kg dry       1.00       09/21/10 22:14       CDC       10/114/4       822         Acetone       ND       5.4       0.27       ug/kg dry       1.00       09/21/10 22:14       CDC       10/114/4       822         Bromodichloromethane       ND       5.4       0.27       ug/kg dry       1.00       09/21/10 22:14       CDC       10/114/4       822         Bromodichloromethane       ND       5.4       0.73       ug/kg dry       1.00       09/21/10 22:14       CDC       10/114/4       822         Carbon disulfide       ND       5.4       0.73       ug/kg dry       1.00       09/21/10 22:14       CDC       10/114/4       822         Chloroberzene       ND       5.4       0.  | 1,2-Dichloropropane          | ND           |            |     |           |           | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
| 1,4-Dichlorobenzene       ND       5,4       0,76       ug/kg dry       1.00       09/21/10 22:14       CDC       10/14/4       822         2-Butanone       ND       27       2.0       ug/kg dry       1.00       09/21/10 22:14       CDC       10/14/4       822         2-Hexanone       ND       27       2.7       ug/kg dry       1.00       09/21/10 22:14       CDC       10/14/4       822         4-Methyl-2-pentanone       ND       27       1.8       ug/kg dry       1.00       09/21/10 22:14       CDC       10/14/4       822         Benzene       ND       5.4       0.27       ug/kg dry       1.00       09/21/10 22:14       CDC       10/14/4       822         Bromodichloromethane       ND       5.4       0.73       ug/kg dry       1.00       09/21/10 22:14       CDC       10/14/4       822         Carbon disulfide       ND       5.4       0.49       ug/kg dry       1.00       09/21/10 22:14       CDC       10/14/4       822         Carbon disulfide       ND       5.4       0.73       ug/kg dry       1.00       09/21/10 22:14       CDC       10/14/4       822         Chrobenzene       ND       5.4       0.72   |                              |              |            |     |           |           |          |                |      | 10 1494     | 8260B          |
| 2-Butanone         ND         27         2.0         ug/kg dry         1.00         09/21/10 22:14         CDC         10/1494         82/2           2-Hexanone         ND         27         2.7         ug/kg dry         1.00         09/21/10 22:14         CDC         10/1494         82/2           4-Methyl-2-pentanone         ND         27         1.8         ug/kg dry         1.00         09/21/10 22:14         CDC         10/1494         82/2           Benzene         ND         5.4         0.73         ug/kg dry         1.00         09/21/10 22:14         CDC         10/1494         82/2           Bromodichloromethane         ND         5.4         0.73         ug/kg dry         1.00         09/21/10 22:14         CDC         10/1494         82/2           Bromodichloromethane         ND         5.4         0.73         ug/kg dry         1.00         09/21/10 22:14         CDC         10/1494         82/2           Carbon disulfide         ND         5.4         0.70         ug/kg dry         1.00         09/21/10 22:14         CDC         10/1494         82/2           Carbon disulfide         ND         5.4         0.70         ug/kg dry         1.00         09/21/10 22:14         CDC </td <td></td> <td>8260B</td>   |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| 2-Hexanone         ND         27         2.7         ug/kg dry         1.00         09/21/10 22:14         CDC         101/1494         82/2           4-Methyl-2-pentanone         ND         27         1.8         ug/kg dry         1.00         09/21/10 22:14         CDC         101/1494         82/2           Benzene         ND         5.4         0.27         ug/kg dry         1.00         09/21/10 22:14         CDC         101/1494         82/2           Bromodichloromethane         ND         5.4         0.27         ug/kg dry         1.00         09/21/10 22:14         CDC         101/1494         82/2           Bromomethane         ND         5.4         0.49         ug/kg dry         1.00         09/21/10 22:14         CDC         101/1494         82/2           Carbon Tetrachloride         ND         5.4         0.49         ug/kg dry         1.00         09/21/10 22:14         CDC         101/1494         82/2           Carbon Tetrachloride         ND         5.4         0.72         ug/kg dry         1.00         09/21/10 22:14         CDC         101/1494         82/2           Chiorophanzene         ND         5.4         0.70         ug/kg dry         1.00         09/21/10 22:14  |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| 4-Methyl-2-pentanone         ND         27         1.8         ug/kg dry         1.00         99/21/10 22:14         CDC         1011494         822           Acetone         ND         5.4         0.27         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         822           Benzene         ND         5.4         0.73         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         822           Bromodichloromethane         ND         5.4         0.73         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         822           Bromodichloromethane         ND         5.4         0.7         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         822           Carbon disulfide         ND         5.4         0.7         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         822           Chloroberzene         ND         5.4         0.7         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         822           Chloroform         ND         5.4         0.70         ug/kg dry         1.00         09/21/10 22:14         CDC   |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| Acetone         ND         27         4.6         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         822           Bernzene         ND         5.4         0.27         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         822           Bromodichloromethane         ND         5.4         0.73         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         822           Bromodichloromethane         ND         5.4         2.7         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         822           Carbon disulfide         ND         5.4         0.73         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         822           Carbon disulfide         ND         5.4         0.72         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         822           Chloromethane         ND         5.4         0.72         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         822           Chloromethane         ND         5.4         0.70         ug/kg dry         1.00         09/21/10 22:14         CDC   |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| Benzene         ND         5.4         0.27         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         824           Bromodichloromethane         ND         5.4         0.73         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         824           Bromoform         ND         5.4         0.73         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         824           Bromomethane         ND         5.4         0.49         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         824           Carbon Tetrachloride         ND         5.4         0.72         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         824           Chlorobenzene         ND         5.4         0.70         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         824           Chloroform         ND         5.4         0.70         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         824           Chloroform         ND         5.4         0.33 <td></td> <td>8260B</td>   |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| Bromodichloromethane         ND         5.4         0.73         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         822           Bromodrm         ND         5.4         2.7         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         822           Bromorethane         ND         5.4         2.7         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         822           Carbon disulfide         ND         5.4         0.53         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         822           Carbon disulfide         ND         5.4         0.53         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         822           Chloromethane         ND         5.4         0.72         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         822           Chloromethane         ND         5.4         0.73         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         822           Chloromethane         ND         5.4   |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| Bromoform         ND         5.4         2.7         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         824           Bromomethane         ND         5.4         0.49         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         824           Carbon disulfide         ND         5.4         2.7         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         824           Carbon Tetrachloride         ND         5.4         0.72         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         824           Chlorobenzene         ND         5.4         0.72         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         824           Chlorobtanzen         ND         5.4         0.74         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         824           Chlorobtanzen         ND         5.4         0.70         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         824           Chlorobtanzene         ND         5.4         0.76         ug/kg dry         1.00         09/21/10 22:14         CDC   |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| Bromomethane         ND         5.4         0.49         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         82/2           Carbon disulfide         ND         5.4         2.7         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         82/2           Carbon Tetrachloride         ND         5.4         0.73         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         82/2           Dibromochloromethane         ND         5.4         0.72         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         82/2           Chlorobenzene         ND         5.4         0.70         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         82/2           Chloroform         ND         5.4         0.70         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         82/2           Chloroform         ND         5.4         0.70         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         82/2           Cyclohexane         ND         5.4  |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| Carbon disulfide         ND         5.4         2.7         ug/kg dry         1.00         09/21/10         22:14         CDC         10/1494         82/2           Carbon Tetrachloride         ND         5.4         0.53         ug/kg dry         1.00         09/21/10         22:14         CDC         10/1494         82/2           Chlorobenzene         ND         5.4         0.72         ug/kg dry         1.00         09/21/10         22:14         CDC         10/1494         82/2           Chlorobenzene         ND         5.4         0.70         ug/kg dry         1.00         09/21/10         22:14         CDC         10/1494         82/2           Chloroethane         ND         5.4         0.34         ug/kg dry         1.00         09/21/10         22:14         CDC         10/1494         82/2           Chloroethane         ND         5.4         0.33         ug/kg dry         1.00         09/21/10         22:14         CDC         10/1494         82/2           Cisi-1.2-Dichloroethene         ND         5.4         0.76         ug/kg dry         1.00         09/21/10         22:14         CDC         10/1494         82/2           Cisi-1.2-Dichloroethene         ND  |                              |              |            |     |           |           |          |                |      |             |                |
| Carbon Tetrachloride         ND         5.4         0.53         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         820           Chlorobenzene         ND         5.4         0.72         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         820           Dibromochloromethane         ND         5.4         0.70         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         820           Chloroethane         ND         5.4         0.70         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         820           Chloroethane         ND         5.4         0.34         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         820           Chloroethane         ND         5.4         0.70         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         820           Cish-1.2-Dichloroptene         ND         5.4         0.76         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         820           Cyclohexane         ND         5.4         0.76         ug/kg dry         1.00         09/21/10 22:14         CDC   |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| Chlorobenzene         ND         5.4         0.72         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         820           Dibromochloromethane         ND         5.4         0.70         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         820           Chloroothane         ND         5.4         1.2         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         820           Chloroothane         ND         5.4         0.34         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         820           Chloroothane         ND         5.4         0.33         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         820           Cis-1,3-Dichloroothene         ND         5.4         0.70         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         820           Cyclohexane         ND         5.4         0.76         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         820           Dicholorodifluoromethane         ND         5.4 </td <td></td> <td>8260B</td>   |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| Dibromochloromethane         ND         5.4         0.70         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         824           Chloroethane         ND         5.4         1.2         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         824           Chloroethane         ND         5.4         0.34         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         824           Chloroethane         ND         5.4         0.33         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         824           cis-1,2-Dichloroethene         ND         5.4         0.70         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         824           cis-1,3-Dichloropropene         ND         5.4         0.78         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         824           Cyclohexane         ND         5.4         0.76         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         824           Isopropylbenzene         ND         5.4         0.82         ug/kg dry         1.00         09/21/10 22:14 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8260B</td></t<>  |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| Chloroethane         ND         5.4         1.2         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Chloroform         ND         5.4         0.34         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Chloroform         ND         5.4         0.33         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Cis-1,2-Dichloroethene         ND         5.4         0.70         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Cyclohexane         ND         5.4         0.78         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Cyclohexane         ND         5.4         0.76         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Dichlorodifluoromethane         ND         5.4         0.76         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Isopropylbenzene         ND         5.4  |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| Chloroform         ND         5.4         0.34         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Chloromethane         ND         5.4         0.33         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           cis-1,2-Dichloroethene         ND         5.4         0.70         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           cis-1,3-Dichloropropene         ND         5.4         0.70         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Cyclohexane         ND         5.4         0.76         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Cyclohexane         ND         5.4         0.45         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Dichlorodifluoromethane         ND         5.4         0.45         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Ethylenzene         ND         L         5.4         0.82         ug/kg dry         1.00         09/21/10 22:14   |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| Chloromethane         ND         5.4         0.33         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           cis-1,2-Dichloroethene         ND         5.4         0.70         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           cis-1,3-Dichloropropene         ND         5.4         0.78         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Cyclohexane         ND         5.4         0.76         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Dichlorodifluoromethane         ND         5.4         0.76         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Ethylbenzene         ND         5.4         0.38         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Isopropylbenzene         ND         L         5.4         0.82         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Methyl-Ebury <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8260B</td></td<>   |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| cis-1,2-Dichloroethene         ND         5.4         0.70         ug/kg dry         1.00         09/21/10         22:14         CDC         101/1494         826           cis-1,3-Dichloropropene         ND         5.4         0.78         ug/kg dry         1.00         09/21/10         22:14         CDC         101/1494         826           Cyclohexane         ND         5.4         0.76         ug/kg dry         1.00         09/21/10         22:14         CDC         101/1494         826           Dichlorodifluoromethane         ND         5.4         0.45         ug/kg dry         1.00         09/21/10         22:14         CDC         101/1494         826           Ethylbenzene         ND         5.4         0.45         ug/kg dry         1.00         09/21/10         22:14         CDC         101/1494         826           Isopropylbenzene         ND         L         5.4         0.82         ug/kg dry         1.00         09/21/10         22:14         CDC         101/1494         826           Methyl-Butyl Ether         ND         L         5.4         0.53         ug/kg dry         1.00         09/21/10         22:14         CDC         101/1494         826 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8260B</td></t<>  |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| cis-1,3-Dichloropropene         ND         5.4         0.78         ug/kg dry         1.00         09/21/10 22:14         CDC         10/1494         826           Cyclohexane         ND         5.4         0.76         ug/kg dry         1.00         09/21/10 22:14         CDC         10/1494         826           Dichlorodifluoromethane         ND         5.4         0.45         ug/kg dry         1.00         09/21/10 22:14         CDC         10/1494         826           Ethylbenzene         ND         5.4         0.45         ug/kg dry         1.00         09/21/10 22:14         CDC         10/1494         826           Isopropylbenzene         ND         5.4         0.38         ug/kg dry         1.00         09/21/10 22:14         CDC         10/1494         826           Methyl Acetate         ND         L         5.4         0.82         ug/kg dry         1.00         09/21/10 22:14         CDC         10/1494         826           Methyl Acetate         ND         L         5.4         0.53         ug/kg dry         1.00         09/21/10 22:14         CDC         10/1494         826           Methyl Acetate         ND         5.4         0.83         ug/kg dry         1.00   |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| Cyclohexane         ND         5.4         0.76         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Dichlorodifiluoromethane         ND         5.4         0.45         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Ethylbenzene         ND         5.4         0.38         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Isopropylbenzene         ND         5.4         0.38         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Methyl Acetate         ND         L         5.4         0.82         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Methyl-t-Butyl Ether         ND         L         5.4         0.53         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           (MTBE)   |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| Dichlorodifluoromethane         ND         5.4         0.45         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Ethylbenzene         ND         5.4         0.38         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Isopropylbenzene         ND         5.4         0.82         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Methyl Acetate         ND         L         5.4         1.0         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Methyl Acetate         ND         L         5.4         1.0         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Methyl-t-Butyl Ether         ND         5.4         0.53         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           (MTBE)         ND         5.4         0.83         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Styrene         ND  |                              |              |            |     |           | ug/kg dry | 1.00     |                |      |             | 8260B          |
| Ethylbenzene         ND         5.4         0.38         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Isopropylbenzene         ND         5.4         0.82         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Methyl Acetate         ND         L         5.4         0.82         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Methyl Acetate         ND         L         5.4         1.0         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Methyl Acetate         ND         L         5.4         0.53         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           (MTBE)  | Cyclohexane                  |              |            | 5.4 | 0.76      | ug/kg dry | 1.00     |                |      | 10 1494     | 8260B          |
| Isopropylbenzene         ND         5.4         0.82         ug/kg dry         1.00         09/21/10         22:14         CDC         10/1494         826           Methyl Acetate         ND         L         5.4         1.0         ug/kg dry         1.00         09/21/10         22:14         CDC         10/1494         826           Methyl-t-Butyl Ether         ND         L         5.4         0.53         ug/kg dry         1.00         09/21/10         22:14         CDC         10/1494         826           (MTBE)  | Dichlorodifluoromethane      | ND           |            | 5.4 |           | ug/kg dry | 1.00     |                |      | 10 1494     | 8260B          |
| Methyl Acetate         ND         L         5.4         1.0         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Methyl-t-Butyl Ether         ND         5.4         0.53         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           (MTBE)         ND         5.4         0.53         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Methylcyclohexane         ND         5.4         0.83         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Methylene Chloride         7.9         5.4         2.5         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Styrene         ND         5.4         0.27         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Tetrachloroethene         ND         5.4         0.27         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Toluene         ND         5.4         0.73         ug/kg dry         1.00         09/21/10 22:14         C  | Ethylbenzene                 | ND           |            | 5.4 | 0.38      | ug/kg dry | 1.00     |                |      | 10 1494     | 8260B          |
| Methyl-t-Butyl Ether         ND         5.4         0.53         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           (MTBE)         Methylcyclohexane         ND         5.4         0.83         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Methylcyclohexane         ND         5.4         0.83         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Methylene Chloride <b>7.9</b> 5.4         2.5         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Styrene         ND         5.4         0.27         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Tetrachloroethene         ND         5.4         0.27         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Toluene         ND         5.4         0.41         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           trans-1,2-Dichloroethene         ND         5.4         0.56         ug/kg dry         1.00         09/2  | Isopropylbenzene             | ND           |            | 5.4 | 0.82      | ug/kg dry | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
| (MTBE)         ND         5.4         0.83         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Methylene Chloride         7.9         5.4         2.5         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Styrene         ND         5.4         2.5         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Tetrachloroethene         ND         5.4         0.27         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Tetrachloroethene         ND         5.4         0.73         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Toluene         ND         5.4         0.41         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           trans-1,2-Dichloroethene         ND         5.4         0.56         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           e         Trinshoroethene         ND         5  | Methyl Acetate               | ND           | L          | 5.4 | 1.0       | ug/kg dry | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
| Methylcyclohexane         ND         5.4         0.83         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Methylene Chloride         7.9         5.4         2.5         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Styrene         ND         5.4         0.27         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Tetrachloroethene         ND         5.4         0.27         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Toluene         ND         5.4         0.73         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Toluene         ND         5.4         0.41         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           trans-1,2-Dichloroethene         ND         5.4         0.56         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           e         Trichloroethene         ND <td< td=""><td>, ,</td><td>ND</td><td></td><td>5.4</td><td>0.53</td><td>ug/kg dry</td><td>1.00</td><td>09/21/10 22:14</td><td>CDC</td><td>10 1494</td><td>8260B</td></td<>   | , ,                          | ND           |            | 5.4 | 0.53      | ug/kg dry | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
| Methylene Chloride         7.9         5.4         2.5         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Styrene         ND         5.4         0.27         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Tetrachloroethene         ND         5.4         0.27         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Toluene         ND         5.4         0.73         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           Toluene         ND         5.4         0.41         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           trans-1,2-Dichloroethene         ND         5.4         0.56         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           trans-1,3-Dichloropropen         ND         5.4         2.4         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           e         Trichloroethene         ND  |                              | ND           |            | 5.4 | 0.83      | ua/ka drv | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
| Styrene         ND         5.4         0.27         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Tetrachloroethene         ND         5.4         0.73         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Toluene         ND         5.4         0.73         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           trans-1,2-Dichloroethene         ND         5.4         0.41         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           trans-1,2-Dichloroethene         ND         5.4         0.56         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           trans-1,3-Dichloropropen         ND         5.4         2.4         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           e         Trichloroethene         ND         5.4         2.4         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           e         Trichloroethene         ND         5.4         1.2         ug/kg dry         1.00  |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| Tetrachloroethene         ND         5.4         0.73         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           Toluene         ND         5.4         0.41         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           trans-1,2-Dichloroethene         ND         5.4         0.56         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           trans-1,3-Dichloroethene         ND         5.4         0.56         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           e   | -                            |              |            |     |           |           |          |                |      |             | 8260B          |
| Toluene         ND         5.4         0.41         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           trans-1,2-Dichloroethene         ND         5.4         0.56         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           trans-1,2-Dichloroethene         ND         5.4         2.4         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           e         Trichloroethene         ND         5.4         2.4         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826           e         Trichloroethene         ND         5.4         1.2         ug/kg dry         1.00         09/21/10 22:14         CDC         1011494         826  | •                            |              |            |     |           |           |          |                |      |             | 8260B          |
| trans-1,2-Dichloroethene         ND         5.4         0.56         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           trans-1,3-Dichloropropen         ND         5.4         2.4         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826           e         Trichloroethene         ND         5.4         1.2         ug/kg dry         1.00         09/21/10         22:14         CDC         1011494         826   |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| trans-1,3-Dichloropropen       ND       5.4       2.4       ug/kg dry       1.00       09/21/10 22:14       CDC       1011494       826         e   |                              |              |            |     |           |           |          |                |      |             | 8260B          |
| e<br>Trichloroethene ND 5.4 1.2 ug/kg dry 1.00 09/21/10 22:14 CDC 10I1494 826   |                              |              |            |     |           |           |          |                |      |             | 8260B<br>8260B |
|   | e                            |              |            |     |           |           |          |                |      |             |                |
| Trichlorofluoromethane ND 5.4 0.51 ug/kg drv 1.00 09/21/10 22:14 CDC 10/1494 826  | Trichloroethene              |              |            |     |           |           | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
|   | Trichlorofluoromethane       | ND           |            | 5.4 | 0.51      | ug/kg dry | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |
|   | Vinyl chloride               | ND           |            | 5.4 |           |           | 1.00     | 09/21/10 22:14 | CDC  | 10 1494     | 8260B          |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                                  |                  |                    | F            | Analytical | Report    |              |                  |                       |         |        |  |
|----------------------------------|------------------|--------------------|--------------|------------|-----------|--------------|------------------|-----------------------|---------|--------|--|
| Analyte                          | Sample<br>Result | Data<br>Qualifiers | RL           | MDL        | Units     | Dil<br>Fac   | Date<br>Analyzed | Lab<br>Tech           | Batch   | Method |  |
| •                                |                  |                    |              |            |           |              |                  |                       |         |        |  |
| Client ID: MW-3 (4-6) (RTI       | 1016-01 - 50     | olia) - cont.      |              |            | Samp      | /14/10 10:40 | Recv             | Recvd: 09/15/10 14:45 |         |        |  |
| Volatile Organic Compou          |                  | 8260B - co         |              |            |           |              |                  |                       |         |        |  |
| Xylenes, total                   | ND               |                    | 11           | 0.91       | ug/kg dry | 1.00         | 09/21/10 22:14   | CDC                   | 10 1494 | 8260B  |  |
| 1,2-Dichloroethane-d4            | 101 %            |                    | Surr Limits: | . ,        |           |              | 09/21/10 22:14   |                       | 10 1494 | 8260B  |  |
| 4-Bromofluorobenzene             | 100 %            |                    | Surr Limits: | . ,        |           |              | 09/21/10 22:14   |                       | 10/1494 | 8260B  |  |
| Toluene-d8                       | 107 %            |                    | Surr Limits: | (71-125%)  |           |              | 09/21/10 22:14   | CDC                   | 10 1494 | 8260B  |  |
| Semivolatile Organics by         | / GC/MS          |                    |              |            |           |              |                  |                       |         |        |  |
| 2,4,5-Trichlorophenol            | ND               |                    | 190          | 41         | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| 2,4,6-Trichlorophenol            | ND               |                    | 190          | 12         | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| 2,4-Dichlorophenol               | ND               |                    | 190          | 9.8        | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| 2,4-Dimethylphenol               | ND               |                    | 190          | 50         | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| 2,4-Dinitrophenol                | ND               |                    | 360          | 65         | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| 2,4-Dinitrotoluene               | ND               |                    | 190          | 29         | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| 2,6-Dinitrotoluene               | ND               |                    | 190          | 46         | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| 2-Chloronaphthalene              | ND               |                    | 190          | 13         | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| 2-Chlorophenol                   | ND               |                    | 190          | 9.5        | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| 2-Methylnaphthalene              | ND               |                    | 190          | 2.3        | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 1011091 | 8270C  |  |
| 2-Methylphenol                   | ND               |                    | 190          | 5.7        | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 1011091 | 8270C  |  |
| 2-Nitroaniline                   | ND               |                    | 360          | 60         | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 1011091 | 8270C  |  |
| 2-Nitrophenol                    | ND               |                    | 190          | 8.5        | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 1011091 | 8270C  |  |
| 3.3'-Dichlorobenzidine           | ND               |                    | 190          | 160        | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 1011091 | 8270C  |  |
| 3-Nitroaniline                   | ND               |                    | 360          |            |           |              | 09/22/10 23:32   | JLG                   | 1011091 | 8270C  |  |
|                                  |                  |                    |              | 43         | ug/kg dry | 1.00         |                  |                       |         |        |  |
| 4,6-Dinitro-2-methylphen         | ND               |                    | 360          | 64         | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| ol<br>4-Bromophenyl phenyl       | ND               |                    | 190          | 59         | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| ether                            | ND               |                    | 100          | 00         | ug/ng ury | 1.00         | 05/22/10 25:52   | ULO                   | 1011001 | 02100  |  |
| 4-Chloro-3-methylphenol          | ND               |                    | 190          | 7.7        | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| 4-Chloroaniline                  | ND               |                    | 190          | 55         | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 1011091 | 8270C  |  |
|                                  | ND               |                    | 190          | 4.0        |           | 1.00         | 09/22/10 23:32   | JLG                   | 1011091 | 8270C  |  |
| 4-Chlorophenyl phenyl            | ND               |                    | 190          | 4.0        | ug/kg dry | 1.00         | 09/22/10 23.32   | JLG                   | 1011091 | 02/00  |  |
| ether<br>4 Mathylphopol          | ND               |                    | 190          | 10         | ua/ka day | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| 4-Methylphenol<br>4-Nitroaniline | ND               |                    |              |            | ug/kg dry |              |                  | JLG                   | 1011091 |        |  |
|                                  |                  |                    | 360          | 21         | ug/kg dry | 1.00         | 09/22/10 23:32   |                       |         | 8270C  |  |
| 4-Nitrophenol                    | ND               |                    | 360          | 45         | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 1011091 | 8270C  |  |
| Acenaphthene                     | ND               |                    | 190          | 2.2        | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 1011091 | 8270C  |  |
| Acenaphthylene                   | ND               |                    | 190          | 1.5        | ug/kg dry | 1.00         | 09/22/10 23:32   |                       | 10 1091 | 8270C  |  |
| Acetophenone                     | ND               |                    | 190          | 9.6        | ug/kg dry | 1.00         | 09/22/10 23:32   |                       | 10 1091 | 8270C  |  |
| Anthracene                       | ND               |                    | 190          | 4.8        | ug/kg dry | 1.00         | 09/22/10 23:32   |                       | 10 1091 | 8270C  |  |
| Atrazine                         | ND               |                    | 190          | 8.3        | ug/kg dry | 1.00         | 09/22/10 23:32   |                       | 10 1091 | 8270C  |  |
| Benzaldehyde                     | ND               |                    | 190          | 20         | ug/kg dry | 1.00         | 09/22/10 23:32   |                       | 10 1091 | 8270C  |  |
| Benzo(a)anthracene               | ND               |                    | 190          | 3.2        | ug/kg dry | 1.00         | 09/22/10 23:32   |                       | 10 1091 | 8270C  |  |
| Benzo(a)pyrene                   | ND               |                    | 190          | 4.5        | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| Benzo(b)fluoranthene             | ND               |                    | 190          | 3.6        | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| Benzo(ghi)perylene               | ND               |                    | 190          | 2.2        | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| Benzo(k)fluoranthene             | ND               |                    | 190          | 2.1        | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| Biphenyl                         | ND               |                    | 190          | 12         | ug/kg dry | 1.00         | 09/22/10 23:32   |                       | 10 1091 | 8270C  |  |
| Bis(2-chloroethoxy)metha         | ND               |                    | 190          | 10         | ug/kg dry | 1.00         | 09/22/10 23:32   |                       | 10 1091 | 8270C  |  |
| ne                               |                  |                    |              |            |           |              |                  |                       |         |        |  |
| Bis(2-chloroethyl)ether          | ND               |                    | 190          | 16         | ug/kg dry | 1.00         | 09/22/10 23:32   | JLG                   | 10 1091 | 8270C  |  |
| 2,2'-Oxybis(1-Chloroprop         | ND               |                    | 190          | 19         | ug/kg dry | 1.00         | 09/22/10 23:32   |                       | 1011091 | 8270C  |  |
| ane)                             |                  |                    | 100          | 10         | aging ary | 1.00         | 50,22,10 20.02   | 010                   |         | 02/00  |  |
| Bis(2-ethylhexyl)                | ND               |                    | 190          | 60         | ug/kg dry | 1.00         | 09/22/10 23:32   | JI G                  | 10 1091 | 8270C  |  |
| phthalate                        |                  |                    | 100          | 00         | uging ury | 1.00         | JUILLI 10 20.02  | 010                   | 1011001 | 02100  |  |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

| Client ID: MW-3 (4-6) (RTI1016-01 - Solid) - cont.         Sampled: 09/14/10 10:40         Recvd: 09/11           Semivolatile Organics by GC/MS - cont.         Butyl benzyl phthalate         ND         190         50         ug/kg dry         1.00         09/22/10 23:32         JLG         10109'           Caprolactam         ND         190         51         ug/kg dry         1.00         09/22/10 23:32         JLG         10109'           Carbazole         ND         190         1.2         ug/kg dry         1.00         09/22/10 23:32         JLG         10109'           Chrysene         ND         190         1.9         ug/kg dry         1.00         09/22/10 23:32         JLG         10109'           Dibenzotiran         ND         190         1.9         ug/kg dry         1.00         09/22/10 23:32         JLG         10109'           Di-n-otyl phthalate         ND         190         4.9         ug/kg dry         1.00         09/22/10 23:32         JLG         10109'           Di-n-otyl phthalate         ND         190         4.4         ug/kg dry         1.00         09/22/10 23:32         JLG         10109'           Fluorene         ND         190         2.7         ug/kg dry         1.00 <td< th=""><th></th><th></th><th></th><th></th><th></th><th>Report</th><th>nalytical</th><th>A</th><th></th><th></th><th></th></td<>   |            |             |       |                         |      | Report    | nalytical | A            |               |               |                           |
|---|------------|-------------|-------|-------------------------|------|-----------|-----------|--------------|---------------|---------------|---------------------------|
| Client ID:         NW-3 (4-6) (RTI1016-01 - Solid) - cont.         Sampled:         09/14/10         Other         Recvd:         09/11           Semivolatile Organics by GC/MS - cont.         Butyl benzyl pithalate         ND         190         50         ug/kg dry         1.00         09/22/10         23.32         JLG         10109'           Carbazole         ND         190         50         ug/kg dry         1.00         09/22/10         23.32         JLG         10109'           Carbazole         ND         190         2.2         ug/kg dry         1.00         09/22/10         23.32         JLG         10109'           Chrysene         ND         190         1.9         ug/kg dry         1.00         09/22/10         23.32         JLG         10109'           Dientory inthibalte         ND         190         1.9         ug/kg dry         1.00         09/22/10         23.32         JLG         10109'           Din-buty inthibalte         ND         190         4.4         ug/kg dry         1.00         09/22/10         23.32         JLG         10109'           Fluoranthene         ND         190         4.3         ug/kg dry         1.00         09/22/10         23.32         JLG  |            |             | Lab   | Date                    | Dil  |           |           |              | Data          | Sample        |                           |
| Semivolatile Organics by GC/MS - cont.           Butyl benzyl phthalate         ND         190         50         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Carbazole         ND         190         2.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Chrysene         ND         190         2.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Dibenzo(tan)         ND         190         2.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Dibenzo(tan)         ND         190         5.6         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Dimethyl phthalate         ND         190         6.4         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Din-butyl phthalate         ND         190         4.4         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Fluoranthene         ND         190         4.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobenzene<   | Method     | Batch       | Tech  | Analyzed                | Fac  | Units     | MDL       | RL           | Qualifiers    | Result        | Analyte                   |
| Buly benzyl phthalate         ND         190         50         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Caprolactarm         ND         190         81         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Carbazole         ND         190         1.9         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Chrysene         ND         190         1.9         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Dibenzofuran         ND         190         1.6         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Dirh-buly phthalate         ND         190         4.9         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Dirh-buly phthalate         ND         190         4.4         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Fluoranthene         ND         190         2.7         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Fluoranthene         ND         190         3.4         ug/kg dry <td>5/10 14:45</td> <td>/d: 09/15/1</td> <td>Recv</td> <td colspan="3">Sampled: 09/14/10 10:40</td> <td></td> <td></td> <td>olid) - cont.</td> <td>11016-01 - Sc</td> <td>Client ID: MW-3 (4-6) (RT</td> | 5/10 14:45 | /d: 09/15/1 | Recv  | Sampled: 09/14/10 10:40 |      |           |           |              | olid) - cont. | 11016-01 - Sc | Client ID: MW-3 (4-6) (RT |
| Caprolactam         ND         190         81         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Carbazole         ND         190         2.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Chrysene         ND         190         2.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Diberzo(a,h)anthracene         ND         190         1.9         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Diberzo(a,h)anthracene         ND         190         5.6         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Dientotyl phthalate         ND         190         4.4         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Fluorene         ND         190         4.4         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Fluorene         ND         190         9.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobenzene         ND         190         9.3         ug/kg dry <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ont.</td> <td>y GC/MS - co</td> <td>Semivolatile Organics b</td>   |            |             |       |                         |      |           |           |              | ont.          | y GC/MS - co  | Semivolatile Organics b   |
| Carbazole         ND         190         2.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Chrysene         ND         190         1.9         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Dibenzo(a,h)anthracene         ND         190         1.9         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Dibenzo(a,h)anthracene         ND         190         5.6         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Dierhyl phthalate         ND         190         4.9         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Din-octyl phthalate         ND         190         4.4         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Fluoranthene         ND         190         4.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Fluoranthene         ND         190         9.5         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobetrane         ND         190         9.5         <   | 1 8270C    | 10 1091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 50        | 190          |               | ND            | Butyl benzyl phthalate    |
| Chrysene         ND         190         1.9         ug/kg dry         1.00         09/22/10 23:32         JLG         101093           Dibenzo(a,h)anthracene         ND         190         2.2         ug/kg dry         1.00         09/22/10 23:32         JLG         101093           Dibenzo(ruran         ND         190         5.6         ug/kg dry         1.00         09/22/10 23:32         JLG         1011093           Dimethyl phthalate         ND         190         4.9         ug/kg dry         1.00         09/22/10 23:32         JLG         1011093           Din-butyl phthalate         ND         190         4.4         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Din-butyl phthalate         ND         190         4.4         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Fluoranthene         ND         190         9.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobutadiene         ND         190         9.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobutadiene         ND         190         14   | 1 8270C    | 10 1091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 81        | 190          |               | ND            | Caprolactam               |
| Dibenzo(a,h)anthracene         ND         190         2.2         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Dibenzofuran         ND         190         1.9         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Dibentyl phthalate         ND         190         4.9         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Din-butyl phthalate         ND         190         4.4         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Din-butyl phthalate         ND         190         4.4         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Fluoranthene         ND         190         4.3         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Hexachlorobutadiene         ND         190         5.6         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Hexachlorobutadiene         ND         190         5.2         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Indeno(1,2,3-cd)prene         ND         190         5.2  | 1 8270C    | 10 1091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 2.2       | 190          |               | ND            | Carbazole                 |
| Dibenzoturan         ND         190         1.9         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Diethyl phthalate         ND         190         5.6         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Din-hotyl phthalate         ND         190         4.9         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Din-butyl phthalate         ND         190         64         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Din-butyl phthalate         ND         190         4.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Fluoranthene         ND         190         9.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobenzene         ND         190         9.5         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobenzene         ND         190         14         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Ibeachlorobethane         ND         190         190   | 1 8270C    | 10 1091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 1.9       | 190          |               | ND            | Chrysene                  |
| Diethyl phthalate         ND         190         5.6         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Dimethyl phthalate         ND         190         64         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Din-butyl phthalate         ND         190         64         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Fluorene         ND         190         4.4         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Fluorene         ND         190         4.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobutadiene         ND         190         9.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorocyclopentadie         ND         190         56         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Ibdean(1,2,3-cd)pyrene         ND         190         5.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Ibrdean(2,2-dipyrene         ND         190         5.1 <td>1 8270C</td> <td>10 1091</td> <td>JLG</td> <td>09/22/10 23:32</td> <td>1.00</td> <td>ug/kg dry</td> <td>2.2</td> <td>190</td> <td></td> <td>ND</td> <td>Dibenzo(a,h)anthracene</td>       | 1 8270C    | 10 1091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 2.2       | 190          |               | ND            | Dibenzo(a,h)anthracene    |
| Dimethyl phthalate         ND         190         4.9         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Din-butyl phthalate         ND         190         64         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Din-butyl phthalate         ND         190         2.7         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Fluoranthene         ND         190         2.7         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Fluorene         ND         190         9.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobutadiene         ND         190         9.5         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobutadiene         ND         190         14         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Idexachlorobethane         ND         190         14         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Idexachlorobenane         ND         190         13   | 1 8270C    | 10 1091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 1.9       | 190          |               | ND            | Dibenzofuran              |
| Di-n-butyl phthalate         ND         190         64         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Di-n-otyl phthalate         ND         190         4.4         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Fluoranthene         ND         190         2.7         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Fluorene         ND         190         4.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobenzene         ND         190         9.5         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorocyclopentadie         ND         190         56         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Indeno(1,2,3-cd)pyrene         ND         190         52         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Indeno(1,2,3-cd)pyrene         ND         190         52         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Naphthalene         ND         190         3.1 <td>1 8270C</td> <td>1011091</td> <td>JLG</td> <td>09/22/10 23:32</td> <td>1.00</td> <td>ug/kg dry</td> <td>5.6</td> <td>190</td> <td></td> <td>ND</td> <td>Diethyl phthalate</td>             | 1 8270C    | 1011091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 5.6       | 190          |               | ND            | Diethyl phthalate         |
| Di-n-octyl phthalate         ND         190         4.4         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Fluoranthene         ND         190         2.7         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Fluoranthene         ND         190         4.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobutadiene         ND         190         9.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobutadiene         ND         190         9.5         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorocethane         ND         190         56         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Isophorone         ND         190         5.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Napthalene         ND         190         3.1         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           N-Nitrosodi-n-propylamin         ND         190         15   | 1 8270C    | 1011091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 4.9       | 190          |               | ND            | Dimethyl phthalate        |
| Fluoranthene         ND         190         2.7         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Fluorene         ND         190         4.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobenzene         ND         190         9.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobutadiene         ND         190         9.5         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobutadiene         ND         190         56         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachloroethane         ND         190         14         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Isophorone         ND         190         5.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Naphtalene         ND         190         3.1         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Nettrosodi-n-propylamin         ND         190         10         ug/kg   | 1 8270C    | 1011091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 64        | 190          |               | ND            | Di-n-butyl phthalate      |
| Fluorene         ND         190         4.3         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Hexachlorobenzene         ND         190         9.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobutadiene         ND         190         9.5         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobutadiene         ND         190         56         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Indeno(1,2,3-cd)pyrene         ND         190         5.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Isophorone         ND         190         5.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Naphthalene         ND         190         3.1         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           N-Nitrosodi-n-propylamin         ND         190         10         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Pentachlorophenol         ND         190         10  | 1 8270C    | 1011091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 4.4       | 190          |               | ND            | Di-n-octyl phthalate      |
| Hexachlorobenzene         ND         190         9.3         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Hexachlorobutadiene         ND         190         9.5         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobutadiene         ND         190         56         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorobutadiene         ND         190         14         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Indeno(1,2,3-cd)pyrene         ND         190         5.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Isophorone         ND         190         5.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Naphthalene         ND         190         3.1         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           NN         190         15         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           NN         190         190         ug/kg dry         1.00         09/22/10  | 1 8270C    | 1011091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 2.7       | 190          |               | ND            | Fluoranthene              |
| Hexachlorobutadiene         ND         190         9.5         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Hexachlorocyclopentadie         ND         190         56         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           ne           190         52         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Indeno(1,2,3-cd)pyrene         ND         190         5.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Isophorone         ND         190         5.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Naphthalene         ND         190         3.1         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Nitrobenzene         ND         190         15         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Pentachlorophenol         ND         190         10         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Phenol         ND         190         3.9         u  | 1 8270C    | 1011091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 4.3       | 190          |               | ND            | Fluorene                  |
| Hexachlorocyclopentadie         ND         190         56         ug/kg dry         1.00         09/22/10 23:32         JLG         101091           ne         Hexachloroethane         ND         190         14         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           Indeno(1,2,3-cd)pyrene         ND         190         5.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           Isophorone         ND         190         9.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           Naphthalene         ND         190         3.1         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           Nitrobenzene         ND         190         15         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           NN         190         10         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           NN         190         10         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           NN         190         190         ug/kg dry         1.00         09/22/10 23:32   | 1 8270C    | 1011091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 9.3       | 190          |               | ND            | Hexachlorobenzene         |
| ne         Hexachloroethane         ND         190         14         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           Indeno(1,2,3-cd)pyrene         ND         190         5.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           Isophorone         ND         190         5.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           Isophorone         ND         190         3.1         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           Naphthalene         ND         190         3.1         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           N-Nitrosodi-n-propylamin         ND         190         15         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           P         N-Nitrosodiphenylamine         ND         190         10         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           Pentachlorophenol         ND         190         10         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           Phenol         ND         190<   | 1 8270C    | 1011091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 9.5       | 190          |               | ND            | Hexachlorobutadiene       |
| Hexachloroethane         ND         190         14         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Indeno(1,2,3-cd)pyrene         ND         190         5.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Isophorone         ND         190         9.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Naphthalene         ND         190         3.1         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Nethosodi-n-propylamin         ND         190         8.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           P         ND         190         15         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           P         ND         190         10         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Pentachlorophenol         ND         190         10         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Phenol         ND         190         20         ug/kg dry         1.00 <td>1 8270C</td> <td>10 1091</td> <td>JLG</td> <td>09/22/10 23:32</td> <td>1.00</td> <td>ug/kg dry</td> <td>56</td> <td>190</td> <td></td> <td>ND</td> <td>Hexachlorocyclopentadie</td>                          | 1 8270C    | 10 1091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 56        | 190          |               | ND            | Hexachlorocyclopentadie   |
| Indeno(1,2,3-cd)pyrene         ND         190         5.2         ug/kg dry         1.00         09/22/10         23:32         JLG         1011091           Isophorone         ND         190         9.3         ug/kg dry         1.00         09/22/10         23:32         JLG         1011091           Naphthalene         ND         190         3.1         ug/kg dry         1.00         09/22/10         23:32         JLG         1011091           Nitrobenzene         ND         190         8.3         ug/kg dry         1.00         09/22/10         23:32         JLG         1011091           N-Nitrosodin-n-propylamin         ND         190         15         ug/kg dry         1.00         09/22/10         23:32         JLG         1011091           e              100         09/22/10         23:32         JLG         1011091           Pentachlorophenol         ND         190         10         ug/kg dry         1.00         09/22/10         23:32         JLG         1011091           Phenol         ND         190         3.9         ug/kg dry         1.00         09/22/10         23:32         JLG         1011091 <td></td>  |            |             |       |                         |      |           |           |              |               |               |                           |
| Isophorone         ND         190         9.3         ug/kg dry         1.00         09/22/10 23:32         JLG         101097           Naphthalene         ND         190         3.1         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Nitrobenzene         ND         190         8.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           N-Nitrosodin-propylamin         ND         190         15         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           e             0         09/22/10 23:32         JLG         1011097           Pentachlorophenol         ND         190         10         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Phenanthrene         ND         190         3.9         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Pyrene         ND         190         2.0         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           2.4,6-Tribromophenol         109 %         Surr Limits: (39-146%)         09/22/10 23:32         JLG   |            |             |       |                         |      |           |           |              |               |               |                           |
| Naphthalene         ND         190         3.1         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Nitrobenzene         ND         190         8.3         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           N-Nitrosodi-n-propylamin         ND         190         15         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           e         N-Nitrosodiphenylamine         ND         190         10         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Pentachlorophenol         ND         360         64         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Phenanthrene         ND         190         3.9         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           Phenol         ND         190         2.0         ug/kg dry         1.00         09/22/10 23:32         JLG         1011097           2.4,6-Tribromophenol         109 %         Surr Limits:         (39-146%)         09/22/10 23:32         JLG         1011097           2.4,6-Tribromophenol         109 %         Surr Limits:         (37-120%)   |            |             |       |                         |      |           |           |              |               |               |                           |
| Nitrobenzene         ND         190         8.3         ug/kg dry         1.00         09/22/10         23:32         JLG         1011091           N-Nitrosodi-n-propylamin         ND         190         15         ug/kg dry         1.00         09/22/10         23:32         JLG         1011091           e  |            |             |       |                         | 1.00 |           |           | 190          |               |               | •                         |
| N-Nitrosodi-n-propylamin         ND         190         15         ug/kg dry         1.00         09/22/10 23:32         JLG         101091           e         N-Nitrosodiphenylamine         ND         190         10         ug/kg dry         1.00         09/22/10 23:32         JLG         101091           Pentachlorophenol         ND         360         64         ug/kg dry         1.00         09/22/10 23:32         JLG         101091           Phenanthrene         ND         190         3.9         ug/kg dry         1.00         09/22/10 23:32         JLG         101091           Phenol         ND         190         3.9         ug/kg dry         1.00         09/22/10 23:32         JLG         101091           Pyrene         ND         190         2.0         ug/kg dry         1.00         09/22/10 23:32         JLG         101091           2.4,6-Tribromophenol         109 %         Surr Limits: (39-146%)         09/22/10 23:32         JLG         101091           2Fluorobiphenyl         90 %         Surr Limits: (37-120%)         09/22/10 23:32         JLG         101092           2Fluorophenol         76 %         Surr Limits: (18-120%)         09/22/10 23:32         JLG         101092   |            | 10 1091     |       |                         | 1.00 |           |           |              |               |               | Naphthalene               |
| e         ND         190         10         ug/kg dry         1.00         09/22/10 23:32         JLG         101109           Pentachlorophenol         ND         360         64         ug/kg dry         1.00         09/22/10 23:32         JLG         101109           Phenanthrene         ND         190         3.9         ug/kg dry         1.00         09/22/10 23:32         JLG         101109           Phenol         ND         190         3.9         ug/kg dry         1.00         09/22/10 23:32         JLG         101109           Pyrene         ND         190         2.0         ug/kg dry         1.00         09/22/10 23:32         JLG         101109           2.4,6-Tribromophenol         109 %         Surr Limits: (39-146%)         09/22/10 23:32         JLG         101109           2.4,6-Tribromophenol         109 %         Surr Limits: (37-120%)         09/22/10 23:32         JLG         101109           2.Fluorophenol         76 %         Surr Limits: (18-120%)         09/22/10 23:32         JLG         101109           Nitrobenzene-d5         89 %         Surr Limits: (34-132%)         09/22/10 23:32         JLG         101109           Phenol-d5         83 %         Surr Limits: (58-147%)   |            |             |       |                         |      | ug/kg dry |           | 190          |               |               | Nitrobenzene              |
| N-Nitrosodiphenylamine         ND         190         10         ug/kg dry         1.00         09/22/10 23:32         JLG         101109           Pentachlorophenol         ND         360         64         ug/kg dry         1.00         09/22/10 23:32         JLG         101109           Phenanthrene         ND         190         3.9         ug/kg dry         1.00         09/22/10 23:32         JLG         101109           Phenol         ND         190         20         ug/kg dry         1.00         09/22/10 23:32         JLG         101109           Pyrene         ND         190         1.2         ug/kg dry         1.00         09/22/10 23:32         JLG         101109           2,4,6-Tribromophenol         109 %         Surr Limits:         (37-120%)         09/22/10 23:32         JLG         101109           2-Fluorobiphenyl         90 %         Surr Limits:         (18-120%)         09/22/10 23:32         JLG         101109           2-Fluorophenol         76 %         Surr Limits:         (18-120%)         09/22/10 23:32         JLG         101109           Nitrobenzene-d5         89 %         Surr Limits:         (11-120%)         09/22/10 23:32         JLG         101109  | 1 8270C    | 10 1091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 15        | 190          |               | ND            |                           |
| Phenanthrene         ND         190         3.9         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           Phenol         ND         190         20         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           Pyrene         ND         190         1.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           2,4,6-Tribromophenol         109 %         Surr Limits:         (39-146%)         09/22/10 23:32         JLG         1011091           2,4,6-Tribromophenol         109 %         Surr Limits:         (37-120%)         09/22/10 23:32         JLG         1011091           2-Fluorobiphenyl         90 %         Surr Limits:         (18-120%)         09/22/10 23:32         JLG         1011091           2-Fluorophenol         76 %         Surr Limits:         (18-120%)         09/22/10 23:32         JLG         1011091           Nitrobenzene-d5         89 %         Surr Limits:         (11-120%)         09/22/10 23:32         JLG         1011091           p-Terphenyl-d14         79 %         Surr Limits:         (58-147%)         09/22/10 23:32         JLG         1011091           Organochlorine Pesticides by EPA Method 8081A  | 1 8270C    | 10 1091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 10        | 190          |               | ND            |                           |
| Phenol         ND         190         20         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           Pyrene         ND         190         1.2         ug/kg dry         1.00         09/22/10 23:32         JLG         1011091           2,4,6-Tribromophenol         109 %         Surr Limits:         (39-146%)         09/22/10 23:32         JLG         1011091           2,4,6-Tribromophenol         109 %         Surr Limits:         (37-120%)         09/22/10 23:32         JLG         1011091           2-Fluorophenol         76 %         Surr Limits:         (18-120%)         09/22/10 23:32         JLG         1011091           2-Fluorophenol         76 %         Surr Limits:         (18-120%)         09/22/10 23:32         JLG         1011091           Nitrobenzene-d5         89 %         Surr Limits:         (11-120%)         09/22/10 23:32         JLG         1011091           Phenol-d5         83 %         Surr Limits:         (11-120%)         09/22/10 23:32         JLG         1011091           p-Terphenyl-d14         79 %         Surr Limits:         (58-147%)         09/22/10 23:32         JLG         1011091           Qrganochlorine Pesticides by EPA Method 8081A         1.8         0.35  | 1 8270C    | 1011091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 64        | 360          |               | ND            | Pentachlorophenol         |
| Phenol         ND         190         20         ug/kg dry         1.00         09/22/10 23:32         JLG         101109           Pyrene         ND         190         1.2         ug/kg dry         1.00         09/22/10 23:32         JLG         101109           2,4,6-Tribromophenol         109 %         Surr Limits:         (39-146%)         09/22/10 23:32         JLG         101109           2,4,6-Tribromophenol         109 %         Surr Limits:         (37-120%)         09/22/10 23:32         JLG         101109           2-Fluorophenol         76 %         Surr Limits:         (18-120%)         09/22/10 23:32         JLG         101109           2-Fluorophenol         76 %         Surr Limits:         (18-120%)         09/22/10 23:32         JLG         101109           Nitrobenzene-d5         89 %         Surr Limits:         (11-120%)         09/22/10 23:32         JLG         101109           Phenol-d5         83 %         Surr Limits:         (58-147%)         09/22/10 23:32         JLG         101109           p-Terphenyl-d14         79 %         Surr Limits:         (58-147%)         09/22/10 23:32         JLG         101109           4,4'-DDD [2C]         ND         1.8         0.35         ug/kg dr   | 1 8270C    | 1011091     | JLG   | 09/22/10 23:32          | 1.00 |           | 3.9       | 190          |               | ND            | Phenanthrene              |
| 2,4,6-Tribromophenol         109 %         Surr Limits:         (39-146%)         09/22/10 23:32         JLG         10/109           2-Fluorobiphenyl         90 %         Surr Limits:         (37-120%)         09/22/10 23:32         JLG         10/109           2-Fluorobiphenyl         90 %         Surr Limits:         (37-120%)         09/22/10 23:32         JLG         10/109           2-Fluorophenol         76 %         Surr Limits:         (18-120%)         09/22/10 23:32         JLG         10/109           Nitrobenzene-d5         89 %         Surr Limits:         (34-132%)         09/22/10 23:32         JLG         10/109           Phenol-d5         83 %         Surr Limits:         (11-120%)         09/22/10 23:32         JLG         10/109           p-Terphenyl-d14         79 %         Surr Limits:         (58-147%)         09/22/10 23:32         JLG         10/109           Organochlorine Pesticides by EPA Method 8081A           09/22/10 23:32         JLG         10/109           4,4'-DDD [2C]         ND         1.8         0.35         ug/kg dry         1.00         09/18/10 15:22         tchro         10/107   | 1 8270C    | 1011091     | JLG   | 09/22/10 23:32          | 1.00 | ug/kg dry | 20        | 190          |               | ND            | Phenol                    |
| 2-Fluorobiphenyl       90 %       Surr Limits: (37-120%)       09/22/10 23:32 JLG       10/1097         2-Fluorophenol       76 %       Surr Limits: (18-120%)       09/22/10 23:32 JLG       10/1097         Nitrobenzene-d5       89 %       Surr Limits: (34-132%)       09/22/10 23:32 JLG       10/1097         Phenol-d5       83 %       Surr Limits: (11-120%)       09/22/10 23:32 JLG       10/1097         p-Terphenyl-d14       79 %       Surr Limits: (58-147%)       09/22/10 23:32 JLG       10/1097         Organochlorine Pesticides by EPA Method 8081A       4,4'-DDD [2C]       ND       1.8       0.35       ug/kg dry       1.00       09/18/10 15:22       tchro       10/1075  | 1 8270C    | 10 1091     | JLG   | 09/22/10 23:32          | 1.00 |           | 1.2       | 190          |               | ND            | Pyrene                    |
| 2-Fluorophenol         76 %         Surr Limits: (18-120%)         09/22/10 23:32 JLG         10/109           Nitrobenzene-d5         89 %         Surr Limits: (34-132%)         09/22/10 23:32 JLG         10/109           Phenol-d5         83 %         Surr Limits: (11-120%)         09/22/10 23:32 JLG         10/109           p-Terphenyl-d14         79 %         Surr Limits: (58-147%)         09/22/10 23:32 JLG         10/109           Organochlorine Pesticides by EPA Method 8081A         4,4'-DDD [2C]         ND         1.8         0.35         ug/kg dry         1.00         09/18/10 15:22         tchro         10/1075  |            | 10 1091     |       |                         |      |           | . ,       |              |               |               |                           |
| Nitrober zene-d5         89 %         Surr Limits: (34-132%)         09/22/10 23:32         JLG         10/109           Phenol-d5         83 %         Surr Limits: (11-120%)         09/22/10 23:32         JLG         10/109         09/22/10 23:32         JLG   |            |             |       |                         |      |           | , ,       |              |               |               | · ·                       |
| Phenol-d5         83 %         Surr Limits:         (11-120%)         09/22/10 23:32         JLG         10/109           p-Terphenyl-d14         79 %         Surr Limits:         (58-147%)         09/22/10 23:32         JLG         10/109           Organochlorine Pesticides by EPA Method 8081A </td <td></td> <td>10/1091</td> <td></td> <td></td> <td></td> <td></td> <td>, ,</td> <td></td> <td></td> <td></td> <td>2-Fluorophenol</td>  |            | 10/1091     |       |                         |      |           | , ,       |              |               |               | 2-Fluorophenol            |
| p-Terphenyl-d14         79 %         Surr Limits: (58-147%)         09/22/10 23:32         JLG         10/109 10           Organochlorine Pesticides by EPA Method 8081A         4,4'-DDD [2C]         ND         1.8         0.35         ug/kg dry         1.00         09/18/10         15:22         tchro         10/1075  |            | 10/1091     |       |                         |      |           | (34-132%) | Surr Limits: |               |               | Nitrobenzene-d5           |
| Organochlorine Pesticides by EPA Method 8081A           4,4'-DDD [2C]         ND         1.8         0.35         ug/kg dry         1.00         09/18/10         15:22         tchro         1011075   |            | 10/1091     |       |                         |      |           | . ,       |              |               |               | Phenol-d5                 |
| 4,4'-DDD [2C]         ND         1.8         0.35         ug/kg dry         1.00         09/18/10         15:22         tchro         1011075   | 1 8270C    | 10 1091     | JLG   | 09/22/10 23:32          |      |           | (58-147%) | Surr Limits: |               | 79 %          | p-Terphenyl-d14           |
|   |            |             |       |                         |      |           |           | <u>A</u>     | lethod 8081   | es by EPA N   | Organochlorine Pesticid   |
|   | 5 8081A    | 10 1075     | tchro | 09/18/10 15:22          | 1.00 | ug/kg dry | 0.35      | 1.8          |               | ND            | 4,4'-DDD [2C]             |
|   |            | 10 1075     | tchro | 09/18/10 15:22          | 1.00 | ug/kg dry | 0.27      | 1.8          |               | ND            | 4,4'-DDE [2C]             |
|   |            | 10 1075     | tchro | 09/18/10 15:22          | 1.00 |           |           |              |               |               |                           |
|   |            | 10 1075     | tchro | 09/18/10 15:22          | 1.00 |           | 0.44      |              |               |               |                           |
|   |            | 10 1075     | tchro | 09/18/10 15:22          |      |           | 0.32      | 1.8          |               | ND            | alpha-BHC [2C]            |
|   |            | 10 1075     |       |                         |      |           |           |              |               |               |                           |
|   |            | 10 1075     |       |                         |      |           |           |              |               |               |                           |
|   |            | 10 1075     |       |                         |      |           |           |              |               |               | • •                       |
|   |            | 10 1075     |       |                         |      |           |           |              |               |               | • •                       |
|   |            | 10 1075     |       |                         |      |           |           |              |               |               |                           |
|   |            | 10 1075     |       |                         |      |           |           |              |               |               |                           |
|   |            | 10 1075     |       |                         |      |           |           |              |               |               | • •                       |
|   |            | 10 1075     |       |                         |      |           |           |              |               |               |                           |
|   |            | 10 1075     |       |                         |      |           |           |              |               |               |                           |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                              |               |               | A            | nalytical | Report    |          |                   |       |             |          |
|------------------------------|---------------|---------------|--------------|-----------|-----------|----------|-------------------|-------|-------------|----------|
|                              | Sample        | Data          |              |           |           | Dil      | Date              | Lab   |             |          |
| Analyte                      | Result        | Qualifiers    | RL           | MDL       | Units     | Fac      | Analyzed          | Tech  | Batch       | Method   |
| Client ID: MW-3 (4-6) (RT    | 11016-01 - So | olid) - cont. |              |           | Samp      | led: 09/ | /14/10 10:40      | Recv  | vd: 09/15/1 | 0 14:45  |
| Organochlorine Pesticid      | les by EPA N  | lethod 8081   | A - cont.    |           |           |          |                   |       |             |          |
| gamma-BHC (Lindane)<br>[2C]  | ND            |               | 1.8          | 0.31      | ug/kg dry | 1.00     | 09/18/10 15:22    | tchro | 10 1075     | 8081A    |
| Heptachlor [2C]              | ND            |               | 1.8          | 0.28      | ug/kg dry | 1.00     | 09/18/10 15:22    | tchro | 1011075     | 8081A    |
| Heptachlor epoxide [2C]      | ND            |               | 1.8          | 0.46      | ug/kg dry | 1.00     | 09/18/10 15:22    | tchro | 10 1075     | 8081A    |
| Methoxychlor [2C]            | ND            |               | 1.8          | 0.25      | ug/kg dry | 1.00     | 09/18/10 15:22    | tchro | 10 1075     | 8081A    |
| Toxaphene [2C]               | ND            |               | 18           | 10        | ug/kg dry | 1.00     | 09/18/10 15:22    | tchro | 10 1075     | 8081A    |
| Decachlorobiphenyl [2C]      | 91 %          |               | Surr Limits: | (42-146%) |           |          | 09/18/10 15:22    | tchro | 10/1075     | 8081A    |
| Tetrachloro-m-xylene<br>[2C] | 82 %          |               | Surr Limits: | (37-136%) |           |          | 09/18/10 15:22    | tchro | 10 1075     | 8081A    |
| Polychlorinated Bipheny      | ls by EPA N   | lethod 8082   |              |           |           |          |                   |       |             |          |
| Aroclor 1016                 | ND            |               | 18           | 3.5       | ug/kg dry | 1.00     | 09/19/10 00:58    | JxM   | 10 1073     | 8082     |
| Aroclor 1221                 | ND            |               | 18           | 3.5       | ug/kg dry | 1.00     | 09/19/10 00:58    | JxM   | 10 1073     | 8082     |
| Aroclor 1232                 | ND            |               | 18           | 3.5       | ug/kg dry | 1.00     | 09/19/10 00:58    | JxM   | 10 1073     | 8082     |
| Aroclor 1242                 | ND            |               | 18           | 3.9       | ug/kg dry | 1.00     | 09/19/10 00:58    | JxM   | 10 1073     | 8082     |
| Aroclor 1248                 | ND            |               | 18           | 3.5       | ug/kg dry | 1.00     | 09/19/10 00:58    | JxM   | 1011073     | 8082     |
| Aroclor 1254                 | ND            |               | 18           | 3.8       | ug/kg dry | 1.00     | 09/19/10 00:58    | JxM   | 10 1073     | 8082     |
| Aroclor 1260                 | ND            |               | 18           | 8.4       | ug/kg dry | 1.00     | 09/19/10 00:58    | JxM   | 10 1073     | 8082     |
| Decachlorobiphenyl           | 95 %          |               | Surr Limits: | (34-148%) |           |          | 09/19/10 00:58    | JxM   | 10 1073     | 8082     |
| Tetrachloro-m-xylene         | 82 %          |               | Surr Limits: | (35-134%) |           |          | 09/19/10 00:58    | JxM   | 10 1073     | 8082     |
| Total Metals by SW 846       | Series Metho  | ods           |              |           |           |          |                   |       |             |          |
| Aluminum                     | 11600         |               | 10.2         | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    | DAN   | 10 1415     | 6010B    |
| Antimony                     | ND            |               | 15.3         | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    | DAN   | 10 1415     | 6010B    |
| Arsenic                      | 4.5           |               | 2.0          | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    | DAN   | 10 1415     | 6010B    |
| Barium                       | 136           |               | 0.511        | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    | DAN   | 10 1415     | 6010B    |
| Beryllium                    | 0.562         |               | 0.204        | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    | DAN   | 10 1415     | 6010B    |
| Cadmium                      | ND            |               | 0.204        | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    | DAN   | 10 1415     | 6010B    |
| Calcium                      | 55100         |               | 51.1         | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    | DAN   | 10 1415     | 6010B    |
| Chromium                     | 14.3          |               | 0.511        | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    | DAN   | 10 1415     | 6010B    |
| Cobalt                       | 13.0          |               | 0.511        | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    | DAN   | 10 1415     | 6010B    |
| Copper                       | 19.4          |               | 1.0          | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    | DAN   | 10 1415     | 6010B    |
| ron                          | 18000         |               | 10.2         | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    | DAN   | 10 1415     | 6010B    |
| ₋ead                         | 14.7          |               | 1.0          | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    |       | 10 1415     | 6010B    |
| Magnesium                    | 20600         |               | 20.4         | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    | DAN   | 10 1415     | 6010B    |
| Manganese                    | 648           | B1, B         | 0.2          | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    | DAN   | 10 1415     | 6010B    |
| Nickel                       | 22.0          |               | 5.11         | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    | DAN   | 10 1415     | 6010B    |
| Potassium                    | 1820          |               | 30.7         | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    |       | 10 1415     | 6010B    |
| Selenium                     | ND            |               | 4.1          | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    |       | 10 1415     | 6010B    |
| Silver                       | ND            |               | 0.511        | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    |       | 10 1415     | 6010B    |
| Sodium                       | 260           |               | 143          | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    |       | 10 1415     | 6010B    |
| Thallium                     | ND            |               | 6.1          | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    |       | 10 1415     | 6010B    |
| /anadium                     | 21.6          |               | 0.511        | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    |       | 10 1415     | 6010B    |
| Zinc                         | 68.6          |               | 2.0          | NR        | mg/kg dry | 1.00     | 09/22/10 18:47    |       | 10 1415     | 6010B    |
| Mercury                      | 0.0218        |               | 0.0213       | NR        | mg/kg dry | 1.00     | 09/20/10 15:32    |       | 10 1343     | 7471A    |
| General Chemistry Para       | meters        |               |              |           |           |          |                   |       |             |          |
| Percent Solids               | 90            |               | 0.010        | NR        | %         | 1.00     | 09/16/10 16:43    | JRR   | 10 1002     | Dry Weig |
|                              |               |               | 0.010        |           | 70        |          | 00,10,10,10,10,40 | 0.01  | 1011002     | 2.9 1000 |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                                      |                  |                    | Α   | nalytical | Report    |            |                  |             |            |         |
|--------------------------------------|------------------|--------------------|-----|-----------|-----------|------------|------------------|-------------|------------|---------|
| Analyte                              | Sample<br>Result | Data<br>Qualifiers | RL  | MDL       | Units     | Dil<br>Fac | Date<br>Analyzed | Lab<br>Tech | Batch      | Method  |
| Client ID: MW-3 (4-6)                | (RTI1016-01 - So | olid) - cont.      |     |           | Samp      | led: 09/   | 14/10 10:40      | Recv        | d: 09/15/1 | 0 14:45 |
| General Chemistry Parameters - cont. |                  |                    |     |           |           |            |                  |             |            |         |
| Total Cyanide                        | ND               |                    | 1.0 | 0.5       | mg/kg dry | 1.00       | 09/21/10 09:21   | jmm         | 10 1387    | 9012A   |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|  |              |            | А          | nalytical    | Report                 |              |                                  |       |                    |                |
|--|--------------|------------|------------|--------------|------------------------|--------------|----------------------------------|-------|--------------------|----------------|
|  | Sample       | Data       |            | MDI          |                        | Dil          | Date                             | Lab   |                    |                |
| Analyte                                  | Result       | Qualifiers | RL         | MDL          | Units                  | Fac          | Analyzed                         | Tech  | Batch              | Method         |
| Client ID: SB-5 (0-2) (RTI0              | 959-01 - Sol | lid)       |            |              | Samp                   | led: 09/     | 13/10 10:50                      | Recv  | d: 09/14/1         | 0 12:10        |
| Volatile Organic Compou                  | nds by EPA   | 8260B      |            |              |                        |              |                                  |       |                    |                |
| 1,1,1-Trichloroethane                    | ND           |            | 6.3        | 0.46         | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| 1,1,2,2-Tetrachloroethane                | ND           |            | 6.3        | 1.0          | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| 1,1,2-Trichloroethane                    | ND           |            | 6.3        | 0.82         | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| 1,1,2-Trichloro-1,2,2-triflu             | ND           |            | 6.3        | 1.4          | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| oroethane                                |              |            |            |              | 00,                    |              |                                  |       |                    |                |
| 1,1-Dichloroethane                       | ND           |            | 6.3        | 0.77         | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| 1,1-Dichloroethene                       | ND           |            | 6.3        | 0.77         | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| 1,2,4-Trichlorobenzene                   | ND           |            | 6.3        | 0.38         | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| 1,2-Dibromo-3-chloroprop                 | ND           |            | 6.3        | 3.1          | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| ane                                      |              |            |            |              | 00,                    |              |                                  |       |                    |                |
| 1,2-Dibromoethane                        | ND           |            | 6.3        | 0.81         | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| 1,2-Dichlorobenzene                      | ND           |            | 6.3        | 0.49         | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| 1,2-Dichloroethane                       | ND           |            | 6.3        | 0.32         | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| 1,2-Dichloropropane                      | ND           |            | 6.3        | 3.1          | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| 1,3-Dichlorobenzene                      | ND           |            | 6.3        | 0.32         | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| 1,4-Dichlorobenzene                      | ND           |            | 6.3        | 0.88         | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| 2-Butanone                               | ND           |            | 31         | 2.3          | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 10 1220            | 8260B          |
| 2-Hexanone                               | ND           |            | 31         | 3.1          | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 10 1220            | 8260B          |
| 4-Methyl-2-pentanone                     | ND           |            | 31         | 2.1          | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 10 1220            | 8260B          |
| Acetone                                  | ND           |            | 31         | 5.3          | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 10 1220            | 8260B          |
| Benzene                                  | ND           |            | 6.3        | 0.31         | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 10 1220            | 8260B          |
| Bromodichloromethane                     | ND           |            | 6.3        | 0.84         | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 1011220            | 8260B          |
| Bromoform                                | ND           |            | 6.3        | 3.1          | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 1011220            | 8260B          |
| Bromomethane                             | ND           |            | 6.3        | 0.57         | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 1011220            | 8260B          |
| Carbon disulfide                         | ND           |            | 6.3        | 3.1          | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 1011220            | 8260B          |
| Carbon Tetrachloride                     | ND           |            | 6.3        | 0.61         | ug/kg dry<br>ug/kg dry | 1.00         | 09/18/10 16:20                   |       | 1011220            | 8260B          |
| Chlorobenzene                            | ND           |            | 6.3        | 0.83         | ug/kg dry<br>ug/kg dry | 1.00         | 09/18/10 16:20                   |       | 1011220            | 8260B          |
| Dibromochloromethane                     | ND           |            | 6.3        | 0.83         |                        | 1.00         | 09/18/10 16:20                   |       | 1011220            | 8260B          |
|  | ND           |            |            |              | ug/kg dry              |              |                                  |       | 1011220            |                |
| Chloroethane                             |              |            | 6.3        | 1.4          | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       |                    | 8260B          |
| Chloroform                               | ND           |            | 6.3        | 0.39         | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 1011220            | 8260B          |
| Chloromethane                            | ND           |            | 6.3        | 0.38         | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 1011220            | 8260B          |
| cis-1,2-Dichloroethene                   | ND           |            | 6.3        | 0.81         | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 1011220            | 8260B          |
| cis-1,3-Dichloropropene                  | ND           |            | 6.3        | 0.91         | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 1011220            | 8260B          |
| Cyclohexane                              | ND           |            | 6.3        | 0.88         | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 1011220            | 8260B          |
| Dichlorodifluoromethane                  | ND           |            | 6.3        | 0.52         | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 1011220            | 8260B          |
| Ethylbenzene                             | ND           |            | 6.3        | 0.43         | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 1011220            | 8260B          |
| Isopropylbenzene                         | ND           |            | 6.3        | 0.95         | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 10 1220            | 8260B          |
| Methyl Acetate                           | ND           |            | 6.3        | 1.2          | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 10 1220            | 8260B          |
| Methyl-t-Butyl Ether<br>(MTBE)           | ND           |            | 6.3        | 0.62         | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| Methylcyclohexane                        | ND           |            | 6.3        | 0.96         | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| Methylene Chloride                       | 3.5          | J          | 6.3        | 2.9          | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| Styrene                                  | ND           |            | 6.3        | 0.31         | ug/kg dry              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
| Tetrachloroethene                        | ND           |            | 6.3        | 0.84         | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 10 1220            | 8260B          |
| Toluene                                  | ND           |            | 6.3        | 0.48         | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 10 1220            | 8260B          |
| trans-1,2-Dichloroethene                 | ND           |            | 6.3        | 0.65         | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 10 1220            | 8260B          |
| trans-1,3-Dichloropropen                 | ND           |            | 6.3        | 2.8          | ug/kg dry              | 1.00         | 09/18/10 16:20                   |       | 1011220            | 8260B          |
| e<br>Trichloroethene                     | ND           |            | 6.3        | 1.4          | ua/ka day              | 1.00         | 09/18/10 16:20                   | PJQ   | 10 1220            | 8260B          |
|  | INL          |            | 0.5        | 1.4          | ug/kg dry              | 1.00         | 09/10/10 10.20                   | L J M | 1011220            | 02000          |
|  |              |            | 6.2        | 0 60         | ualka dar              | 1 00         | 00/10/10 16:00                   |       | 1011000            | 0060D          |
| Trichlorofluoromethane<br>Vinyl chloride | ND<br>ND     |            | 6.3<br>6.3 | 0.60<br>0.77 | ug/kg dry<br>ug/kg dry | 1.00<br>1.00 | 09/18/10 16:20<br>09/18/10 16:20 |       | 10I1220<br>10I1220 | 8260B<br>8260B |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                                  |                  |                    | A            | Analytical | Report    |            |                  |             |             |         |
|----------------------------------|------------------|--------------------|--------------|------------|-----------|------------|------------------|-------------|-------------|---------|
| Analyte                          | Sample<br>Result | Data<br>Qualifiers | RL           | MDL        | Units     | Dil<br>Fac | Date<br>Analyzed | Lab<br>Tech | Batch       | Method  |
|                                  |                  |                    |              |            |           |            |                  |             |             |         |
| Client ID: SB-5 (0-2) (RTI0      | J959-01 - So     | lid) - cont.       |              |            | Samp      | oled: 09/  | /13/10 10:50     | Recv        | /d: 09/14/1 | 0 12:10 |
| Volatile Organic Compou          | unds by EPA      | A 8260B - co       | <u>nt.</u>   |            |           |            |                  |             |             |         |
| Xylenes, total                   | ND               |                    | 13           | 1.1        | ug/kg dry | 1.00       | 09/18/10 16:20   | PJQ         | 1011220     | 8260B   |
| 1,2-Dichloroethane-d4            | 106 %            |                    | Surr Limits: | . ,        |           |            | 09/18/10 16:20   | PJQ         | 10/1220     | 8260B   |
| 4-Bromofluorobenzene             | 103 %            |                    |              | (72-126%)  |           |            | 09/18/10 16:20   | •           | 10/1220     | 8260B   |
| Toluene-d8                       | 111 %            |                    | Surr Limits: | (71-125%)  |           |            | 09/18/10 16:20   | PJQ         | 10 1220     | 8260B   |
| Semivolatile Organics by         | GC/MS            |                    |              |            |           |            |                  |             |             |         |
| 2,4,5-Trichlorophenol            | ND               |                    | 210          | 46         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 2,4,6-Trichlorophenol            | ND               |                    | 210          | 14         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 2,4-Dichlorophenol               | ND               |                    | 210          | 11         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 2,4-Dimethylphenol               | ND               |                    | 210          | 57         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 2,4-Dinitrophenol                | ND               |                    | 410          | 74         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 2,4-Dinitrotoluene               | ND               |                    | 210          | 33         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 2,6-Dinitrotoluene               | ND               |                    | 210          | 52         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 2-Chloronaphthalene              | ND               |                    | 210          | 14         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 2-Chlorophenol                   | ND               |                    | 210          | 11         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 2-Methylnaphthalene              | ND               |                    | 210          | 2.6        | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 2-Methylphenol                   | ND               |                    | 210          | 6.5        | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 2-Nitroaniline                   | ND               |                    | 410          | 68         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 2-Nitrophenol                    | ND               |                    | 210          | 9.7        | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 3,3'-Dichlorobenzidine           | ND               |                    | 210          | 190        | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 3-Nitroaniline                   | ND               |                    | 410          | 49         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 4,6-Dinitro-2-methylphen         | ND               |                    | 410          | 73         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 1011091     | 8270C   |
| ol<br>4-Bromophenyl phenyl       | ND               |                    | 210          | 67         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| ether<br>4-Chloro-3-methylphenol | ND               |                    | 210          | 8.7        | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 4-Chloroaniline                  | ND               |                    | 210          | 62         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 1011091     | 8270C   |
| 4-Chlorophenyl phenyl            | ND               |                    | 210          | 4.5        | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 1011091     | 8270C   |
| ether                            |                  |                    | 210          | 4.0        | ug/ng ury | 1.00       | 00/22/10 20:00   | ULO         | 1011001     | 02700   |
| 4-Methylphenol                   | ND               |                    | 210          | 12         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 4-Nitroaniline                   | ND               |                    | 410          | 24         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 4-Nitrophenol                    | ND               |                    | 410          | 51         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| Acenaphthene                     | ND               |                    | 210          | 2.5        | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| Acenaphthylene                   | ND               |                    | 210          | 1.7        | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| Acetophenone                     | ND               |                    | 210          | 11         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| Anthracene                       | 20               | J                  | 210          | 5.4        | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| Atrazine                         | ND               |                    | 210          | 9.4        | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| Benzaldehyde                     | ND               |                    | 210          | 23         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| Benzo(a)anthracene               | 73               | J                  | 210          | 3.6        | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| Benzo(a)pyrene                   | 59               | J                  | 210          | 5.1        | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| Benzo(b)fluoranthene             | 84               | J                  | 210          | 4.1        | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| Benzo(ghi)perylene               | 47               | J                  | 210          | 2.5        | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| Benzo(k)fluoranthene             | 31               | J                  | 210          | 2.3        | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| Biphenyl                         | ND               |                    | 210          | 13         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| Bis(2-chloroethoxy)metha         | ND               |                    | 210          | 11         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| Bis(2-chloroethyl)ether          | ND               |                    | 210          | 18         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| 2,2'-Oxybis(1-Chloroprop<br>ane) | ND               |                    | 210          | 22         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |
| Bis(2-ethylhexyl)<br>phthalate   | 120              | J                  | 210          | 68         | ug/kg dry | 1.00       | 09/22/10 23:09   | JLG         | 10 1091     | 8270C   |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                             |              |              | A            | Analytical | Report    |          |                |      |             |         |
|-----------------------------|--------------|--------------|--------------|------------|-----------|----------|----------------|------|-------------|---------|
|                             | Sample       | Data         |              |            |           | Dil      | Date           | Lab  |             |         |
| Analyte                     | Result       | Qualifiers   | RL           | MDL        | Units     | Fac      | Analyzed       | Tech | Batch       | Method  |
| Client ID: SB-5 (0-2) (RTI  | 0959-01 - So | lid) - cont. |              |            | Samp      | oled: 09 | /13/10 10:50   | Recv | /d: 09/14/1 | 0 12:10 |
| Semivolatile Organics b     | y GC/MS - co | ont.         |              |            |           |          |                |      |             |         |
| Butyl benzyl phthalate      | ND           |              | 210          | 57         | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Caprolactam                 | ND           |              | 210          | 91         | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Carbazole                   | ND           |              | 210          | 2.4        | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Chrysene                    | 77           | J            | 210          | 2.1        | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Dibenzo(a,h)anthracene      | ND           |              | 210          | 2.5        | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Dibenzofuran                | ND           |              | 210          | 2.2        | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Diethyl phthalate           | ND           |              | 210          | 6.4        | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Dimethyl phthalate          | ND           |              | 210          | 5.5        | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Di-n-butyl phthalate        | ND           |              | 210          | 73         | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Di-n-octyl phthalate        | ND           |              | 210          | 4.9        | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Fluoranthene                | 150          | J            | 210          | 3.1        | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Fluorene                    | ND           |              | 210          | 4.9        | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Hexachlorobenzene           | ND           |              | 210          | 11         | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Hexachlorobutadiene         | ND           |              | 210          | 11         | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 1011091     | 8270C   |
| Hexachlorocyclopentadie ne  | ND           |              | 210          | 64         | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Hexachloroethane            | ND           |              | 210          | 16         | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Indeno(1,2,3-cd)pyrene      | 43           | J            | 210          | 5.8        | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Isophorone                  | ND           |              | 210          | 11         | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Naphthalene                 | ND           |              | 210          | 3.5        | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Nitrobenzene                | ND           |              | 210          | 9.4        | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| N-Nitrosodi-n-propylamin    | ND           |              | 210          | 17         | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| e<br>N-Nitrosodiphenylamine | ND           |              | 210          | 12         | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Pentachlorophenol           | ND           |              | 410          | 72         | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Phenanthrene                | 100          | J            | 210          | 4.4        | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Phenol                      | ND           |              | 210          | 22         | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Pyrene                      | 120          | J            | 210          | 1.4        | ug/kg dry | 1.00     | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| 2,4,6-Tribromophenol        | 106 %        |              | Surr Limits: | (39-146%)  |           |          | 09/22/10 23:09 | JLG  | 10/1091     | 8270C   |
| 2-Fluorobiphenyl            | 86 %         |              | Surr Limits: | (37-120%)  |           |          | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| 2-Fluorophenol              | 71 %         |              | Surr Limits: | (18-120%)  |           |          | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Nitrobenzene-d5             | 84 %         |              | Surr Limits: | , ,        |           |          | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Phenol-d5                   | 77 %         |              | Surr Limits: | , ,        |           |          | 09/22/10 23:09 | JLG  | 10/1091     | 8270C   |
| p-Terphenyl-d14             | 76 %         |              | Surr Limits: | (58-147%)  |           |          | 09/22/10 23:09 | JLG  | 10 1091     | 8270C   |
| Organochlorine Pesticio     | les by EPA N | lethod 8081  |              |            |           |          |                |      |             |         |
| 4,4'-DDD [2C]               | ND           |              | 2.1          | 0.41       | ug/kg dry | 1.00     | 09/18/10 14:46 |      | 10 1075     | 8081A   |
| 4,4'-DDE [2C]               | 4.1          |              | 2.1          | 0.31       | ug/kg dry | 1.00     | 09/18/10 14:46 |      | 10 1075     | 8081A   |
| 4,4'-DDT [2C]               | 4.0          |              | 2.1          | 0.21       | ug/kg dry | 1.00     | 09/18/10 14:46 |      | 10 1075     | 8081A   |
| Aldrin [2C]                 | ND           |              | 2.1          | 0.51       | ug/kg dry | 1.00     | 09/18/10 14:46 |      | 10 1075     | 8081A   |
| alpha-BHC [2C]              | ND           |              | 2.1          | 0.38       | ug/kg dry | 1.00     | 09/18/10 14:46 |      | 10 1075     | 8081A   |
| beta-BHC [2C]               | ND           |              | 2.1          | 0.23       | ug/kg dry | 1.00     | 09/18/10 14:46 |      | 1011075     | 8081A   |
| Chlordane [2C]              | ND           |              | 21           | 4.6        | ug/kg dry | 1.00     | 09/18/10 14:46 |      | 1011075     | 8081A   |
| delta-BHC [2C]              | ND           |              | 2.1          | 0.28       | ug/kg dry | 1.00     | 09/18/10 14:46 |      | 1011075     | 8081A   |
| Dieldrin [2C]               | ND           |              | 2.1          | 0.50       | ug/kg dry | 1.00     | 09/18/10 14:46 |      | 1011075     | 8081A   |
| Endosulfan I [2C]           | ND           |              | 2.1          | 0.26       | ug/kg dry | 1.00     | 09/18/10 14:46 |      | 1011075     | 8081A   |
| Endosulfan II [2C]          | ND           |              | 2.1          | 0.38       | ug/kg dry | 1.00     | 09/18/10 14:46 |      | 1011075     | 8081A   |
| Endosulfan sulfate [2C]     | ND           |              | 2.1          | 0.39       | ug/kg dry | 1.00     | 09/18/10 14:46 |      | 1011075     | 8081A   |
| Endrin [2C]                 | ND           |              | 2.1          | 0.29       | ug/kg dry | 1.00     | 09/18/10 14:46 |      | 1011075     | 8081A   |
| Endrin aldehyde [2C]        | ND           |              | 2.1          | 0.53       | ug/kg dry | 1.00     | 09/18/10 14:46 | MAN  | 10 1075     | 8081A   |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                              |              |                     | A            | nalytical | Report    |         |                |      |             |         |
|------------------------------|--------------|---------------------|--------------|-----------|-----------|---------|----------------|------|-------------|---------|
|                              | Sample       | Data                |              |           |           | Dil     | Date           | Lab  |             |         |
| Analyte                      | Result       | Qualifiers          | RL           | MDL       | Units     | Fac     | Analyzed       | Tech | Batch       | Method  |
| Client ID: SB-5 (0-2) (RTI   | 0959-01 - So | lid) - cont.        |              |           | Samp      | led: 09 | /13/10 10:50   | Recv | vd: 09/14/1 | 0 12:10 |
| Organochlorine Pesticid      | es by EPA I  | Method 8081         | A - cont.    |           |           |         |                |      |             |         |
| gamma-BHC (Lindane)<br>[2C]  | ND           |                     | 2.1          | 0.36      | ug/kg dry | 1.00    | 09/18/10 14:46 | MAN  | 10 1075     | 8081A   |
| Heptachlor [2C]              | ND           |                     | 2.1          | 0.33      | ug/kg dry | 1.00    | 09/18/10 14:46 | MAN  | 10 1075     | 8081A   |
| Heptachlor epoxide [2C]      | ND           |                     | 2.1          | 0.54      | ug/kg dry | 1.00    | 09/18/10 14:46 |      | 10 1075     | 8081A   |
| Methoxychlor [2C]            | ND           |                     | 2.1          | 0.29      | ug/kg dry | 1.00    | 09/18/10 14:46 |      | 10 1075     | 8081A   |
| Toxaphene [2C]               | ND           |                     | 21           | 12        | ug/kg dry | 1.00    | 09/18/10 14:46 | MAN  | 1011075     | 8081A   |
| Decachlorobiphenyl [2C]      | 98 %         |                     | Surr Limits: | (42-146%) |           |         | 09/18/10 14:46 | MAN  | 10 1075     | 8081A   |
| Tetrachloro-m-xylene<br>[2C] | 83 %         |                     | Surr Limits: | (37-136%) |           |         | 09/18/10 14:46 | MAN  | 10 1075     | 8081A   |
| Polychlorinated Bipheny      | ls by EPA N  | <u>/lethod 8082</u> |              |           |           |         |                |      |             |         |
| Aroclor 1016 [2C]            | ND           | QSU, D02            | 210          | 40        | ug/kg dry | 10.0    | 09/16/10 17:45 | JxM  | 1010937     | 8082    |
| Aroclor 1221 [2C]            | ND           | <b>QSU</b> , D02    | 210          | 40        | ug/kg dry | 10.0    | 09/16/10 17:45 | JxM  | 1010937     | 8082    |
| Aroclor 1232 [2C]            | ND           | QSU, D02            | 210          | 40        | ug/kg dry | 10.0    | 09/16/10 17:45 | JxM  | 1010937     | 8082    |
| Aroclor 1242 [2C]            | ND           | QSU, D02            | 210          | 45        | ug/kg dry | 10.0    | 09/16/10 17:45 | JxM  | 1010937     | 8082    |
| Aroclor 1248 [2C]            | ND           | QSU, D02            | 210          | 40        | ug/kg dry | 10.0    | 09/16/10 17:45 | JxM  | 1010937     | 8082    |
| Aroclor 1254 [2C]            | ND           | QSU, D02            | 210          | 43        | ug/kg dry | 10.0    | 09/16/10 17:45 | JxM  | 1010937     | 8082    |
| Aroclor 1260 [2C]            | ND           | QSU, D02            | 210          | 96        | ug/kg dry | 10.0    | 09/16/10 17:45 | JxM  | 1010937     | 8082    |
| Decachlorobiphenyl [2C]      | 89 %         | QSU, D02            | Surr Limits: | (34-148%) |           |         | 09/16/10 17:45 | JxM  | 1010937     | 8082    |
| Tetrachloro-m-xylene<br>[2C] | 134 %        | QSU, D02            | Surr Limits: | (35-134%) |           |         | 09/16/10 17:45 | JxM  | 1010937     | 8082    |
| Total Metals by SW 846       | Series Meth  | <u>ods</u>          |              |           |           |         |                |      |             |         |
| Aluminum                     | 13800        |                     | 12.3         | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 | DAN  | 10 1415     | 6010B   |
| Antimony                     | ND           |                     | 18.4         | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 | DAN  | 10 1415     | 6010B   |
| Arsenic                      | 6.4          |                     | 2.5          | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 | DAN  | 10 1415     | 6010B   |
| Barium                       | 133          |                     | 0.613        | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 | DAN  | 10 1415     | 6010B   |
| Beryllium                    | 0.649        |                     | 0.245        | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 | DAN  | 10 1415     | 6010B   |
| Cadmium                      | 0.621        |                     | 0.245        | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 |      | 10 1415     | 6010B   |
| Calcium                      | 13200        |                     | 61.3         | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 |      | 10 1415     | 6010B   |
| Chromium                     | 19.2         |                     | 0.613        | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 |      | 10 1415     | 6010B   |
| Cobalt                       | 11.8         |                     | 0.613        | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 |      | 10 1415     | 6010B   |
| Copper                       | 22.7         |                     | 1.2          | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 |      | 10 1415     | 6010B   |
| Iron                         | 23600        |                     | 12.3         | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 |      | 10 1415     | 6010B   |
| Lead                         | 85.3         |                     | 1.2          | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 |      | 1011415     | 6010B   |
| Magnesium                    | 9340         |                     | 24.5         | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 |      | 1011415     | 6010B   |
| Manganese                    | 904          | B1, B               | 0.2          | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 |      | 1011415     | 6010B   |
| Nickel                       | 21.6         | ס, וס               | 6.13         | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 |      | 1011415     | 6010B   |
| Potassium                    | 1910         |                     | 36.8         | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 |      | 1011415     | 6010B   |
| Selenium                     | ND           |                     | 4.9          |           |           | 1.00    | 09/22/10 18:41 |      | 1011415     | 6010B   |
|                              |              |                     |              |           | mg/kg dry |         |                |      |             |         |
| Silver                       |              |                     | 0.613        | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 |      | 1011415     | 6010B   |
| Sodium                       | ND           |                     | 172          | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 |      | 1011415     | 6010B   |
| Thallium                     | ND           |                     | 7.4          | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 |      | 1011415     | 6010B   |
| Vanadium                     | 28.5         |                     | 0.613        | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 |      | 1011415     | 6010B   |
| Zinc                         | 135          |                     | 2.5          | NR        | mg/kg dry | 1.00    | 09/22/10 18:41 |      | 10 1415     | 6010B   |
| Mercury                      | 0.167        |                     | 0.0249       | NR        | mg/kg dry | 1.00    | 09/20/10 15:30 | JRK  | 10 1343     | 7471A   |

#### **General Chemistry Parameters**

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

| Analytical Report       |                  |                    |       |     |           |            |                  |             |             |            |  |  |
|-------------------------|------------------|--------------------|-------|-----|-----------|------------|------------------|-------------|-------------|------------|--|--|
| Analyte                 | Sample<br>Result | Data<br>Qualifiers | RL    | MDL | Units     | Dil<br>Fac | Date<br>Analyzed | Lab<br>Tech | Batch       | Method     |  |  |
| Client ID: SB-5 (0-2) ( | RTI0959-01 - So  | lid) - cont.       |       |     | Samp      | led: 09/   | /13/10 10:50     | Recv        | vd: 09/14/1 | 0 12:10    |  |  |
| General Chemistry F     | Parameters - con | <u>t.</u>          |       |     |           |            |                  |             |             |            |  |  |
| Percent Solids          | 79               |                    | 0.010 | NR  | %         | 1.00       | 09/16/10 10:26   | JRR         | 1010914     | Dry Weight |  |  |
| Total Cyanide           | ND               |                    | 1.2   | 0.6 | mg/kg dry | 1.00       | 09/18/10 11:52   | RJF         | 10 1023     | 9012A      |  |  |

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THE LEADER IN ENVIRONMENTAL TESTING

#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                                  |           |            | SAMPLE             | EXTR  | ACTION            | DATA  |                |             |                   |
|----------------------------------|-----------|------------|--------------------|-------|-------------------|-------|----------------|-------------|-------------------|
| Parameter                        | Batch     | Lab Number | Wt/Vol<br>Extracte | Units | Extract<br>Volume | Units | Date Prepared  | Lab<br>Tech | Extraction Method |
| General Chemistry Parameters     |           |            |                    |       |                   |       |                |             |                   |
| 9012A                            | 10 1023   | RTI0959-01 | 0.51               | g     | 50.00             | mL    | 09/16/10 12:27 | AMP         | Cn Digestion      |
| Dry Weight                       | 1010914   | RTI0959-01 | 10.00              | g     | 10.00             | g     | 09/15/10 09:15 | JRR         | Dry Weight        |
| Organochlorine Pesticides by EPA | Method 80 | 081A       |                    |       |                   |       |                |             |                   |
| 8081A                            | 10 1075   | RTI0959-01 | 30.08              | g     | 10.00             | mL    | 09/17/10 07:30 | EKD         | 3550B GC          |
| Polychlorinated Biphenyls by EPA | Method 80 | 82         |                    |       |                   |       |                |             |                   |
| 8082                             | 1010937   | RTI0959-01 | 30.66              | g     | 10.00             | mL    | 09/15/10 17:00 | LTT         | 3550B GC          |
| Semivolatile Organics by GC/MS   |           |            |                    |       |                   |       |                |             |                   |
| 8270C                            | 10 1091   | RTI0959-01 | 30.16              | g     | 1.00              | mL    | 09/17/10 07:00 | EKD         | 3550B MB          |
| Total Metals by SW 846 Series Me | ethods    |            |                    |       |                   |       |                |             |                   |
| 6010B                            | 10 1415   | RTI0959-01 | 0.51               | g     | 50.00             | mL    | 09/21/10 17:50 | MDM         | 3050B             |
| 7471A                            | 10 1343   | RTI0959-01 | 0.61               | g     | 50.00             | mL    | 09/20/10 13:25 | JRK         | 7471A_            |
| Volatile Organic Compounds by E  | PA 8260B  |            |                    |       |                   |       |                |             |                   |
| 8260B                            | 10 1220   | RTI0959-01 | 5.00               | g     | 5.00              | mL    | 09/18/10 10:16 | PJQ         | 5030B MS          |

#### SAMPLE EXTRACTION DATA

| Parameter                        | Batch       | Lab Number   | Wt/Vol<br>Extracte | Units | Extract<br>Volume | Units | Date Prepared  | Lab<br>Tech | Extraction Method |
|----------------------------------|-------------|--------------|--------------------|-------|-------------------|-------|----------------|-------------|-------------------|
| General Chemistry Parameters     | Daton       | 200 11011001 |                    | 0     |                   | 01110 |                |             |                   |
| 9012A                            | 10 1387     | RTI1016-01   | 0.54               | g     | 50.00             | mL    | 09/20/10 19:39 | RMB         | Cn Digestion      |
| Dry Weight                       | 10 1002     | RTI1016-01   | 10.00              | g     | 10.00             | g     | 09/16/10 09:15 | JRR         | Dry Weight        |
| Organochlorine Pesticides by EP  | A Method 8  | 081A         |                    |       |                   |       |                |             |                   |
| 8081A                            | 10 1075     | RTI1016-01   | 30.88              | g     | 10.00             | mL    | 09/17/10 07:30 | EKD         | 3550B GC          |
| Polychlorinated Biphenyls by EPA | A Method 80 | 082          |                    |       |                   |       |                |             |                   |
| 8082                             | 10 1073     | RTI1016-01   | 30.88              | g     | 10.00             | mL    | 09/17/10 07:00 | EKD         | 3550B GC          |
| Semivolatile Organics by GC/MS   |             |              |                    |       |                   |       |                |             |                   |
| 8270C                            | 10 1091     | RTI1016-01   | 30.06              | g     | 1.00              | mL    | 09/17/10 07:00 | EKD         | 3550B MB          |
| Total Metals by SW 846 Series M  | ethods      |              |                    |       |                   |       |                |             |                   |
| 6010B                            | 10 1415     | RTI1016-01   | 0.54               | g     | 50.00             | mL    | 09/21/10 17:50 | MDM         | 3050B             |
| 7471A                            | 10 1343     | RTI1016-01   | 0.62               | g     | 50.00             | mL    | 09/20/10 13:25 | JRK         | 7471A_            |
| Volatile Organic Compounds by E  | EPA 8260B   |              |                    |       |                   |       |                |             |                   |
| 8260B                            | 10 1494     | RTI1016-01   | 5.09               | g     | 5.00              | mL    | 09/21/10 18:03 | CDC         | 5035A MS          |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|  |           |                | L        | ABORATORY       | QC DATA   |        |     |        |     |       |            |
|--|-----------|----------------|----------|-----------------|-----------|--------|-----|--------|-----|-------|------------|
|  | Source    | Spike          |          |                 |           |        | %   | % REC  | %   | RPD   | Data       |
| Analyte                                | Result    | Level          | RL       | MDL             | Units     | Result | REC | Limits | RPD | Limit | Qualifiers |
| Volatile Organic Compour               | nds by EP | <u>A 8260B</u> |          |                 |           |        |     |        |     |       |            |
| Blank Analyzed: 09/18/10               | (Lab Num  | ber:10 122     | 20-BLK1, | Batch: 10I1220) |           |        |     |        |     |       |            |
| 1,1,1-Trichloroethane                  |           |                | 5.0      | 0.36            | ug/kg wet | ND     |     |        |     |       |            |
| 1,1,2,2-Tetrachloroethane              |           |                | 5.0      | 0.81            | ug/kg wet | ND     |     |        |     |       |            |
| 1,1,2-Trichloroethane                  |           |                | 5.0      | 0.65            | ug/kg wet | ND     |     |        |     |       |            |
| 1,1,2-Trichloro-1,2,2-triflu oroethane |           |                | 5.0      | 1.1             | ug/kg wet | ND     |     |        |     |       |            |
| 1,1-Dichloroethane                     |           |                | 5.0      | 0.61            | ug/kg wet | ND     |     |        |     |       |            |
| 1,1-Dichloroethene                     |           |                | 5.0      | 0.61            | ug/kg wet | ND     |     |        |     |       |            |
| 1,2,4-Trichlorobenzene                 |           |                | 5.0      | 0.30            | ug/kg wet | ND     |     |        |     |       |            |
| 1,2-Dibromo-3-chloroprop<br>ane        |           |                | 5.0      | 2.5             | ug/kg wet | ND     |     |        |     |       |            |
| 1,2-Dibromoethane                      |           |                | 5.0      | 0.64            | ug/kg wet | ND     |     |        |     |       |            |
| 1,2-Dichlorobenzene                    |           |                | 5.0      | 0.39            | ug/kg wet | ND     |     |        |     |       |            |
| 1,2-Dichloroethane                     |           |                | 5.0      | 0.25            | ug/kg wet | ND     |     |        |     |       |            |
| 1,2-Dichloropropane                    |           |                | 5.0      | 2.5             | ug/kg wet | ND     |     |        |     |       |            |
| 1,3-Dichlorobenzene                    |           |                | 5.0      | 0.26            | ug/kg wet | ND     |     |        |     |       |            |
| 1,4-Dichlorobenzene                    |           |                | 5.0      | 0.70            | ug/kg wet | ND     |     |        |     |       |            |
| 2-Butanone                             |           |                | 25       | 1.8             | ug/kg wet | ND     |     |        |     |       |            |
| 2-Hexanone                             |           |                | 25       | 2.5             | ug/kg wet | ND     |     |        |     |       |            |
| 4-Methyl-2-pentanone                   |           |                | 25       | 1.6             | ug/kg wet | ND     |     |        |     |       |            |
| Acetone                                |           |                | 25       | 4.2             | ug/kg wet | ND     |     |        |     |       |            |
| Benzene                                |           |                | 5.0      | 0.24            | ug/kg wet | ND     |     |        |     |       |            |
| Bromodichloromethane                   |           |                | 5.0      | 0.67            | ug/kg wet | ND     |     |        |     |       |            |
| Bromoform                              |           |                | 5.0      | 2.5             | ug/kg wet | ND     |     |        |     |       |            |
| Bromomethane                           |           |                | 5.0      | 0.45            | ug/kg wet | ND     |     |        |     |       |            |
| Carbon disulfide                       |           |                | 5.0      | 2.5             | ug/kg wet | ND     |     |        |     |       |            |
| Carbon Tetrachloride                   |           |                | 5.0      | 0.48            | ug/kg wet | ND     |     |        |     |       |            |
| Chlorobenzene                          |           |                | 5.0      | 0.66            | ug/kg wet | ND     |     |        |     |       |            |
| Dibromochloromethane                   |           |                | 5.0      | 0.64            | ug/kg wet | ND     |     |        |     |       |            |
| Chloroethane                           |           |                | 5.0      | 1.1             | ug/kg wet | ND     |     |        |     |       |            |
| Chloroform                             |           |                | 5.0      | 0.31            | ug/kg wet | ND     |     |        |     |       |            |
| Chloromethane                          |           |                | 5.0      | 0.30            | ug/kg wet | ND     |     |        |     |       |            |
| cis-1,2-Dichloroethene                 |           |                | 5.0      | 0.64            | ug/kg wet | ND     |     |        |     |       |            |
| cis-1,3-Dichloropropene                |           |                | 5.0      | 0.72            | ug/kg wet | ND     |     |        |     |       |            |
| Cyclohexane                            |           |                | 5.0      | 0.70            | ug/kg wet | ND     |     |        |     |       |            |
| Dichlorodifluoromethane                |           |                | 5.0      | 0.41            | ug/kg wet | ND     |     |        |     |       |            |
| Ethylbenzene                           |           |                | 5.0      | 0.34            | ug/kg wet | ND     |     |        |     |       |            |
| Isopropylbenzene                       |           |                | 5.0      | 0.75            | ug/kg wet | ND     |     |        |     |       |            |
| Methyl Acetate                         |           |                | 5.0      | 0.93            | ug/kg wet | ND     |     |        |     |       |            |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |            |                | L          | ABORATORY       | QC DATA                |            |            |                  |     |       |            |
|---|------------|----------------|------------|-----------------|------------------------|------------|------------|------------------|-----|-------|------------|
|   | Source     | Spike          |            |                 |                        |            | %          | % REC            | %   | RPD   | Data       |
| Analyte   | Result     | Level          | RL         | MDL             | Units                  | Result     | REC        | Limits           | RPD | Limit | Qualifiers |
| Volatile Organic Compou                                     | inds by EP | <u>A 8260B</u> |            |                 |                        |            |            |                  |     |       |            |
| Blank Analyzed: 09/18/10                                    | ) (Lab Num | nber:10 12;    | 20-BLK1. E | Batch: 10 1220) |                        |            |            |                  |     |       |            |
| Methyl-t-Butyl Ether<br>(MTBE)                              | (          |                | 5.0        | 0.49            | ug/kg wet              | ND         |            |                  |     |       |            |
| Methylcyclohexane   |            |                | 5.0        | 0.76            | ug/kg wet              | ND         |            |                  |     |       |            |
| Methylene Chloride  |            |                | 5.0        | 2.3             | ug/kg wet              | ND         |            |                  |     |       |            |
| Styrene   |            |                | 5.0        | 0.25            | ug/kg wet              | ND         |            |                  |     |       |            |
| Tetrachloroethene   |            |                | 5.0        | 0.67            | ug/kg wet              | ND         |            |                  |     |       |            |
| Toluene   |            |                | 5.0        | 0.38            | ug/kg wet              | ND         |            |                  |     |       |            |
| trans-1,2-Dichloroethene                                    |            |                | 5.0        | 0.52            | ug/kg wet              | ND         |            |                  |     |       |            |
| trans-1,3-Dichloropropen                                    |            |                | 5.0        | 2.2             | ug/kg wet              | ND         |            |                  |     |       |            |
| e<br>Trichloroethene  |            |                | 5.0        | 1 1             | ua/ka wat              |            |            |                  |     |       |            |
|   |            |                | 5.0        | 1.1             | ug/kg wet              | ND         |            |                  |     |       |            |
| Trichlorofluoromethane                                      |            |                | 5.0        | 0.47            | ug/kg wet              | ND         |            |                  |     |       |            |
| Vinyl chloride  |            |                | 5.0        | 0.61            | ug/kg wet              | ND         |            |                  |     |       |            |
| Xylenes, total  |            |                | 10         | 0.84            | ug/kg wet              | ND         |            |                  |     |       |            |
| Surrogate:<br>1,2-Dichloroethane-d4                         |            |                |            |                 | ug/kg wet              |            | 100        | 64-126           |     |       |            |
| Surrogate:<br>4-Bromofluorobenzene<br>Surrogate: Toluene-d8 |            |                |            |                 | ug/kg wet<br>ug/kg wet |            | 102<br>111 | 72-126<br>71-125 |     |       |            |
| ·   |            |                |            |                 |                        |            |            |                  |     |       |            |
| LCS Analyzed: 09/18/10                                      | (Lab Numb  | er:1011220     | -          |                 |                        |            |            | 77 404           |     |       |            |
| 1,1,1-Trichloroethane                                       |            |                | 5.0        | 0.36            | ug/kg wet              | ND         |            | 77-121           |     |       |            |
| 1,1,2,2-Tetrachloroethane                                   |            |                | 5.0        | 0.81            | ug/kg wet              | ND         |            | 80-120           |     |       |            |
| 1,1,2-Trichloroethane                                       |            |                | 5.0        | 0.65            | ug/kg wet              | ND         |            | 78-122           |     |       |            |
| 1,1,2-Trichloro-1,2,2-triflu oroethane                      |            |                | 5.0        | 1.1             | ug/kg wet              | ND         |            | 60-140           |     |       |            |
| 1,1-Dichloroethane  |            | 50.0           | 5.0        | 0.61            | ug/kg wet              | 45.0       | 90         | 79-126           |     |       |            |
| 1,1-Dichloroethene  |            | 50.0           | 5.0        | 0.61            | ug/kg wet              | 45.8       | 92         | 65-153           |     |       |            |
| 1,2,4-Trichlorobenzene                                      |            |                | 5.0        | 0.30            | ug/kg wet              | ND         |            | 64-120           |     |       |            |
| 1,2-Dibromo-3-chloroprop                                    |            |                | 5.0        | 2.5             | ug/kg wet              | ND         |            | 63-124           |     |       |            |
| ane<br>1,2-Dibromoethane                                    |            |                | 5.0        | 0.64            | ug/kg wet              | ND         |            | 78-120           |     |       |            |
| 1,2-Dichlorobenzene   |            | 50.0           | 5.0        | 0.39            | ug/kg wet              | 47.9       | 96         | 75-120           |     |       |            |
| 1,2-Dichloroethane  |            | 50.0<br>50.0   | 5.0        | 0.25            | ug/kg wet              | 46.5       | 93         | 77-122           |     |       |            |
| 1,2-Dichloropropane   |            | 50.0           | 5.0        | 2.5             | ug/kg wet              | 40.5<br>ND | 00         | 75-124           |     |       |            |
| 1,3-Dichlorobenzene   |            |                | 5.0        | 0.26            | ug/kg wet              | ND         |            | 74-120           |     |       |            |
|   |            |                | 5.0<br>5.0 | 0.26            |                        | ND         |            | 73-120           |     |       |            |
| 1,4-Dichlorobenzene   |            |                |            |                 | ug/kg wet              |            |            |                  |     |       |            |
| 2-Butanone  |            |                | 25<br>25   | 1.8             | ug/kg wet              |            |            | 70-134           |     |       |            |
| 2-Hexanone  |            |                | 25<br>25   | 2.5             | ug/kg wet              | ND         |            | 59-130           |     |       |            |
| 4-Methyl-2-pentanone  |            |                | 25         | 1.6             | ug/kg wet              | ND         |            | 65-133           |     |       |            |
| Acetone   |            |                | 25         | 4.2             | ug/kg wet              | ND         |            | 61-137           |     |       |            |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |            |            | LA         | BORATORY     | QC DATA   |        |     |        |           |            |
|---|------------|------------|------------|--------------|-----------|--------|-----|--------|-----------|------------|
|   | Source     | Spike      |            |              |           |        | %   | % REC  | % RPD     | Data       |
| Analyte   | Result     | Level      | RL         | MDL          | Units     | Result | REC | Limits | RPD Limit | Qualifiers |
| Volatile Organic Compo                                      | unds by EP | A 8260B    |            |              |           |        |     |        |           |            |
| LCS Analyzed: 09/18/10                                      | (Lab Numb  | er:10 1220 | -BS1. Bato | :h: 10 1220) |           |        |     |        |           |            |
| Benzene   | (          | 50.0       | 5.0        | 0.24         | ug/kg wet | 45.6   | 91  | 79-127 |           |            |
| Bromodichloromethane  |            |            | 5.0        | 0.67         | ug/kg wet | ND     |     | 80-122 |           |            |
| Bromoform   |            |            | 5.0        | 2.5          | ug/kg wet | ND     |     | 68-126 |           |            |
| Bromomethane  |            |            | 5.0        | 0.45         | ug/kg wet | ND     |     | 37-149 |           |            |
| Carbon disulfide  |            |            | 5.0        | 2.5          | ug/kg wet | ND     |     | 64-131 |           |            |
| Carbon Tetrachloride  |            |            | 5.0        | 0.48         | ug/kg wet | ND     |     | 75-135 |           |            |
| Chlorobenzene   |            | 50.0       | 5.0        | 0.66         | ug/kg wet | 50.7   | 101 | 76-124 |           |            |
| Dibromochloromethane  |            |            | 5.0        | 0.64         | ug/kg wet | ND     |     | 76-125 |           |            |
| Chloroethane  |            |            | 5.0        | 1.1          | ug/kg wet | ND     |     | 69-135 |           |            |
| Chloroform  |            |            | 5.0        | 0.31         | ug/kg wet | ND     |     | 80-118 |           |            |
| Chloromethane   |            |            | 5.0        | 0.30         | ug/kg wet | ND     |     | 63-127 |           |            |
| cis-1,2-Dichloroethene                                      |            | 50.0       | 5.0        | 0.64         | ug/kg wet | 44.9   | 90  | 81-117 |           |            |
| cis-1,3-Dichloropropene                                     |            |            | 5.0        | 0.72         | ug/kg wet | ND     |     | 82-120 |           |            |
| Cyclohexane   |            |            | 5.0        | 0.70         | ug/kg wet | ND     |     | 70-130 |           |            |
| Dichlorodifluoromethane                                     |            |            | 5.0        | 0.41         | ug/kg wet | ND     |     | 57-142 |           |            |
| Ethylbenzene  |            | 50.0       | 5.0        | 0.34         | ug/kg wet | 50.4   | 101 | 80-120 |           |            |
| Isopropylbenzene  |            |            | 5.0        | 0.75         | ug/kg wet | ND     |     | 72-120 |           |            |
| Methyl Acetate  |            |            | 5.0        | 0.93         | ug/kg wet | ND     |     | 60-140 |           |            |
| Methyl-t-Butyl Ether<br>(MTBE)                              |            | 50.0       | 5.0        | 0.49         | ug/kg wet | 42.1   | 84  | 63-125 |           |            |
| Methylcyclohexane   |            |            | 5.0        | 0.76         | ug/kg wet | ND     |     | 60-140 |           |            |
| Methylene Chloride  |            |            | 5.0        | 2.3          | ug/kg wet | 4.15   |     | 61-127 |           | J          |
| Styrene   |            |            | 5.0        | 0.25         | ug/kg wet | ND     |     | 80-120 |           |            |
| Tetrachloroethene   |            | 50.0       | 5.0        | 0.67         | ug/kg wet | 50.7   | 101 | 74-122 |           |            |
| Toluene   |            | 50.0       | 5.0        | 0.38         | ug/kg wet | 50.3   | 101 | 74-128 |           |            |
| trans-1,2-Dichloroethene                                    |            | 50.0       | 5.0        | 0.52         | ug/kg wet | 46.7   | 93  | 78-126 |           |            |
| trans-1,3-Dichloropropen<br>e                               |            |            | 5.0        | 2.2          | ug/kg wet | ND     |     | 73-123 |           |            |
| Trichloroethene   |            | 50.0       | 5.0        | 1.1          | ug/kg wet | 46.7   | 93  | 77-129 |           |            |
| Trichlorofluoromethane                                      |            |            | 5.0        | 0.47         | ug/kg wet | ND     |     | 65-146 |           |            |
| Vinyl chloride  |            |            | 5.0        | 0.61         | ug/kg wet | ND     |     | 61-133 |           |            |
| Xylenes, total  |            | 150        | 10         | 0.84         | ug/kg wet | 156    | 104 | 80-120 |           |            |
| Surrogate:  |            |            |            |              | ug/kg wet |        | 100 | 64-126 |           |            |
| 1,2-Dichloroethane-d4<br>Surrogate:<br>4-Bromofluorobenzene |            |            |            |              | ug/kg wet |        | 106 | 72-126 |           |            |
| 4-Bromonuorobenzene<br>Surrogate: Toluene-d8                |            |            |            |              | ug/kg wet |        | 110 | 71-125 |           |            |

#### Volatile Organic Compounds by EPA 8260B

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|  |           |                | L        | ABORATORY       | QC DATA   |        |     |        |     |       |            |
|--|-----------|----------------|----------|-----------------|-----------|--------|-----|--------|-----|-------|------------|
|  | Source    | Spike          |          |                 |           |        | %   | % REC  | %   | RPD   | Data       |
| Analyte                                | Result    | Level          | RL       | MDL             | Units     | Result | REC | Limits | RPD | Limit | Qualifiers |
| Volatile Organic Compour               | nds by EP | <u>A 8260B</u> |          |                 |           |        |     |        |     |       |            |
| Blank Analyzed: 09/21/10               | (Lab Num  | nber:10 149    | 94-BLK1, | Batch: 10I1494) |           |        |     |        |     |       |            |
| 1,1,1-Trichloroethane                  |           |                | 5.0      | 0.36            | ug/kg wet | ND     |     |        |     |       |            |
| 1,1,2,2-Tetrachloroethane              |           |                | 5.0      | 0.81            | ug/kg wet | ND     |     |        |     |       |            |
| 1,1,2-Trichloroethane                  |           |                | 5.0      | 0.65            | ug/kg wet | ND     |     |        |     |       |            |
| 1,1,2-Trichloro-1,2,2-triflu oroethane |           |                | 5.0      | 1.1             | ug/kg wet | ND     |     |        |     |       |            |
| 1,1-Dichloroethane                     |           |                | 5.0      | 0.61            | ug/kg wet | ND     |     |        |     |       |            |
| 1,1-Dichloroethene                     |           |                | 5.0      | 0.61            | ug/kg wet | ND     |     |        |     |       |            |
| 1,2,4-Trichlorobenzene                 |           |                | 5.0      | 0.30            | ug/kg wet | ND     |     |        |     |       |            |
| 1,2-Dibromo-3-chloroprop ane           |           |                | 5.0      | 2.5             | ug/kg wet | ND     |     |        |     |       |            |
| 1,2-Dibromoethane                      |           |                | 5.0      | 0.64            | ug/kg wet | ND     |     |        |     |       |            |
| 1,2-Dichlorobenzene                    |           |                | 5.0      | 0.39            | ug/kg wet | ND     |     |        |     |       |            |
| 1,2-Dichloroethane                     |           |                | 5.0      | 0.25            | ug/kg wet | ND     |     |        |     |       |            |
| 1,2-Dichloropropane                    |           |                | 5.0      | 2.5             | ug/kg wet | ND     |     |        |     |       |            |
| 1,3-Dichlorobenzene                    |           |                | 5.0      | 0.26            | ug/kg wet | ND     |     |        |     |       |            |
| 1,4-Dichlorobenzene                    |           |                | 5.0      | 0.70            | ug/kg wet | ND     |     |        |     |       |            |
| 2-Butanone                             |           |                | 25       | 1.8             | ug/kg wet | ND     |     |        |     |       |            |
| 2-Hexanone                             |           |                | 25       | 2.5             | ug/kg wet | ND     |     |        |     |       |            |
| 4-Methyl-2-pentanone                   |           |                | 25       | 1.6             | ug/kg wet | ND     |     |        |     |       |            |
| Acetone                                |           |                | 25       | 4.2             | ug/kg wet | ND     |     |        |     |       |            |
| Benzene                                |           |                | 5.0      | 0.24            | ug/kg wet | ND     |     |        |     |       |            |
| Bromodichloromethane                   |           |                | 5.0      | 0.67            | ug/kg wet | ND     |     |        |     |       |            |
| Bromoform                              |           |                | 5.0      | 2.5             | ug/kg wet | ND     |     |        |     |       |            |
| Bromomethane                           |           |                | 5.0      | 0.45            | ug/kg wet | ND     |     |        |     |       |            |
| Carbon disulfide                       |           |                | 5.0      | 2.5             | ug/kg wet | ND     |     |        |     |       |            |
| Carbon Tetrachloride                   |           |                | 5.0      | 0.48            | ug/kg wet | ND     |     |        |     |       |            |
| Chlorobenzene                          |           |                | 5.0      | 0.66            | ug/kg wet | ND     |     |        |     |       |            |
| Dibromochloromethane                   |           |                | 5.0      | 0.64            | ug/kg wet | ND     |     |        |     |       |            |
| Chloroethane                           |           |                | 5.0      | 1.1             | ug/kg wet | ND     |     |        |     |       |            |
| Chloroform                             |           |                | 5.0      | 0.31            | ug/kg wet | ND     |     |        |     |       |            |
| Chloromethane                          |           |                | 5.0      | 0.30            | ug/kg wet | ND     |     |        |     |       |            |
| cis-1,2-Dichloroethene                 |           |                | 5.0      | 0.64            | ug/kg wet | ND     |     |        |     |       |            |
| cis-1,3-Dichloropropene                |           |                | 5.0      | 0.72            | ug/kg wet | ND     |     |        |     |       |            |
| Cyclohexane                            |           |                | 5.0      | 0.70            | ug/kg wet | ND     |     |        |     |       |            |
| Dichlorodifluoromethane                |           |                | 5.0      | 0.41            | ug/kg wet | ND     |     |        |     |       |            |
| Ethylbenzene                           |           |                | 5.0      | 0.34            | ug/kg wet | ND     |     |        |     |       |            |
| Isopropylbenzene                       |           |                | 5.0      | 0.75            | ug/kg wet | ND     |     |        |     |       |            |
| Methyl Acetate                         |           |                | 5.0      | 0.93            | ug/kg wet | ND     |     |        |     |       |            |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                                     |            |              | L          | ABORATORY       | QC DATA   |            |     |        |     |       |            |
|-------------------------------------|------------|--------------|------------|-----------------|-----------|------------|-----|--------|-----|-------|------------|
|                                     | Source     | Spike        |            |                 |           |            | %   | % REC  | %   | RPD   | Data       |
| Analyte                             | Result     | Level        | RL         | MDL             | Units     | Result     | REC | Limits | RPD | Limit | Qualifiers |
| Volatile Organic Compou             | unds by EP | A 8260B      |            |                 |           |            |     |        |     |       |            |
| Blank Analyzed: 09/21/10            | ) (Lab Num | ber 10114    | 94-RI K1 I | Batch: 10 1494) |           |            |     |        |     |       |            |
| Methyl-t-Butyl Ether                |            |              | 5.0        | 0.49            | ug/kg wet | ND         |     |        |     |       |            |
| (MTBE)                              |            |              |            |                 | 0 0       |            |     |        |     |       |            |
| Methylcyclohexane                   |            |              | 5.0        | 0.76            | ug/kg wet | ND         |     |        |     |       |            |
| Methylene Chloride                  |            |              | 5.0        | 2.3             | ug/kg wet | ND         |     |        |     |       |            |
| Styrene                             |            |              | 5.0        | 0.25            | ug/kg wet | ND         |     |        |     |       |            |
| Tetrachloroethene                   |            |              | 5.0        | 0.67            | ug/kg wet | ND         |     |        |     |       |            |
| Toluene                             |            |              | 5.0        | 0.38            | ug/kg wet | ND         |     |        |     |       |            |
| trans-1,2-Dichloroethene            |            |              | 5.0        | 0.52            | ug/kg wet | ND         |     |        |     |       |            |
| trans-1,3-Dichloropropen            |            |              | 5.0        | 2.2             | ug/kg wet | ND         |     |        |     |       |            |
| e<br>Trichloroethene                |            |              | 5.0        | 1.1             | ug/kg wet | ND         |     |        |     |       |            |
| Trichlorofluoromethane              |            |              | 5.0        | 0.47            | ug/kg wet | ND         |     |        |     |       |            |
|                                     |            |              | 5.0<br>5.0 | 0.61            |           |            |     |        |     |       |            |
| Vinyl chloride                      |            |              |            |                 | ug/kg wet | ND         |     |        |     |       |            |
| Xylenes, total                      |            |              | 10         | 0.84            | ug/kg wet | ND         |     |        |     |       |            |
| Surrogate:                          |            |              |            |                 | ug/kg wet |            | 92  | 64-126 |     |       |            |
| 1,2-Dichloroethane-d4<br>Surrogate: |            |              |            |                 | ug/kg wet |            | 97  | 72-126 |     |       |            |
| 4-Bromofluorobenzene                |            |              |            |                 |           |            |     |        |     |       |            |
| Surrogate: Toluene-d8               |            |              |            |                 | ug/kg wet |            | 104 | 71-125 |     |       |            |
| LCS Analyzed: 09/21/10              | (Lab Numb  | oer:10 1494  | -BS1, Bat  | ch: 10l1494)    |           |            |     |        |     |       |            |
| 1,1,1-Trichloroethane               |            | 50.0         | 5.0        | 0.36            | ug/kg wet | 48.3       | 97  | 77-121 |     |       |            |
| 1,1,2,2-Tetrachloroethane           |            | 50.0         | 5.0        | 0.81            | ug/kg wet | 42.6       | 85  | 80-120 |     |       |            |
| 1,1,2-Trichloroethane               |            | 50.0         | 5.0        | 0.65            | ug/kg wet | 47.0       | 94  | 78-122 |     |       |            |
| 1,1,2-Trichloro-1,2,2-triflu        |            | 50.0         | 5.0        | 1.1             | ug/kg wet | 55.2       | 110 | 60-140 |     |       |            |
| oroethane                           |            |              | 5.0        | 0.01            |           | 54.0       | 101 | 70 400 |     |       |            |
| 1,1-Dichloroethane                  |            | 50.0         | 5.0        | 0.61            | ug/kg wet | 51.9       | 104 | 79-126 |     |       |            |
| 1,1-Dichloroethene                  |            | 50.0         | 5.0        | 0.61            | ug/kg wet | 46.5       | 93  | 65-153 |     |       |            |
| 1,2,4-Trichlorobenzene              |            | 50.0         | 5.0        | 0.30            | ug/kg wet | 43.4       | 87  | 64-120 |     |       |            |
| 1,2-Dibromo-3-chloroprop<br>ane     |            | 50.0         | 5.0        | 2.5             | ug/kg wet | 36.5       | 73  | 63-124 |     |       |            |
| 1,2-Dibromoethane                   |            | 50.0         | 5.0        | 0.64            | ug/kg wet | 47.1       | 94  | 78-120 |     |       |            |
| 1,2-Dichlorobenzene                 |            | 50.0         | 5.0        | 0.39            | ug/kg wet | 48.3       | 97  | 75-120 |     |       |            |
| 1,2-Dichloroethane                  |            | 50.0         | 5.0        | 0.25            | ug/kg wet | 46.9       | 94  | 77-122 |     |       |            |
| 1,2-Dichloropropane                 |            | 50.0         | 5.0        | 2.5             | ug/kg wet | 47.6       | 95  | 75-124 |     |       |            |
| 1,3-Dichlorobenzene                 |            | 50.0         | 5.0        | 0.26            | ug/kg wet | 50.4       | 101 | 74-120 |     |       |            |
| 1,4-Dichlorobenzene                 |            | 50.0<br>50.0 | 5.0        | 0.70            | ug/kg wet | 49.1       | 98  | 73-120 |     |       |            |
| 2-Butanone                          |            | 250          | 25         | 1.8             | ug/kg wet | 244        | 98  | 70-134 |     |       |            |
| 2-Hexanone                          |            | 250<br>250   | 25         | 2.5             | ug/kg wet | 248        | 99  | 59-130 |     |       |            |
| 4-Methyl-2-pentanone                |            | 250<br>250   | 25         | 1.6             | ug/kg wet | 250        | 100 | 65-133 |     |       |            |
| Acetone                             |            |              | 25         | 4.2             | ug/kg wet | 230<br>244 | 98  | 61-137 |     |       |            |
|                                     |            | 250          | 20         | <b>Τ.</b> Δ     | uging wet | <u> </u>   | 50  | 01-107 |     |       |            |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                                     |            |             | LA         | BORATORY     | QC DATA   |        |     |        |           |            |
|-------------------------------------|------------|-------------|------------|--------------|-----------|--------|-----|--------|-----------|------------|
|                                     | Source     | Spike       | -          |              |           |        | %   | % REC  | % RPD     | Data       |
| Analyte                             | Result     | Level       | RL         | MDL          | Units     | Result | REC | Limits | RPD Limit | Qualifiers |
| Volatile Organic Compo              | unds by EP | A 8260B     |            |              |           |        |     |        |           |            |
| LCS Analyzed: 09/21/10              | (Lab Numb  | per:10 1494 | -BS1, Bato | ch: 10l1494) |           |        |     |        |           |            |
| Benzene                             |            | 50.0        | 5.0        | 0.24         | ug/kg wet | 48.9   | 98  | 79-127 |           |            |
| Bromodichloromethane                |            | 50.0        | 5.0        | 0.67         | ug/kg wet | 45.6   | 91  | 80-122 |           |            |
| Bromoform                           |            | 50.0        | 5.0        | 2.5          | ug/kg wet | 40.1   | 80  | 68-126 |           |            |
| Bromomethane                        |            | 50.0        | 5.0        | 0.45         | ug/kg wet | 53.8   | 108 | 37-149 |           |            |
| Carbon disulfide                    |            | 50.0        | 5.0        | 2.5          | ug/kg wet | 50.0   | 100 | 64-131 |           |            |
| Carbon Tetrachloride                |            | 50.0        | 5.0        | 0.48         | ug/kg wet | 46.1   | 92  | 75-135 |           |            |
| Chlorobenzene                       |            | 50.0        | 5.0        | 0.66         | ug/kg wet | 51.0   | 102 | 76-124 |           |            |
| Dibromochloromethane                |            | 50.0        | 5.0        | 0.64         | ug/kg wet | 44.6   | 89  | 76-125 |           |            |
| Chloroethane                        |            | 50.0        | 5.0        | 1.1          | ug/kg wet | 51.6   | 103 | 69-135 |           |            |
| Chloroform                          |            | 50.0        | 5.0        | 0.31         | ug/kg wet | 49.2   | 98  | 80-118 |           |            |
| Chloromethane                       |            | 50.0        | 5.0        | 0.30         | ug/kg wet | 55.1   | 110 | 63-127 |           |            |
| cis-1,2-Dichloroethene              |            | 50.0        | 5.0        | 0.64         | ug/kg wet | 51.2   | 102 | 81-117 |           |            |
| cis-1,3-Dichloropropene             |            | 50.0        | 5.0        | 0.72         | ug/kg wet | 44.2   | 88  | 82-120 |           |            |
| Cyclohexane                         |            | 50.0        | 5.0        | 0.70         | ug/kg wet | 53.1   | 106 | 70-130 |           |            |
| Dichlorodifluoromethane             |            | 50.0        | 5.0        | 0.41         | ug/kg wet | 44.2   | 88  | 57-142 |           |            |
| Ethylbenzene                        |            | 50.0        | 5.0        | 0.34         | ug/kg wet | 50.5   | 101 | 80-120 |           |            |
| Isopropylbenzene                    |            | 50.0        | 5.0        | 0.75         | ug/kg wet | 45.0   | 90  | 72-120 |           |            |
| Methyl Acetate                      |            | 50.0        | 5.0        | 0.93         | ug/kg wet | 95.9   | 192 | 60-140 |           | L          |
| Methyl-t-Butyl Ether<br>(MTBE)      |            | 50.0        | 5.0        | 0.49         | ug/kg wet | 44.2   | 88  | 63-125 |           |            |
| Methylcyclohexane                   |            | 50.0        | 5.0        | 0.76         | ug/kg wet | 53.3   | 107 | 60-140 |           |            |
| Methylene Chloride                  |            | 50.0        | 5.0        | 2.3          | ug/kg wet | 51.6   | 103 | 61-127 |           |            |
| Styrene                             |            | 50.0        | 5.0        | 0.25         | ug/kg wet | 46.5   | 93  | 80-120 |           |            |
| Tetrachloroethene                   |            | 50.0        | 5.0        | 0.67         | ug/kg wet | 52.6   | 105 | 74-122 |           |            |
| Toluene                             |            | 50.0        | 5.0        | 0.38         | ug/kg wet | 51.3   | 103 | 74-128 |           |            |
| trans-1,2-Dichloroethene            |            | 50.0        | 5.0        | 0.52         | ug/kg wet | 50.2   | 100 | 78-126 |           |            |
| trans-1,3-Dichloropropen<br>e       |            | 50.0        | 5.0        | 2.2          | ug/kg wet | 44.9   | 90  | 73-123 |           |            |
| Trichloroethene                     |            | 50.0        | 5.0        | 1.1          | ug/kg wet | 48.6   | 97  | 77-129 |           |            |
| Trichlorofluoromethane              |            | 50.0        | 5.0        | 0.47         | ug/kg wet | 58.5   | 117 | 65-146 |           |            |
| Vinyl chloride                      |            | 50.0        | 5.0        | 0.61         | ug/kg wet | 49.0   | 98  | 61-133 |           |            |
| Xylenes, total                      |            | 150         | 10         | 0.84         | ug/kg wet | 156    | 104 | 80-120 |           |            |
| Surrogate:<br>1.2-Dichloroethane-d4 |            |             |            |              | ug/kg wet |        | 99  | 64-126 |           |            |
| Surrogate:<br>4-Bromofluorobenzene  |            |             |            |              | ug/kg wet |        | 110 | 72-126 |           |            |
| Surrogate: Toluene-d8               |            |             |            |              | ug/kg wet |        | 111 | 71-125 |           |            |

Matrix Spike Analyzed: 09/22/10 (Lab Number:10I1494-MS1, Batch: 10I1494)

QC Source Sample: RTI1016-01

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |        |                | LÆ          | BORATOR        | Y QC DATA |        |     |        |           |            |
|---|--------|----------------|-------------|----------------|-----------|--------|-----|--------|-----------|------------|
|   | Source | Spike          | RL          |                |           |        | %   | % REC  | % RPD     | Data       |
| Analyte Volatile Organic Compou                         | Result |                |             | MDL            | Units     | Result | REC | Limits | RPD Limit | Qualifiers |
|   |        | <u>A 0200B</u> |             |                |           |        |     |        |           |            |
| Matrix Spike Analyzed: 0<br>QC Source Sample: RTI1016-0 | •      | ab Numbe       | r:10 1494-N | IS1, Batch: 10 | 1494)     |        |     |        |           |            |
| 1,1,1-Trichloroethane                                   | ND     | 54.6           | 5.5         | 0.40           | ug/kg dry | 45.5   | 83  | 77-121 |           |            |
| 1,1,2,2-Tetrachloroethane                               | ND     | 54.6           | 5.5         | 0.89           | ug/kg dry | 29.2   | 54  | 80-120 |           | M8         |
| 1,1,2-Trichloroethane                                   | ND     | 54.6           | 5.5         | 0.71           | ug/kg dry | 38.5   | 70  | 78-122 |           | M8         |
| 1,1,2-Trichloro-1,2,2-triflu oroethane                  | ND     | 54.6           | 5.5         | 1.2            | ug/kg dry | 52.8   | 97  | 60-140 |           |            |
| 1,1-Dichloroethane                                      | ND     | 54.6           | 5.5         | 0.67           | ug/kg dry | 48.8   | 89  | 79-126 |           |            |
| 1,1-Dichloroethene                                      | ND     | 54.6           | 5.5         | 0.67           | ug/kg dry | 42.8   | 78  | 65-153 |           |            |
| 1,2,4-Trichlorobenzene                                  | ND     | 54.6           | 5.5         | 0.33           | ug/kg dry | 26.7   | 49  | 64-120 |           | M8         |
| 1,2-Dibromo-3-chloroprop                                | ND     | 54.6           | 5.5         | 2.7            | ug/kg dry | 20.2   | 37  | 63-124 |           | M8         |
| ane<br>1,2-Dibromoethane                                | ND     | 54.6           | 5.5         | 0.70           | ug/kg dry | 35.6   | 65  | 78-120 |           | M8         |
| 1,2-Dichlorobenzene                                     | ND     | 54.6           | 5.5         | 0.43           | ug/kg dry | 37.8   | 69  | 75-120 |           | M8         |
| 1,2-Dichloroethane                                      | ND     | 54.6           | 5.5         | 0.27           | ug/kg dry | 40.6   | 74  | 77-122 |           | M8         |
| 1,2-Dichloropropane                                     | ND     | 54.6           | 5.5         | 2.7            | ug/kg dry | 43.9   | 80  | 75-124 |           |            |
| 1,3-Dichlorobenzene                                     | ND     | 54.6           | 5.5         | 0.28           | ug/kg dry | 40.0   | 73  | 74-120 |           | M8         |
| 1,4-Dichlorobenzene                                     | ND     | 54.6           | 5.5         | 0.76           | ug/kg dry | 39.1   | 72  | 73-120 |           | M8         |
| 2-Butanone  | ND     | 273            | 27          | 2.0            | ug/kg dry | 136    | 50  | 70-134 |           | M8         |
| 2-Hexanone  | ND     | 273            | 27          | 2.7            | ug/kg dry | 144    | 53  | 59-130 |           | M8         |
| 4-Methyl-2-pentanone                                    | ND     | 273            | 27          | 1.8            | ug/kg dry | 155    | 57  | 65-133 |           | M8         |
| Acetone   | ND     | 273            | 27          | 4.6            | ug/kg dry | 143    | 52  | 61-137 |           | M8         |
| Benzene   | ND     | 54.6           | 5.5         | 0.27           | ug/kg dry | 46.7   | 86  | 79-127 |           |            |
| Bromodichloromethane                                    | ND     | 54.6           | 5.5         | 0.73           | ug/kg dry | 40.4   | 74  | 80-122 |           | M8         |
| Bromoform   | ND     | 54.6           | 5.5         | 2.7            | ug/kg dry | 28.0   | 51  | 68-126 |           | M8         |
| Bromomethane  | ND     | 54.6           | 5.5         | 0.49           | ug/kg dry | 85.4   | 156 | 37-149 |           | M7         |
| Carbon disulfide  | ND     | 54.6           | 5.5         | 2.7            | ug/kg dry | 47.3   | 87  | 64-131 |           |            |
| Carbon Tetrachloride                                    | ND     | 54.6           | 5.5         | 0.53           | ug/kg dry | 43.5   | 80  | 75-135 |           |            |
| Chlorobenzene   | ND     | 54.6           | 5.5         | 0.72           | ug/kg dry | 46.6   | 85  | 76-124 |           |            |
| Dibromochloromethane                                    | ND     | 54.6           | 5.5         | 0.70           | ug/kg dry | 36.4   | 67  | 76-125 |           | M8         |
| Chloroethane  | ND     | 54.6           | 5.5         | 1.2            | ug/kg dry | 67.3   | 123 | 69-135 |           |            |
| Chloroform  | ND     | 54.6           | 5.5         | 0.34           | ug/kg dry | 46.8   | 86  | 80-118 |           |            |
| Chloromethane   | ND     | 54.6           | 5.5         | 0.33           | ug/kg dry | 56.6   | 104 | 63-127 |           |            |
| cis-1,2-Dichloroethene                                  | ND     | 54.6           | 5.5         | 0.70           | ug/kg dry | 47.2   | 87  | 81-117 |           |            |
| cis-1,3-Dichloropropene                                 | ND     | 54.6           | 5.5         | 0.79           | ug/kg dry | 36.0   | 66  | 82-120 |           | M8         |
| Cyclohexane   | ND     | 54.6           | 5.5         | 0.76           | ug/kg dry | 47.4   | 87  | 70-130 |           |            |
| Dichlorodifluoromethane                                 | ND     | 54.6           | 5.5         | 0.45           | ug/kg dry | 44.0   | 81  | 57-142 |           |            |
| Ethylbenzene  | ND     | 54.6           | 5.5         | 0.38           | ug/kg dry | 46.8   | 86  | 80-120 |           |            |
| Isopropylbenzene  | ND     | 54.6           | 5.5         | 0.82           | ug/kg dry | 39.8   | 73  | 72-120 |           |            |
| Methyl Acetate  | ND     | 54.6           | 5.5         | 1.0            | ug/kg dry | 61.4   | 112 | 60-140 |           |            |

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THE LEADER IN ENVIRONMENTAL TESTING

#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |            |                | LA          | ABORATOR        | Y QC DATA              |        |           |                  |     |       |            |
|---|------------|----------------|-------------|-----------------|------------------------|--------|-----------|------------------|-----|-------|------------|
|   | Source     | Spike          |             |                 |                        |        | %         | % REC            | %   | RPD   | Data       |
| Analyte   | Result     | Level          | RL          | MDL             | Units                  | Result | REC       | Limits           | RPD | Limit | Qualifiers |
| Volatile Organic Compou                                 | unds by EP | <u>A 8260B</u> |             |                 |                        |        |           |                  |     |       |            |
| Matrix Spike Analyzed: 0<br>QC Source Sample: RTI1016-0 | -          | ab Numbei      | r:10 1494-N | /IS1, Batch: 10 | 1494)                  |        |           |                  |     |       |            |
| Methyl-t-Butyl Ether<br>(MTBE)                          | ND         | 54.6           | 5.5         | 0.54            | ug/kg dry              | 33.1   | 61        | 63-125           |     |       | M8         |
| Methylcyclohexane                                       | ND         | 54.6           | 5.5         | 0.83            | ug/kg dry              | 45.2   | 83        | 60-140           |     |       |            |
| Methylene Chloride                                      | 7.86       | 54.6           | 5.5         | 2.5             | ug/kg dry              | 52.3   | 81        | 61-127           |     |       |            |
| Styrene   | ND         | 54.6           | 5.5         | 0.27            | ug/kg dry              | 40.6   | 74        | 80-120           |     |       | M8         |
| Tetrachloroethene                                       | ND         | 54.6           | 5.5         | 0.73            | ug/kg dry              | 46.8   | 86        | 74-122           |     |       |            |
| Toluene   | ND         | 54.6           | 5.5         | 0.41            | ug/kg dry              | 48.7   | 89        | 74-128           |     |       |            |
| trans-1,2-Dichloroethene                                | ND         | 54.6           | 5.5         | 0.56            | ug/kg dry              | 47.2   | 87        | 78-126           |     |       |            |
| trans-1,3-Dichloropropen                                | ND         | 54.6           | 5.5         | 2.4             | ug/kg dry              | 35.5   | 65        | 73-123           |     |       | M8         |
| e<br>Trichloroethene                                    | ND         | 54.6           | 5.5         | 1.2             | ug/kg dry              | 44.7   | 82        | 77-129           |     |       |            |
| Trichlorofluoromethane                                  | ND         | 54.6           | 5.5         | 0.52            | ug/kg dry              | 62.0   | 114       | 65-146           |     |       |            |
| Vinyl chloride  | ND         | 54.6           | 5.5         | 0.67            | ug/kg dry              | 51.1   | 94        | 61-133           |     |       |            |
| Xylenes, total  | ND         | 54.0<br>164    | 11          | 0.92            | ug/kg dry              | 142    | 87        | 80-120           |     |       |            |
| • • •   | ND         | 104            | 11          | 0.02            |                        | 172    |           |                  |     |       |            |
| Surrogate:<br>1,2-Dichloroethane-d4<br>Surrogate:       |            |                |             |                 | ug/kg dry<br>ug/kg dry |        | 86<br>107 | 64-126<br>72-126 |     |       |            |
| 4-Bromofluorobenzene<br>Surrogate: Toluene-d8           |            |                |             |                 | ug/kg dry              |        | 115       | 71-125           |     |       |            |
| Matrix Spike Dup Analyz                                 |            | 0 (Lab Nu      | mber:10l14  | 494-MSD1, Bat   | ch: 10l1494)           |        |           |                  |     |       |            |
| QC Source Sample: RTI1016-0                             |            |                |             |                 |                        |        |           |                  | -   |       |            |
| 1,1,1-Trichloroethane                                   | ND         | 53.6           | 5.4         | 0.39            | ug/kg dry              | 44.8   | 83        | 77-121           |     | 20    |            |
| 1,1,2,2-Tetrachloroethane                               | ND         | 53.6           | 5.4         | 0.87            | ug/kg dry              | 29.9   | 56        | 80-120           | 2   | 20    | M8         |
| 1,1,2-Trichloroethane                                   | ND         | 53.6           | 5.4         | 0.70            | ug/kg dry              | 38.5   | 72        | 78-122           | 0.1 | 20    | M8         |
| 1,1,2-Trichloro-1,2,2-triflu oroethane                  | ND         | 53.6           | 5.4         | 1.2             | ug/kg dry              | 50.9   | 95        | 60-140           | 4   | 20    |            |
| 1,1-Dichloroethane                                      | ND         | 53.6           | 5.4         | 0.65            | ug/kg dry              | 47.8   | 89        | 79-126           | 2   | 20    |            |
| 1,1-Dichloroethene                                      | ND         | 53.6           | 5.4         | 0.66            | ug/kg dry              | 42.2   | 79        | 65-153           | 1   | 22    |            |
| 1,2,4-Trichlorobenzene                                  | ND         | 53.6           | 5.4         | 0.33            | ug/kg dry              | 25.6   | 48        | 64-120           | 4   | 20    | M8         |
| 1,2-Dibromo-3-chloroprop<br>ane                         | ND         | 53.6           | 5.4         | 2.7             | ug/kg dry              | 20.6   | 38        | 63-124           | 2   | 20    | M8         |
| 1,2-Dibromoethane                                       | ND         | 53.6           | 5.4         | 0.69            | ug/kg dry              | 36.2   | 67        | 78-120           | 1   | 20    | M8         |
| 1,2-Dichlorobenzene                                     | ND         | 53.6           | 5.4         | 0.42            | ug/kg dry              | 36.4   | 68        | 75-120           | 4   | 20    | M8         |
| 1,2-Dichloroethane                                      | ND         | 53.6           | 5.4         | 0.27            | ug/kg dry              | 39.6   | 74        | 77-122           | 3   | 20    | M8         |
| 1,2-Dichloropropane                                     | ND         | 53.6           | 5.4         | 2.7             | ug/kg dry              | 43.7   | 81        | 75-124           | 0.6 | 20    |            |
| 1,3-Dichlorobenzene                                     | ND         | 53.6           | 5.4         | 0.28            | ug/kg dry              | 38.1   | 71        | 74-120           | 5   | 20    | M8         |
| 1,4-Dichlorobenzene                                     | ND         | 53.6           | 5.4         | 0.75            | ug/kg dry              | 37.4   | 70        | 73-120           | 5   | 20    | M8         |
| 2-Butanone  | ND         | 268            | 27          | 2.0             | ug/kg dry              | 141    | 53        | 70-134           | 3   | 20    | M8         |
| 2-Hexanone  | ND         | 268            | 27          | 2.7             | ug/kg dry              | 151    | 56        | 59-130           | 5   | 20    | M8         |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |            |           | LÆ         | BORATOR       | Y QC DATA    |        |     |        |     |       |           |
|---|------------|-----------|------------|---------------|--------------|--------|-----|--------|-----|-------|-----------|
|   | Source     | Spike     | RL         | MDI           |              |        | %   | % REC  | %   | RPD   | Data      |
| Analyte   | Result     |           |            | MDL           | Units        | Result | REC | Limits | RPD | Limit | Qualifier |
| Volatile Organic Compo                                | unas by EP | A 0200D   |            |               |              |        |     |        |     |       |           |
| Matrix Spike Dup Analy:<br>QC Source Sample: RTI1016- |            | 0 (Lab Nu | mber:10l14 | 194-MSD1, Bat | ch: 10l1494) |        |     |        |     |       |           |
| 4-Methyl-2-pentanone                                  | ND         | 268       | 27         | 1.8           | ug/kg dry    | 162    | 61  | 65-133 | 5   | 20    | M8        |
| Acetone   | ND         | 268       | 27         | 4.5           | ug/kg dry    | 146    | 55  | 61-137 | 2   | 15    | M8        |
| Benzene   | ND         | 53.6      | 5.4        | 0.26          | ug/kg dry    | 45.8   | 85  | 79-127 | 2   | 20    |           |
| Bromodichloromethane                                  | ND         | 53.6      | 5.4        | 0.72          | ug/kg dry    | 40.0   | 75  | 80-122 | 1   | 20    | M8        |
| Bromoform   | ND         | 53.6      | 5.4        | 2.7           | ug/kg dry    | 28.5   | 53  | 68-126 | 2   | 20    | M8        |
| Bromomethane  | ND         | 53.6      | 5.4        | 0.48          | ug/kg dry    | 80.2   | 150 | 37-149 | 6   | 20    | M7        |
| Carbon disulfide                                      | ND         | 53.6      | 5.4        | 2.7           | ug/kg dry    | 46.3   | 86  | 64-131 | 2   | 20    |           |
| Carbon Tetrachloride                                  | ND         | 53.6      | 5.4        | 0.52          | ug/kg dry    | 43.1   | 80  | 75-135 | 0.9 | 20    |           |
| Chlorobenzene   | ND         | 53.6      | 5.4        | 0.71          | ug/kg dry    | 45.0   | 84  | 76-124 | 3   | 25    |           |
| Dibromochloromethane                                  | ND         | 53.6      | 5.4        | 0.69          | ug/kg dry    | 36.6   | 68  | 76-125 | 0.6 | 20    | M8        |
| Chloroethane  | ND         | 53.6      | 5.4        | 1.2           | ug/kg dry    | 64.6   | 120 | 69-135 | 4   | 20    |           |
| Chloroform  | ND         | 53.6      | 5.4        | 0.33          | ug/kg dry    | 46.1   | 86  | 80-118 | 1   | 20    |           |
| Chloromethane   | ND         | 53.6      | 5.4        | 0.32          | ug/kg dry    | 55.1   | 103 | 63-127 | 3   | 20    |           |
| cis-1,2-Dichloroethene                                | ND         | 53.6      | 5.4        | 0.69          | ug/kg dry    | 46.5   | 87  | 81-117 | 2   | 20    |           |
| cis-1,3-Dichloropropene                               | ND         | 53.6      | 5.4        | 0.77          | ug/kg dry    | 36.2   | 68  | 82-120 | 0.5 | 20    | M8        |
| Cyclohexane   | ND         | 53.6      | 5.4        | 0.75          | ug/kg dry    | 46.4   | 86  | 70-130 | 2   | 20    |           |
| Dichlorodifluoromethane                               | ND         | 53.6      | 5.4        | 0.44          | ug/kg dry    | 43.6   | 81  | 57-142 | 1   | 20    |           |
| Ethylbenzene  | ND         | 53.6      | 5.4        | 0.37          | ug/kg dry    | 45.1   | 84  | 80-120 | 4   | 20    |           |
| lsopropylbenzene                                      | ND         | 53.6      | 5.4        | 0.81          | ug/kg dry    | 38.6   | 72  | 72-120 | 3   | 20    |           |
| Methyl Acetate  | ND         | 53.6      | 5.4        | 1.0           | ug/kg dry    | 69.6   | 130 | 60-140 | 13  | 20    |           |
| Methyl-t-Butyl Ether<br>(MTBE)                        | ND         | 53.6      | 5.4        | 0.53          | ug/kg dry    | 34.2   | 64  | 63-125 | 3   | 20    |           |
| Methylcyclohexane                                     | ND         | 53.6      | 5.4        | 0.82          | ug/kg dry    | 44.0   | 82  | 60-140 | 3   | 20    |           |
| Methylene Chloride                                    | 7.86       | 53.6      | 5.4        | 2.5           | ug/kg dry    | 52.8   | 84  | 61-127 | 0.8 | 15    |           |
| Styrene   | ND         | 53.6      | 5.4        | 0.27          | ug/kg dry    | 38.9   | 73  | 80-120 | 4   | 20    | M8        |
| Tetrachloroethene                                     | ND         | 53.6      | 5.4        | 0.72          | ug/kg dry    | 45.9   | 86  | 74-122 | 2   | 20    |           |
| Toluene   | ND         | 53.6      | 5.4        | 0.41          | ug/kg dry    | 47.7   | 89  | 74-128 | 2   | 20    |           |
| trans-1,2-Dichloroethene                              | ND         | 53.6      | 5.4        | 0.55          | ug/kg dry    | 46.5   | 87  | 78-126 | 2   | 20    |           |
| rans-1,3-Dichloropropen                               | ND         | 53.6      | 5.4        | 2.4           | ug/kg dry    | 35.3   | 66  | 73-123 | 0.5 | 20    | M8        |
| Trichloroethene                                       | ND         | 53.6      | 5.4        | 1.2           | ug/kg dry    | 43.9   | 82  | 77-129 | 2   | 24    |           |
| Trichlorofluoromethane                                | ND         | 53.6      | 5.4        | 0.51          | ug/kg dry    | 58.7   | 109 | 65-146 | 6   | 20    |           |
| Vinyl chloride  | ND         | 53.6      | 5.4        | 0.65          | ug/kg dry    | 49.1   | 91  | 61-133 | 4   | 20    |           |
| Xylenes, total  | ND         | 161       | 11         | 0.90          | ug/kg dry    | 137    | 85  | 80-120 | 3   | 20    |           |
| Surrogate:<br>1.2-Dichloroethane-d4                   |            |           |            |               | ug/kg dry    |        | 86  | 64-126 |     |       |           |
| Surrogate:<br>4-Bromofluorobenzene                    |            |           |            |               | ug/kg dry    |        | 109 | 72-126 |     |       |           |
| Surrogate: Toluene-d8                                 |            |           |            |               | ug/kg dry    |        | 114 | 71-125 |     |       |           |

<u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218 SDG Number: RTI0959

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066 Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                                |          |            | L        | ABORATORY       | QC DATA   |        |     |        |     |       |            |
|--------------------------------|----------|------------|----------|-----------------|-----------|--------|-----|--------|-----|-------|------------|
|                                | Source   | Spike      |          |                 |           |        | %   | % REC  | %   | RPD   | Data       |
| Analyte                        | Result   | Level      | RL       | MDL             | Units     | Result | REC | Limits | RPD | Limit | Qualifiers |
| Semivolatile Organics by       | GC/MS    |            |          |                 |           |        |     |        |     |       |            |
| Blank Analyzed: 09/22/10       | (Lab Num | nber:10 10 | 91-BLK1, | Batch: 10I1091) |           |        |     |        |     |       |            |
| 2,4,5-Trichlorophenol          |          |            | 170      | 36              | ug/kg wet | ND     |     |        |     |       |            |
| 2,4,6-Trichlorophenol          |          |            | 170      | 11              | ug/kg wet | ND     |     |        |     |       |            |
| 2,4-Dichlorophenol             |          |            | 170      | 8.7             | ug/kg wet | ND     |     |        |     |       |            |
| 2,4-Dimethylphenol             |          |            | 170      | 45              | ug/kg wet | ND     |     |        |     |       |            |
| 2,4-Dinitrophenol              |          |            | 320      | 58              | ug/kg wet | ND     |     |        |     |       |            |
| 2,4-Dinitrotoluene             |          |            | 170      | 26              | ug/kg wet | ND     |     |        |     |       |            |
| 2,6-Dinitrotoluene             |          |            | 170      | 41              | ug/kg wet | ND     |     |        |     |       |            |
| 2-Chloronaphthalene            |          |            | 170      | 11              | ug/kg wet | ND     |     |        |     |       |            |
| 2-Chlorophenol                 |          |            | 170      | 8.5             | ug/kg wet | ND     |     |        |     |       |            |
| 2-Methylnaphthalene            |          |            | 170      | 2.0             | ug/kg wet | ND     |     |        |     |       |            |
| 2-Methylphenol                 |          |            | 170      | 5.1             | ug/kg wet | ND     |     |        |     |       |            |
| 2-Nitroaniline                 |          |            | 320      | 53              | ug/kg wet | ND     |     |        |     |       |            |
| 2-Nitrophenol                  |          |            | 170      | 7.6             | ug/kg wet | ND     |     |        |     |       |            |
| 3,3'-Dichlorobenzidine         |          |            | 170      | 150             | ug/kg wet | ND     |     |        |     |       |            |
| 3-Nitroaniline                 |          |            | 320      | 38              | ug/kg wet | ND     |     |        |     |       |            |
| 4,6-Dinitro-2-methylphen<br>ol |          |            | 320      | 57              | ug/kg wet | ND     |     |        |     |       |            |
| 4-Bromophenyl phenyl ether     |          |            | 170      | 53              | ug/kg wet | ND     |     |        |     |       |            |
| 4-Chloro-3-methylphenol        |          |            | 170      | 6.8             | ug/kg wet | ND     |     |        |     |       |            |
| 4-Chloroaniline                |          |            | 170      | 49              | ug/kg wet | ND     |     |        |     |       |            |
| 4-Chlorophenyl phenyl ether    |          |            | 170      | 3.5             | ug/kg wet | ND     |     |        |     |       |            |
| 4-Methylphenol                 |          |            | 170      | 9.2             | ug/kg wet | ND     |     |        |     |       |            |
| 4-Nitroaniline                 |          |            | 320      | 19              | ug/kg wet | ND     |     |        |     |       |            |
| 4-Nitrophenol                  |          |            | 320      | 40              | ug/kg wet | ND     |     |        |     |       |            |
| Acenaphthene                   |          |            | 170      | 2.0             | ug/kg wet | ND     |     |        |     |       |            |
| Acenaphthylene                 |          |            | 170      | 1.4             | ug/kg wet | ND     |     |        |     |       |            |
| Acetophenone                   |          |            | 170      | 8.5             | ug/kg wet | ND     |     |        |     |       |            |
| Anthracene                     |          |            | 170      | 4.3             | ug/kg wet | ND     |     |        |     |       |            |
| Atrazine                       |          |            | 170      | 7.4             | ug/kg wet | ND     |     |        |     |       |            |
| Benzaldehyde                   |          |            | 170      | 18              | ug/kg wet | ND     |     |        |     |       |            |
| Benzo(a)anthracene             |          |            | 170      | 2.9             | ug/kg wet | ND     |     |        |     |       |            |
| Benzo(a)pyrene                 |          |            | 170      | 4.0             | ug/kg wet | ND     |     |        |     |       |            |
| Benzo(b)fluoranthene           |          |            | 170      | 3.2             | ug/kg wet | ND     |     |        |     |       |            |
| Benzo(ghi)perylene             |          |            | 170      | 2.0             | ug/kg wet | ND     |     |        |     |       |            |
| Benzo(k)fluoranthene           |          |            | 170      | 1.8             | ug/kg wet | ND     |     |        |     |       |            |
| Biphenyl                       |          |            | 170      | 10              | ug/kg wet | ND     |     |        |     |       |            |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

| LABORATORY QC DATA                                    |                |            |            |                |           |        |     |        |     |       |            |  |
|---|----------------|------------|------------|----------------|-----------|--------|-----|--------|-----|-------|------------|--|
|   | Source         | Spike      |            |                |           |        | %   | % REC  | %   | RPD   | Data       |  |
| Analyte   | Result         | Level      | RL         | MDL            | Units     | Result | REC | Limits | RPD | Limit | Qualifiers |  |
| Semivolatile Organics by                              | <u>/ GC/MS</u> |            |            |                |           |        |     |        |     |       |            |  |
| Blank Analyzed: 09/22/10                              | ) (Lab Nun     | nber:10 10 | 91-BLK1, B | atch: 10I1091) |           |        |     |        |     |       |            |  |
| Bis(2-chloroethoxy)metha                              | -              |            | 170        | 9.0            | ug/kg wet | ND     |     |        |     |       |            |  |
| Bis(2-chloroethyl)ether                               |                |            | 170        | 14             | ug/kg wet | ND     |     |        |     |       |            |  |
| 2,2'-Oxybis(1-Chloroprop ane)                         |                |            | 170        | 17             | ug/kg wet | ND     |     |        |     |       |            |  |
| Bis(2-ethylhexyl)<br>phthalate                        |                |            | 170        | 54             | ug/kg wet | ND     |     |        |     |       |            |  |
| Butyl benzyl phthalate                                |                |            | 170        | 45             | ug/kg wet | ND     |     |        |     |       |            |  |
| Caprolactam   |                |            | 170        | 72             | ug/kg wet | ND     |     |        |     |       |            |  |
| Carbazole   |                |            | 170        | 1.9            | ug/kg wet | ND     |     |        |     |       |            |  |
| Chrysene  |                |            | 170        | 1.7            | ug/kg wet | ND     |     |        |     |       |            |  |
| Dibenzo(a,h)anthracene                                |                |            | 170        | 2.0            | ug/kg wet | ND     |     |        |     |       |            |  |
| Dibenzofuran  |                |            | 170        | 1.7            | ug/kg wet | ND     |     |        |     |       |            |  |
| Diethyl phthalate                                     |                |            | 170        | 5.0            | ug/kg wet | ND     |     |        |     |       |            |  |
| Dimethyl phthalate                                    |                |            | 170        | 4.3            | ug/kg wet | ND     |     |        |     |       |            |  |
| Di-n-butyl phthalate                                  |                |            | 170        | 57             | ug/kg wet | ND     |     |        |     |       |            |  |
| Di-n-octyl phthalate                                  |                |            | 170        | 3.9            | ug/kg wet | ND     |     |        |     |       |            |  |
| Fluoranthene  |                |            | 170        | 2.4            | ug/kg wet | ND     |     |        |     |       |            |  |
| Fluorene  |                |            | 170        | 3.8            | ug/kg wet | ND     |     |        |     |       |            |  |
| Hexachlorobenzene                                     |                |            | 170        | 8.3            | ug/kg wet | ND     |     |        |     |       |            |  |
| Hexachlorobutadiene                                   |                |            | 170        | 8.5            | ug/kg wet | ND     |     |        |     |       |            |  |
| Hexachlorocyclopentadie<br>ne                         |                |            | 170        | 50             | ug/kg wet | ND     |     |        |     |       |            |  |
| Hexachloroethane                                      |                |            | 170        | 13             | ug/kg wet | ND     |     |        |     |       |            |  |
| Indeno(1,2,3-cd)pyrene                                |                |            | 170        | 4.6            | ug/kg wet | ND     |     |        |     |       |            |  |
| Isophorone  |                |            | 170        | 8.3            | ug/kg wet | ND     |     |        |     |       |            |  |
| Naphthalene   |                |            | 170        | 2.8            | ug/kg wet | ND     |     |        |     |       |            |  |
| Nitrobenzene  |                |            | 170        | 7.4            | ug/kg wet | ND     |     |        |     |       |            |  |
| N-Nitrosodi-n-propylamin<br>e                         |                |            | 170        | 13             | ug/kg wet | ND     |     |        |     |       |            |  |
| N-Nitrosodiphenylamine                                |                |            | 170        | 9.1            | ug/kg wet | ND     |     |        |     |       |            |  |
| Pentachlorophenol                                     |                |            | 320        | 57             | ug/kg wet | ND     |     |        |     |       |            |  |
| Phenanthrene  |                |            | 170        | 3.5            | ug/kg wet | ND     |     |        |     |       |            |  |
| Phenol  |                |            | 170        | 17             | ug/kg wet | ND     |     |        |     |       |            |  |
| Pyrene  |                |            | 170        | 1.1            | ug/kg wet | ND     |     |        |     |       |            |  |
| Surrogate:<br>2,4,6-Tribromophenol                    |                |            |            |                | ug/kg wet |        | 110 | 39-146 |     |       |            |  |
| 2,4,0- mbromophenol<br>Surrogate:<br>2-Fluorobiphenyl |                |            |            |                | ug/kg wet |        | 89  | 37-120 |     |       |            |  |
| Surrogate:<br>2-Fluorophenol                          |                |            |            |                | ug/kg wet |        | 78  | 18-120 |     |       |            |  |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

| Analyte         Result         Level         RL         MDL         Units         Result         REC         Limits         RPD Limit         Quality           Semivolatile Organics by GC/MS           Blank Analyzed: 09/22/10 (Lab Number:1011091-BLK1, Batch: 1011091)           Surrogate:         ug/kg wet         89         34-132         -  |                          |                |          |           | LABORAT                     |       | DATA      |        |     |        |     |       |            |
|---|--------------------------|----------------|----------|-----------|-----------------------------|-------|-----------|--------|-----|--------|-----|-------|------------|
| Semivolatile Organics by GC/MS         Bink Analyzed: 09/22/10 (Lab Number:1011091-BLK1, Batch: 1011091)           Surrogate:         ug/kg wet         89         34-132           Nitrobenzene-d5         ug/kg wet         82         11-120           Surrogate:         ug/kg wet         82         11-120           Surrogate:         ug/kg wet         82         11-120           Surrogate:         ug/kg wet         82         11-120           P-Terpheryl-d14         UCS Analyzed: 09/22/10 (Lab Number:1011091-BS1, Batch: 1011091)         2.4,5-Trichlorophenol         170         37         ug/kg wet         ND         59-126           2.4,5-Trichlorophenol         170         11         ug/kg wet         ND         59-123           2.4-Dichlorophenol         170         45         ug/kg wet         ND         36-120           2.4-Dinitrophenol         170         26         ug/kg wet         ND         55-125           2.6-Dinitrobluene         3310         170         8.5         ug/kg wet         ND         56-128           2-Chloronaphthalene         170         11         ug/kg wet         ND         56-128         2-Chlorophenol         3310         170         8.5         ug/kg wet         ND         48-120 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>%</th> <th>% REC</th> <th></th> <th></th> <th>Data</th> |                          |                |          |           |                             |       |           |        | %   | % REC  |     |       | Data       |
| Blank Analyzed: 09/22/10 (Lab Number:10/1091-BLK1, Batch: 10/1091)           Surrogate:<br>Nitrobenzene-d5<br>Surrogate: Phenol-d5<br>Surrogate: Phenol-d5         ug/kg wet         89         34-132           Surrogate: Phenol-d5<br>Surrogate: Phenol-d5         ug/kg wet         82         11-120           Surrogate: Phenol-d5         ug/kg wet         82         11-120           Surrogate: Phenol-d5         ug/kg wet         82         11-120           Surrogate: Phenol-d5         ug/kg wet         ND         59-126           2.4,5-Trichlorophenol         170         37         ug/kg wet         ND         59-123           2.4,6-Trichlorophenol         170         45         ug/kg wet         ND         52-120           2.4-Dichlorophenol         170         26         ug/kg wet         ND         35-146           2.4-Dinitrophenol         330         59         ug/kg wet         ND         66-128           2.4-Dinitroblene         170         26         ug/kg wet         ND         67-120           2.4-Dinitroblene         330         170         8.5         ug/kg wet         ND         66-128           2.6-Dinitroblene         170         11         ug/kg wet         ND         66-128           2.Chlorop  |                          |                | Leve     | I RL      | MDL                         | -     | Units     | Result | REC | Limits | RPD | Limit | Qualifiers |
| Surrogate:         ug/kg wet         89         34-132           Nitrobenzene-d5<br>Surrogate:         ug/kg wet         82         11-120           Surrogate:         ug/kg wet         82         11-120           p-Terphenyl-d14         ug/kg wet         82         11-120           LCS Analyzed:         09/22/10 (Lab Number:1011091-IBS1, Batch: 101091)         170         37         ug/kg wet         ND         59-126           2,4,5-Trichlorophenol         170         37         ug/kg wet         ND         59-126           2,4,6-Trichlorophenol         170         11         ug/kg wet         ND         59-126           2,4-Dinitorophenol         170         8.8         ug/kg wet         ND         52-120           2,4-Dinitorophenol         170         45         ug/kg wet         ND         36-120           2,4-Dinitorobluene         3310         170         26         ug/kg wet         ND         57-120           2,6-Dinitorobluene         170         11         ug/kg wet         ND         57-120           2,6-Dinitorobluene         170         2.0         ug/kg wet         ND         48-120           2,6-Dinitorobluene         170         2.0         ug/kg wet         <  | Semivolatile Organics by | <u>/ GC/MS</u> |          |           |                             |       |           |        |     |        |     |       |            |
| Surrogate:         ug/kg wet         89         34-132           Nitrobenzene-d5<br>Surrogate: Phenol-d5<br>Surrogate: Phenol-d5         ug/kg wet         82         11-120           Surrogate: Phenol-d5         ug/kg wet         82         11-120           Surrogate: Phenol-d5         ug/kg wet         82         11-120           Surrogate: Phenol-d14         ug/kg wet         ND         59-126           2.4,5-Trichlorophenol         170         37         ug/kg wet         ND         59-126           2.4,6-Trichlorophenol         170         11         ug/kg wet         ND         59-123           2.4-Dichlorophenol         170         8.8         ug/kg wet         ND         52-120           2.4-Dinitrobluene         330         59         ug/kg wet         ND         36-120           2.4-Dinitrobluene         3310         170         26         ug/kg wet         ND         57-120           2.6-Dinitrobluene         170         41         ug/kg wet         ND         57-120           2.6-Dinitrobluene         170         8.5         ug/kg wet         ND         57-120           2.6-Dinitrobluene         170         2.0         ug/kg wet         ND         48-120   | Blank Analvzed: 09/22/10 | ) (Lab Num     | nber:10  | 11091-BLK | (1. Batch: 101 <sup>,</sup> | 1091) |           |        |     |        |     |       |            |
| Surrogate:<br>p-Terphenyl-d14         ug/kg wet<br>ug/kg wet         82<br>77         11-10<br>58-147           LCS Analyzed: 09/22/10 (Lab Number:1011091-BS1, Batch: 1011091)         ug/kg wet         ND         59-126           2,4,5-Trichlorophenol         170         37         ug/kg wet         ND         59-126           2,4,6-Trichlorophenol         170         11         ug/kg wet         ND         59-126           2,4-Dichlorophenol         170         8.8         ug/kg wet         ND         52-120           2,4-Dichlorophenol         170         45         ug/kg wet         ND         36-120           2,4-Dinitrophenol         330         59         ug/kg wet         ND         35-146           2,4-Dinitrophenol         3310         170         26         ug/kg wet         ND         55-125           2,6-Dinitrotoluene         3310         170         26         ug/kg wet         ND         57-120           2-Chloronphthalene         170         11         ug/kg wet         ND         57-120           2-Chloronphthalene         170         2.0         ug/kg wet         ND         48-120           2-Methylnaphthalene         170         5.2         ug/kg wet         ND         61-130 <td>-</td> <td>(</td> <td></td> <td></td> <td></td> <td>-</td> <td>ug/kg wet</td> <td></td> <td>89</td> <td>34-132</td> <td></td> <td></td> <td></td>       | -                        | (              |          |           |                             | -     | ug/kg wet |        | 89  | 34-132 |     |       |            |
| Surrogate:<br>p-Terphenyl-d14         yg/kg wet         77         58-147           LCS Analyzed: 09/22/10 (Lab Number::1011091-BS1, Batch: 101091)         Ug/kg wet         ND         59-126           2,4,5-Trichlorophenol         170         37         ug/kg wet         ND         59-126           2,4,6-Trichlorophenol         170         11         ug/kg wet         ND         59-123           2,4-Dichlorophenol         170         8.8         ug/kg wet         ND         52-120           2,4-Dinitrophenol         330         59         ug/kg wet         ND         36-120           2,4-Dinitrophenol         330         59         ug/kg wet         ND         35-146           2,4-Dinitrotoluene         3310         170         26         ug/kg wet         ND         66-128           2,6-Dinitrotoluene         170         41         ug/kg wet         ND         57-120           2,Chloronaphthalene         170         8.5         ug/kg wet         ND         57-120           2,-Methylphenol         3310         170         8.5         ug/kg wet         ND         48-120           2,-Methylphenol         170         5.2         ug/kg wet         ND         48-120           2  |                          |                |          |           |                             |       |           |        | 00  | 11 100 |     |       |            |
| p-Terghenyl-d14         LCS Analyzed: 09/22/10 (Lab Number:1011091-BS1, Batch: 1011091)         2,4,5-Trichlorophenol       170       37       ug/kg wet       ND       59-126         2,4,6-Trichlorophenol       170       11       ug/kg wet       ND       59-123         2,4-Dichlorophenol       170       8.8       ug/kg wet       ND       52-120         2,4-Dichlorophenol       170       45       ug/kg wet       ND       36-120         2,4-Dinitrophenol       330       59       ug/kg wet       ND       35-146         2,4-Dinitrophenol       3310       170       26       ug/kg wet       ND       56-125         2,6-Dinitrotoluene       3310       170       26       ug/kg wet       ND       66-128         2-Chloronaphthalene       170       11       ug/kg wet       ND       57-120         2-Chlorophenol       3310       170       8.5       ug/kg wet       ND       45-120         2-Methylphenol       170       5.2       ug/kg wet       ND       48-120         2-Methylphenol       170       5.2       ug/kg wet       ND       48-120         2-Methylphenol       170       7.7       ug/kg wet       ND   | •                        |                |          |           |                             |       |           |        |     |        |     |       |            |
| 2,4,5-Trichlorophenol       170       37       ug/kg wet       ND       59-126         2,4,6-Trichlorophenol       170       11       ug/kg wet       ND       59-123         2,4-Dichlorophenol       170       8.8       ug/kg wet       ND       52-120         2,4-Dindthylphenol       170       45       ug/kg wet       ND       36-120         2,4-Dinitrophenol       330       59       ug/kg wet       ND       35-146         2,4-Dinitrotoluene       3310       170       26       ug/kg wet       ND       66-128         2,4-Dinitrotoluene       170       41       ug/kg wet       ND       57-120         2,6-Dinitrotoluene       170       11       ug/kg wet       ND       57-120         2,Chloronaphthalene       170       8.5       ug/kg wet       ND       47-120         2,Methylnaphthalene       170       2.0       ug/kg wet       ND       48-120         2,Mitroaniline       330       54       ug/kg wet       ND       61-130         2,Nitroaniline       170       7.7       ug/kg wet       ND       48-120         3,3'-Dichlorobenzidine       170       7.7       ug/kg wet       ND       50-120  | •                        |                |          |           |                             |       | aging wet |        |     | 00 111 |     |       |            |
| 2,4,5-Trichlorophenol       170       37       ug/kg wet       ND       59-126         2,4,6-Trichlorophenol       170       11       ug/kg wet       ND       59-123         2,4-Dichlorophenol       170       8.8       ug/kg wet       ND       52-120         2,4-Dindthylphenol       170       45       ug/kg wet       ND       36-120         2,4-Dinitrophenol       330       59       ug/kg wet       ND       35-146         2,4-Dinitrotoluene       3310       170       26       ug/kg wet       ND       66-128         2,4-Dinitrotoluene       170       41       ug/kg wet       ND       57-120         2,6-Dinitrotoluene       170       11       ug/kg wet       ND       57-120         2,Chloronaphthalene       170       8.5       ug/kg wet       ND       47-120         2,Methylnaphthalene       170       2.0       ug/kg wet       ND       48-120         2,Mitroaniline       330       54       ug/kg wet       ND       61-130         2,Nitroaniline       170       7.7       ug/kg wet       ND       48-120         3,3'-Dichlorobenzidine       170       7.7       ug/kg wet       ND       50-120  | LCS Analyzed: 09/22/10   | (Lab Numb      | oer:10l1 | 091-BS1.  | Batch: 10 109               | 91)   |           |        |     |        |     |       |            |
| 2,4,6-Trichlorophenol       170       11       ug/kg wet       ND       59-123         2,4-Dichlorophenol       170       8.8       ug/kg wet       ND       52-120         2,4-Dimethylphenol       170       45       ug/kg wet       ND       36-120         2,4-Dinitrophenol       330       59       ug/kg wet       ND       35-146         2,4-Dinitrophenol       330       170       26       ug/kg wet       ND       66-128         2,4-Dinitrotoluene       170       41       ug/kg wet       ND       66-128         2,6-Dinitrotoluene       170       11       ug/kg wet       ND       57-120         2,Chloronaphthalene       170       11       ug/kg wet       ND       57-120         2-Chlorophenol       3310       170       8.5       ug/kg wet       ND       47.120         2-Methylphenol       170       5.2       ug/kg wet       ND       48-120         2-Nitroaniline       330       54       ug/kg wet       ND       50-120         3,3'-Dichlorobenzidine       170       7.7       ug/kg wet       ND       48-126         3.Nitroaniline       330       39       ug/kg wet       ND       48-126 </td <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>ug/kg wet</td> <td>ND</td> <td></td> <td>59-126</td> <td></td> <td></td> <td></td>  | -                        |                |          |           |                             | -     | ug/kg wet | ND     |     | 59-126 |     |       |            |
| 2,4-Dimethylphenol17045ug/kg wetND36-1202,4-Dinitrophenol33059ug/kg wetND35-1462,4-Dinitrotoluene331017026ug/kg wet32909955-1252,6-Dinitrotoluene17041ug/kg wetND66-1282-Chloronaphthalene17011ug/kg wetND57-1202-Chlorophenol33101708.5ug/kg wet26207938-1202-Methylphenol1702.0ug/kg wetND47-1202-Methylphenol1705.2ug/kg wetND48-1202-Nitroaniline33054ug/kg wetND61-1303.3'-Dichlorobenzidine1707.7ug/kg wetND48-1263-Nitroaniline33039ug/kg wetND48-1263-Nitroaniline33058ug/kg wetND49-155  |                          |                |          | 170       | 11                          |       |           | ND     |     | 59-123 |     |       |            |
| 2,4-Dimethylphenol17045ug/kg wetND36-1202,4-Dinitrophenol33059ug/kg wetND35-1462,4-Dinitrotoluene331017026ug/kg wet32909955-1252,6-Dinitrotoluene17041ug/kg wetND66-1282-Chloronaphthalene17011ug/kg wetND57-1202-Chlorophenol33101708.5ug/kg wet26207938-1202-Methylphenol1702.0ug/kg wetND47-1202-Methylphenol1705.2ug/kg wetND48-1202-Nitroaniline33054ug/kg wetND61-1303.3'-Dichlorobenzidine170150ug/kg wetND48-1263-Nitroaniline33039ug/kg wetND48-1263-Nitroaniline33058ug/kg wetND49-155  | 2,4-Dichlorophenol       |                |          | 170       | 8.8                         | I     | ug/kg wet | ND     |     | 52-120 |     |       |            |
| 2,4-Dinitrophenol33059ug/kg wetND35-1462,4-Dinitrotoluene331017026ug/kg wet32909955-1252,6-Dinitrotoluene17041ug/kg wetND66-1282-Chloronaphthalene17011ug/kg wetND57-1202-Chlorophenol33101708.5ug/kg wet26207938-1202-Methylnaphthalene1702.0ug/kg wetND47-1202-Methylphenol1705.2ug/kg wetND48-1202-Nitroaniline33054ug/kg wetND61-1303,3'-Dichlorobenzidine1707.7ug/kg wetND48-1263-Nitroaniline33039ug/kg wetND48-1264,6-Dinitro-2-methylphen33058ug/kg wetND49-155   | 2,4-Dimethylphenol       |                |          | 170       | 45                          | ,     | ug/kg wet | ND     |     | 36-120 |     |       |            |
| 2,6-Dinitrotoluene17041ug/kg wetND66-1282-Chloronaphthalene17011ug/kg wetND57-1202-Chlorophenol33101708.5ug/kg wet26207938-1202-Methylnaphthalene1702.0ug/kg wetND47-1202-Methylphenol1705.2ug/kg wetND48-1202-Nitroaniline33054ug/kg wetND61-1302-Nitrophenol1707.7ug/kg wetND50-1203,3'-Dichlorobenzidine170150ug/kg wetND48-1263-Nitroaniline33039ug/kg wetND48-1264,6-Dinitro-2-methylphen33058ug/kg wetND49-155  |                          |                |          | 330       | 59                          | ı     | ug/kg wet | ND     |     | 35-146 |     |       |            |
| 2-Chloronaphthalene       170       11       ug/kg wet       ND       57-120         2-Chlorophenol       3310       170       8.5       ug/kg wet       2620       79       38-120         2-Methylnaphthalene       170       2.0       ug/kg wet       ND       47-120         2-Methylphenol       170       5.2       ug/kg wet       ND       48-120         2-Nitroaniline       330       54       ug/kg wet       ND       61-130         2-Nitrophenol       170       7.7       ug/kg wet       ND       50-120         3,3'-Dichlorobenzidine       170       150       ug/kg wet       ND       48-126         3-Nitroaniline       330       39       ug/kg wet       ND       48-126         4,6-Dinitro-2-methylphen       330       58       ug/kg wet       ND       49-155   | 2,4-Dinitrotoluene       |                | 3310     | 170       | 26                          | ı     | ug/kg wet | 3290   | 99  | 55-125 |     |       |            |
| 2-Chlorophenol33101708.5ug/kg wet26207938-1202-Methylnaphthalene1702.0ug/kg wetND47-1202-Methylphenol1705.2ug/kg wetND48-1202-Nitroaniline33054ug/kg wetND61-1302-Nitrophenol1707.7ug/kg wetND50-1203,3'-Dichlorobenzidine170150ug/kg wetND48-1263-Nitroaniline33039ug/kg wetND61-1274,6-Dinitro-2-methylphen33058ug/kg wetND49-155   | 2,6-Dinitrotoluene       |                |          | 170       | 41                          | ı     | ug/kg wet | ND     |     | 66-128 |     |       |            |
| 2-Methylnaphthalene         170         2.0         ug/kg wet         ND         47-120           2-Methylphenol         170         5.2         ug/kg wet         ND         48-120           2-Nitroaniline         330         54         ug/kg wet         ND         61-130           2-Nitrophenol         170         7.7         ug/kg wet         ND         50-120           3,3'-Dichlorobenzidine         170         150         ug/kg wet         ND         48-126           3-Nitroaniline         330         39         ug/kg wet         ND         61-137           4,6-Dinitro-2-methylphen         330         58         ug/kg wet         ND         49-155   | 2-Chloronaphthalene      |                |          | 170       | 11                          | I     | ug/kg wet | ND     |     | 57-120 |     |       |            |
| 2-Methylphenol       170       5.2       ug/kg wet       ND       48-120         2-Nitroaniline       330       54       ug/kg wet       ND       61-130         2-Nitrophenol       170       7.7       ug/kg wet       ND       50-120         3,3'-Dichlorobenzidine       170       150       ug/kg wet       ND       48-126         3-Nitroaniline       330       39       ug/kg wet       ND       61-127         4,6-Dinitro-2-methylphen       330       58       ug/kg wet       ND       49-155   | 2-Chlorophenol           |                | 3310     | 170       | 8.5                         | ı     | ug/kg wet | 2620   | 79  | 38-120 |     |       |            |
| 2-Nitroaniline       330       54       ug/kg wet       ND       61-130         2-Nitrophenol       170       7.7       ug/kg wet       ND       50-120         3,3'-Dichlorobenzidine       170       150       ug/kg wet       ND       48-126         3-Nitroaniline       330       39       ug/kg wet       ND       61-127         4,6-Dinitro-2-methylphen       330       58       ug/kg wet       ND       49-155  | 2-Methylnaphthalene      |                |          | 170       | 2.0                         | ı     | ug/kg wet | ND     |     | 47-120 |     |       |            |
| 2-Nitrophenol         170         7.7         ug/kg wet         ND         50-120           3,3'-Dichlorobenzidine         170         150         ug/kg wet         ND         48-126           3-Nitroaniline         330         39         ug/kg wet         ND         61-127           4,6-Dinitro-2-methylphen         330         58         ug/kg wet         ND         49-155  | 2-Methylphenol           |                |          | 170       | 5.2                         | I     | ug/kg wet | ND     |     | 48-120 |     |       |            |
| 3,3'-Dichlorobenzidine       170       150       ug/kg wet       ND       48-126         3-Nitroaniline       330       39       ug/kg wet       ND       61-127         4,6-Dinitro-2-methylphen       330       58       ug/kg wet       ND       49-155  | 2-Nitroaniline           |                |          | 330       | 54                          | ı     | ug/kg wet | ND     |     | 61-130 |     |       |            |
| 3-Nitroaniline         330         39         ug/kg wet         ND         61-127           4,6-Dinitro-2-methylphen         330         58         ug/kg wet         ND         49-155   | 2-Nitrophenol            |                |          | 170       | 7.7                         | ı     | ug/kg wet | ND     |     | 50-120 |     |       |            |
| 4,6-Dinitro-2-methylphen 330 58 ug/kg wet ND 49-155   | 3,3'-Dichlorobenzidine   |                |          | 170       | 150                         |       | ug/kg wet | ND     |     | 48-126 |     |       |            |
| ·,····································  | 3-Nitroaniline           |                |          | 330       | 39                          | ı     | ug/kg wet | ND     |     | 61-127 |     |       |            |
| ol  | • •                      |                |          | 330       | 58                          | I     | ug/kg wet | ND     |     | 49-155 |     |       |            |
| 4-Bromophenyl phenyl 170 53 ug/kg wet ND 58-131   |                          |                |          | 170       | 53                          | ı     | ug/kg wet | ND     |     | 58-131 |     |       |            |
| ether<br>4-Chloro-3-methylphenol 3310 170 6.9 ug/kg wet 2980 90 49-125  |                          |                | 3310     | 170       | 6.9                         |       | ıa/ka wet | 2980   | 90  | 49-125 |     |       |            |
| 4-Chloroaniline 170 49 ug/kg wet ND 49-120  |                          |                | 5510     |           |                             |       |           |        | 00  |        |     |       |            |
| 4-Chlorophenyl phenyl 170 3.6 ug/kg wet ND 63-124   |                          |                |          |           |                             |       |           |        |     |        |     |       |            |
| ether   | 1 21 2                   |                |          |           |                             |       | 5 5       |        |     |        |     |       |            |
| 4-Methylphenol 170 9.3 ug/kg wet ND 50-119  | 4-Methylphenol           |                |          | 170       | 9.3                         |       |           |        |     | 50-119 |     |       |            |
| 4-Nitroaniline 330 19 ug/kg wet ND 63-128   | 4-Nitroaniline           |                |          | 330       | 19                          |       |           | ND     |     | 63-128 |     |       |            |
| 4-Nitrophenol 3310 330 41 ug/kg wet 2710 82 43-137  | 4-Nitrophenol            |                | 3310     | 330       | 41                          |       |           | 2710   | 82  | 43-137 |     |       |            |
| Acenaphthene         3310         170         2.0         ug/kg wet         2920         88         53-120  | Acenaphthene             |                | 3310     | 170       | 2.0                         | I     | ug/kg wet | 2920   | 88  | 53-120 |     |       |            |
| Acenaphthylene 170 1.4 ug/kg wet ND 58-121  | Acenaphthylene           |                |          |           |                             |       |           |        |     |        |     |       |            |
| Acetophenone         170         8.6         ug/kg wet         ND         66-120  | Acetophenone             |                |          |           |                             |       | ug/kg wet |        |     |        |     |       |            |
| Anthracene         170         4.3         ug/kg wet         ND         62-129  |                          |                |          |           |                             |       |           |        |     |        |     |       |            |
| Atrazine         170         7.5         ug/kg wet         ND         73-133  |                          |                |          |           |                             |       |           |        |     |        |     |       |            |
| Benzaldehyde 170 18 ug/kg wet ND 21-120   | -                        |                |          |           |                             |       |           |        |     |        |     |       |            |
| Benzo(a)anthracene   170   2.9   ug/kg wet   ND   65-133  |                          |                |          |           |                             |       |           |        |     |        |     |       |            |
| Benzo(a)pyrene         170         4.0         ug/kg wet         ND         64-127           TestAmerica Buffalo - 10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991         64-127  |                          |                |          |           |                             |       |           |        |     | 64-127 |     |       |            |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                                  |           |                        | L           | BORATORY     | QC DATA   |        |     |                             |
|----------------------------------|-----------|------------------------|-------------|--------------|-----------|--------|-----|-----------------------------|
|                                  | Source    | Spike                  |             |              |           |        | %   | % REC % RPD Data            |
| Analyte                          | Result    | Level                  | RL          | MDL          | Units     | Result | REC | Limits RPD Limit Qualifiers |
| Semivolatile Organics by         | GC/MS     |                        |             |              |           |        |     |                             |
| LCS Analyzed: 09/22/10           | (Lab Numb | er:10 109 <sup>,</sup> | 1-BS1, Bate | ch: 10 1091) |           |        |     |                             |
| Benzo(b)fluoranthene             |           |                        | 170         | 3.3          | ug/kg wet | ND     |     | 64-135                      |
| Benzo(ghi)perylene               |           |                        | 170         | 2.0          | ug/kg wet | ND     |     | 50-152                      |
| Benzo(k)fluoranthene             |           |                        | 170         | 1.8          | ug/kg wet | ND     |     | 58-138                      |
| Biphenyl                         |           |                        | 170         | 10           | ug/kg wet | ND     |     | 71-120                      |
| Bis(2-chloroethoxy)metha<br>ne   |           |                        | 170         | 9.1          | ug/kg wet | ND     |     | 61-133                      |
| Bis(2-chloroethyl)ether          |           |                        | 170         | 14           | ug/kg wet | ND     |     | 45-120                      |
| 2,2'-Oxybis(1-Chloroprop<br>ane) |           |                        | 170         | 18           | ug/kg wet | ND     |     | 44-120                      |
| Bis(2-ethylhexyl)<br>phthalate   |           | 3310                   | 170         | 54           | ug/kg wet | 3650   | 110 | 61-133                      |
| Butyl benzyl phthalate           |           |                        | 170         | 45           | ug/kg wet | ND     |     | 61-129                      |
| Caprolactam                      |           |                        | 170         | 73           | ug/kg wet | ND     |     | 54-133                      |
| Carbazole                        |           |                        | 170         | 1.9          | ug/kg wet | ND     |     | 59-129                      |
| Chrysene                         |           |                        | 170         | 1.7          | ug/kg wet | ND     |     | 64-131                      |
| Dibenzo(a,h)anthracene           |           |                        | 170         | 2.0          | ug/kg wet | ND     |     | 54-148                      |
| Dibenzofuran                     |           |                        | 170         | 1.7          | ug/kg wet | ND     |     | 56-120                      |
| Diethyl phthalate                |           |                        | 170         | 5.1          | ug/kg wet | ND     |     | 66-126                      |
| Dimethyl phthalate               |           |                        | 170         | 4.4          | ug/kg wet | ND     |     | 65-124                      |
| Di-n-butyl phthalate             |           |                        | 170         | 58           | ug/kg wet | ND     |     | 58-130                      |
| Di-n-octyl phthalate             |           |                        | 170         | 3.9          | ug/kg wet | ND     |     | 62-133                      |
| Fluoranthene                     |           |                        | 170         | 2.4          | ug/kg wet | ND     |     | 62-131                      |
| Fluorene                         |           | 3310                   | 170         | 3.9          | ug/kg wet | 3170   | 96  | 63-126                      |
| Hexachlorobenzene                |           |                        | 170         | 8.3          | ug/kg wet | ND     |     | 60-132                      |
| Hexachlorobutadiene              |           |                        | 170         | 8.6          | ug/kg wet | ND     |     | 45-120                      |
| Hexachlorocyclopentadie<br>ne    |           |                        | 170         | 51           | ug/kg wet | ND     |     | 31-120                      |
| Hexachloroethane                 |           | 3310                   | 170         | 13           | ug/kg wet | 2320   | 70  | 41-120                      |
| Indeno(1,2,3-cd)pyrene           |           |                        | 170         | 4.6          | ug/kg wet | ND     |     | 56-149                      |
| Isophorone                       |           |                        | 170         | 8.4          | ug/kg wet | ND     |     | 56-120                      |
| Naphthalene                      |           |                        | 170         | 2.8          | ug/kg wet | ND     |     | 46-120                      |
| Nitrobenzene                     |           |                        | 170         | 7.4          | ug/kg wet | ND     |     | 49-120                      |
| N-Nitrosodi-n-propylamin<br>e    |           | 3310                   | 170         | 13           | ug/kg wet | 2960   | 89  | 46-120                      |
| N-Nitrosodiphenylamine           |           |                        | 170         | 9.2          | ug/kg wet | ND     |     | 20-119                      |
| Pentachlorophenol                |           | 3310                   | 330         | 57           | ug/kg wet | 3360   | 102 | 33-136                      |
| Phenanthrene                     |           |                        | 170         | 3.5          | ug/kg wet | ND     |     | 60-130                      |
| Phenol                           |           | 3310                   | 170         | 18           | ug/kg wet | 2390   | 72  | 36-120                      |
| Pyrene                           |           | 3310                   | 170         | 1.1          | ug/kg wet | 3220   | 97  | 51-133                      |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Project: Benchmark - 295 Maryland St. site

Project Number: TURN-0066

|  |                |                         | LA          | BORATORY         | QC DATA   |        |     |        |           |            |
|--|----------------|-------------------------|-------------|------------------|-----------|--------|-----|--------|-----------|------------|
|  | Source         | Spike                   |             |                  |           |        | %   | % REC  | % RPD     | Data       |
| Analyte  | Result         | Level                   | RL          | MDL              | Units     | Result | REC | Limits | RPD Limit | Qualifiers |
| Semivolatile Organics b                                | <u>y GC/MS</u> |                         |             |                  |           |        |     |        |           |            |
| LCS Analyzed: 09/22/10                                 | (Lab Numb      | per:10 109 <sup>,</sup> | 1-BS1. Batc | :h: 10 1091)     |           |        |     |        |           |            |
| Surrogate:   | (              |                         | ,           | ,                | ug/kg wet |        | 107 | 39-146 |           |            |
| 2,4,6-Tribromophenol<br>Surrogate:                     |                |                         |             |                  | ug/kg wet |        | 86  | 37-120 |           |            |
| 2-Fluorobiphenyl<br>Surrogate:                         |                |                         |             |                  | ug/kg wet |        | 71  | 18-120 |           |            |
| 2-Fluorophenol<br>Surrogate:                           |                |                         |             |                  | ug/kg wet |        | 84  | 34-132 |           |            |
| Nitrobenzene-d5<br>Surrogate: Phenol-d5                |                |                         |             |                  | ug/kg wet |        | 76  | 11-120 |           |            |
| Surrogate:   |                |                         |             |                  | ug/kg wet |        | 85  | 58-147 |           |            |
| p-Terphenyl-d14  |                |                         |             |                  |           |        |     |        |           |            |
| Matrix Spike Analyzed: (<br>QC Source Sample: RTI1016- | •              | ab Numbe                | r:10 1091-M | IS1, Batch: 10I1 | 091)      |        |     |        |           |            |
| 2,4,5-Trichlorophenol                                  | ND             |                         | 180         | 40               | ug/kg dry | ND     |     | 59-126 |           |            |
| 2,4,6-Trichlorophenol                                  | ND             |                         | 180         | 12               | ug/kg dry | ND     |     | 59-123 |           |            |
| 2,4-Dichlorophenol                                     | ND             |                         | 180         | 9.5              | ug/kg dry | ND     |     | 52-120 |           |            |
| 2,4-Dimethylphenol                                     | ND             |                         | 180         | 49               | ug/kg dry | ND     |     | 36-120 |           |            |
| 2,4-Dinitrophenol                                      | ND             |                         | 360         | 64               | ug/kg dry | ND     |     | 35-146 |           |            |
| 2,4-Dinitrotoluene                                     | ND             | 3590                    | 180         | 28               | ug/kg dry | 3780   | 105 | 55-125 |           |            |
| 2,6-Dinitrotoluene                                     | ND             |                         | 180         | 44               | ug/kg dry | ND     |     | 66-128 |           |            |
| 2-Chloronaphthalene                                    | ND             |                         | 180         | 12               | ug/kg dry | ND     |     | 57-120 |           |            |
| 2-Chlorophenol   | ND             | 3590                    | 180         | 9.2              | ug/kg dry | 3110   | 87  | 38-120 |           |            |
| 2-Methylnaphthalene                                    | ND             |                         | 180         | 2.2              | ug/kg dry | ND     |     | 47-120 |           |            |
| 2-Methylphenol   | ND             |                         | 180         | 5.6              | ug/kg dry | ND     |     | 48-120 |           |            |
| 2-Nitroaniline   | ND             |                         | 360         | 58               | ug/kg dry | ND     |     | 61-130 |           |            |
| 2-Nitrophenol  | ND             |                         | 180         | 8.3              | ug/kg dry | ND     |     | 50-120 |           |            |
| 3,3'-Dichlorobenzidine                                 | ND             |                         | 180         | 160              | ug/kg dry | ND     |     | 48-126 |           |            |
| 3-Nitroaniline   | ND             |                         | 360         | 42               | ug/kg dry | ND     |     | 61-127 |           |            |
| 4,6-Dinitro-2-methylphen ol                            | ND             |                         | 360         | 63               | ug/kg dry | ND     |     | 49-155 |           |            |
| 4-Bromophenyl phenyl ether                             | ND             |                         | 180         | 58               | ug/kg dry | ND     |     | 58-131 |           |            |
| 4-Chloro-3-methylphenol                                | ND             | 3590                    | 180         | 7.5              | ug/kg dry | 3490   | 97  | 49-125 |           |            |
| 4-Chloroaniline  | ND             |                         | 180         | 53               | ug/kg dry | ND     |     | 49-120 |           |            |
| 4-Chlorophenyl phenyl ether                            | ND             |                         | 180         | 3.9              | ug/kg dry | ND     |     | 63-124 |           |            |
| 4-Methylphenol   | ND             |                         | 180         | 10               | ug/kg dry | ND     |     | 50-119 |           |            |
| 4-Nitroaniline   | ND             |                         | 360         | 20               | ug/kg dry | ND     |     | 63-128 |           |            |
| 4-Nitrophenol  | ND             | 3590                    | 360         | 44               | ug/kg dry | 3210   | 89  | 43-137 |           |            |
| Acenaphthene   | ND             | 3590                    | 180         | 2.1              | ug/kg dry | 3300   | 92  | 53-120 |           |            |
| Acenaphthylene   | ND             |                         | 180         | 1.5              | ug/kg dry | ND     |     | 58-121 |           |            |

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#### Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |                |          | LA          | BORATOR        | Y QC DATA |        |     |        |     |       |            |
|---|----------------|----------|-------------|----------------|-----------|--------|-----|--------|-----|-------|------------|
|   | Source         | Spike    |             |                |           |        | %   | % REC  | %   | RPD   | Data       |
| Analyte   | Result         | Level    | RL          | MDL            | Units     | Result | REC | Limits | RPD | Limit | Qualifiers |
| Semivolatile Organics by                                | <u>/ GC/MS</u> |          |             |                |           |        |     |        |     |       |            |
| Matrix Spike Analyzed: 0<br>QC Source Sample: RTI1016-0 | -              | ab Numbe | r:10l1091-M | IS1, Batch: 10 | 1091)     |        |     |        |     |       |            |
| Acetophenone  | ND             |          | 180         | 9.3            | ug/kg dry | ND     |     | 66-120 |     |       |            |
| Anthracene  | ND             |          | 180         | 4.7            | ug/kg dry | ND     |     | 62-129 |     |       |            |
| Atrazine  | ND             |          | 180         | 8.1            | ug/kg dry | ND     |     | 73-133 |     |       |            |
| Benzaldehyde  | ND             |          | 180         | 20             | ug/kg dry | ND     |     | 21-120 |     |       |            |
| Benzo(a)anthracene                                      | ND             |          | 180         | 3.1            | ug/kg dry | ND     |     | 65-133 |     |       |            |
| Benzo(a)pyrene  | ND             |          | 180         | 4.4            | ug/kg dry | ND     |     | 64-127 |     |       |            |
| Benzo(b)fluoranthene                                    | ND             |          | 180         | 3.5            | ug/kg dry | ND     |     | 64-135 |     |       |            |
| Benzo(ghi)perylene                                      | ND             |          | 180         | 2.2            | ug/kg dry | ND     |     | 50-152 |     |       |            |
| Benzo(k)fluoranthene                                    | ND             |          | 180         | 2.0            | ug/kg dry | ND     |     | 58-138 |     |       |            |
| Biphenyl  | ND             |          | 180         | 11             | ug/kg dry | ND     |     | 71-120 |     |       |            |
| Bis(2-chloroethoxy)metha<br>ne                          | ND             |          | 180         | 9.9            | ug/kg dry | ND     |     | 61-133 |     |       |            |
| Bis(2-chloroethyl)ether                                 | ND             |          | 180         | 16             | ug/kg dry | ND     |     | 45-120 |     |       |            |
| 2,2'-Oxybis(1-Chloroprop<br>ane)                        | ND             |          | 180         | 19             | ug/kg dry | ND     |     | 44-120 |     |       |            |
| Bis(2-ethylhexyl)<br>phthalate                          | ND             | 3590     | 180         | 59             | ug/kg dry | 4250   | 118 | 61-133 |     |       |            |
| Butyl benzyl phthalate                                  | ND             |          | 180         | 49             | ug/kg dry | ND     |     | 61-129 |     |       |            |
| Caprolactam   | ND             |          | 180         | 79             | ug/kg dry | ND     |     | 54-133 |     |       |            |
| Carbazole   | ND             |          | 180         | 2.1            | ug/kg dry | ND     |     | 59-129 |     |       |            |
| Chrysene  | ND             |          | 180         | 1.8            | ug/kg dry | ND     |     | 64-131 |     |       |            |
| Dibenzo(a,h)anthracene                                  | ND             |          | 180         | 2.1            | ug/kg dry | ND     |     | 54-148 |     |       |            |
| Dibenzofuran  | ND             |          | 180         | 1.9            | ug/kg dry | ND     |     | 56-120 |     |       |            |
| Diethyl phthalate                                       | ND             |          | 180         | 5.5            | ug/kg dry | ND     |     | 66-126 |     |       |            |
| Dimethyl phthalate                                      | ND             |          | 180         | 4.7            | ug/kg dry | ND     |     | 65-124 |     |       |            |
| Di-n-butyl phthalate                                    | ND             |          | 180         | 63             | ug/kg dry | ND     |     | 58-130 |     |       |            |
| Di-n-octyl phthalate                                    | ND             |          | 180         | 4.2            | ug/kg dry | ND     |     | 62-133 |     |       |            |
| Fluoranthene  | ND             |          | 180         | 2.6            | ug/kg dry | 53.1   |     | 62-131 |     |       | J          |
| Fluorene  | ND             | 3590     | 180         | 4.2            | ug/kg dry | 3560   | 99  | 63-126 |     |       |            |
| Hexachlorobenzene                                       | ND             |          | 180         | 9.0            | ug/kg dry | ND     |     | 60-132 |     |       |            |
| Hexachlorobutadiene                                     | ND             |          | 180         | 9.3            | ug/kg dry | ND     |     | 45-120 |     |       |            |
| Hexachlorocyclopentadie<br>ne                           | ND             |          | 180         | 55             | ug/kg dry | ND     |     | 31-120 |     |       |            |
| Hexachloroethane  | ND             | 3590     | 180         | 14             | ug/kg dry | 2830   | 79  | 41-120 |     |       |            |
| Indeno(1,2,3-cd)pyrene                                  | ND             |          | 180         | 5.0            | ug/kg dry | ND     |     | 56-149 |     |       |            |
| Isophorone  | ND             |          | 180         | 9.1            | ug/kg dry | ND     |     | 56-120 |     |       |            |
| Naphthalene   | ND             |          | 180         | 3.0            | ug/kg dry | ND     |     | 46-120 |     |       |            |
| Nitrobenzene  | ND             |          | 180         | 8.1            | ug/kg dry | ND     |     | 49-120 |     |       |            |

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SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |        |           | LA          | BORATOR        | Y QC DATA    |        |     |        |     |       |            |
|---|--------|-----------|-------------|----------------|--------------|--------|-----|--------|-----|-------|------------|
|   | Source | Spike     |             |                |              |        | %   | % REC  | %   | RPD   | Data       |
| Analyte   | Result | Level     | RL          | MDL            | Units        | Result | REC | Limits | RPD | Limit | Qualifiers |
| Semivolatile Organics by                                | GC/MS  |           |             |                |              |        |     |        |     |       |            |
| Matrix Spike Analyzed: 0<br>QC Source Sample: RTI1016-0 | -      | ab Numbe  | r:10 1091-N | IS1, Batch: 10 | 11091)       |        |     |        |     |       |            |
| N-Nitrosodi-n-propylamin<br>e                           | ND     | 3590      | 180         | 14             | ug/kg dry    | 3500   | 98  | 46-120 |     |       |            |
| N-Nitrosodiphenylamine                                  | ND     |           | 180         | 9.9            | ug/kg dry    | ND     |     | 20-119 |     |       |            |
| Pentachlorophenol                                       | ND     | 3590      | 360         | 62             | ug/kg dry    | 3760   | 105 | 33-136 |     |       |            |
| Phenanthrene  | ND     |           | 180         | 3.8            | ug/kg dry    | ND     |     | 60-130 |     |       |            |
| Phenol  | ND     | 3590      | 180         | 19             | ug/kg dry    | 2770   | 77  | 36-120 |     |       |            |
| Pyrene  | ND     | 3590      | 180         | 1.2            | ug/kg dry    | 3660   | 102 | 51-133 |     |       |            |
| Surrogate:  |        |           |             |                | ug/kg dry    |        | 117 | 39-146 |     |       |            |
| 2,4,6-Tribromophenol<br>Surrogate:<br>2-Fluorobiphenyl  |        |           |             |                | ug/kg dry    |        | 91  | 37-120 |     |       |            |
| Surrogate:<br>2-Fluorophenol                            |        |           |             |                | ug/kg dry    |        | 79  | 18-120 |     |       |            |
| Surrogate:<br>Nitrobenzene-d5                           |        |           |             |                | ug/kg dry    |        | 93  | 34-132 |     |       |            |
| Surrogate: Phenol-d5                                    |        |           |             |                | ug/kg dry    |        | 82  | 11-120 |     |       |            |
| Surrogate:<br>p-Terphenyl-d14                           |        |           |             |                | ug/kg dry    |        | 91  | 58-147 |     |       |            |
| Matrix Spike Dup Analyze<br>QC Source Sample: RTI1016-0 |        | 0 (Lab Nu | mber:10I10  | 91-MSD1, Bat   | ch: 10l1091) |        |     |        |     |       |            |
| 2,4,5-Trichlorophenol                                   | ND     |           | 190         | 41             | ug/kg dry    | ND     |     | 59-126 |     | 18    |            |
| 2,4,6-Trichlorophenol                                   | ND     |           | 190         | 12             | ug/kg dry    | ND     |     | 59-123 |     | 19    |            |
| 2,4-Dichlorophenol                                      | ND     |           | 190         | 9.7            | ug/kg dry    | ND     |     | 52-120 |     | 19    |            |
| 2,4-Dimethylphenol                                      | ND     |           | 190         | 50             | ug/kg dry    | ND     |     | 36-120 |     | 42    |            |
| 2,4-Dinitrophenol                                       | ND     |           | 360         | 65             | ug/kg dry    | ND     |     | 35-146 |     | 22    |            |
| 2,4-Dinitrotoluene                                      | ND     | 3670      | 190         | 29             | ug/kg dry    | 3390   | 92  | 55-125 | 11  | 20    |            |
| 2,6-Dinitrotoluene                                      | ND     |           | 190         | 46             | ug/kg dry    | ND     |     | 66-128 |     | 15    |            |
| 2-Chloronaphthalene                                     | ND     |           | 190         | 12             | ug/kg dry    | ND     |     | 57-120 |     | 21    |            |
| 2-Chlorophenol  | ND     | 3670      | 190         | 9.5            | ug/kg dry    | 2470   | 67  | 38-120 | 23  | 25    |            |
| 2-Methylnaphthalene                                     | ND     |           | 190         | 2.3            | ug/kg dry    | ND     |     | 47-120 |     | 21    |            |
| 2-Methylphenol  | ND     |           | 190         | 5.7            | ug/kg dry    | ND     |     | 48-120 |     | 27    |            |
| 2-Nitroaniline  | ND     |           | 360         | 60             | ug/kg dry    | ND     |     | 61-130 |     | 15    |            |
| 2-Nitrophenol   | ND     |           | 190         | 8.5            | ug/kg dry    | ND     |     | 50-120 |     | 18    |            |
| 3,3'-Dichlorobenzidine                                  | ND     |           | 190         | 160            | ug/kg dry    | ND     |     | 48-126 |     | 25    |            |
| 3-Nitroaniline  | ND     |           | 360         | 43             | ug/kg dry    | ND     |     | 61-127 |     | 19    |            |
| 4,6-Dinitro-2-methylphen ol                             | ND     |           | 360         | 64             | ug/kg dry    | ND     |     | 49-155 |     | 15    |            |
| 4-Bromophenyl phenyl ether                              | ND     |           | 190         | 59             | ug/kg dry    | ND     |     | 58-131 |     | 15    |            |
| 4-Chloro-3-methylphenol                                 | ND     | 3670      | 190         | 7.7            | ug/kg dry    | 3120   | 85  | 49-125 | 11  | 27    |            |

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# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|  |                |          | LÆ           | BORATOR       | Y QC DATA    |            |     |        |     |       |            |
|--|----------------|----------|--------------|---------------|--------------|------------|-----|--------|-----|-------|------------|
|  | Source         | Spike    |              |               |              |            | %   | % REC  | %   | RPD   | Data       |
| Analyte  | Result         | Level    | RL           | MDL           | Units        | Result     | REC | Limits | RPD | Limit | Qualifiers |
| Semivolatile Organics by                               | <u>y GC/MS</u> |          |              |               |              |            |     |        |     |       |            |
| Matrix Spike Dup Analyz<br>QC Source Sample: RTI1016-0 |                | ) (Lab I | Number:10l1( | )91-MSD1, Bat | ch: 10l1091) |            |     |        |     |       |            |
| 4-Chloroaniline  | ND             |          | 190          | 55            | ug/kg dry    | ND         |     | 49-120 |     | 22    |            |
| 4-Chlorophenyl phenyl ether                            | ND             |          | 190          | 4.0           | ug/kg dry    | ND         |     | 63-124 |     | 16    |            |
| 4-Methylphenol   | ND             |          | 190          | 10            | ug/kg dry    | ND         |     | 50-119 |     | 24    |            |
| 4-Nitroaniline   | ND             |          | 360          | 21            | ug/kg dry    | ND         |     | 63-128 |     | 24    |            |
| 4-Nitrophenol  | ND             | 3670     | 360          | 45            | ug/kg dry    | 2900       | 79  | 43-137 | 10  | 25    |            |
| Acenaphthene   | ND             | 3670     | 190          | 2.2           | ug/kg dry    | 3060       | 83  | 53-120 | 7   | 35    |            |
| Acenaphthylene   | ND             |          | 190          | 1.5           | ug/kg dry    | ND         |     | 58-121 |     | 18    |            |
| Acetophenone   | ND             |          | 190          | 9.5           | ug/kg dry    | ND         |     | 66-120 |     | 20    |            |
| Anthracene   | ND             |          | 190          | 4.8           | ug/kg dry    | ND         |     | 62-129 |     | 15    |            |
| Atrazine   | ND             |          | 190          | 8.3           | ug/kg dry    | ND         |     | 73-133 |     | 20    |            |
| Benzaldehyde   | ND             |          | 190          | 20            | ug/kg dry    | ND         |     | 21-120 |     | 20    |            |
| Benzo(a)anthracene                                     | ND             |          | 190          | 3.2           | ug/kg dry    | ND         |     | 65-133 |     | 15    |            |
| Benzo(a)pyrene   | ND             |          | 190          | 4.5           | ug/kg dry    | ND         |     | 64-127 |     | 15    |            |
| Benzo(b)fluoranthene                                   | ND             |          | 190          | 3.6           | ug/kg dry    | ND         |     | 64-135 |     | 15    |            |
| Benzo(ghi)perylene                                     | ND             |          | 190          | 2.2           | ug/kg dry    | ND         |     | 50-152 |     | 15    |            |
| Benzo(k)fluoranthene                                   | ND             |          | 190          | 2.0           | ug/kg dry    | ND         |     | 58-138 |     | 22    |            |
| Biphenyl   | ND             |          | 190          | 12            | ug/kg dry    | ND         |     | 71-120 |     | 20    |            |
| Bis(2-chloroethoxy)metha<br>ne                         | ND             |          | 190          | 10            | ug/kg dry    | ND         |     | 61-133 |     | 17    |            |
| Bis(2-chloroethyl)ether                                | ND             |          | 190          | 16            | ug/kg dry    | ND         |     | 45-120 |     | 21    |            |
| 2,2'-Oxybis(1-Chloroprop<br>ane)                       | ND             |          | 190          | 19            | ug/kg dry    | ND         |     | 44-120 |     | 24    |            |
| Bis(2-ethylhexyl)<br>phthalate                         | ND             | 3670     | 190          | 60            | ug/kg dry    | 3890       | 106 | 61-133 | 9   | 15    |            |
| Butyl benzyl phthalate                                 | ND             |          | 190          | 50            | ug/kg dry    | ND         |     | 61-129 |     | 16    |            |
| Caprolactam  | ND             |          | 190          | 80            | ug/kg dry    | ND         |     | 54-133 |     | 20    |            |
| Carbazole  | ND             |          | 190          | 2.2           | ug/kg dry    | ND         |     | 59-129 |     | 20    |            |
| Chrysene   | ND             |          | 190          | 1.9           | ug/kg dry    | ND         |     | 64-131 |     | 15    |            |
| Dibenzo(a,h)anthracene                                 | ND             |          | 190          | 2.2           | ug/kg dry    | ND         |     | 54-148 |     | 15    |            |
| Dibenzofuran   | ND             |          | 190          | 1.9           | ug/kg dry    | ND         |     | 56-120 |     | 15    |            |
| Diethyl phthalate                                      | ND             |          | 190          | 5.6           | ug/kg dry    | ND         |     | 66-126 |     | 15    |            |
| Dimethyl phthalate                                     | ND             |          | 190          | 4.9           | ug/kg dry    | ND         |     | 65-124 |     | 15    |            |
| Di-n-butyl phthalate                                   | ND             |          | 190          | 64            | ug/kg dry    | ND         |     | 58-130 |     | 15    |            |
| Di-n-octyl phthalate                                   | ND             |          | 190          | 4.3           | ug/kg dry    | ND         |     | 62-133 |     | 16    |            |
| Fluoranthene   | ND             |          | 190          | 2.7           | ug/kg dry    | 49.2       |     | 62-131 | 8   | 15    | J          |
| Fluorene   | ND             | 3670     | 190          | 4.3           | ug/kg dry    | 3290       | 90  | 63-126 | 8   | 15    |            |
| Hexachlorobenzene                                      | ND             |          | 190          | 9.2           | ug/kg dry    | ND         |     | 60-132 |     | 15    |            |
| Hexachlorobutadiene                                    | ND             |          | 190          | 9.5           | ug/kg dry    | ND         |     | 45-120 |     | 44    |            |
| TestAmerica Buffalo - 10                               | 0 Hazelwood    | d Drive  | Amherst. NY  | 14228 tel 716 |              | 16-691-799 | 91  |        |     |       |            |

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# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|  |                |          | LA          | BORATORY      | Y QC DATA    |        |     |        |     |       |            |
|--|----------------|----------|-------------|---------------|--------------|--------|-----|--------|-----|-------|------------|
|  | Source         | Spike    |             |               |              |        | %   | % REC  | %   | RPD   | Data       |
| Analyte  | Result         | Level    | RL          | MDL           | Units        | Result | REC | Limits | RPD | Limit | Qualifiers |
| Semivolatile Organics by                               | <u>/ GC/MS</u> |          |             |               |              |        |     |        |     |       |            |
| Matrix Spike Dup Analyz<br>QC Source Sample: RTI1016-0 |                | )(Lab Nı | umber:10l10 | 91-MSD1, Bate | ch: 10l1091) |        |     |        |     |       |            |
| Hexachlorocyclopentadie<br>ne                          | ND             |          | 190         | 56            | ug/kg dry    | ND     |     | 31-120 |     | 49    |            |
| Hexachloroethane                                       | ND             | 3670     | 190         | 14            | ug/kg dry    | 2300   | 63  | 41-120 | 21  | 46    |            |
| Indeno(1,2,3-cd)pyrene                                 | ND             |          | 190         | 5.1           | ug/kg dry    | ND     |     | 56-149 |     | 15    |            |
| Isophorone   | ND             |          | 190         | 9.3           | ug/kg dry    | ND     |     | 56-120 |     | 17    |            |
| Naphthalene  | ND             |          | 190         | 3.1           | ug/kg dry    | ND     |     | 46-120 |     | 29    |            |
| Nitrobenzene   | ND             |          | 190         | 8.2           | ug/kg dry    | ND     |     | 49-120 |     | 24    |            |
| N-Nitrosodi-n-propylamin<br>e                          | ND             | 3670     | 190         | 15            | ug/kg dry    | 3020   | 82  | 46-120 | 15  | 31    |            |
| N-Nitrosodiphenylamine                                 | ND             |          | 190         | 10            | ug/kg dry    | ND     |     | 20-119 |     | 15    |            |
| Pentachlorophenol                                      | ND             | 3670     | 360         | 64            | ug/kg dry    | 3400   | 93  | 33-136 | 10  | 35    |            |
| Phenanthrene   | ND             |          | 190         | 3.9           | ug/kg dry    | ND     |     | 60-130 |     | 15    |            |
| Phenol   | ND             | 3670     | 190         | 20            | ug/kg dry    | 2340   | 64  | 36-120 | 17  | 35    |            |
| Pyrene   | ND             | 3670     | 190         | 1.2           | ug/kg dry    | 3400   | 93  | 51-133 | 7   | 35    |            |
| Surrogate:<br>2,4,6-Tribromophenol                     |                |          |             |               | ug/kg dry    |        | 99  | 39-146 |     |       |            |
| Surrogate:<br>2-Fluorobiphenyl                         |                |          |             |               | ug/kg dry    |        | 78  | 37-120 |     |       |            |
| Surrogate:<br>2-Fluorophenol                           |                |          |             |               | ug/kg dry    |        | 60  | 18-120 |     |       |            |
| Surrogate:<br>Nitrobenzene-d5                          |                |          |             |               | ug/kg dry    |        | 71  | 34-132 |     |       |            |
| Surrogate: Phenol-d5                                   |                |          |             |               | ug/kg dry    |        | 66  | 11-120 |     |       |            |
| Surrogate:<br>p-Terphenyl-d14                          |                |          |             |               | ug/kg dry    |        | 81  | 58-147 |     |       |            |

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Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                             |           |             | LA         | BORATORY       | QC DATA   |        |     |        |     |       |            |
|-----------------------------|-----------|-------------|------------|----------------|-----------|--------|-----|--------|-----|-------|------------|
|                             | Source    | Spike       |            |                |           |        | %   | % REC  | %   | RPD   | Data       |
| Analyte                     | Result    | Level       | RL         | MDL            | Units     | Result | REC | Limits | RPD | Limit | Qualifiers |
| Organochlorine Pesticide    | es by EPA | Method 80   | <u>81A</u> |                |           |        |     |        |     |       |            |
| Blank Analyzed: 09/18/10    | (Lab Num  | nber:10 107 | '5-BLK1, B | atch: 1011075) |           |        |     |        |     |       |            |
| 4,4'-DDD                    |           |             | 1.6        | 0.32           | ug/kg wet | ND     |     |        |     |       | QSU        |
| 4,4'-DDD [2C]               |           |             | 1.6        | 0.32           | ug/kg wet | ND     |     |        |     |       | QSU        |
| 4,4'-DDE                    |           |             | 1.6        | 0.25           | ug/kg wet | ND     |     |        |     |       | QSU        |
| 4,4'-DDE [2C]               |           |             | 1.6        | 0.25           | ug/kg wet | ND     |     |        |     |       | QSU        |
| 4,4'-DDT                    |           |             | 1.6        | 0.17           | ug/kg wet | ND     |     |        |     |       | QSU        |
| 4,4'-DDT [2C]               |           |             | 1.6        | 0.17           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aldrin                      |           |             | 1.6        | 0.40           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aldrin [2C]                 |           |             | 1.6        | 0.40           | ug/kg wet | ND     |     |        |     |       | QSU        |
| alpha-BHC                   |           |             | 1.6        | 0.30           | ug/kg wet | ND     |     |        |     |       | QSU        |
| alpha-BHC [2C]              |           |             | 1.6        | 0.30           | ug/kg wet | ND     |     |        |     |       | QSU        |
| beta-BHC                    |           |             | 1.6        | 0.18           | ug/kg wet | ND     |     |        |     |       | QSU        |
| beta-BHC [2C]               |           |             | 1.6        | 0.18           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Chlordane                   |           |             | 16         | 3.6            | ug/kg wet | ND     |     |        |     |       | QSU        |
| Chlordane [2C]              |           |             | 16         | 3.6            | ug/kg wet | ND     |     |        |     |       | QSU        |
| delta-BHC                   |           |             | 1.6        | 0.22           | ug/kg wet | ND     |     |        |     |       | QSU        |
| delta-BHC [2C]              |           |             | 1.6        | 0.22           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Dieldrin                    |           |             | 1.6        | 0.39           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Dieldrin [2C]               |           |             | 1.6        | 0.39           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Endosulfan I                |           |             | 1.6        | 0.21           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Endosulfan I [2C]           |           |             | 1.6        | 0.21           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Endosulfan II               |           |             | 1.6        | 0.30           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Endosulfan II [2C]          |           |             | 1.6        | 0.30           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Endosulfan sulfate          |           |             | 1.6        | 0.31           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Endosulfan sulfate [2C]     |           |             | 1.6        | 0.31           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Endrin                      |           |             | 1.6        | 0.23           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Endrin [2C]                 |           |             | 1.6        | 0.23           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Endrin aldehyde             |           |             | 1.6        | 0.42           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Endrin aldehyde [2C]        |           |             | 1.6        | 0.42           | ug/kg wet | ND     |     |        |     |       | QSU        |
| gamma-BHC (Lindane)         |           |             | 1.6        | 0.29           | ug/kg wet | ND     |     |        |     |       | QSU        |
| gamma-BHC (Lindane)<br>[2C] |           |             | 1.6        | 0.29           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Heptachlor                  |           |             | 1.6        | 0.26           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Heptachlor [2C]             |           |             | 1.6        | 0.26           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Heptachlor epoxide          |           |             | 1.6        | 0.42           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Heptachlor epoxide [2C]     |           |             | 1.6        | 0.42           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Methoxychlor                |           |             | 1.6        | 0.23           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Methoxychlor [2C]           |           |             | 1.6        | 0.23           | ug/kg wet | ND     |     |        |     |       | QSU        |
| Toxaphene                   |           |             | 16         | 9.6            | ug/kg wet | ND     |     |        |     |       | QSU        |

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Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                                       |            |             | L          | ABORATORY       | QC DATA   |        |     |         |           |            |
|---------------------------------------|------------|-------------|------------|-----------------|-----------|--------|-----|---------|-----------|------------|
|                                       | Source     | Spike       |            |                 |           |        | %   | % REC   | % RPD     | Data       |
| Analyte                               | Result     | Level       | RL         | MDL             | Units     | Result | REC | Limits  | RPD Limit | Qualifiers |
| Organochlorine Pesticid               | es by EPA  | Method 80   | <u>81A</u> |                 |           |        |     |         |           |            |
| Blank Analyzed: 09/18/10              | ) (Lab Num | nber:10 107 | 75-BLK1. E | Batch: 10 1075) |           |        |     |         |           |            |
| Toxaphene [2C]                        | - (        |             | 16         | 9.6             | ug/kg wet | ND     |     |         |           | QSU        |
| Surrogate:                            |            |             |            |                 | ug/kg wet |        | 116 | 42-146  |           | QSU,C8     |
| Decachlorobiphenyl                    |            |             |            |                 | ug/ng wet |        | 110 | 12 1 10 |           | Q00,00     |
| Surrogate:                            |            |             |            |                 | ug/kg wet |        | 90  | 42-146  |           | QSU        |
| Decachlorobiphenyl [2C]<br>Surrogate: |            |             |            |                 | ug/kg wet |        | 70  | 37-136  |           | QSU        |
| Tetrachloro-m-xylene                  |            |             |            |                 |           |        |     |         |           |            |
| Surrogate:<br>Tetrachloro-m-xylene    |            |             |            |                 | ug/kg wet |        | 79  | 37-136  |           | QSU        |
| -                                     | <i></i>    |             |            |                 |           |        |     |         |           |            |
| LCS Analyzed: 09/20/10                | (Lab Numb  |             |            | ,               |           | 10.0   |     | FF 400  |           | 0011       |
| 4,4'-DDD                              |            | 16.6        | 1.7        | 0.32            | ug/kg wet | 13.9   | 84  | 55-129  |           | QSU        |
| 4,4'-DDD [2C]                         |            | 16.6        | 1.7        | 0.32            | ug/kg wet | 14.5   | 87  | 55-129  |           | QSU        |
| 4,4'-DDE                              |            | 16.6        | 1.7        | 0.25            | ug/kg wet | 13.6   | 82  | 59-120  |           | QSU        |
| 4,4'-DDE [2C]                         |            | 16.6        | 1.7        | 0.25            | ug/kg wet | 14.4   | 87  | 59-120  |           | QSU        |
| 4,4'-DDT                              |            | 16.6        | 1.7        | 0.17            | ug/kg wet | 14.0   | 84  | 47-145  |           | QSU        |
| 4,4'-DDT [2C]                         |            | 16.6        | 1.7        | 0.17            | ug/kg wet | 13.6   | 82  | 47-145  |           | QSU        |
| Aldrin                                |            | 16.6        | 1.7        | 0.41            | ug/kg wet | 10.7   | 64  | 35-120  |           | QSU        |
| Aldrin [2C]                           |            | 16.6        | 1.7        | 0.41            | ug/kg wet | 11.7   | 70  | 35-120  |           | QSU        |
| alpha-BHC                             |            | 16.6        | 1.7        | 0.30            | ug/kg wet | 10.9   | 66  | 49-120  |           | QSU        |
| alpha-BHC [2C]                        |            | 16.6        | 1.7        | 0.30            | ug/kg wet | 12.2   | 73  | 49-120  |           | QSU        |
| beta-BHC                              |            | 16.6        | 1.7        | 0.18            | ug/kg wet | 12.7   | 76  | 56-120  |           | QSU        |
| beta-BHC [2C]                         |            | 16.6        | 1.7        | 0.18            | ug/kg wet | 13.5   | 81  | 56-120  |           | QSU        |
| delta-BHC                             |            | 16.6        | 1.7        | 0.22            | ug/kg wet | 12.4   | 74  | 45-123  |           | QSU        |
| delta-BHC [2C]                        |            | 16.6        | 1.7        | 0.22            | ug/kg wet | 13.2   | 79  | 45-123  |           | QSU        |
| Dieldrin                              |            | 16.6        | 1.7        | 0.40            | ug/kg wet | 13.4   | 80  | 57-120  |           | QSU        |
| Dieldrin [2C]                         |            | 16.6        | 1.7        | 0.40            | ug/kg wet | 14.0   | 84  | 57-120  |           | QSU        |
| Endosulfan I                          |            | 16.6        | 1.7        | 0.21            | ug/kg wet | 11.6   | 69  | 29-125  |           | QSU        |
| Endosulfan I [2C]                     |            | 16.6        | 1.7        | 0.21            | ug/kg wet | 12.2   | 73  | 29-125  |           | QSU        |
| Endosulfan II                         |            | 16.6        | 1.7        | 0.30            | ug/kg wet | 12.7   | 76  | 39-121  |           | QSU        |
| Endosulfan II [2C]                    |            | 16.6        | 1.7        | 0.30            | ug/kg wet | 12.5   | 75  | 39-121  |           | QSU        |
| Endosulfan sulfate                    |            | 16.6        | 1.7        | 0.31            | ug/kg wet | 12.8   | 77  | 43-120  |           | QSU        |
| Endosulfan sulfate [2C]               |            | 16.6        | 1.7        | 0.31            | ug/kg wet | 12.6   | 76  | 43-120  |           | QSU        |
| Endrin                                |            | 16.6        | 1.7        | 0.23            | ug/kg wet | 13.1   | 79  | 54-127  |           | QSU        |
| Endrin [2C]                           |            | 16.6        | 1.7        | 0.23            | ug/kg wet | 13.4   | 81  | 54-127  |           | QSU        |
| Endrin aldehyde                       |            | 16.6        | 1.7        | 0.43            | ug/kg wet | 11.1   | 67  | 33-120  |           | QSU        |
| Endrin aldehyde [2C]                  |            | 16.6        | 1.7        | 0.43            | ug/kg wet | 11.2   | 67  | 33-120  |           | QSU        |
| gamma-BHC (Lindane)                   |            | 16.6        | 1.7        | 0.29            | ug/kg wet | 12.2   | 73  | 50-120  |           | QSU        |
| gamma-BHC (Lindane)<br>[2C]           |            | 16.6        | 1.7        | 0.29            | ug/kg wet | 13.0   | 78  | 50-120  |           | QSU        |

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# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |            |            | L           | ABORATORY        | QC DATA   |        |     |        |           |            |
|---|------------|------------|-------------|------------------|-----------|--------|-----|--------|-----------|------------|
|   | Source     | Spike      |             |                  |           |        | %   | % REC  | % RPD     | Data       |
| Analyte   | Result     | Level      | RL          | MDL              | Units     | Result | REC | Limits | RPD Limit | Qualifiers |
| Organochlorine Pesticio                                       | les by EPA | Method 80  | <u>81A</u>  |                  |           |        |     |        |           |            |
| LCS Analyzed: 09/20/10  | (Lab Numb  | er:10 1075 | 5-BS1, Bate | ch: 10l1075)     |           |        |     |        |           |            |
| Heptachlor  |            | 16.6       | 1.7         | 0.26             | ug/kg wet | 11.6   | 70  | 47-120 |           | QSU        |
| Heptachlor [2C]   |            | 16.6       | 1.7         | 0.26             | ug/kg wet | 12.6   | 76  | 47-120 |           | QSU        |
| Heptachlor epoxide  |            | 16.6       | 1.7         | 0.43             | ug/kg wet | 13.0   | 78  | 44-122 |           | QSU        |
| Heptachlor epoxide [2C]                                       |            | 16.6       | 1.7         | 0.43             | ug/kg wet | 13.4   | 80  | 44-122 |           | QSU        |
| Methoxychlor  |            | 16.6       | 1.7         | 0.23             | ug/kg wet | 14.0   | 84  | 46-152 |           | QSU        |
| Methoxychlor [2C]   |            | 16.6       | 1.7         | 0.23             | ug/kg wet | 14.2   | 85  | 46-152 |           | QSU        |
| Surrogate:  |            |            |             |                  | ug/kg wet |        | 94  | 42-146 |           | QSU,C8     |
| Decachlorobiphenyl<br>Surrogate:                              |            |            |             |                  | ug/kg wet |        | 91  | 42-146 |           | QSU        |
| Decachlorobiphenyl [2C]<br>Surrogate:<br>Tetrachloro-m-xylene |            |            |             |                  | ug/kg wet |        | 70  | 37-136 |           | QSU        |
| Surrogate:<br>Tetrachloro-m-xylene                            |            |            |             |                  | ug/kg wet |        | 83  | 37-136 |           | QSU        |
| Matrix Spike Analyzed:<br>QC Source Sample: RTI0959-          | -          | ab Number  | r:10 1075-N | MS1, Batch: 10I1 | 1075)     |        |     |        |           |            |
| 4,4'-DDD  | ND         | 20.8       | 2.1         | 0.40             | ug/kg dry | 18.6   | 90  | 55-129 |           |            |
| 4,4'-DDD [2C]   | ND         | 20.8       | 2.1         | 0.40             | ug/kg dry | 18.7   | 90  | 55-129 |           |            |
| 4,4'-DDE  | 3.79       | 20.8       | 2.1         | 0.31             | ug/kg dry | 18.6   | 71  | 59-120 |           |            |
| 4,4'-DDE [2C]   | 4.09       | 20.8       | 2.1         | 0.31             | ug/kg dry | 19.1   | 72  | 59-120 |           |            |
| 4,4'-DDT  | 3.82       | 20.8       | 2.1         | 0.21             | ug/kg dry | 19.0   | 73  | 47-145 |           |            |
| 4,4'-DDT [2C]   | 4.00       | 20.8       | 2.1         | 0.21             | ug/kg dry | 18.3   | 69  | 47-145 |           |            |
| Aldrin  | ND         | 20.8       | 2.1         | 0.51             | ug/kg dry | 15.5   | 75  | 35-120 |           |            |
| Aldrin [2C]   | ND         | 20.8       | 2.1         | 0.51             | ug/kg dry | 16.1   | 78  | 35-120 |           |            |
| alpha-BHC   | ND         | 20.8       | 2.1         | 0.37             | ug/kg dry | 16.5   | 80  | 49-120 |           |            |
| alpha-BHC [2C]  | ND         | 20.8       | 2.1         | 0.37             | ug/kg dry | 16.9   | 82  | 49-120 |           |            |
| beta-BHC  | ND         | 20.8       | 2.1         | 0.22             | ug/kg dry | 17.7   | 85  | 56-120 |           |            |
| beta-BHC [2C]   | ND         | 20.8       | 2.1         | 0.22             | ug/kg dry | 18.0   | 87  | 56-120 |           |            |
| delta-BHC   | ND         | 20.8       | 2.1         | 0.27             | ug/kg dry | 17.4   | 84  | 45-123 |           |            |
| delta-BHC [2C]  | ND         | 20.8       | 2.1         | 0.27             | ug/kg dry | 17.7   | 85  | 45-123 |           |            |
| Dieldrin  | ND         | 20.8       | 2.1         | 0.50             | ug/kg dry | 18.1   | 87  | 57-120 |           |            |
| Dieldrin [2C]   | ND         | 20.8       | 2.1         | 0.50             | ug/kg dry | 18.1   | 87  | 57-120 |           |            |
| Endosulfan I  | ND         | 20.8       | 2.1         | 0.26             | ug/kg dry | 15.7   | 76  | 29-125 |           |            |
| Endosulfan I [2C]   | ND         | 20.8       | 2.1         | 0.26             | ug/kg dry | 15.8   | 76  | 29-125 |           |            |
| Endosulfan II   | ND         | 20.8       | 2.1         | 0.37             | ug/kg dry | 17.2   | 83  | 39-121 |           |            |
| Endosulfan II [2C]  | ND         | 20.8       | 2.1         | 0.37             | ug/kg dry | 16.8   | 81  | 39-121 |           |            |
| Endosulfan sulfate  | ND         | 20.8       | 2.1         | 0.39             | ug/kg dry | 20.2   | 97  | 43-120 |           |            |
| Endosulfan sulfate [2C]                                       | ND         | 20.8       | 2.1         | 0.39             | ug/kg dry | 18.7   | 90  | 43-120 |           |            |
| Endrin  | ND         | 20.8       | 2.1         | 0.29             | ug/kg dry | 18.0   | 87  | 54-127 |           |            |

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# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |           |           | L           | BORATOR         | Y QC DATA    |        |     |        |      |       |            |
|---|-----------|-----------|-------------|-----------------|--------------|--------|-----|--------|------|-------|------------|
|   | Source    | Spike     |             |                 |              |        | %   | % REC  | %    | RPD   | Data       |
| Analyte   | Result    | Level     | RL          | MDL             | Units        | Result | REC | Limits | RPD  | Limit | Qualifiers |
| Organochlorine Pesticid                                 | es by EPA | Method 80 | <u>)81A</u> |                 |              |        |     |        |      |       |            |
| Matrix Spike Analyzed: 0<br>QC Source Sample: RTI0959-0 | -         | ab Numbe  | r:10 1075-N | /IS1, Batch: 10 | 1075)        |        |     |        |      |       |            |
| Endrin [2C]   | ND        | 20.8      | 2.1         | 0.29            | ug/kg dry    | 17.9   | 86  | 54-127 |      |       |            |
| Endrin aldehyde   | ND        | 20.8      | 2.1         | 0.53            | ug/kg dry    | 19.1   | 92  | 33-120 |      |       |            |
| Endrin aldehyde [2C]                                    | ND        | 20.8      | 2.1         | 0.53            | ug/kg dry    | 18.9   | 91  | 33-120 |      |       |            |
| gamma-BHC (Lindane)                                     | ND        | 20.8      | 2.1         | 0.36            | ug/kg dry    | 17.5   | 85  | 50-120 |      |       |            |
| gamma-BHC (Lindane)<br>[2C]                             | ND        | 20.8      | 2.1         | 0.36            | ug/kg dry    | 18.0   | 87  | 50-120 |      |       |            |
| Heptachlor  | ND        | 20.8      | 2.1         | 0.32            | ug/kg dry    | 16.9   | 81  | 47-120 |      |       |            |
| Heptachlor [2C]   | ND        | 20.8      | 2.1         | 0.32            | ug/kg dry    | 17.0   | 82  | 47-120 |      |       |            |
| Heptachlor epoxide                                      | ND        | 20.8      | 2.1         | 0.54            | ug/kg dry    | 18.0   | 87  | 44-122 |      |       |            |
| Heptachlor epoxide [2C]                                 | ND        | 20.8      | 2.1         | 0.54            | ug/kg dry    | 17.7   | 85  | 44-122 |      |       |            |
| Methoxychlor  | ND        | 20.8      | 2.1         | 0.29            | ug/kg dry    | 19.3   | 93  | 46-152 |      |       |            |
| Methoxychlor [2C]                                       | ND        | 20.8      | 2.1         | 0.29            | ug/kg dry    | 19.5   | 94  | 46-152 |      |       |            |
| Surrogate:<br>Decachlorobiphenyl                        |           |           |             |                 | ug/kg dry    |        | 97  | 42-146 |      |       |            |
| Surrogate:<br>Decachlorobiphenyl [2C]                   |           |           |             |                 | ug/kg dry    |        | 93  | 42-146 |      |       |            |
| Surrogate:<br>Tetrachloro-m-xylene                      |           |           |             |                 | ug/kg dry    |        | 73  | 37-136 |      |       |            |
| Surrogate:<br>Tetrachloro-m-xylene                      |           |           |             |                 | ug/kg dry    |        | 75  | 37-136 |      |       |            |
| Matrix Spike Dup Analyz                                 |           | 0 (Lab Nu | mber:1011   | 075-MSD1, Bat   | ch: 10l1075) |        |     |        |      |       |            |
| QC Source Sample: RTI0959-0                             |           |           |             |                 |              |        |     |        |      |       |            |
| 4,4'-DDD  | ND        | 20.4      | 2.0         | 0.40            | ug/kg dry    | 19.0   | 93  | 55-129 | 2    | 21    |            |
| 4,4'-DDD [2C]   | ND        | 20.4      | 2.0         | 0.40            | ug/kg dry    | 18.7   | 92  | 55-129 | 0.2  | 21    |            |
| 4,4'-DDE  | 3.79      | 20.4      | 2.0         | 0.31            | ug/kg dry    | 18.6   | 73  | 59-120 | 0.06 | 18    |            |
| 4,4'-DDE [2C]   | 4.09      | 20.4      | 2.0         | 0.31            | ug/kg dry    | 19.4   | 75  | 59-120 |      | 18    |            |
| 4,4'-DDT  | 3.82      | 20.4      | 2.0         | 0.21            | ug/kg dry    | 19.5   | 77  | 47-145 |      | 25    |            |
| 4,4'-DDT [2C]   | 4.00      | 20.4      | 2.0         | 0.21            | ug/kg dry    | 18.7   | 72  | 47-145 |      | 25    |            |
| Aldrin  | ND        | 20.4      | 2.0         | 0.50            | ug/kg dry    | 15.4   | 76  | 35-120 | 0.3  | 12    |            |
| Aldrin [2C]   | ND        | 20.4      | 2.0         | 0.50            | ug/kg dry    | 16.2   | 80  | 35-120 | 0.5  | 12    |            |
| alpha-BHC   | ND        | 20.4      | 2.0         | 0.37            | ug/kg dry    | 16.0   | 79  | 49-120 | 3    | 15    |            |
| alpha-BHC [2C]  | ND        | 20.4      | 2.0         | 0.37            | ug/kg dry    | 16.1   | 79  | 49-120 | 5    | 15    |            |
| beta-BHC  | ND        | 20.4      | 2.0         | 0.22            | ug/kg dry    | 16.6   | 81  | 56-120 | 7    | 19    |            |
| beta-BHC [2C]   | ND        | 20.4      | 2.0         | 0.22            | ug/kg dry    | 16.9   | 83  | 56-120 | 7    | 19    |            |
| delta-BHC   | ND        | 20.4      | 2.0         | 0.27            | ug/kg dry    | 16.8   | 83  | 45-123 | 3    | 14    |            |
| delta-BHC [2C]  | ND        | 20.4      | 2.0         | 0.27            | ug/kg dry    | 17.3   | 85  | 45-123 | 2    | 14    |            |
| Dieldrin  | ND        | 20.4      | 2.0         | 0.49            | ug/kg dry    | 17.8   | 87  | 57-120 | 2    | 12    |            |
| Dieldrin [2C]   | ND        | 20.4      | 2.0         | 0.49            | ug/kg dry    | 18.0   | 88  | 57-120 | 0.8  | 12    |            |
| Endosulfan I  | ND        | 20.4      | 2.0         | 0.26            | ug/kg dry    | 15.3   | 75  | 29-125 | 3    | 18    |            |

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# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |            |           | LA          | BORATOR       | Y QC DATA    |        |     |        |     |       |            |
|---|------------|-----------|-------------|---------------|--------------|--------|-----|--------|-----|-------|------------|
|   | Source     | Spike     |             |               |              |        | %   | % REC  | %   | RPD   | Data       |
| Analyte   | Result     | Level     | RL          | MDL           | Units        | Result | REC | Limits | RPD | Limit | Qualifiers |
| Organochlorine Pesticio                               | les by EPA | Method 80 | <u>)81A</u> |               |              |        |     |        |     |       |            |
| Matrix Spike Dup Analyz<br>QC Source Sample: RTI0959- |            | 0 (Lab Nu | mber:10I10  | 975-MSD1, Bat | ch: 10l1075) |        |     |        |     |       |            |
| Endosulfan I [2C]                                     | ND         | 20.4      | 2.0         | 0.26          | ug/kg dry    | 15.6   | 77  | 29-125 | 1   | 18    |            |
| Endosulfan II   | ND         | 20.4      | 2.0         | 0.37          | ug/kg dry    | 17.3   | 85  | 39-121 | 0.6 | 26    |            |
| Endosulfan II [2C]                                    | ND         | 20.4      | 2.0         | 0.37          | ug/kg dry    | 16.9   | 83  | 39-121 | 0.6 | 26    |            |
| Endosulfan sulfate                                    | ND         | 20.4      | 2.0         | 0.38          | ug/kg dry    | 20.2   | 99  | 43-120 | 0.3 | 35    |            |
| Endosulfan sulfate [2C]                               | ND         | 20.4      | 2.0         | 0.38          | ug/kg dry    | 18.4   | 90  | 43-120 | 2   | 35    |            |
| Endrin  | ND         | 20.4      | 2.0         | 0.28          | ug/kg dry    | 18.0   | 88  | 54-127 | 0.1 | 20    |            |
| Endrin [2C]   | ND         | 20.4      | 2.0         | 0.28          | ug/kg dry    | 17.9   | 88  | 54-127 | 0.2 | 20    |            |
| Endrin aldehyde                                       | ND         | 20.4      | 2.0         | 0.52          | ug/kg dry    | 18.2   | 89  | 33-120 | 5   | 47    |            |
| Endrin aldehyde [2C]                                  | ND         | 20.4      | 2.0         | 0.52          | ug/kg dry    | 17.9   | 88  | 33-120 | 5   | 47    |            |
| gamma-BHC (Lindane)                                   | ND         | 20.4      | 2.0         | 0.35          | ug/kg dry    | 16.7   | 82  | 50-120 | 5   | 12    |            |
| gamma-BHC (Lindane)<br>[2C]                           | ND         | 20.4      | 2.0         | 0.35          | ug/kg dry    | 17.3   | 85  | 50-120 | 4   | 12    |            |
| Heptachlor  | ND         | 20.4      | 2.0         | 0.32          | ug/kg dry    | 17.9   | 88  | 47-120 | 6   | 22    |            |
| Heptachlor [2C]                                       | ND         | 20.4      | 2.0         | 0.32          | ug/kg dry    | 16.5   | 81  | 47-120 | 3   | 22    |            |
| Heptachlor epoxide                                    | ND         | 20.4      | 2.0         | 0.53          | ug/kg dry    | 17.5   | 86  | 44-122 | 3   | 15    |            |
| Heptachlor epoxide [2C]                               | ND         | 20.4      | 2.0         | 0.53          | ug/kg dry    | 17.4   | 85  | 44-122 | 2   | 15    |            |
| Methoxychlor  | ND         | 20.4      | 2.0         | 0.28          | ug/kg dry    | 19.5   | 96  | 46-152 | 0.8 | 24    |            |
| Methoxychlor [2C]                                     | ND         | 20.4      | 2.0         | 0.28          | ug/kg dry    | 21.1   | 104 | 46-152 | 8   | 24    |            |
| Surrogate:<br>Decachlorobiphenyl                      |            |           |             |               | ug/kg dry    |        | 93  | 42-146 |     |       |            |
| Surrogate:<br>Decachlorobiphenyl [2C]                 |            |           |             |               | ug/kg dry    |        | 86  | 42-146 |     |       |            |
| Surrogate:<br>Tetrachloro-m-xylene                    |            |           |             |               | ug/kg dry    |        | 72  | 37-136 |     |       |            |
| Surrogate:  |            |           |             |               | ug/kg dry    |        | 75  | 37-136 |     |       |            |

Tetrachloro-m-xylene

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# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |              |             | LÆ          | BORATOR         | Y QC DATA |        |     |        |     |       |            |
|---|--------------|-------------|-------------|-----------------|-----------|--------|-----|--------|-----|-------|------------|
|   | Source       | Spike       |             |                 |           |        | %   | % REC  | %   | RPD   | Data       |
| Analyte   | Result       | Level       | RL          | MDL             | Units     | Result | REC | Limits | RPD | Limit | Qualifiers |
| Polychlorinated Bipheny                                       | yls by EPA I | Method 80   | <u>82</u>   |                 |           |        |     |        |     |       |            |
| Blank Analyzed: 09/16/1                                       | 0 (Lab Num   | nber:101093 | 37-BLK1, E  | Batch: 1010937) |           |        |     |        |     |       |            |
| Aroclor 1016  |              |             | 16          | 3.2             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1016 [2C]   |              |             | 16          | 3.2             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1221  |              |             | 16          | 3.2             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1221 [2C]   |              |             | 16          | 3.2             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1232  |              |             | 16          | 3.2             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1232 [2C]   |              |             | 16          | 3.2             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1242  |              |             | 16          | 3.5             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1242 [2C]   |              |             | 16          | 3.5             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1248  |              |             | 16          | 3.2             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1248 [2C]   |              |             | 16          | 3.2             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1254  |              |             | 16          | 3.4             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1254 [2C]   |              |             | 16          | 3.4             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1260  |              |             | 16          | 7.6             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1260 [2C]   |              |             | 16          | 7.6             | ug/kg wet | ND     |     |        |     |       | QSU,C      |
| Surrogate:  |              |             |             |                 | ug/kg wet |        | 112 | 34-148 |     |       | QSU        |
| Decachlorobiphenyl<br>Surrogate:                              |              |             |             |                 | ug/kg wet |        | 106 | 34-148 |     |       | QSU        |
| Decachlorobiphenyl [2C]<br>Surrogate:<br>Tetrachloro-m-xylene |              |             |             |                 | ug/kg wet |        | 89  | 35-134 |     |       | QSU        |
| Surrogate:<br>Tetrachloro-m-xylene                            |              |             |             |                 | ug/kg wet |        | 92  | 35-134 |     |       | QSU        |
| LCS Analyzed: 09/16/10  | (Lab Numb    | per:1010937 | 7-BS1, Bate | ch: 1010937)    |           |        |     |        |     |       |            |
| Aroclor 1016  |              | 163         | 16          | 3.2             | ug/kg wet | 160    | 98  | 59-154 |     |       | QSU        |
| Aroclor 1016 [2C]   |              | 163         | 16          | 3.2             | ug/kg wet | 149    | 92  | 59-154 |     |       | QSU        |
| Aroclor 1221  |              |             | 16          | 3.2             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1221 [2C]   |              |             | 16          | 3.2             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1232  |              |             | 16          | 3.2             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1232 [2C]   |              |             | 16          | 3.2             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1242  |              |             | 16          | 3.5             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1242 [2C]   |              |             | 16          | 3.5             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1248  |              |             | 16          | 3.2             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1248 [2C]   |              |             | 16          | 3.2             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1254  |              |             | 16          | 3.4             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1254 [2C]   |              |             | 16          | 3.4             | ug/kg wet | ND     |     |        |     |       | QSU        |
| Aroclor 1260  |              | 163         | 16          | 7.6             | ug/kg wet | 170    | 104 | 51-179 |     |       | QSU        |
| Aroclor 1260 [2C]   |              | 163         | 16          | 7.6             | ug/kg wet | 162    | 99  | 51-179 |     |       | QSU,C      |
| Surrogate:  |              | -           |             |                 | ug/kg wet |        | 108 | 34-148 |     |       | QSU        |

Decachlorobiphenyl

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THE LEADER IN ENVIRONMENTAL TESTING

# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

SDG Number: RTI0959

|   |                  |                | LÆ        | BORATORY     | QC DATA   |        |          |                 |                    |              |
|---|------------------|----------------|-----------|--------------|-----------|--------|----------|-----------------|--------------------|--------------|
| Analyte   | Source<br>Result | Spike<br>Level | RL        | MDL          | Units     | Result | %<br>REC | % REC<br>Limits | % RPD<br>RPD Limit | Data<br>Data |
| Polychlorinated Biphen                            | yls by EPA       | Method 808     | 2         |              |           |        |          |                 |                    |              |
| LCS Analyzed: 09/16/10                            | /Lab Numb        | or:1010937_    | BS1 Bat   | -h. 1010937) |           |        |          |                 |                    |              |
| Surrogate:  |                  | Jei. 1010337-  | DOT, Date |              | ug/kg wet |        | 104      | 34-148          |                    | QSU          |
| Decachlorobiphenyl [2C]<br>Surrogate:             |                  |                |           |              | ug/kg wet |        | 88       | 35-134          |                    | QSU          |
| Tetrachloro-m-xylene<br>Surrogate:                |                  |                |           |              | ug/kg wet |        | 88       | 35-134          |                    | QSU          |
| Tetrachloro-m-xylene                              |                  |                |           |              |           |        |          |                 |                    |              |
| Polychlorinated Biphen                            | yls by EPA       | Method 808     | 2         |              |           |        |          |                 |                    |              |
|   |                  |                |           |              |           |        |          |                 |                    |              |
| Blank Analyzed: 09/18/1                           | 0 (Lab Num       | 1ber:1011073   | -         |              |           |        |          |                 |                    | 0011         |
| Aroclor 1016                                      |                  |                | 16        | 3.2          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1016 [2C]                                 |                  |                | 16        | 3.2          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1221                                      |                  |                | 16        | 3.2          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1221 [2C]                                 |                  |                | 16        | 3.2          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1232                                      |                  |                | 16        | 3.2          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1232 [2C]                                 |                  |                | 16        | 3.2          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1242                                      |                  |                | 16        | 3.6          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1242 [2C]                                 |                  |                | 16        | 3.6          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1248                                      |                  |                | 16        | 3.2          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1248 [2C]                                 |                  |                | 16        | 3.2          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1254                                      |                  |                | 16        | 3.5          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1254 [2C]                                 |                  |                | 16        | 3.5          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1260                                      |                  |                | 16        | 7.7          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1260 [2C]                                 |                  |                | 16        | 7.7          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Surrogate:  |                  |                |           |              | ug/kg wet |        | 96       | 34-148          |                    | QSU          |
| Decachlorobiphenyl<br>Surrogate:                  |                  |                |           |              | ug/kg wet |        | 96       | 34-148          |                    | QSU          |
| Decachlorobiphenyl [2C]<br>Surrogate:             |                  |                |           |              | ug/kg wet |        | 83       | 35-134          |                    | QSU          |
| Tetrachloro-m-xylene<br>Surrogate:<br>Tetrachloro |                  |                |           |              | ug/kg wet |        | 84       | 35-134          |                    | QSU          |
| Tetrachloro-m-xylene                              |                  |                |           |              |           |        |          |                 |                    |              |
| LCS Analyzed: 09/18/10                            | (Lab Numb        | er:10l1073-    | -         |              |           |        |          |                 |                    |              |
| Aroclor 1016                                      |                  | 162            | 16        | 3.2          | ug/kg wet | 160    | 99       | 59-154          |                    | QSU          |
| Aroclor 1016 [2C]                                 |                  | 162            | 16        | 3.2          | ug/kg wet | 150    | 92       | 59-154          |                    | QSU          |
| Aroclor 1221                                      |                  |                | 16        | 3.2          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1221 [2C]                                 |                  |                | 16        | 3.2          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1232                                      |                  |                | 16        | 3.2          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1232 [2C]                                 |                  |                | 16        | 3.2          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1242                                      |                  |                | 16        | 3.5          | ug/kg wet | ND     |          |                 |                    | QSU          |
| Aroclor 1242 [2C]                                 |                  |                | 16        | 3.5          | ug/kg wet | ND     |          |                 |                    | QSU          |

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# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |                  |                | LÆ          | BORATORY     | QC DATA   |        |          |                 |          |              |                    |
|---|------------------|----------------|-------------|--------------|-----------|--------|----------|-----------------|----------|--------------|--------------------|
| Analyte   | Source<br>Result | Spike<br>Level | RL          | MDL          | Units     | Result | %<br>REC | % REC<br>Limits | %<br>RPD | RPD<br>Limit | Data<br>Qualifiers |
| Polychlorinated Biphen                                      | yls by EPA I     | Method 80      | <u>82</u>   |              |           |        |          |                 |          |              |                    |
| LCS Analyzed: 09/18/10                                      | (Lab Numb        | er:10 1073     | B-BS1, Bato | ch: 10 1073) |           |        |          |                 |          |              |                    |
| Aroclor 1248  |                  |                | 16          | 3.2          | ug/kg wet | ND     |          |                 |          |              | QSU                |
| Aroclor 1248 [2C]   |                  |                | 16          | 3.2          | ug/kg wet | ND     |          |                 |          |              | QSU                |
| Aroclor 1254  |                  |                | 16          | 3.4          | ug/kg wet | ND     |          |                 |          |              | QSU                |
| Aroclor 1254 [2C]   |                  |                | 16          | 3.4          | ug/kg wet | ND     |          |                 |          |              | QSU                |
| Aroclor 1260  |                  | 162            | 16          | 7.6          | ug/kg wet | 158    | 98       | 51-179          |          |              | QSU                |
| Aroclor 1260 [2C]   |                  | 162            | 16          | 7.6          | ug/kg wet | 161    | 99       | 51-179          |          |              | QSU                |
| Surrogate:  |                  |                |             |              | ug/kg wet |        | 99       | 34-148          |          |              | QSU                |
| Decachlorobiphenyl<br>Surrogate:<br>Decachlorobiphenyl [2C] |                  |                |             |              | ug/kg wet |        | 99       | 34-148          |          |              | QSU                |
| Surrogate:<br>Tetrachloro-m-xylene                          |                  |                |             |              | ug/kg wet |        | 85       | 35-134          |          |              | QSU                |
| Surrogate:<br>Tetrachloro-m-xylene                          |                  |                |             |              | ug/kg wet |        | 84       | 35-134          |          |              | QSU                |

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| Benchmark Environmental & Engineering Science<br>2558 Hamburg Turnpike, Suite 300 |                     | SDG Number: RTI0959     |                          |                             |                              | Rece<br>Repo |     |                |     |       |           |
|---|---------------------|-------------------------|--------------------------|-----------------------------|------------------------------|--------------|-----|----------------|-----|-------|-----------|
| Lackawanna, NY 142  | 218                 |                         | Project: B<br>Project Ni |                             | Maryland St. site<br>RN-0066 |              |     |                |     |       |           |
|   |                     |                         | LA                       | BORATOR                     | Y QC DATA                    |              |     |                |     |       |           |
|   | Source              | Spike                   | RL                       | MDI                         |                              |              | %   | % REC          | %   | RPD   | Data      |
| Analyte   | Result              | Level                   |                          | MDL                         | Units                        | Result       | REC | Limits         | RPD | Limit | Qualifier |
| Total Metals by SW  | V 646 Series Metri  | 1005                    |                          |                             |                              |              |     |                |     |       |           |
| Blank Analyzed: 09  | 9/20/10 (Lab Num    | nber:10 134             | 43-BLK1, Ba              | atch: 10I1343)              |                              |              |     |                |     |       |           |
| Mercury   |                     |                         | 0.0205                   | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Reference Analyze   | d: 09/20/10 (Lab    | Number:1                | 0I1343-SRN               | 11, Batch: 101 <sup>,</sup> | 1343)                        |              |     |                |     |       |           |
| Mercury   | ,                   | 2.97                    | 0.178                    | ,<br>NR                     | ,<br>mg/kg wet               | 2.63         | 88  | 67.6-132.      |     |       |           |
| 2   |                     |                         |                          |                             | 0.0                          |              |     | 8              |     |       |           |
| Total Metals by SW  | / 846 Series Meth   | ods                     |                          |                             |                              |              |     |                |     |       |           |
|   |                     |                         |                          |                             |                              |              |     |                |     |       |           |
| Blank Analyzed: 09  | 9/22/10 (Lab Num    | nber:10 14 <sup>-</sup> | 15-BLK1, Ba              | atch: 10I1415)              |                              |              |     |                |     |       |           |
| Aluminum  |                     |                         | 10.4                     | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Antimony  |                     |                         | 15.6                     | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Arsenic   |                     |                         | 2.1                      | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Barium  |                     |                         | 0.521                    | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Beryllium   |                     |                         | 0.208                    | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Cadmium   |                     |                         | 0.208                    | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Calcium   |                     |                         | 52.1                     | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Chromium  |                     |                         | 0.521                    | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Cobalt  |                     |                         | 0.521                    | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Copper  |                     |                         | 1.0                      | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Iron  |                     |                         | 10.4                     | NR                          | mg/kg wet                    |              |     |                |     |       |           |
| Lead<br>Magnesium   |                     |                         | 1.0<br>20.8              | NR<br>NR                    | mg/kg wet<br>mg/kg wet       | ND<br>ND     |     |                |     |       |           |
| Manganese   |                     |                         | 0.2                      | NR                          | mg/kg wet                    | 0.2          |     |                |     |       | В         |
| Nickel  |                     |                         | 5.21                     | NR                          | mg/kg wet                    | ND           |     |                |     |       | D         |
| Potassium   |                     |                         | 31.3                     | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Selenium  |                     |                         | 4.2                      | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Silver  |                     |                         | 0.521                    | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Sodium  |                     |                         | 146                      | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Thallium  |                     |                         | 6.3                      | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Vanadium  |                     |                         | 0.521                    | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| Zinc  |                     |                         | 2.1                      | NR                          | mg/kg wet                    | ND           |     |                |     |       |           |
| D-f   | -1. 00/00/40 // -1- | N                       |                          |                             |                              |              |     |                |     |       |           |
| Reference Analyze   | eu: 09/22/10 (Lab   |                         |                          |                             | -                            | 0070         | 0.4 | 40.0.150       |     |       |           |
| Aluminum  |                     | 10700                   | 10.0                     | NR                          | mg/kg wet                    | 8970         | 84  | 46.3-153.<br>3 |     |       |           |
| Antimony  |                     | 117                     | 15.0                     | NR                          | mg/kg wet                    | 49.3         | 42  | 22.6-253       |     |       |           |
| Arsenic   |                     | 138                     | 2.0                      | NR                          | mg/kg wet                    | 135          | 98  | 70.4-129.      |     |       |           |
| Designe   |                     |                         | 0.400                    |                             |                              |              | 404 | 7              |     |       |           |
| Barium  |                     | 269                     | 0.499                    | NR                          | mg/kg wet                    | 272          | 101 | 74-126.4       |     |       |           |
| Beryllium   |                     | 157                     | 0.200                    | NR                          | mg/kg wet                    | 150          | 96  | 75.2-124.<br>8 |     |       |           |

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# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

SDG Number: RTI0959

Received: 09/14/10-09/15/10 Reported: 09/30/10 11:33

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                             |         |         | LA          | BORATOR         | Y QC DATA |        |     |                |     |       |            |
|-----------------------------|---------|---------|-------------|-----------------|-----------|--------|-----|----------------|-----|-------|------------|
|                             | Source  | Spike   | RL          | MDI             |           |        | %   | % REC          | %   | RPD   | Data       |
|                             | Result  | Level   |             | MDL             | Units     | Result | REC | Limits         | RPD | Limit | Qualifiers |
| Total Metals by SW 846 Seri | es meth | ioas    |             |                 |           |        |     |                |     |       |            |
| Reference Analyzed: 09/22/1 | IO (Lab | Number: | 10I1415-SRI | M1, Batch: 10I1 | 1415)     |        |     |                |     |       |            |
| Cadmium                     |         | 70.9    | 0.200       | NR              | mg/kg wet | 67.1   | 95  | 73.2-126.<br>8 |     |       |            |
| Calcium                     |         | 9650    | 49.9        | NR              | mg/kg wet | 8850   | 92  | 75.4-124.<br>2 |     |       |            |
| Chromium                    |         | 105     | 0.499       | NR              | mg/kg wet | 97.3   | 93  | 69.3-130.<br>5 |     |       |            |
| Cobalt                      |         | 142     | 0.499       | NR              | mg/kg wet | 137    | 97  | 73.9-125.<br>4 |     |       |            |
| Copper                      |         | 110     | 1.0         | NR              | mg/kg wet | 105    | 95  | 74.4-125.<br>5 |     |       |            |
| Iron                        |         | 19100   | 10.0        | NR              | mg/kg wet | 14700  | 77  | 43-156         |     |       |            |
| Lead                        |         | 144     | 1.0         | NR              | mg/kg wet | 143    | 99  | 72.9-126.<br>4 |     |       |            |
| Magnesium                   |         | 4400    | 20.0        | NR              | mg/kg wet | 3960   | 90  | 70.3-129.<br>7 |     |       |            |
| Manganese                   |         | 538     | 0.2         | NR              | mg/kg wet | 513    | 95  | 77.2-122.<br>6 |     |       | B1,B       |
| Nickel                      |         | 130     | 4.99        | NR              | mg/kg wet | 128    | 99  | 72.8-126.<br>9 |     |       |            |
| Potassium                   |         | 4990    | 30.0        | NR              | mg/kg wet | 4640   | 93  | 66.4-133.<br>8 |     |       |            |
| Selenium                    |         | 200     | 4.0         | NR              | mg/kg wet | 201    | 101 | 68.5-131.<br>5 |     |       |            |
| Silver                      |         | 45.0    | 0.499       | NR              | mg/kg wet | 43.5   | 97  | 66.3-133.<br>7 |     |       |            |
| Sodium                      |         | 652     | 140         | NR              | mg/kg wet | 566    | 87  | 55.1-144.<br>9 |     |       |            |
| Thallium                    |         | 161     | 6.0         | NR              | mg/kg wet | 165    | 103 | 68.3-131.<br>7 |     |       |            |
| Vanadium                    |         | 66.9    | 0.499       | NR              | mg/kg wet | 58.7   | 88  | 57.8-142.<br>1 |     |       |            |
| Zinc                        |         | 223     | 2.0         | NR              | mg/kg wet | 230    | 103 | 70.4-129.<br>6 |     |       |            |

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| Benchmark Environi<br>2558 Hamburg Turn | SDG Nu           | SDG Number: RTI0959 Received:<br>Reported: |                         |                                |         |        |          | 09/14/10-09/15/10<br>09/30/10 11:33 |          |              |                    |
|---|------------------|--|-------------------------|--------------------------------|---------|--------|----------|-------------------------------------|----------|--------------|--------------------|
| Lackawanna, NY 14                       | 218              |  | Project: I<br>Project N | Benchmark - 295<br>Jumber: TUR |         |        |          |                                     |          |              |                    |
|   |                  |  | LA                      | BORATORY                       | QC DATA |        |          |                                     |          |              |                    |
| Analyte                                 | Source<br>Result | Spike<br>Level                             | RL                      | MDL                            | Units   | Result | %<br>REC | % REC<br>Limits                     | %<br>RPD | RPD<br>Limit | Data<br>Qualifiers |
| General Chemistr                        | y Parameters     |  |                         |                                |         |        |          |                                     |          |              |                    |
| Blank Analyzed: 0                       | 9/18/10 (Lab Nun | nber:10 102                                | 23-BLK1, E              | Batch: 10I1023)                |         |        |          |                                     |          |              |                    |
|   |                  |  |                         |                                |         |        |          |                                     |          |              |                    |

mg/kg wet

28.5

90

40-160

| Total Cyanide                | 31.5 | 0.9 |  |
|------------------------------|------|-----|--|
| General Chemistry Parameters |      |     |  |

LCS Analyzed: 09/18/10 (Lab Number:10I1023-BS1, Batch: 10I1023)

| Blank Analyzed: 09/21/10 (Lab Number:10I1387-BLK1, Batch: 10I1387) |             |               |         |           |      |    |        |  |  |  |  |
|--|-------------|---------------|---------|-----------|------|----|--------|--|--|--|--|
| Total Cyanide  |             | 1.0           | 0.5     | mg/kg wet | ND   |    |        |  |  |  |  |
| LCS Analyzed: 09/21/10 (Lab Numbe                                  | er:10l1387- | BS1, Batch: 1 | 0 1387) |           |      |    |        |  |  |  |  |
| Total Cyanide  | 31.5        | 1.0           | 0.5     | mg/kg wet | 21.2 | 67 | 40-160 |  |  |  |  |

0.5

| Chain of<br>Custody Record   |                  | Tempe<br>Drinkij               |  |                 |          | -          |            | <b>,</b>       |  | •     | Te                |   |                             |                              |             |   |             |               |           |            |            |                   |                           |        |    |
|--|------------------|--------------------------------|--|-----------------|----------|------------|------------|----------------|--|-------|-------------------|---|-----------------------------|------------------------------|-------------|---|-------------|---------------|-----------|------------|------------|-------------------|---------------------------|--------|----|
| Client<br>Benchmurk Environmul Eng<br>Address<br>2588 Humberg Turnpile<br>City<br>Larken warm<br>Project Name and Location (State)   |                  |                                | Project Atlanager<br>For For Star<br>Telephone Number (Area Code)/Fax Number<br>(716) ¥56-0635<br>Site Contact<br>T. TS-Lince B. Fisch<br>Camar/Waybull Number |                 |          |            |            | -<br>          | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |       |                   |   | La<br>La<br>nalysi<br>na sp | no Nuli<br>is (Ati<br>vace l |             |   |             | Chain<br>Page |           | <u>896</u> | 5°2<br>☞ ∠ |                   |                           |        |    |
| 235 Mary Jane LLC<br>Contract/Purchase Order/Oucle No<br>Sample I.D. No, and Description<br>(Containers for each sample may be combined on one time)   | Dale             | Time                           |  | <i>M</i> .      | atrix    | <b>i</b> . | Chickes.   |                |  | ative |                   |   | š                           | 1                            | ן<br>קון    |   | !           | <br> <br>     | <br> <br> |            |            | Spec<br>Condi     | lai ins<br>itions i       |        |    |
|  | 13/10            | 1 <u>35</u> 0                  |  | -               | X        | ₹_<br>     | X          | <br>           | · • •  |       | [**]<br>;         | + |                             | +-                           | <b>   </b>  |   | -+<br><br>i | +             |           |            |            |                   |                           | ···· . |    |
|  |                  |                                |  |                 |          |            |            |                |  |       |                   |   |                             | <b>†</b>                     |             |   |             | -+<br>-       |           | ÷          |            |                   |                           |        |    |
|  |                  | <br>                           |  | _  <br>_  <br>_ |          |            |            |                |  |       | ╏<br>╏<br>┇<br>╴╸ |   |                             | +                            |             |   |             |               | <br> <br> |            |            |                   |                           |        |    |
| Possible Hazerd klanefication  | · ·              |                                |  | - +             | Úispa    | <br>\$al   |            |                |  |       |                   |   |                             |                              | ↓<br>.↓<br> |   |             |               |           |            |            |                   |                           |        |    |
| Non-Hauland      Flammable     Skin knikent     Poisson B     Conknown     Chent     Desposel By bab     Anchow For     Months     Konger then 1 (nonth)     Conger then |                  |                                |  |                 |          |            |            |                |  |       |                   |   |                             |                              |             |   |             |               |           |            |            |                   |                           |        |    |
| 2 Reingwender St   |                  | 9/1)<br>auto<br>09-1<br>(2000) | 8711<br>√~7  | _ם<br> פ<br>    | TLTNO    | 3          | <u>1</u> 2 | 2 Aed<br>1 Red | cener  |       | J                 | 2 |                             | T&                           | 7.          | ~ | Ţ           | _ /           |           |            |            | <u>-14-</u><br>14 | <u>070</u><br>0<br>0<br>1 | 12     | 10 |
| Continuents  | NARY - Sinys int | h the Sam,                     | ela; f   | Бінк            | - Flevid | Capy       | - ·        |                |  |       |                   |   |                             |                              | <i>†</i> -  |   | $f_{\tau}$  | 7             |           |            | <br>       |                   |                           |        | _  |

| Chain of   |                   | Tempera   | ttire d        | n Reci                  | ۔<br>tot | <b>_</b>              |                      | Te                 | est          | A                                     | m             | ne                     | ric          | CC               | Ľ            |                       |                                       |
|--|-------------------|---|----------------|-------------------------|----------|-----------------------|----------------------|--------------------|--------------|---------------------------------------|---------------|------------------------|--------------|------------------|--------------|-----------------------|---------------------------------------|
| Custody Record   |                   | Drinking  | Wate           | r? Ye                   | s 🖸 🗸    | мд                    | -                    | тне                | LEADE        | R IN E                                | NVIRG         | ONMEN                  | TAL T        | ESTIN            | G            |                       |                                       |
| Address II I D   | — <u> </u>        | Project Ma<br>10M<br>Telephone                  | Mumbe          | oches<br>er 12/00       | Code)/F  |                       | ber                  |                    |              |                                       |               | Date<br>9/             | 14/1<br>voer | <br>>            |              |                       | 9920                                  |
| Proyect Name and Location (Stale)  | aa <b>.</b><br>UV | Site Conte<br>Site Conte<br>T. Be<br>Carrier W. | ri<br>Cu       | UTTOOR                  | Ĺa       | b Conta               | a<br>                | 1                  |              | + <u>+ 7</u><br>う <u>+ 7</u><br>う<br> | Anal)<br>more | rsis (Atta<br>space is | neede        |                  |              | <u>896</u>            | of <u>/</u> _                         |
| 295 Maryland St.   |                   |   |                | <br>Ia <sub>litur</sub> |          | P                     | ontainei<br>reservai | tives              |              | METALS.<br>PCB. PL                    | 8428          |                        |              |                  |              |                       | ial Instructions/<br>tions of Receipt |
| Sample I.D. No, and Description<br>(Containers for each sample may be combined on one line)<br>$\overline{WW - 3} (4 - 6)$   | Dare<br>9/14/10 1 | Time 3  | Aquado         | 28 28<br>X              | Curean X | 1680                  | HC HC                | ARON               | - 764        | - 12                                  | - 1.41        | _<br>                  |              |                  |              |                       |                                       |
|  |                   |   |                | <br>_ + _               |          |                       |                      |                    |              |                                       |               |                        |              |                  |              |                       |                                       |
|  |                   | İ   |                | <br> <br>               |          | ┝╸╿                   | ┼╉                   |                    | -+-i         |                                       |               | . <mark> .  </mark>    |              |                  |              |                       |                                       |
| ·  | ·                 |   | -+ - +         |                         | ,<br> ,  |                       | <br>                 |                    |              |                                       |               | <u></u> ;−             |              |                  |              |                       |                                       |
| ·  |                   | į   |                |                         |          | ╞                     | ╡<br>╡               | ┥                  |              |                                       |               | 1 1                    |              |                  | -            |                       | <b>_</b>                              |
|  | <u> </u>          |   | -<br>          | ╺╴┧╶                    |          |                       | ,<br>                | <br>               | - ∔ <u>-</u> |                                       |               |                        |              | ┥ぺ               | _   <br>_    |                       | _ <u>_</u>                            |
| Possible Hazard Identification<br>[`] Non Hazard [`] Flammable []; Skin Imlant [   | L                 |   |                | le Dispos<br>stum To L  |          | י_ 1<br>הרו           | 50068/ B             | v Lab              |              |                                       | _ _           |                        | (A fee       | may be<br>than 1 |              | d al seumplies a      | are relamed                           |
| Tum Around Time Required       Image: State of the state |                   |   | <b></b>        | 517                     |          |                       | lequinem             | nents (Spe<br>AT B |              |                                       |               |                        | ~~,y+        |                  | noring       |                       |                                       |
| 1 Relinquished By  |                   | Date<br>Date                                    | 1              | Time                    |          |                       | caived t             | Į                  | Ţ            | 4                                     | ;<br>Ħ        |                        |              |                  | _ 0          | 14/0<br>9-15-1<br>140 | 14(00                                 |
| 3. Rollinguigfud by  |                   | 09-15<br>Date                                   | Ð              | 14!<br>Time             | 15       |                       | conot t              | -la                | +4           | _                                     | <u> </u>      | -plan                  | Ļ            |                  | _ <u> </u> ź | - <u> {-</u>  -<br>We | 1445                                  |
| Commenter  | CAMARY - Stays m  |   | e, <b>25</b> 0 | K · Freid               | Capy -   | - <b>I</b> - <b>—</b> |                      | ·                  |              | $\overline{\zeta}$                    | .8            | ~                      |              |                  | _L_          |                       |                                       |
|  |                   |   |                |                         |          |                       |                      |                    |              | -                                     |               |                        |              |                  |              |                       |                                       |

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# Analytical Report

Work Order: RTI1555

Project Description Benchmark - 295 Maryland St. site

For:

Tom Forbes

Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

S.

Brian Fischer Project Manager Brian.Fischer@testamericainc.com Friday, October 15, 2010

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exception to NELAP requirements are noted in this report. Persuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project manager who has signed this report.

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Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218 Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

# TestAmerica Buffalo Current Certifications

# As of 08/16/2010

| STATE          | Program                     | Cert # / Lab ID  |
|----------------|-----------------------------|------------------|
| Arkansas       | CWA, RCRA, SOIL             | 88-0686          |
| California*    | NELAP CWA, RCRA             | 01169CA          |
| Connecticut    | SDWA, CWA, RCRA, SOIL       | PH-0568          |
| Florida*       | NELAP CWA, RCRA             | E87672           |
| Georgia*       | SDWA,NELAP CWA, RCRA        | 956              |
| Illinois*      | NELAP SDWA, CWA, RCRA       | 200003           |
| Iowa           | SW/CS                       | 374              |
| Kansas*        | NELAP SDWA, CWA, RCRA       | E-10187          |
| Kentucky       | SDWA                        | 90029            |
| Kentucky UST   | UST                         | 30               |
| Louisiana*     | NELAP CWA, RCRA             | 2031             |
| Maine          | SDWA, CWA                   | NY0044           |
| Maryland       | SDWA                        | 294              |
| Massachusetts  | SDWA, CWA                   | M-N Y044         |
| Michigan       | SDWA                        | 9937             |
| Minnesota      | SDWA, CWA, RCRA             | 036-999-337      |
| New Hampshire* | NELAP SDWA, CWA             | 233701           |
| New Jersey*    | NELAP,SDWA, CWA, RCRA,      | NY455            |
| New York*      | NELAP, AIR, SDWA, CWA, RCRA | 10026            |
| North Dakota   | CWA, RCRA                   | R-176            |
| Oklahoma       | CWA, RCRA                   | 9421             |
| Oregon*        | CWA, RCRA                   | NY200003         |
| Pennsylvania*  | NELAP CWA,RCRA              | 68-00281         |
| Tennessee      | SDWA                        | 02970            |
| Texas*         | NELAP CWA, RCRA             | T104704412-08-TX |
| USDA           | FOREIGN SOIL PERMIT         | S-41579          |
| Virginia       | SDWA                        | 278              |
| Washington*    | NELAP CWA,RCRA              | C1677            |
| Wisconsin      | CWA, RCRA                   | 998310390        |
| West Virginia  | CWA, RCRA                   | 252              |

\*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parame ters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218 Work Order: RTI1555

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066 Received: 09/24/10 Reported: 10/15/10 09:06

#### CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

S.

Brian Fischer Project Manager

Friday, October 15, 2010

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.



Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066 Received: 09/24/10 Reported: 10/15/10 09:06

The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to the lab MDL. It must be noted that results reported below lab standard quantitation limits (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Work Order: RTI1555

| SpecificMethod | Analyte        | <u>Units</u> | Client RL | Lab PQL |
|----------------|----------------|--------------|-----------|---------|
| 8270C          | 4-Methylphenol | ug/L         | 5.0       | 10      |

TestAmerica

| THE LEADER | IN | ENVIRONMENTAL | TESTING |  |
|------------|----|---------------|---------|--|
|            |    |               |         |  |

| Benchmark Environmental & Engineering Science<br>2558 Hamburg Turnpike, Suite 300 | Work Order: RTI1555                        | Received:<br>Reported: | 09/24/10<br>10/15/10 09:06 |
|---|--|------------------------|----------------------------|
| Lackawanna, NY 14218  | Project: Benchmark - 295 Maryland St. site |                        |                            |
|   | Project Number: TURN-0066                  |                        |                            |

#### DATA QUALIFIERS AND DEFINITIONS

- **D03** Dilution required due to excessive foaming
- J Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
- Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
- QSU Sulfur (EPA 3660) clean-up performed on extract.
- Z Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
- Z1 Surrogate recovery was above acceptance limits.
- **NR** Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

TestAmerica

# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

| Executive Summary - Detections |              |              |        |        |       |          |                |      |             |         |
|--------------------------------|--------------|--------------|--------|--------|-------|----------|----------------|------|-------------|---------|
|                                | Sample       | Data         |        |        |       | Dil      | Date           | Lab  |             |         |
| Analyte                        | Result       | Qualifiers   | RL     | MDL    | Units | Fac      | Analyzed       | Tech | Batch       | Method  |
| Sample ID: RTI1555-01 (        | MW-1 - Wate  | r)           |        |        | Sam   | pled: 09 | /23/10 10:20   | Recy | /d: 09/24/1 | 0 09:00 |
| Volatile Organic Compo         | ounds by EPA | A 8260B      |        |        |       |          |                |      |             |         |
| Acetone                        | 5.0          | J            | 10     | 3.0    | ug/L  | 1.00     | 09/29/10 23:40 | NMD  | 1012169     | 8260B   |
| Chloroform                     | 2.0          |              | 1.0    | 0.34   | ug/L  | 1.00     | 09/29/10 23:40 | NMD  | 10 2169     | 8260B   |
| Semivolatile Organics b        | oy GC/MS     |              |        |        |       |          |                |      |             |         |
| Butyl benzyl phthalate         | 0.51         | J            | 9.6    | 0.40   | ug/L  | 1.00     | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Di-n-butyl phthalate           | 0.51         | J            | 9.6    | 0.30   | ug/L  | 1.00     | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Organochlorine Pesticio        | des by EPA N | lethod 8081A |        |        |       |          |                |      |             |         |
| 4,4'-DDT                       | 0.082        |              | 0.047  | 0.010  | ug/L  | 1.00     | 09/28/10 20:45 | LMW  | 10 1862     | 8081A   |
| Endosulfan II                  | 0.069        |              | 0.047  | 0.011  | ug/L  | 1.00     | 09/28/10 20:45 | LMW  | 1011862     | 8081A   |
| gamma-Chlordane                | 0.036        | J            | 0.047  | 0.010  | ug/L  | 1.00     | 09/28/10 20:45 | LMW  | 1011862     | 8081A   |
| Heptachlor epoxide             | 0.018        | J            | 0.047  | 0.0050 | ug/L  | 1.00     | 09/28/10 20:45 |      | 1011862     | 8081A   |
| Methoxychlor                   | 0.059        |              | 0.047  | 0.013  | ug/L  | 1.00     | 09/28/10 20:45 | LMW  | 10 1862     | 8081A   |
| Total Metals by SW 846         | Series Metho | ods          |        |        |       |          |                |      |             |         |
| Barium                         | 0.0542       |              | 0.0020 | NR     | mg/L  | 1.00     | 09/28/10 23:15 | MxM  | 1011960     | 6010B   |
| Calcium                        | 75.6         |              | 0.5    | NR     | mg/L  | 1.00     | 09/28/10 23:15 | MxM  | 1011960     | 6010B   |
| Magnesium                      | 45.3         |              | 0.200  | NR     | mg/L  | 1.00     | 09/28/10 23:15 | MxM  | 1011960     | 6010B   |
| Manganese                      | 0.0739       |              | 0.0030 | NR     | mg/L  | 1.00     | 09/28/10 23:15 | MxM  | 10 1960     | 6010B   |
| Potassium                      | 4.50         |              | 0.500  | NR     | mg/L  | 1.00     | 09/29/10 12:30 | DAN  | 1011960     | 6010B   |
| Sodium                         | 25.1         |              | 1.0    | NR     | mg/L  | 1.00     | 09/29/10 12:30 | DAN  | 10 1960     | 6010B   |
| Sample ID: RTI1555-02 (        | MW-2 - Wate  | r)           |        |        | Sam   | pled: 09 | /23/10 13:35   | Recy | /d: 09/24/1 | 0 09:00 |
| Volatile Organic Compo         | ounds by EPA | A 8260B      |        |        |       |          |                |      |             |         |
| Benzene                        | 38           | D03          | 5.0    | 2.0    | ug/L  | 5.00     | 09/30/10 00:03 | NMD  | 1012169     | 8260B   |
| Chloroform                     | 4.2          | D03,J        | 5.0    | 1.7    | ug/L  | 5.00     | 09/30/10 00:03 | NMD  | 1012169     | 8260B   |
| Ethylbenzene                   | 39           | D03          | 5.0    | 3.7    | ug/L  | 5.00     | 09/30/10 00:03 | NMD  | 1012169     | 8260B   |
| Toluene                        | 18           | D03          | 5.0    | 2.6    | ug/L  | 5.00     | 09/30/10 00:03 |      | 1012169     | 8260B   |
| Xylenes, total                 | 97           | D03          | 10     | 3.3    | ug/L  | 5.00     | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Semivolatile Organics b        | oy GC/MS     |              |        |        |       |          |                |      |             |         |
| 2-Methylphenol                 | 1.3          | J            | 9.4    | 0.38   | ug/L  | 1.00     | 10/09/10 17:24 | MKP  | 10 1861     | 8270C   |
| Acetophenone                   | 2.8          | J            | 9.4    | 0.51   | ug/L  | 1.00     | 10/09/10 17:24 | MKP  | 10 1861     | 8270C   |
| Benzo(a)anthracene             | 0.35         | J            | 9.4    | 0.34   | ug/L  | 1.00     | 10/09/10 17:24 | MKP  | 10 1861     | 8270C   |
| Butyl benzyl phthalate         | 0.71         | J            | 9.4    | 0.40   | ug/L  | 1.00     | 10/09/10 17:24 |      | 10 1861     | 8270C   |
| Di-n-butyl phthalate           | 0.65         | J            | 9.4    | 0.29   | ug/L  | 1.00     | 10/09/10 17:24 |      | 1011861     | 8270C   |
| Fluoranthene                   | 0.47         | J            | 9.4    | 0.38   | ug/L  | 1.00     | 10/09/10 17:24 |      | 10 1861     | 8270C   |
| Naphthalene                    | 21           |              | 9.4    | 0.72   | ug/L  | 1.00     | 10/09/10 17:24 |      | 10 1861     | 8270C   |
| Phenanthrene                   | 0.58         | J            | 9.4    | 0.42   | ug/L  | 1.00     | 10/09/10 17:24 |      | 10 1861     | 8270C   |
| Pyrene                         | 0.42         | J            | 9.4    | 0.32   | ug/L  | 1.00     | 10/09/10 17:24 | MKP  | 10 1861     | 8270C   |
| Organochlorine Pesticio        |              | lethod 8081A | _      |        |       |          |                |      |             |         |
| beta-BHC                       | 0.060        |              | 0.047  | 0.023  | ug/L  | 1.00     | 09/28/10 21:21 |      | 1011862     | 8081A   |
| Endosulfan II                  | 0.11         |              | 0.047  | 0.011  | ug/L  | 1.00     | 09/28/10 21:21 |      | 1011862     | 8081A   |
| gamma-Chlordane                | 0.041        | J            | 0.047  | 0.010  | ug/L  | 1.00     | 09/28/10 21:21 |      | 10 1862     | 8081A   |
| Methoxychlor                   | 0.098        |              | 0.047  | 0.013  | ug/L  | 1.00     | 09/28/10 21:21 | LMW  | 10 1862     | 8081A   |

# Total Metals by SW 846 Series Methods

TestAmerica

# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

| Project: Benchmark | - 295 Maryland St. site |
|--------------------|-------------------------|
| Project Number:    | TURN-0066               |

|                         |              |              | Executive | Summar | y - Detect | tions     |                |      |             |         |
|-------------------------|--------------|--------------|-----------|--------|------------|-----------|----------------|------|-------------|---------|
|                         | Sample       | Data         |           |        |            | Dil       | Date           | Lab  |             |         |
| Analyte                 | Result       | Qualifiers   | RL        | MDL    | Units      | Fac       | Analyzed       | Tech | Batch       | Method  |
| Sample ID: RTI1555-02 ( | MW-2 - Water | r) - cont.   |           |        | Sam        | pled: 09/ | 23/10 13:35    | Recv | /d: 09/24/1 | 0 09:00 |
| Total Metals by SW 846  | Series Metho | ods - cont.  |           |        |            |           |                |      |             |         |
| Barium                  | 0.332        |              | 0.0020    | NR     | mg/L       | 1.00      | 09/28/10 23:17 | MxM  | 10 1960     | 6010B   |
| Calcium                 | 119          |              | 0.5       | NR     | mg/L       | 1.00      | 09/28/10 23:17 | MxM  | 10 1960     | 6010B   |
| Magnesium               | 107          |              | 0.200     | NR     | mg/L       | 1.00      | 09/28/10 23:17 | MxM  | 10 1960     | 6010B   |
| Manganese               | 0.204        |              | 0.0030    | NR     | mg/L       | 1.00      | 09/28/10 23:17 | MxM  | 10 1960     | 6010B   |
| Potassium               | 6.41         |              | 0.500     | NR     | mg/L       | 1.00      | 09/29/10 12:36 | DAN  | 10 1960     | 6010B   |
| Sodium                  | 59.2         |              | 1.0       | NR     | mg/L       | 1.00      | 09/29/10 12:36 | DAN  | 1011960     | 6010B   |
| Sample ID: RTI1555-03 ( | MW-3 - Water | r)           |           |        | Sam        | pled: 09/ | 23/10 12:25    | Recv | /d: 09/24/1 | 0 09:00 |
| Volatile Organic Compo  | ounds by EPA | 8260B        |           |        |            |           |                |      |             |         |
| Chloroform              | 5.4          | D03          | 4.0       | 1.3    | ug/L       | 4.00      | 09/30/10 14:02 | DHC  | 10 2207     | 8260B   |
| Semivolatile Organics b | oy GC/MS     |              |           |        |            |           |                |      |             |         |
| Acetophenone            | 1.1          | J            | 9.4       | 0.51   | ug/L       | 1.00      | 10/09/10 17:47 | MKP  | 10 1861     | 8270C   |
| Butyl benzyl phthalate  | 0.58         | J            | 9.4       | 0.40   | ug/L       | 1.00      | 10/09/10 17:47 | MKP  | 10 1861     | 8270C   |
| Di-n-butyl phthalate    | 0.55         | J            | 9.4       | 0.29   | ug/L       | 1.00      | 10/09/10 17:47 | MKP  | 10 1861     | 8270C   |
| Phenanthrene            | 0.46         | J            | 9.4       | 0.42   | ug/L       | 1.00      | 10/09/10 17:47 | MKP  | 1011861     | 8270C   |
| Organochlorine Pestici  | des by EPA N | lethod 8081A |           |        |            |           |                |      |             |         |
| 4,4'-DDD                | 0.23         | J            | 0.24      | 0.043  | ug/L       | 5.00      | 09/28/10 22:33 | LMW  | 10 1862     | 8081A   |
| alpha-BHC               | 0.18         | J            | 0.24      | 0.031  | ug/L       | 5.00      | 09/28/10 22:33 | LMW  | 10 1862     | 8081A   |
| beta-BHC                | 0.13         | J            | 0.24      | 0.12   | ug/L       | 5.00      | 09/28/10 22:33 | LMW  | 10 1862     | 8081A   |
| Endosulfan II           | 0.14         | J            | 0.24      | 0.057  | ug/L       | 5.00      | 09/28/10 22:33 | LMW  | 10 1862     | 8081A   |
| gamma-Chlordane         | 0.13         | J            | 0.24      | 0.052  | ug/L       | 5.00      | 09/28/10 22:33 | LMW  | 10 1862     | 8081A   |
| Heptachlor              | 0.11         | J            | 0.24      | 0.040  | ug/L       | 5.00      | 09/28/10 22:33 | LMW  | 10 1862     | 8081A   |
| Methoxychlor            | 0.20         | J            | 0.24      | 0.067  | ug/L       | 5.00      | 09/28/10 22:33 | LMW  | 1011862     | 8081A   |
| Total Metals by SW 846  | Series Metho | ods          |           |        |            |           |                |      |             |         |
| Barium                  | 0.0985       |              | 0.0020    | NR     | mg/L       | 1.00      | 09/28/10 23:19 | MxM  | 10 1960     | 6010B   |
| Calcium                 | 123          |              | 0.5       | NR     | mg/L       | 1.00      | 09/28/10 23:19 | MxM  | 10 1960     | 6010B   |
| Magnesium               | 98.3         |              | 0.200     | NR     | mg/L       | 1.00      | 09/28/10 23:19 | MxM  | 10 1960     | 6010B   |
| Manganese               | 0.195        |              | 0.0030    | NR     | mg/L       | 1.00      | 09/28/10 23:19 | MxM  | 10 1960     | 6010B   |
| Nickel                  | 0.0159       |              | 0.0100    | NR     | mg/L       | 1.00      | 09/28/10 23:19 | MxM  | 10 1960     | 6010B   |
| Potassium               | 10.0         |              | 0.500     | NR     | mg/L       | 1.00      | 09/29/10 12:41 | DAN  | 10 1960     | 6010B   |
| Sodium                  | 88.8         |              | 1.0       | NR     | mg/L       | 1.00      | 09/29/10 12:41 | DAN  | 1011960     | 6010B   |
| Coddin                  | 0010         |              | 1.0       |        | mg/L       | 1.00      | 00/20/10 12.41 | DAN  | 1011000     | 00100   |

TestAmerica

# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                         |              | I            | Executive | Summar | y - Detect | ions      |                |      |             |         |
|-------------------------|--------------|--------------|-----------|--------|------------|-----------|----------------|------|-------------|---------|
|                         | Sample       | Data         |           |        |            | Dil       | Date           | Lab  |             |         |
| Analyte                 | Result       | Qualifiers   | RL        | MDL    | Units      | Fac       | Analyzed       | Tech | Batch       | Method  |
| Sample ID: RTI1555-04 ( | MW-4 - Wate  | r)           |           |        | Samj       | pled: 09/ | /23/10 11:20   | Recv | /d: 09/24/1 | 0 09:00 |
| Volatile Organic Compo  | ounds by EPA | A 8260B      |           |        |            |           |                |      |             |         |
| Chloroform              | 2.8          | D03,J        | 4.0       | 1.3    | ug/L       | 4.00      | 09/30/10 14:25 | DHC  | 1012207     | 8260B   |
| Semivolatile Organics b | oy GC/MS     |              |           |        |            |           |                |      |             |         |
| Butyl benzyl phthalate  | 0.72         | J            | 9.5       | 0.40   | ug/L       | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C   |
| Diethyl phthalate       | 1.5          | J            | 9.5       | 0.21   | ug/L       | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C   |
| Di-n-butyl phthalate    | 1.1          | J            | 9.5       | 0.30   | ug/L       | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C   |
| Organochlorine Pesticio | des by EPA N | lethod 8081A |           |        |            |           |                |      |             |         |
| 4,4'-DDD                | 0.25         |              | 0.24      | 0.043  | ug/L       | 5.00      | 09/28/10 23:09 | LMW  | 1011862     | 8081A   |
| 4,4'-DDT                | 0.20         | J            | 0.24      | 0.052  | ug/L       | 5.00      | 09/28/10 23:09 | LMW  | 1011862     | 8081A   |
| beta-BHC                | 0.21         | J            | 0.24      | 0.12   | ug/L       | 5.00      | 09/28/10 23:09 | LMW  | 1011862     | 8081A   |
| Dieldrin                | 0.14         | J            | 0.24      | 0.046  | ug/L       | 5.00      | 09/28/10 23:09 | LMW  | 1011862     | 8081A   |
| Endosulfan I            | 0.070        | J            | 0.24      | 0.052  | ug/L       | 5.00      | 09/28/10 23:09 | LMW  | 1011862     | 8081A   |
| Endosulfan II           | 0.14         | J            | 0.24      | 0.057  | ug/L       | 5.00      | 09/28/10 23:09 | LMW  | 1011862     | 8081A   |
| Endosulfan sulfate      | 0.092        | J            | 0.24      | 0.074  | ug/L       | 5.00      | 09/28/10 23:09 | LMW  | 1011862     | 8081A   |
| gamma-Chlordane         | 0.15         | J            | 0.24      | 0.052  | ug/L       | 5.00      | 09/28/10 23:09 | LMW  | 1011862     | 8081A   |
| Heptachlor              | 0.14         | J            | 0.24      | 0.040  | ug/L       | 5.00      | 09/28/10 23:09 | LMW  | 1011862     | 8081A   |
| Methoxychlor            | 0.16         | J            | 0.24      | 0.067  | ug/L       | 5.00      | 09/28/10 23:09 | LMW  | 10 1862     | 8081A   |
| Total Metals by SW 846  | Series Metho | ods          |           |        |            |           |                |      |             |         |
| Barium                  | 0.0687       |              | 0.0020    | NR     | mg/L       | 1.00      | 09/28/10 23:21 | MxM  | 1011960     | 6010B   |
| Calcium                 | 150          |              | 0.5       | NR     | mg/L       | 1.00      | 09/28/10 23:21 | MxM  | 1011960     | 6010B   |
| Magnesium               | 151          |              | 0.200     | NR     | mg/L       | 1.00      | 09/28/10 23:21 | MxM  | 1011960     | 6010B   |
| Manganese               | 0.315        |              | 0.0030    | NR     | mg/L       | 1.00      | 09/28/10 23:21 | MxM  | 10 1960     | 6010B   |
| Potassium               | 12.2         |              | 0.500     | NR     | mg/L       | 1.00      | 09/29/10 12:47 | DAN  | 10 1960     | 6010B   |
| Sodium                  | 34.4         |              | 1.0       | NR     | mg/L       | 1.00      | 09/29/10 12:47 | DAN  | 10 1960     | 6010B   |

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THE LEADER IN ENVIRONMENTAL TESTING

| Benchmark Environmental & Engineering Science | Work Order: RTI1555   | Received: | 09/24/10       |
|---|---|-----------|----------------|
| 2558 Hamburg Turnpike, Suite 300              |   | Reported: | 10/15/10 09:06 |
| Lackawanna, NY 14218                          | Project: Benchmark - 295 Maryland St. site<br>Project Number: TURN-0066 |           |                |

# Sample Summary

| Sample Identification | Lab Number | Client Matrix | Date/Time<br>Sampled | Date/Time<br>Received | Sample<br>Qualifiers |
|-----------------------|------------|---------------|----------------------|-----------------------|----------------------|
| MW-1                  | RTI1555-01 | Water         | 09/23/10 10:20       | 09/24/10 15:10        |                      |
| MW-2                  | RTI1555-02 | Water         | 09/23/10 13:35       | 09/24/10 15:10        |                      |
| MW-3                  | RTI1555-03 | Water         | 09/23/10 12:25       | 09/24/10 15:10        |                      |
| MW-4                  | RTI1555-04 | Water         | 09/23/10 11:20       | 09/24/10 15:10        |                      |
| TRIP BLANK            | RTI1555-05 | Water         | 09/24/10             | 09/24/10 15:10        |                      |

TestAmerica

# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                              |             |            | Α   | nalytical F | Report       |          |                |       |             |         |
|------------------------------|-------------|------------|-----|-------------|--------------|----------|----------------|-------|-------------|---------|
|                              | Sample      | Data       |     |             |              | Dil      | Date           | Lab   |             |         |
| Analyte                      | Result      | Qualifiers | RL  | MDL         | Units        | Fac      | Analyzed       | Tech  | Batch       | Method  |
| Sample ID: RTI1555-01 (M     | IW-1 - Wate | r)         |     |             | Sam          | pled: 09 | /23/10 10:20   | Recv  | rd: 09/24/1 | 0 09:00 |
| Volatile Organic Compou      | inds by EPA | A 8260B    |     |             |              |          |                |       |             |         |
| 1,1,1-Trichloroethane        | ND          |            | 1.0 | 0.82        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| 1,1,2,2-Tetrachloroethane    | ND          |            | 1.0 | 0.21        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| 1,1,2-Trichloroethane        | ND          |            | 1.0 | 0.23        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| 1,1,2-Trichloro-1,2,2-triflu | ND          |            | 1.0 | 0.31        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| oroethane                    |             |            |     |             |              |          |                |       |             |         |
| 1,1-Dichloroethane           | ND          |            | 1.0 | 0.38        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| 1,1-Dichloroethene           | ND          |            | 1.0 | 0.29        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| 1,2,4-Trichlorobenzene       | ND          |            | 1.0 | 0.41        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| 1,2-Dibromo-3-chloroprop     | ND          |            | 1.0 | 0.39        | ug/L         | 1.00     | 09/29/10 23:40 | NIVID | 1012169     | 8260B   |
| ane<br>1,2-Dibromoethane     | ND          |            | 1.0 | 0.73        | ug/L         | 1.00     | 09/29/10 23:40 |       | 10 2169     | 8260B   |
| 1.2-Dichlorobenzene          | ND          |            | 1.0 | 0.79        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| 1,2-Dichloroethane           | ND          |            | 1.0 | 0.21        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| 1,2-Dichloropropane          | ND          |            | 1.0 | 0.72        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| 1,3-Dichlorobenzene          | ND          |            | 1.0 | 0.78        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| 1.4-Dichlorobenzene          | ND          |            | 1.0 | 0.84        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| 2-Butanone                   | ND          |            | 10  | 1.3         | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| 2-Hexanone                   | ND          |            | 5.0 | 1.2         | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| 4-Methyl-2-pentanone         | ND          |            | 5.0 | 2.1         | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| Acetone                      | 5.0         | J          | 10  | 3.0         | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| Benzene                      | ND          |            | 1.0 | 0.41        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| Bromodichloromethane         | ND          |            | 1.0 | 0.39        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| Bromoform                    | ND          |            | 1.0 | 0.26        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| Bromomethane                 | ND          |            | 1.0 | 0.69        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| Carbon disulfide             | ND          |            | 1.0 | 0.19        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| Carbon Tetrachloride         | ND          |            | 1.0 | 0.27        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| Chlorobenzene                | ND          |            | 1.0 | 0.75        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| Dibromochloromethane         | ND          |            | 1.0 | 0.32        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| Chloroethane                 | ND          |            | 1.0 | 0.32        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| Chloroform                   | 2.0         |            | 1.0 | 0.34        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| Chloromethane                | ND          |            | 1.0 | 0.35        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| cis-1,2-Dichloroethene       | ND          |            | 1.0 | 0.81        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| cis-1,3-Dichloropropene      | ND          |            | 1.0 | 0.36        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| Cyclohexane                  | ND          |            | 1.0 | 0.18        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| Dichlorodifluoromethane      | ND          |            | 1.0 | 0.68        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| Ethylbenzene                 | ND          |            | 1.0 | 0.74        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| lsopropylbenzene             | ND          |            | 1.0 | 0.79        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| Methyl Acetate               | ND          |            | 1.0 | 0.50        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| Methyl-t-Butyl Ether         | ND          |            | 1.0 | 0.16        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 1012169     | 8260B   |
| (MTBE)                       |             |            |     |             |              |          |                |       |             |         |
| Methylcyclohexane            | ND          |            | 1.0 | 0.16        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| Methylene Chloride           | ND          |            | 1.0 | 0.44        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| Styrene                      | ND          |            | 1.0 | 0.73        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| Tetrachloroethene            | ND          |            | 1.0 | 0.36        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
|                              | ND          |            | 1.0 | 0.51        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| trans-1,2-Dichloroethene     | ND          |            | 1.0 | 0.90        | ug/L         | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| trans-1,3-Dichloropropen     | ND          |            | 1.0 | 0.37        | ug/L         | 1.00     | 09/29/10 23:40 | NMD   | 10 2169     | 8260B   |
| e<br>Trichloroethene         | ND          |            | 1.0 | 0.46        | ug/L         | 1.00     | 09/29/10 23:40 |       | 10 2169     | 8260B   |
| Trichlorofluoromethane       | ND          |            | 1.0 | 0.40        | ug/L<br>ug/L | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
| Vinyl chloride               | ND          |            | 1.0 | 0.88        | ug/L<br>ug/L | 1.00     | 09/29/10 23:40 |       | 1012169     | 8260B   |
|                              |             |            | 1.0 | 0.90        | ug/L         | 1.00     | 03/23/10/23.40 |       | 1012103     | 02000   |

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# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                            |                |               | A            | Analytical F | Report |           |                |      |             |         |
|----------------------------|----------------|---------------|--------------|--------------|--------|-----------|----------------|------|-------------|---------|
|                            | Sample         | Data          |              |              |        | Dil       | Date           | Lab  |             |         |
| Analyte                    | Result         | Qualifiers    | RL           | MDL          | Units  | Fac       | Analyzed       | Tech | Batch       | Method  |
| Sample ID: RTI1555-01 (N   | IW-1 - Wateı   | r) - cont.    |              |              | Sam    | pled: 09/ | 23/10 10:20    | Recv | vd: 09/24/1 | 0 09:00 |
| Volatile Organic Compo     | unds by EPA    | A 8260B - cor | <u>nt.</u>   |              |        |           |                |      |             |         |
| Xylenes, total             | ND             |               | 2.0          | 0.66         | ug/L   | 1.00      | 09/29/10 23:40 | NMD  | 1012169     | 8260B   |
| 1,2-Dichloroethane-d4      | 96 %           |               | Surr Limits: | (66-137%)    |        |           | 09/29/10 23:40 |      | 10/2169     | 8260B   |
| 4-Bromofluorobenzene       | 106 %          |               | Surr Limits: | . ,          |        |           | 09/29/10 23:40 |      | 10/2169     | 8260B   |
| Toluene-d8                 | 104 %          |               | Surr Limits: | (71-126%)    |        |           | 09/29/10 23:40 | NMD  | 10/2169     | 8260B   |
| Semivolatile Organics by   | <u>/ GC/MS</u> |               |              |              |        |           |                |      |             |         |
| 2,4,5-Trichlorophenol      | ND             |               | 24           | 0.46         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| 2,4,6-Trichlorophenol      | ND             |               | 9.6          | 0.59         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| 2,4-Dichlorophenol         | ND             |               | 9.6          | 0.49         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| 2,4-Dimethylphenol         | ND             |               | 9.6          | 0.48         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| 2,4-Dinitrophenol          | ND             |               | 48           | 2.1          | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| 2,4-Dinitrotoluene         | ND             |               | 9.6          | 0.43         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| 2,6-Dinitrotoluene         | ND             |               | 9.6          | 0.38         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| 2-Chloronaphthalene        | ND             |               | 9.6          | 0.44         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| 2-Chlorophenol             | ND             |               | 9.6          | 0.51         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| 2-Methylnaphthalene        | ND             |               | 9.6          | 0.58         | ug/L   | 1.00      | 10/09/10 17:00 |      | 1011861     | 8270C   |
|                            | ND             |               | 9.6          | 0.38         | -      | 1.00      |                |      | 1011861     | 8270C   |
| 2-Methylphenol             |                |               |              |              | ug/L   |           | 10/09/10 17:00 |      |             |         |
| 2-Nitroaniline             | ND             |               | 48           | 0.40         | ug/L   | 1.00      | 10/09/10 17:00 |      | 1011861     | 8270C   |
| 2-Nitrophenol              | ND             |               | 9.6          | 0.46         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| 3,3'-Dichlorobenzidine     | ND             |               | 19           | 0.38         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| 3-Nitroaniline             | ND             |               | 48           | 0.46         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| 4,6-Dinitro-2-methylphen   | ND             |               | 48           | 2.1          | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| ol<br>4-Bromophenyl phenyl | ND             |               | 9.6          | 0.43         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| ether                      |                |               |              |              | 0      |           |                |      |             |         |
| 4-Chloro-3-methylphenol    | ND             |               | 9.6          | 0.43         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| 4-Chloroaniline            | ND             |               | 9.6          | 0.57         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| 4-Chlorophenyl phenyl      | ND             |               | 9.6          | 0.34         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| ether                      | ne -           |               | 0.0          | 0.01         | ug/L   | 1.00      |                |      | 1011001     | 02100   |
| 4-Methylphenol             | ND             |               | 4.8          | 0.35         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| 4-Nitroaniline             | ND             |               | 48           | 0.24         | ug/L   | 1.00      | 10/09/10 17:00 |      | 1011861     | 8270C   |
| 4-Nitrophenol              | ND             |               | 48           | 1.5          | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 1011861     | 8270C   |
| •                          | ND             |               | 40<br>9.6    | 0.39         | -      | 1.00      | 10/09/10 17:00 | MKP  | 1011861     | 8270C   |
|                            |                |               |              |              | ug/L   |           |                |      |             |         |
| Acenaphthylene             | ND             |               | 9.6          | 0.37         | ug/L   | 1.00      | 10/09/10 17:00 |      | 1011861     | 8270C   |
| Acetophenone               | ND             |               | 9.6          | 0.52         | ug/L   | 1.00      | 10/09/10 17:00 |      | 1011861     | 8270C   |
| Anthracene                 | ND             |               | 9.6          | 0.27         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| Atrazine                   | ND             |               | 9.6          | 0.44         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| Benzaldehyde               | ND             |               | 48           | 0.26         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| Benzo(a)anthracene         | ND             |               | 9.6          | 0.35         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| Benzo(a)pyrene             | ND             |               | 9.6          | 0.45         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Benzo(b)fluoranthene       | ND             |               | 9.6          | 0.33         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Benzo(ghi)perylene         | ND             |               | 9.6          | 0.34         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Benzo(k)fluoranthene       | ND             |               | 9.6          | 0.70         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Biphenyl                   | ND             |               | 9.6          | 0.63         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| Bis(2-chloroethoxy)metha   | ND             |               | 9.6          | 0.34         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| ne                         |                |               |              |              |        |           |                |      |             |         |
| Bis(2-chloroethyl)ether    | ND             |               | 9.6          | 0.38         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| 2,2'-Oxybis(1-Chloroprop   | ND             |               | 9.6          | 0.50         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| ane)<br>Bis(2-ethylhexyl)  | ND             |               | 9.6          | 1.7          | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| ohthalate                  |                |               |              |              | 5      |           |                |      |             |         |

TestAmerica

# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                          |              |             | A            | Analytical F | Report |           |                |      |             |         |
|--------------------------|--------------|-------------|--------------|--------------|--------|-----------|----------------|------|-------------|---------|
|                          | Sample       | Data        |              |              |        | Dil       | Date           | Lab  |             |         |
| Analyte                  | Result       | Qualifiers  | RL           | MDL          | Units  | Fac       | Analyzed       | Tech | Batch       | Method  |
| Sample ID: RTI1555-01 (N | IW-1 - Water | r) - cont.  |              |              | Sam    | pled: 09/ | /23/10 10:20   | Recv | /d: 09/24/1 | 0 09:00 |
| Semivolatile Organics by | y GC/MS - co | ont.        |              |              |        |           |                |      |             |         |
| Butyl benzyl phthalate   | 0.51         | J           | 9.6          | 0.40         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Caprolactam              | ND           |             | 9.6          | 2.1          | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Carbazole                | ND           |             | 4.8          | 0.29         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Chrysene                 | ND           |             | 9.6          | 0.32         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Dibenzo(a,h)anthracene   | ND           |             | 9.6          | 0.40         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Dibenzofuran             | ND           |             | 9.6          | 0.49         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Diethyl phthalate        | ND           |             | 9.6          | 0.21         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| Dimethyl phthalate       | ND           |             | 9.6          | 0.35         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| Di-n-butyl phthalate     | 0.51         | J           | 9.6          | 0.30         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Di-n-octyl phthalate     | ND           |             | 9.6          | 0.45         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Fluoranthene             | ND           |             | 9.6          | 0.38         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| Fluorene                 | ND           |             | 9.6          | 0.35         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| Hexachlorobenzene        | ND           |             | 9.6          | 0.49         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Hexachlorobutadiene      | ND           |             | 9.6          | 0.65         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| lexachlorocyclopentadie  | ND           |             | 9.6          | 0.57         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| ie<br>Iexachloroethane   | ND           |             | 9.6          | 0.57         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| ndeno(1,2,3-cd)pyrene    | ND           |             | 9.6          | 0.45         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| sophorone                | ND           |             | 9.6          | 0.41         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Japhthalene              | ND           |             | 9.6          | 0.73         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| Vitrobenzene             | ND           |             | 9.6          | 0.28         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| I-Nitrosodi-n-propylamin | ND           |             | 9.6          | 0.52         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| :                        |              |             |              |              |        |           |                |      |             |         |
| N-Nitrosodiphenylamine   | ND           |             | 9.6          | 0.49         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Pentachlorophenol        | ND           |             | 48           | 2.1          | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| Phenanthrene             | ND           |             | 9.6          | 0.42         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| Phenol                   | ND           |             | 9.6          | 0.38         | ug/L   | 1.00      | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| Pyrene                   | ND           |             | 9.6          | 0.33         | ug/L   | 1.00      | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| 2,4,6-Tribromophenol     | 121 %        |             | Surr Limits: | (52-132%)    |        |           | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| 2-Fluorobiphenyl         | 89 %         |             | Surr Limits: | (48-120%)    |        |           | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| 2-Fluorophenol           | 46 %         |             | Surr Limits: | (20-120%)    |        |           | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| Nitrobenzene-d5          | 88 %         |             | Surr Limits: | (46-120%)    |        |           | 10/09/10 17:00 |      | 10 1861     | 8270C   |
| Phenol-d5                | 33 %         |             | Surr Limits: | (16-120%)    |        |           | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| o-Terphenyl-d14          | 63 %         |             | Surr Limits: | (24-136%)    |        |           | 10/09/10 17:00 | MKP  | 10 1861     | 8270C   |
| Organochlorine Pesticid  | es by EPA N  | lethod 8081 | <u>A</u>     |              |        |           |                |      |             |         |
| 1,4'-DDD                 | ND           |             | 0.047        | 0.0087       | ug/L   | 1.00      | 09/28/10 20:45 |      | 10 1862     | 8081A   |
| 1,4'-DDE                 | ND           |             | 0.047        | 0.011        | ug/L   | 1.00      | 09/28/10 20:45 |      | 10 1862     | 8081A   |
| 1,4'-DDT                 | 0.082        |             | 0.047        | 0.010        | ug/L   | 1.00      | 09/28/10 20:45 |      | 10 1862     | 8081A   |
| Aldrin                   | ND           |             | 0.047        | 0.0062       | ug/L   | 1.00      | 09/28/10 20:45 |      | 10 1862     | 8081A   |
| alpha-BHC                | ND           |             | 0.047        | 0.0062       | ug/L   | 1.00      | 09/28/10 20:45 |      | 10 1862     | 8081A   |
| Ipha-Chlordane           | ND           |             | 0.047        | 0.014        | ug/L   | 1.00      | 09/28/10 20:45 |      | 10 1862     | 8081A   |
| eta-BHC                  | ND           |             | 0.047        | 0.023        | ug/L   | 1.00      | 09/28/10 20:45 |      | 10 1862     | 8081A   |
| Chlordane                | ND           |             | 0.47         | 0.027        | ug/L   | 1.00      | 09/28/10 20:45 |      | 10 1862     | 8081A   |
| lelta-BHC                | ND           |             | 0.047        | 0.0095       | ug/L   | 1.00      | 09/28/10 20:45 |      | 10 1862     | 8081A   |
| Dieldrin                 | ND           |             | 0.047        | 0.0092       | ug/L   | 1.00      | 09/28/10 20:45 |      | 10 1862     | 8081A   |
| Endosulfan I             | ND           |             | 0.047        | 0.010        | ug/L   | 1.00      | 09/28/10 20:45 |      | 10 1862     | 8081A   |
| Endosulfan II            | 0.069        |             | 0.047        | 0.011        | ug/L   | 1.00      | 09/28/10 20:45 | LMW  | 10 1862     | 8081A   |
| ndosulfan sulfate        | ND           |             | 0.047        | 0.015        | ug/L   | 1.00      | 09/28/10 20:45 | LMW  | 10 1862     | 8081A   |
| Endrin                   | ND           |             | 0.047        | 0.013        | ug/L   | 1.00      | 09/28/10 20:45 | LMW  | 10 1862     | 8081A   |
| Endrin aldehyde          | ND           |             | 0.047        | 0.015        | ug/L   | 1.00      | 09/28/10 20:45 | LMW  | 10 1862     | 8081A   |

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# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                              |              |             | A               | Analytical F | Report |              |                                  |            |                    |              |
|------------------------------|--------------|-------------|-----------------|--------------|--------|--------------|----------------------------------|------------|--------------------|--------------|
|                              | Sample       | Data        |                 |              |        | Dil          | Date                             | Lab        |                    |              |
| Analyte                      | Result       | Qualifiers  | RL              | MDL          | Units  | Fac          | Analyzed                         | Tech       | Batch              | Method       |
| Sample ID: RTI1555-01(       | MW-1 - Wate  | r) - cont.  |                 |              | Sam    | pled: 09/    | /23/10 10:20                     | Recv       | d: 09/24/1         | 0 09:00      |
| Organochlorine Pestici       | des by EPA N | lethod 8081 | <u> - cont.</u> |              |        |              |                                  |            |                    |              |
| Endrin ketone                | ND           |             | 0.047           | 0.011        | ug/L   | 1.00         | 09/28/10 20:45                   | LMW        | 10 1862            | 8081A        |
| gamma-BHC (Lindane)          | ND           |             | 0.047           | 0.0057       | ug/L   | 1.00         | 09/28/10 20:45                   | LMW        | 10 1862            | 8081A        |
| gamma-Chlordane              | 0.036        | J           | 0.047           | 0.010        | ug/L   | 1.00         | 09/28/10 20:45                   |            | 10 1862            | 8081A        |
| Heptachlor                   | ND           |             | 0.047           | 0.0080       | ug/L   | 1.00         | 09/28/10 20:45                   |            | 10 1862            | 8081A        |
| leptachlor epoxide           | 0.018        | J           | 0.047           | 0.0050       | ug/L   | 1.00         | 09/28/10 20:45                   |            | 10 1862            | 8081A        |
| /lethoxychlor                | 0.059        |             | 0.047           | 0.013        | ug/L   | 1.00         | 09/28/10 20:45                   |            | 10 1862            | 8081A        |
| oxaphene                     | ND           |             | 0.47            | 0.11         | ug/L   | 1.00         | 09/28/10 20:45                   | LMW        | 10 1862            | 8081A        |
| Decachlorobiphenyl           | 52 %         |             | Surr Limits:    | (15-139%)    |        |              | 09/28/10 20:45                   | LMW        | 10 1862            | 8081A        |
| etrachloro-m-xylene          | 97 %         |             | Surr Limits:    | (30-139%)    |        |              | 09/28/10 20:45                   | LMW        | 10 1862            | 8081A        |
| olychlorinated Biphen        | yls by EPA N | lethod 8082 |                 |              |        |              |                                  |            |                    |              |
| vroclor 1016                 | ND           | QSU         | 0.47            | 0.17         | ug/L   | 1.00         | 09/28/10 23:19                   | JxM        | 10 1863            | 8082         |
| Aroclor 1221                 | ND           | QSU         | 0.47            | 0.17         | ug/L   | 1.00         | 09/28/10 23:19                   | JxM        | 10 1863            | 8082         |
| vroclor 1232                 | ND           | QSU         | 0.47            | 0.17         | ug/L   | 1.00         | 09/28/10 23:19                   | JxM        | 10 1863            | 8082         |
| vroclor 1242                 | ND           | QSU         | 0.47            | 0.17         | ug/L   | 1.00         | 09/28/10 23:19                   | JxM        | 10 1863            | 8082         |
| Aroclor 1248                 | ND           | QSU         | 0.47            | 0.17         | ug/L   | 1.00         | 09/28/10 23:19                   | JxM        | 1011863            | 8082         |
| vroclor 1254<br>vroclor 1260 | ND<br>ND     | QSU<br>QSU  | 0.47<br>0.47    | 0.24<br>0.24 | ug/L   | 1.00<br>1.00 | 09/28/10 23:19<br>09/28/10 23:19 | JxM<br>JxM | 10 1863<br>10 1863 | 8082<br>8082 |
|                              |              |             |                 |              | ug/L   | 1.00         |                                  | JXIVI      |                    |              |
| Decachlorobiphenyl           | 45 %         | QSU         | Surr Limits:    | • •          |        |              | 09/28/10 23:19                   | JxM        | 10 1863            | 8082         |
| etrachloro-m-xylene          | 72 %         | QSU         | Surr Limits:    | (35-121%)    |        |              | 09/28/10 23:19                   | JxM        | 10 1863            | 8082         |
| otal Metals by SW 846        |              | ods         |                 |              |        |              |                                  |            |                    |              |
| luminum                      | ND           |             | 0.200           | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 10 1960            | 6010B        |
| ntimony                      | ND           |             | 0.0200          | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 10 1960            | 6010B        |
| rsenic                       | ND           |             | 0.0100          | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 10 1960            | 6010B        |
| arium                        | 0.0542       |             | 0.0020          | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 10 1960            | 6010B        |
| Beryllium                    | ND           |             | 0.0020          | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 10 1960            | 6010B        |
| Cadmium                      | ND           |             | 0.0010          | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 10 1960            | 6010B        |
| Calcium                      | 75.6         |             | 0.5             | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 10 1960            | 6010B        |
| Chromium                     | ND           |             | 0.0040          | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 10 1960            | 6010B        |
| Cobalt                       | ND           |             | 0.0040          | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 10 1960            | 6010B        |
| Copper                       | ND           |             | 0.0100          | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 10 1960            | 6010B        |
| on                           | ND           |             | 0.050           | NR           | mg/L   | 1.00         | 09/29/10 12:30                   |            | 10 1960            | 6010B        |
| ead                          | ND           |             | 0.0050          | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 10 1960            | 6010B        |
| lagnesium                    | 45.3         |             | 0.200           | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 1011960            | 6010B        |
| langanese                    | 0.0739       |             | 0.0030          | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 10 1960            | 6010B        |
| lickel                       | ND           |             | 0.0100          | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 1011960            | 6010B        |
| Potassium                    | 4.50         |             | 0.500           | NR           | mg/L   | 1.00         | 09/29/10 12:30                   |            | 1011960            | 6010B        |
| elenium                      | ND           |             | 0.0150          | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 10 1960            | 6010B        |
| ilver                        | ND           |             | 0.0030          | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 1011960            | 6010B        |
| odium                        | 25.1         |             | 1.0             | NR           | mg/L   | 1.00         | 09/29/10 12:30                   |            | 1011960            | 6010B        |
| hallium                      | ND           |             | 0.0200          | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 1011960            | 6010B        |
| 'anadium<br>                 | ND           |             | 0.0050          | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 1011960            | 6010B        |
| linc                         | ND           |             | 0.0100          | NR           | mg/L   | 1.00         | 09/28/10 23:15                   |            | 10 1960            | 6010B        |
| lercury                      | ND           |             | 0.0002          | NR           | mg/L   | 1.00         | 09/30/10 12:25                   | JKK        | 10 2202            | 7470A        |
| eneral Chemistry Para        | ameters      |             |                 |              |        |              |                                  |            |                    |              |
| otal Cyanide                 | ND           | L           | 0.0100          | NR           | mg/L   | 1.00         | 10/01/10 15:04                   | RJF        | 10 2226            | 9012A        |

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# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                              |              |            | Α          | nalytical F | Report |           |                |      |             |         |
|------------------------------|--------------|------------|------------|-------------|--------|-----------|----------------|------|-------------|---------|
|                              | Sample       | Data       |            |             |        | Dil       | Date           | Lab  |             |         |
| Analyte                      | Result       | Qualifiers | RL         | MDL         | Units  | Fac       | Analyzed       | Tech | Batch       | Method  |
| Sample ID: RTI1555-02 (M     | IW-2 - Water | r)         |            |             | Sam    | pled: 09/ | 23/10 13:35    | Recv | vd: 09/24/1 | 0 09:00 |
| Volatile Organic Compou      | inds by EPA  | A 8260B    |            |             |        |           |                |      |             |         |
| 1,1,1-Trichloroethane        | ND           | <br>D03    | 5.0        | 4.1         | ug/L   | 5.00      | 09/30/10 00:03 |      | 10 2169     | 8260B   |
| 1,1,2,2-Tetrachloroethane    | ND           | D03        | 5.0        | 1.1         | ug/L   | 5.00      | 09/30/10 00:03 |      | 1012169     | 8260B   |
| 1,1,2-Trichloroethane        | ND           | D03        | 5.0        | 1.2         | ug/L   | 5.00      | 09/30/10 00:03 |      | 1012169     | 8260B   |
| 1,1,2-Trichloro-1,2,2-triflu | ND           | D03        | 5.0        | 1.5         | ug/L   | 5.00      | 09/30/10 00:03 |      | 1012169     | 8260B   |
| oroethane                    |              |            |            |             | - 5    |           |                |      |             |         |
| 1,1-Dichloroethane           | ND           | D03        | 5.0        | 1.9         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 1012169     | 8260B   |
| 1,1-Dichloroethene           | ND           | D03        | 5.0        | 1.5         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 1012169     | 8260B   |
| 1,2,4-Trichlorobenzene       | ND           | D03        | 5.0        | 2.0         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 1012169     | 8260B   |
| 1,2-Dibromo-3-chloroprop     | ND           | D03        | 5.0        | 2.0         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 1012169     | 8260B   |
| ane                          |              |            |            |             |        |           |                |      |             |         |
| 1,2-Dibromoethane            | ND           | D03        | 5.0        | 3.6         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 1012169     | 8260B   |
| 1,2-Dichlorobenzene          | ND           | D03        | 5.0        | 4.0         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 1012169     | 8260B   |
| 1,2-Dichloroethane           | ND           | D03        | 5.0        | 1.1         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| 1,2-Dichloropropane          | ND           | D03        | 5.0        | 3.6         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| 1,3-Dichlorobenzene          | ND           | D03        | 5.0        | 3.9         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| 1,4-Dichlorobenzene          | ND           | D03        | 5.0        | 4.2         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| 2-Butanone                   | ND           | D03        | 50         | 6.6         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| 2-Hexanone                   | ND           | D03        | 25         | 6.2         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| 4-Methyl-2-pentanone         | ND           | D03        | 25         | 10          | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Acetone                      | ND           | D03        | 50         | 15          | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Benzene                      | 38           | D03        | 5.0        | 2.0         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Bromodichloromethane         | ND           | D03        | 5.0        | 1.9         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 1012169     | 8260B   |
| Bromoform                    | ND           | D03        | 5.0        | 1.3         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 1012169     | 8260B   |
| Bromomethane                 | ND           | D03        | 5.0        | 3.4         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Carbon disulfide             | ND           | D03        | 5.0        | 0.97        | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Carbon Tetrachloride         | ND           | D03        | 5.0        | 1.3         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Chlorobenzene                | ND           | D03        | 5.0        | 3.8         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Dibromochloromethane         | ND           | D03        | 5.0        | 1.6         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Chloroethane                 | ND           | D03        | 5.0        | 1.6         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Chloroform                   | 4.2          | D03,J      | 5.0        | 1.7         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Chloromethane                | ND           | D03        | 5.0        | 1.7         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| cis-1,2-Dichloroethene       | ND           | D03        | 5.0        | 4.0         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| cis-1,3-Dichloropropene      | ND           | D03        | 5.0        | 1.8         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 1012169     | 8260B   |
| Cyclohexane                  | ND           | D03        | 5.0        | 0.90        | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Dichlorodifluoromethane      | ND           | D03        | 5.0        | 3.4         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Ethylbenzene                 | 39           | D03        | 5.0        | 3.7         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Isopropylbenzene             | ND           | D03        | 5.0        | 4.0         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Methyl Acetate               | ND           | D03        | 5.0        | 2.5         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Methyl-t-Butyl Ether         | ND           | D03        | 5.0        | 0.80        | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| (MTBE)                       |              |            |            |             |        |           |                |      |             |         |
| Methylcyclohexane            | ND           | D03        | 5.0        | 0.80        | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 1012169     | 8260B   |
| Methylene Chloride           | ND           | D03        | 5.0        | 2.2         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Styrene                      | ND           | D03        | 5.0        | 3.6         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| Tetrachloroethene            | ND           | D03        | 5.0        | 1.8         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 1012169     | 8260B   |
| Toluene                      | 18           | D03        | 5.0        | 2.6         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 1012169     | 8260B   |
| trans-1,2-Dichloroethene     | ND           | D03        | 5.0        | 4.5         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 1012169     | 8260B   |
| trans-1,3-Dichloropropen     | ND           | D03        | 5.0        | 1.8         | ug/L   | 5.00      | 09/30/10 00:03 | NMD  | 10 2169     | 8260B   |
| e<br>Trichloroothono         |              | D03        | <b>5</b> 0 | 2.2         | uc/l   | E 00      | 00/20/40 00:02 |      | 1012160     | 00600   |
| Trichloroethene              | ND           | D03        | 5.0        | 2.3         | ug/L   | 5.00      | 09/30/10 00:03 |      | 1012169     | 8260B   |
| Trichlorofluoromethane       |              | D03        | 5.0<br>5.0 | 4.4         | ug/L   | 5.00      | 09/30/10 00:03 |      | 1012169     | 8260B   |
| Vinyl chloride               | ND           | D03        | 5.0        | 4.5         | ug/L   | 5.00      | 09/30/10 00:03 | UNN  | 10 2169     | 8260B   |

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# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                                |              |              | A                     | Analytical F | Report       |              |                |      |             |                |
|--------------------------------|--------------|--------------|-----------------------|--------------|--------------|--------------|----------------|------|-------------|----------------|
|                                | Sample       | Data         |                       |              |              | Dil          | Date           | Lab  |             |                |
| Analyte                        | Result       | Qualifiers   | RL                    | MDL          | Units        | Fac          | Analyzed       | Tech | Batch       | Method         |
| Sample ID: RTI1555-02 (N       | IW-2 - Wateı | r) - cont.   |                       |              | Sam          | pled: 09/    | 23/10 13:35    | Recv | /d: 09/24/1 | 0 09:00        |
| Volatile Organic Compou        | unds by EPA  | A 8260B - co | <u>nt.</u>            |              |              |              |                |      |             |                |
| Xylenes, total                 | 97           | D03          | 10                    | 3.3          | ug/L         | 5.00         | 09/30/10 00:03 | NMD  | 10 2169     | 8260B          |
| 1,2-Dichloroethane-d4          | 96 %         | D03          | Surr Limits:          | (66-137%)    |              |              | 09/30/10 00:03 |      | 10/2169     | 8260B          |
| 4-Bromofluorobenzene           | 106 %        | D03          | Surr Limits:          | ` /          |              |              | 09/30/10 00:03 |      | 10/2169     | 8260B          |
| Toluene-d8                     | 104 %        | D03          | Surr Limits:          | (71-126%)    |              |              | 09/30/10 00:03 | NMD  | 10/2169     | 8260B          |
| Semivolatile Organics by       | <u>GC/MS</u> |              |                       |              |              |              |                |      |             |                |
| 2,4,5-Trichlorophenol          | ND           |              | 24                    | 0.45         | ug/L         | 1.00         | 10/09/10 17:24 | MKP  | 10 1861     | 8270C          |
| 2,4,6-Trichlorophenol          | ND           |              | 9.4                   | 0.58         | ug/L         | 1.00         | 10/09/10 17:24 | MKP  | 10 1861     | 8270C          |
| 2,4-Dichlorophenol             | ND           |              | 9.4                   | 0.48         | ug/L         | 1.00         | 10/09/10 17:24 | MKP  | 10 1861     | 8270C          |
| 2,4-Dimethylphenol             | ND           |              | 9.4                   | 0.47         | ug/L         | 1.00         | 10/09/10 17:24 | MKP  | 10 1861     | 8270C          |
| 2,4-Dinitrophenol              | ND           |              | 47                    | 2.1          | ug/L         | 1.00         | 10/09/10 17:24 | MKP  | 10 1861     | 8270C          |
| 2,4-Dinitrotoluene             | ND           |              | 9.4                   | 0.42         | ug/L         | 1.00         | 10/09/10 17:24 |      | 10 1861     | 8270C          |
| 2.6-Dinitrotoluene             | ND           |              | 9.4                   | 0.38         | ug/L         | 1.00         | 10/09/10 17:24 |      | 1011861     | 8270C          |
| 2-Chloronaphthalene            | ND           |              | 9.4                   | 0.43         | ug/L         | 1.00         | 10/09/10 17:24 | MKP  | 1011861     | 8270C          |
| 2-Chlorophenol                 | ND           |              | 9.4                   | 0.50         | ug/L         | 1.00         | 10/09/10 17:24 |      | 1011861     | 8270C          |
| 2-Methylnaphthalene            | ND           |              | 9.4                   | 0.57         | ug/L         | 1.00         | 10/09/10 17:24 |      | 1011861     | 8270C          |
| 2-Methylphenol                 | 1.3          | J            | 9.4                   | 0.38         | ug/L         | 1.00         | 10/09/10 17:24 |      | 1011861     | 8270C          |
| 2-Nitroaniline                 | ND           | 5            | 9. <del>4</del><br>47 | 0.40         |              | 1.00         | 10/09/10 17:24 |      | 1011861     | 8270C          |
|                                | ND           |              | 9.4                   | 0.40         | ug/L         | 1.00         |                |      | 1011861     | 8270C<br>8270C |
| 2-Nitrophenol                  |              |              |                       |              | ug/L         |              | 10/09/10 17:24 |      |             |                |
| 3,3'-Dichlorobenzidine         | ND           |              | 19                    | 0.38         | ug/L         | 1.00         | 10/09/10 17:24 |      | 1011861     | 8270C          |
| 3-Nitroaniline                 | ND           |              | 47                    | 0.45         | ug/L         | 1.00         | 10/09/10 17:24 |      | 1011861     | 8270C          |
| 4,6-Dinitro-2-methylphen       | ND           |              | 47                    | 2.1          | ug/L         | 1.00         | 10/09/10 17:24 | MKP  | 10 1861     | 8270C          |
| ol<br>4-Bromophenyl phenyl     | ND           |              | 9.4                   | 0.42         | ug/L         | 1.00         | 10/09/10 17:24 | MKP  | 10 1861     | 8270C          |
| ether                          |              |              |                       |              | 0            |              |                |      |             |                |
| 4-Chloro-3-methylphenol        | ND           |              | 9.4                   | 0.42         | ug/L         | 1.00         | 10/09/10 17:24 | MKP  | 10 1861     | 8270C          |
| 4-Chloroaniline                | ND           |              | 9.4                   | 0.56         | ug/L         | 1.00         | 10/09/10 17:24 | MKP  | 10 1861     | 8270C          |
| 4-Chlorophenyl phenyl ether    | ND           |              | 9.4                   | 0.33         | ug/L         | 1.00         | 10/09/10 17:24 | MKP  | 10 1861     | 8270C          |
| 4-Methylphenol                 | ND           |              | 4.7                   | 0.34         | ug/L         | 1.00         | 10/09/10 17:24 | MKP  | 10 1861     | 8270C          |
| 4-Nitroaniline                 | ND           |              | 47                    | 0.24         | ug/L         | 1.00         | 10/09/10 17:24 |      | 10 1861     | 8270C          |
| 4-Nitrophenol                  | ND           |              | 47                    | 1.4          | ug/L         | 1.00         | 10/09/10 17:24 |      | 1011861     | 8270C          |
| Acenaphthene                   | ND           |              | 9.4                   | 0.39         | ug/L         | 1.00         | 10/09/10 17:24 | MKP  | 1011861     | 8270C          |
| Acenaphthylene                 | ND           |              | 9.4                   | 0.36         | ug/L         | 1.00         | 10/09/10 17:24 |      | 1011861     | 8270C          |
|                                |              |              |                       |              | -            |              |                |      |             |                |
| Acetophenone                   | 2.8          | J            | 9.4                   | 0.51         | ug/L         | 1.00         | 10/09/10 17:24 |      | 1011861     | 8270C          |
| Anthracene                     | ND           |              | 9.4                   | 0.26         | ug/L         | 1.00         | 10/09/10 17:24 |      | 1011861     | 8270C          |
| Atrazine                       | ND           |              | 9.4                   | 0.43         | ug/L         | 1.00         | 10/09/10 17:24 |      | 1011861     | 8270C          |
| Benzaldehyde                   | ND           |              | 47                    | 0.25         | ug/L         | 1.00         | 10/09/10 17:24 |      | 1011861     | 8270C          |
| Benzo(a)anthracene             | 0.35         | J            | 9.4                   | 0.34         | ug/L         | 1.00         | 10/09/10 17:24 |      | 10 1861     | 8270C          |
| Benzo(a)pyrene                 | ND           |              | 9.4                   | 0.44         | ug/L         | 1.00         | 10/09/10 17:24 |      | 10 1861     | 8270C          |
| Benzo(b)fluoranthene           | ND           |              | 9.4                   | 0.32         | ug/L         | 1.00         | 10/09/10 17:24 |      | 10 1861     | 8270C          |
| Benzo(ghi)perylene             | ND           |              | 9.4                   | 0.33         | ug/L         | 1.00         | 10/09/10 17:24 |      | 10 1861     | 8270C          |
| Benzo(k)fluoranthene           | ND           |              | 9.4                   | 0.69         | ug/L         | 1.00         | 10/09/10 17:24 |      | 10 1861     | 8270C          |
| Biphenyl                       | ND           |              | 9.4                   | 0.62         | ug/L         | 1.00         | 10/09/10 17:24 | MKP  | 10 1861     | 8270C          |
| Bis(2-chloroethoxy)metha       | ND           |              | 9.4                   | 0.33         | ug/L         | 1.00         | 10/09/10 17:24 | MKP  | 10 1861     | 8270C          |
| ne<br>Bis(2-chloroethyl)ether  | ND           |              | 9.4                   | 0.38         | uc/l         | 1 00         | 10/09/10 17:24 | MKD  | 10 1861     | 8270C          |
| 2,2'-Oxybis(1-Chloroprop       | ND<br>ND     |              | 9.4<br>9.4            | 0.38         | ug/L<br>ug/L | 1.00<br>1.00 | 10/09/10 17:24 |      | 1011861     | 8270C<br>8270C |
| ane)                           |              |              |                       |              | -            |              |                |      |             |                |
| Bis(2-ethylhexyl)<br>phthalate | ND           |              | 9.4                   | 1.7          | ug/L         | 1.00         | 10/09/10 17:24 | MKP  | 10 1861     | 8270C          |

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# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

| Analyte<br>Sample ID: RTI1555-02 (I<br>Semivolatile Organics b | Sample<br>Result | Data        |              |           |       |           |                |      |            |         |
|--|------------------|-------------|--------------|-----------|-------|-----------|----------------|------|------------|---------|
| Sample ID: RTI1555-02 (I                                       | Result           |             |              |           |       | Dil       | Date           | Lab  |            |         |
|  |                  | Qualifiers  | RL           | MDL       | Units | Fac       | Analyzed       | Tech | Batch      | Method  |
| <u>Semivolatile Organics b</u>                                 | MW-2 - Wate      | r) - cont.  |              |           | Sam   | pled: 09/ | 23/10 13:35    | Recv | d: 09/24/1 | 0 09:00 |
|  | y GC/MS - co     | ont.        |              |           |       |           |                |      |            |         |
| Butyl benzyl phthalate   | 0.71             | J           | 9.4          | 0.40      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| Caprolactam  | ND               |             | 9.4          | 2.1       | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| Carbazole  | ND               |             | 4.7          | 0.28      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| Chrysene   | ND               |             | 9.4          | 0.31      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| Dibenzo(a,h)anthracene   | ND               |             | 9.4          | 0.40      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| Dibenzofuran   | ND               |             | 9.4          | 0.48      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| Diethyl phthalate  | ND               |             | 9.4          | 0.21      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| Dimethyl phthalate   | ND               |             | 9.4          | 0.34      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| Di-n-butyl phthalate   | 0.65             | J           | 9.4          | 0.29      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| Di-n-octyl phthalate   | ND               |             | 9.4          | 0.44      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| Fluoranthene   | 0.47             | J           | 9.4          | 0.38      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| luorene  | ND               |             | 9.4          | 0.34      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| Hexachlorobenzene  | ND               |             | 9.4          | 0.48      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| Hexachlorobutadiene  | ND               |             | 9.4          | 0.64      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| Hexachlorocyclopentadie<br>ne                                  | ND               |             | 9.4          | 0.56      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| Hexachloroethane   | ND               |             | 9.4          | 0.56      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| Indeno(1,2,3-cd)pyrene   | ND               |             | 9.4          | 0.44      | ug/L  | 1.00      | 10/09/10 17:24 |      | 10 1861    | 8270C   |
| Isophorone   | ND               |             | 9.4          | 0.41      | ug/L  | 1.00      | 10/09/10 17:24 |      | 10 1861    | 8270C   |
| Naphthalene  | 21               |             | 9.4          | 0.72      | ug/L  | 1.00      | 10/09/10 17:24 |      | 10 1861    | 8270C   |
| Nitrobenzene   | ND               |             | 9.4          | 0.27      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| N-Nitrosodi-n-propylamin                                       | ND               |             | 9.4          | 0.51      | ug/L  | 1.00      | 10/09/10 17:24 |      | 10 1861    | 8270C   |
| e<br>N-Nitrosodiphenylamine                                    | ND               |             | 9.4          | 0.48      | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 10 1861    | 8270C   |
| Pentachlorophenol  | ND               |             | 47           | 2.1       | ug/L  | 1.00      | 10/09/10 17:24 | MKP  | 1011861    | 8270C   |
| Phenanthrene   | 0.58             | J           | 9.4          | 0.42      | ug/L  | 1.00      | 10/09/10 17:24 |      | 1011861    | 8270C   |
| Phenol   | ND               | 5           | 9.4          | 0.42      | ug/L  | 1.00      | 10/09/10 17:24 |      | 1011861    | 8270C   |
| Pyrene   | 0.42             | J           | 9.4<br>9.4   | 0.32      | ug/L  | 1.00      | 10/09/10 17:24 |      | 1011861    | 8270C   |
| 2,4,6-Tribromophenol   | 121 %            |             | Surr Limits: | (52-132%) | -     |           | 10/09/10 17:24 | MKP  | 10/1861    | 8270C   |
| 2-Fluorobiphenyl   | 82 %             |             | Surr Limits: |           |       |           | 10/09/10 17:24 |      | 10/1861    | 8270C   |
| 2-Fluorophenol   | 42 %             |             | Surr Limits: | . ,       |       |           | 10/09/10 17:24 |      | 10/1861    | 8270C   |
| Nitrobenzene-d5  | 82 %             |             | Surr Limits: | , ,       |       |           | 10/09/10 17:24 |      | 10/1861    | 8270C   |
| Phenol-d5  | 30 %             |             | Surr Limits: | , ,       |       |           | 10/09/10 17:24 |      | 10/1861    | 8270C   |
| p-Terphenyl-d14  | 50 %             |             | Surr Limits: | . ,       |       |           | 10/09/10 17:24 |      | 10/1861    | 8270C   |
| Organochlorine Pesticid  | les by EPA N     | lethod 8081 | <u>A</u>     |           |       |           |                |      |            |         |
| 4,4'-DDD   | ND               |             | 0.047        | 0.0087    | ug/L  | 1.00      | 09/28/10 21:21 | LMW  | 10 1862    | 8081A   |
| 4,4'-DDE   | ND               |             | 0.047        | 0.011     | ug/L  | 1.00      | 09/28/10 21:21 | LMW  | 10 1862    | 8081A   |
| 4,4'-DDT   | ND               |             | 0.047        | 0.010     | ug/L  | 1.00      | 09/28/10 21:21 | LMW  | 10 1862    | 8081A   |
| Aldrin   | ND               |             | 0.047        | 0.0062    | ug/L  | 1.00      | 09/28/10 21:21 | LMW  | 10 1862    | 8081A   |
| alpha-BHC  | ND               |             | 0.047        | 0.0062    | ug/L  | 1.00      | 09/28/10 21:21 | LMW  | 10 1862    | 8081A   |
| alpha-Chlordane  | ND               |             | 0.047        | 0.014     | ug/L  | 1.00      | 09/28/10 21:21 | LMW  | 10 1862    | 8081A   |
| peta-BHC   | 0.060            |             | 0.047        | 0.023     | ug/L  | 1.00      | 09/28/10 21:21 | LMW  | 10 1862    | 8081A   |
| Chlordane  | ND               |             | 0.47         | 0.027     | ug/L  | 1.00      | 09/28/10 21:21 | LMW  | 10 1862    | 8081A   |
| delta-BHC  | ND               |             | 0.047        | 0.0095    | ug/L  | 1.00      | 09/28/10 21:21 | LMW  | 10 1862    | 8081A   |
| Dieldrin   | ND               |             | 0.047        | 0.0092    | ug/L  | 1.00      | 09/28/10 21:21 | LMW  | 10 1862    | 8081A   |
| Endosulfan I   | ND               |             | 0.047        | 0.010     | ug/L  | 1.00      | 09/28/10 21:21 | LMW  | 10 1862    | 8081A   |
| Endosulfan II  | 0.11             |             | 0.047        | 0.011     | ug/L  | 1.00      | 09/28/10 21:21 |      | 10 1862    | 8081A   |
| Endosulfan sulfate   | ND               |             | 0.047        | 0.015     | ug/L  | 1.00      | 09/28/10 21:21 | LMW  | 10 1862    | 8081A   |
|  | ND               |             | 0.047        | 0.013     | ug/L  | 1.00      | 09/28/10 21:21 |      | 10 1862    | 8081A   |
| Endrin   |                  |             | 0.047        | 0.015     | ug/L  | 1.00      | 09/28/10 21:21 |      | 10 1862    | 8081A   |

TestAmerica Buffalo - 10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

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# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                         |                  |                    | A            | nalytical F | Report |            |                  |             |             |         |
|-------------------------|------------------|--------------------|--------------|-------------|--------|------------|------------------|-------------|-------------|---------|
| Analyte                 | Sample<br>Result | Data<br>Qualifiers | RL           | MDL         | Units  | Dil<br>Fac | Date<br>Analyzed | Lab<br>Tech | Batch       | Method  |
| ample ID: RTI1555-02 (I | MW-2 - Wate      |                    |              |             | Sam    | pled: 09/  | /23/10 13:35     |             | vd: 09/24/1 | 0 09:00 |
| Organochlorine Pesticic | les by EPA N     | lethod 8081        | A - cont.    |             |        |            |                  |             |             |         |
| Endrin ketone           | ND               |                    | 0.047        | 0.011       | ug/L   | 1.00       | 09/28/10 21:21   | LMW         | 10 1862     | 8081A   |
| gamma-BHC (Lindane)     | ND               |                    | 0.047        | 0.0057      | ug/L   | 1.00       | 09/28/10 21:21   | LMW         | 10 1862     | 8081A   |
| gamma-Chlordane         | 0.041            | J                  | 0.047        | 0.010       | ug/L   | 1.00       | 09/28/10 21:21   | LMW         | 1011862     | 8081A   |
| Heptachlor              | ND               |                    | 0.047        | 0.0080      | ug/L   | 1.00       | 09/28/10 21:21   | LMW         | 1011862     | 8081A   |
| Heptachlor epoxide      | ND               |                    | 0.047        | 0.0050      | ug/L   | 1.00       | 09/28/10 21:21   | LMW         | 1011862     | 8081A   |
| Methoxychlor            | 0.098            |                    | 0.047        | 0.013       | ug/L   | 1.00       | 09/28/10 21:21   | LMW         | 1011862     | 8081A   |
| Toxaphene               | ND               |                    | 0.47         | 0.11        | ug/L   | 1.00       | 09/28/10 21:21   | LMW         | 10 1862     | 8081A   |
| Decachlorobiphenyl      | 30 %             |                    | Surr Limits: | (15-139%)   |        |            | 09/28/10 21:21   | LMW         | 10/1862     | 8081A   |
| Tetrachloro-m-xylene    | 134 %            |                    | Surr Limits: | (30-139%)   |        |            | 09/28/10 21:21   | LMW         | 10 1862     | 8081A   |
| Polychlorinated Bipheny | yls by EPA N     | lethod 8082        |              |             |        |            |                  |             |             |         |
| Aroclor 1016            | ND               | QSU                | 0.47         | 0.17        | ug/L   | 1.00       | 09/28/10 23:37   | JxM         | 10 1863     | 8082    |
| Aroclor 1221            | ND               | QSU                | 0.47         | 0.17        | ug/L   | 1.00       | 09/28/10 23:37   | JxM         | 1011863     | 8082    |
| Aroclor 1232            | ND               | QSU                | 0.47         | 0.17        | ug/L   | 1.00       | 09/28/10 23:37   | JxM         | 1011863     | 8082    |
| Aroclor 1242            | ND               | QSU                | 0.47         | 0.17        | ug/L   | 1.00       | 09/28/10 23:37   | JxM         | 1011863     | 8082    |
| Aroclor 1248            | ND               | QSU                | 0.47         | 0.17        | ug/L   | 1.00       | 09/28/10 23:37   | JxM         | 1011863     | 8082    |
| Aroclor 1254            | ND               | QSU                | 0.47         | 0.24        | ug/L   | 1.00       | 09/28/10 23:37   | JxM         | 10 1863     | 8082    |
| Aroclor 1260            | ND               | QSU                | 0.47         | 0.24        | ug/L   | 1.00       | 09/28/10 23:37   | JxM         | 10 1863     | 8082    |
| Decachlorobiphenyl      | 31 %             | QSU                | Surr Limits: | , ,         |        |            | 09/28/10 23:37   | JxM         | 10 1863     | 8082    |
| Tetrachloro-m-xylene    | 62 %             | QSU                | Surr Limits: | (35-121%)   |        |            | 09/28/10 23:37   | JxM         | 10 1863     | 8082    |
| Total Metals by SW 846  | Series Methe     | ods                |              |             |        |            |                  |             |             |         |
| Aluminum                | ND               |                    | 0.200        | NR          | mg/L   | 1.00       | 09/28/10 23:17   | MxM         | 1011960     | 6010B   |
| Antimony                | ND               |                    | 0.0200       | NR          | mg/L   | 1.00       | 09/28/10 23:17   | MxM         | 10 1960     | 6010B   |
| Arsenic                 | ND               |                    | 0.0100       | NR          | mg/L   | 1.00       | 09/28/10 23:17   | MxM         | 1011960     | 6010B   |
| Barium                  | 0.332            |                    | 0.0020       | NR          | mg/L   | 1.00       | 09/28/10 23:17   | MxM         | 1011960     | 6010B   |
| Beryllium               | ND               |                    | 0.0020       | NR          | mg/L   | 1.00       | 09/28/10 23:17   | MxM         | 10 1960     | 6010B   |
| Cadmium                 | ND               |                    | 0.0010       | NR          | mg/L   | 1.00       | 09/28/10 23:17   | MxM         | 10 1960     | 6010B   |
| Calcium                 | 119              |                    | 0.5          | NR          | mg/L   | 1.00       | 09/28/10 23:17   |             | 10 1960     | 6010B   |
| Chromium                | ND               |                    | 0.0040       | NR          | mg/L   | 1.00       | 09/28/10 23:17   |             | 10 1960     | 6010B   |
| Cobalt                  | ND               |                    | 0.0040       | NR          | mg/L   | 1.00       | 09/28/10 23:17   |             | 10 1960     | 6010B   |
| Copper                  | ND               |                    | 0.0100       | NR          | mg/L   | 1.00       | 09/28/10 23:17   |             | 1011960     | 6010B   |
| Iron                    | ND               |                    | 0.050        | NR          | mg/L   | 1.00       | 09/29/10 12:36   |             | 1011960     | 6010B   |
| Lead                    | ND               |                    | 0.0050       | NR          | 0      |            | 09/28/10 23:17   |             | 1011960     | 6010B   |
|                         | 107              |                    |              |             | mg/L   | 1.00       |                  |             |             |         |
| Magnesium               |                  |                    | 0.200        | NR          | mg/L   | 1.00       | 09/28/10 23:17   |             | 1011960     | 6010B   |
| Manganese               | 0.204            |                    | 0.0030       | NR          | mg/L   | 1.00       | 09/28/10 23:17   |             | 10 1960     | 6010B   |
| Nickel                  | ND               |                    | 0.0100       | NR          | mg/L   | 1.00       | 09/28/10 23:17   |             | 10 1960     | 6010B   |
| Potassium               | 6.41             |                    | 0.500        | NR          | mg/L   | 1.00       | 09/29/10 12:36   |             | 1011960     | 6010B   |
| Selenium                | ND               |                    | 0.0150       | NR          | mg/L   | 1.00       | 09/28/10 23:17   |             | 1011960     | 6010B   |
| Silver                  | ND               |                    | 0.0030       | NR          | mg/L   | 1.00       | 09/28/10 23:17   |             | 1011960     | 6010B   |
| Sodium                  | 59.2             |                    | 1.0          | NR          | mg/L   | 1.00       | 09/29/10 12:36   |             | 1011960     | 6010B   |
| Thallium                | ND               |                    | 0.0200       | NR          | mg/L   | 1.00       | 09/28/10 23:17   | MxM         | 1011960     | 6010B   |
| Vanadium                | ND               |                    | 0.0050       | NR          | mg/L   | 1.00       | 09/28/10 23:17   | MxM         | 1011960     | 6010B   |
| Zinc                    | ND               |                    | 0.0100       | NR          | mg/L   | 1.00       | 09/28/10 23:17   | MxM         | 10 1960     | 6010B   |
| Mercury                 | ND               |                    | 0.0002       | NR          | mg/L   | 1.00       | 09/30/10 12:26   | JRK         | 10 2202     | 7470A   |
| General Chemistry Para  | meters           |                    |              |             |        |            |                  |             |             |         |
| Total Cyanide           | ND               | L                  | 0.0100       | NR          | mg/L   | 1.00       | 10/01/10 15:05   | R.IF        | 10 2226     | 9012A   |
| . etc. oyunido          | 110              | L                  | 0.0100       |             |        |            | 10,01,10,10.00   |             | 1012220     | 001270  |

TestAmerica

# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

| Analytical Report             |             |            |            |      |                         |      |                |                       |         |        |
|-------------------------------|-------------|------------|------------|------|-------------------------|------|----------------|-----------------------|---------|--------|
|                               | Sample      | Data       |            |      |                         | Dil  | Date           | Lab                   |         |        |
| Analyte                       | Result      | Qualifiers | RL         | MDL  | Units                   | Fac  | Analyzed       | Tech                  | Batch   | Method |
| Sample ID: RTI1555-03 (M      | W-3 - Wate  | r)         |            |      | Sampled: 09/23/10 12:25 |      | /23/10 12:25   | Recvd: 09/24/10 09:00 |         |        |
| Volatile Organic Compou       | inds by EPA | A 8260B    |            |      |                         |      |                |                       |         |        |
| 1,1,1-Trichloroethane         | ND          | D03        | 4.0        | 3.3  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| 1,1,2,2-Tetrachloroethane     | ND          | D03        | 4.0        | 0.85 | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| 1,1,2-Trichloroethane         | ND          | D03        | 4.0        | 0.92 | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| 1,1,2-Trichloro-1,2,2-triflu  | ND          | D03        | 4.0        | 1.2  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| oroethane                     |             |            |            |      |                         |      |                |                       |         |        |
| 1,1-Dichloroethane            | ND          | D03        | 4.0        | 1.5  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| 1,1-Dichloroethene            | ND          | D03        | 4.0        | 1.2  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| 1,2,4-Trichlorobenzene        | ND          | D03        | 4.0        | 1.6  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| 1,2-Dibromo-3-chloroprop      | ND          | D03        | 4.0        | 1.6  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| ane<br>1,2-Dibromoethane      | ND          | D03        | 4.0        | 2.9  | ug/L                    | 4.00 | 09/30/10 14:02 | рнс                   | 1012207 | 8260B  |
| 1,2-Dichlorobenzene           | ND          | D03        | 4.0<br>4.0 | 3.2  | ug/L<br>ug/L            | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| 1.2-Dichloroethane            | ND          | D03        | 4.0        | 0.86 | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| 1,2-Dichloropropane           | ND          | D03        | 4.0        | 2.9  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| 1,3-Dichlorobenzene           | ND          | D03        | 4.0        | 3.1  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| 1,4-Dichlorobenzene           | ND          | D03        | 4.0        | 3.4  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| 2-Butanone                    | ND          | D03        | 40         | 5.3  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| 2-Hexanone                    | ND          | D03        | 20         | 5.0  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| 4-Methyl-2-pentanone          | ND          | D03        | 20         | 8.4  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| Acetone                       | ND          | D03        | 40         | 12   | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| Benzene                       | ND          | D03        | 4.0        | 1.6  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| Bromodichloromethane          | ND          | D03        | 4.0        | 1.5  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| Bromoform                     | ND          | D03        | 4.0        | 1.0  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| Bromomethane                  | ND          | D03        | 4.0        | 2.8  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| Carbon disulfide              | ND          | D03        | 4.0        | 0.78 | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| Carbon Tetrachloride          | ND          | D03        | 4.0        | 1.1  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| Chlorobenzene                 | ND          | D03        | 4.0        | 3.0  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| Dibromochloromethane          | ND          | D03        | 4.0        | 1.3  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| Chloroethane                  | ND          | D03        | 4.0        | 1.3  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| Chloroform                    | 5.4         | D03        | 4.0        | 1.3  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| Chloromethane                 | ND          | D03        | 4.0        | 1.4  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| cis-1,2-Dichloroethene        | ND          | D03        | 4.0        | 3.2  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| cis-1,3-Dichloropropene       | ND          | D03        | 4.0        | 1.4  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| Cyclohexane                   | ND          | D03        | 4.0        | 0.72 | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| Dichlorodifluoromethane       | ND          | D03        | 4.0        | 2.7  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| Ethylbenzene                  | ND          | D03        | 4.0        | 3.0  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| Isopropylbenzene              | ND          | D03        | 4.0        | 3.2  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| Methyl Acetate                | ND          | D03        | 4.0        | 2.0  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| Methyl-t-Butyl Ether          | ND          | D03        | 4.0        | 0.64 | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| (MTBE)                        |             |            |            |      |                         |      |                |                       |         |        |
| Methylcyclohexane             | ND          | D03        | 4.0        | 0.64 | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| Methylene Chloride            | ND          | D03        | 4.0        | 1.8  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| Styrene                       | ND          | D03        | 4.0        | 2.9  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| Tetrachloroethene             | ND          | D03        | 4.0        | 1.5  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| Toluene                       | ND          | D03        | 4.0        | 2.0  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| trans-1,2-Dichloroethene      | ND          | D03        | 4.0        | 3.6  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| trans-1,3-Dichloropropen<br>e | ND          | D03        | 4.0        | 1.5  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 10 2207 | 8260B  |
| e<br>Trichloroethene          | ND          | D03        | 4.0        | 1.8  | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 1012207 | 8260B  |
| Trichlorofluoromethane        | ND          | D03        | 4.0<br>4.0 | 3.5  | ug/L<br>ug/L            | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
| Vinyl chloride                | ND          | D03        | 4.0        | 3.6  | ug/L                    | 4.00 | 09/30/10 14:02 |                       | 1012207 | 8260B  |
|                               |             | 200        |            | 0.0  | ~9, L                   |      | 30,00,10 14.02 | 2.10                  | 1012201 | 02000  |

TestAmerica

# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

| Analytical Report             |                      |              |              |           |                         |      |                |                       |         |                |
|-------------------------------|----------------------|--------------|--------------|-----------|-------------------------|------|----------------|-----------------------|---------|----------------|
|                               | Sample               | Data         |              |           |                         | Dil  | Date           | Lab                   |         |                |
| Analyte                       | Result               | Qualifiers   | RL           | MDL       | Units                   | Fac  | Analyzed       | Tech                  | Batch   | Method         |
| Sample ID: RTI1555-03 (M      | W-3 - Water) - cont. |              |              |           | Sampled: 09/23/10 12:25 |      |                | Recvd: 09/24/10 09:00 |         |                |
| Volatile Organic Compou       | unds by EPA          | A 8260B - co | <u>nt.</u>   |           |                         |      |                |                       |         |                |
| Xylenes, total                | ND                   | D03          | 8.0          | 2.6       | ug/L                    | 4.00 | 09/30/10 14:02 | DHC                   | 10 2207 | 8260B          |
| 1,2-Dichloroethane-d4         | 98 %                 | D03          | Surr Limits: | (66-137%) |                         |      | 09/30/10 14:02 | DHC                   | 10/2207 | 8260B          |
| 4-Bromofluorobenzene          | 107 %                | D03          | Surr Limits: | (73-120%) |                         |      | 09/30/10 14:02 | DHC                   | 10/2207 | 8260B          |
| Toluene-d8                    | 107 %                | D03          | Surr Limits: | (71-126%) |                         |      | 09/30/10 14:02 | DHC                   | 10/2207 | 8260B          |
| Semivolatile Organics by      | GC/MS                |              |              |           |                         |      |                |                       |         |                |
| 2,4,5-Trichlorophenol         | ND                   |              | 24           | 0.45      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| 2,4,6-Trichlorophenol         | ND                   |              | 9.4          | 0.58      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| 2,4-Dichlorophenol            | ND                   |              | 9.4          | 0.48      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| 2,4-Dimethylphenol            | ND                   |              | 9.4          | 0.47      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| 2,4-Dinitrophenol             | ND                   |              | 47           | 2.1       | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| 2,4-Dinitrotoluene            | ND                   |              | 9.4          | 0.42      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| 2,6-Dinitrotoluene            | ND                   |              | 9.4          | 0.38      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| 2-Chloronaphthalene           | ND                   |              | 9.4          | 0.43      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| 2-Chlorophenol                | ND                   |              | 9.4          | 0.50      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| 2-Methylnaphthalene           | ND                   |              | 9.4          | 0.57      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| 2-Methylphenol                | ND                   |              | 9.4          | 0.38      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| 2-Nitroaniline                | ND                   |              | 47           | 0.40      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| 2-Nitrophenol                 | ND                   |              | 9.4          | 0.45      | ug/L                    | 1.00 | 10/09/10 17:47 |                       | 10 1861 | 8270C          |
| 3,3'-Dichlorobenzidine        | ND                   |              | 19           | 0.38      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| 3-Nitroaniline                | ND                   |              | 47           | 0.45      | ug/L                    | 1.00 | 10/09/10 17:47 |                       | 10 1861 | 8270C          |
| 4,6-Dinitro-2-methylphen      | ND                   |              | 47           | 2.1       | ug/L                    | 1.00 | 10/09/10 17:47 |                       | 10 1861 | 8270C          |
| ol<br>4-Bromophenyl phenyl    | ND                   |              | 9.4          | 0.42      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| ether                         |                      |              |              |           |                         |      |                |                       |         |                |
| 4-Chloro-3-methylphenol       | ND                   |              | 9.4          | 0.42      | ug/L                    | 1.00 | 10/09/10 17:47 |                       | 10 1861 | 8270C          |
| 4-Chloroaniline               | ND                   |              | 9.4          | 0.56      | ug/L                    | 1.00 | 10/09/10 17:47 |                       | 10 1861 | 8270C          |
| 4-Chlorophenyl phenyl ether   | ND                   |              | 9.4          | 0.33      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| 4-Methylphenol                | ND                   |              | 4.7          | 0.34      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| 4-Nitroaniline                | ND                   |              | 47           | 0.24      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| 4-Nitrophenol                 | ND                   |              | 47           | 1.4       | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| Acenaphthene                  | ND                   |              | 9.4          | 0.39      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| Acenaphthylene                | ND                   |              | 9.4          | 0.36      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| Acetophenone                  | 1.1                  | J            | 9.4          | 0.51      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| Anthracene                    | ND                   |              | 9.4          | 0.26      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| Atrazine                      | ND                   |              | 9.4          | 0.43      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| Benzaldehyde                  | ND                   |              | 47           | 0.25      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| Benzo(a)anthracene            | ND                   |              | 9.4          | 0.34      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| Benzo(a)pyrene                | ND                   |              | 9.4          | 0.44      | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| Benzo(b)fluoranthene          | ND                   |              | 9.4          | 0.32      | ug/L                    | 1.00 | 10/09/10 17:47 |                       | 10 1861 | 8270C          |
| Benzo(ghi)perylene            | ND                   |              | 9.4          | 0.33      | ug/L                    | 1.00 | 10/09/10 17:47 |                       | 10 1861 | 8270C          |
| Benzo(k)fluoranthene          | ND                   |              | 9.4          | 0.69      | ug/L                    | 1.00 | 10/09/10 17:47 |                       | 10 1861 | 8270C          |
| Biphenyl                      | ND                   |              | 9.4          | 0.62      | ug/L                    | 1.00 | 10/09/10 17:47 |                       | 1011861 | 8270C          |
| Bis(2-chloroethoxy)metha      | ND                   |              | 9.4          | 0.33      | ug/L                    | 1.00 | 10/09/10 17:47 |                       | 10 1861 | 8270C          |
| ne<br>Bis(2-chloroethyl)ether | ND                   |              | 9.4          | 0.38      | uc/l                    | 1.00 | 10/09/10 17:47 | MKD                   | 10 1861 | 8270C          |
| 2,2'-Oxybis(1-Chloroprop      | ND                   |              | 9.4<br>9.4   | 0.38      | ug/L<br>ug/L            | 1.00 | 10/09/10 17:47 |                       | 1011861 | 8270C<br>8270C |
| ane)<br>Bis(2-ethylhexyl)     | ND                   |              | 9.4          | 1.7       | ug/L                    | 1.00 | 10/09/10 17:47 | MKP                   | 10 1861 | 8270C          |
| phthalate                     |                      |              | 5.7          | 1.7       | ч <u>9</u> / г          | 1.00 | 10,00,10 11.41 | WIL VI                | 1011001 | 02/00          |

TestAmerica

# Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

| Analytical Report   |                               |             |                      |                         |                      |                      |                                  |                          |                               |                |
|---|-------------------------------|-------------|----------------------|-------------------------|----------------------|----------------------|----------------------------------|--------------------------|-------------------------------|----------------|
|   | Sample                        | Data        |                      |                         |                      | Dil                  | Date                             | Lab                      |                               |                |
| Analyte   | Result                        | Qualifiers  | RL                   | MDL                     | Units                | Fac                  | Analyzed                         | Tech                     | Batch                         | Method         |
| Sample ID: RTI1555-03 (MW-3 - Water) - cont.  |                               |             |                      | Sampled: 09/23/10 12:25 |                      |                      | Recvd: 09/24/10 09:00            |                          |                               |                |
| Semivolatile Organics by  | y GC/MS - co                  | ont.        |                      |                         |                      |                      |                                  |                          |                               |                |
| Butyl benzyl phthalate  | 0.58                          | J           | 9.4                  | 0.40                    | ug/L                 | 1.00                 | 10/09/10 17:47                   | MKP                      | 10 1861                       | 8270C          |
| Caprolactam   | ND                            |             | 9.4                  | 2.1                     | ug/L                 | 1.00                 | 10/09/10 17:47                   | MKP                      | 10 1861                       | 8270C          |
| Carbazole   | ND                            |             | 4.7                  | 0.28                    | ug/L                 | 1.00                 | 10/09/10 17:47                   | MKP                      | 10 1861                       | 8270C          |
| Chrysene  | ND                            |             | 9.4                  | 0.31                    | ug/L                 | 1.00                 | 10/09/10 17:47                   | MKP                      | 10 1861                       | 8270C          |
| Dibenzo(a,h)anthracene  | ND                            |             | 9.4                  | 0.40                    | ug/L                 | 1.00                 | 10/09/10 17:47                   | MKP                      | 10 1861                       | 8270C          |
| Dibenzofuran  | ND                            |             | 9.4                  | 0.48                    | ug/L                 | 1.00                 | 10/09/10 17:47                   | MKP                      | 10 1861                       | 8270C          |
| Diethyl phthalate   | ND                            |             | 9.4                  | 0.21                    | ug/L                 | 1.00                 | 10/09/10 17:47                   | MKP                      | 10 1861                       | 8270C          |
| Dimethyl phthalate  | ND                            |             | 9.4                  | 0.34                    | ug/L                 | 1.00                 | 10/09/10 17:47                   |                          | 10 1861                       | 8270C          |
| Di-n-butyl phthalate  | 0.55                          | J           | 9.4                  | 0.29                    | ug/L                 | 1.00                 | 10/09/10 17:47                   | MKP                      | 10 1861                       | 8270C          |
| Di-n-octyl phthalate  | ND                            |             | 9.4                  | 0.44                    | ug/L                 | 1.00                 | 10/09/10 17:47                   |                          | 10 1861                       | 8270C          |
| Fluoranthene  | ND                            |             | 9.4                  | 0.38                    | ug/L                 | 1.00                 | 10/09/10 17:47                   |                          | 10 1861                       | 8270C          |
| Fluorene  | ND                            |             | 9.4                  | 0.34                    | ug/L                 | 1.00                 | 10/09/10 17:47                   |                          | 10 1861                       | 8270C          |
| Hexachlorobenzene   | ND                            |             | 9.4                  | 0.48                    | ug/L                 | 1.00                 | 10/09/10 17:47                   |                          | 10 1861                       | 8270C          |
| Hexachlorobutadiene   | ND                            |             | 9.4                  | 0.64                    | ug/L                 | 1.00                 | 10/09/10 17:47                   | MKP                      | 10 1861                       | 8270C          |
| Hexachlorocyclopentadie   | ND                            |             | 9.4                  | 0.56                    | ug/L                 | 1.00                 | 10/09/10 17:47                   | MKP                      | 10 1861                       | 8270C          |
| ne<br>Hexachloroethane  | ND                            |             | 9.4                  | 0.56                    | ug/L                 | 1.00                 | 10/09/10 17:47                   | MKP                      | 10 1861                       | 8270C          |
| ndeno(1,2,3-cd)pyrene   | ND                            |             | 9.4<br>9.4           | 0.30                    | ug/L                 | 1.00                 | 10/09/10 17:47                   |                          | 1011861                       | 8270C          |
| sophorone   | ND                            |             | 9.4<br>9.4           | 0.44                    | ug/L                 | 1.00                 | 10/09/10 17:47                   |                          | 1011861                       | 8270C          |
| Naphthalene   | ND                            |             | 9.4<br>9.4           | 0.41                    | ug/L<br>ug/L         | 1.00                 | 10/09/10 17:47                   |                          | 1011861                       | 8270C          |
| Nitrobenzene  | ND                            |             | 9.4<br>9.4           | 0.72                    | ug/L                 | 1.00                 | 10/09/10 17:47                   |                          | 1011861                       | 8270C          |
| N-Nitrosodi-n-propylamin  | ND                            |             | 9.4<br>9.4           | 0.51                    | ug/L                 | 1.00                 | 10/09/10 17:47                   |                          | 1011861                       | 8270C          |
| e<br>N-Nitrosodiphenylamine   | ND                            |             | 9.4                  | 0.48                    | ug/L                 | 1.00                 | 10/09/10 17:47                   | MKP                      | 10 1861                       | 8270C          |
| Pentachlorophenol   | ND                            |             | 47                   | 2.1                     | ug/L                 | 1.00                 | 10/09/10 17:47                   |                          | 1011861                       | 8270C          |
| Phenanthrene  | 0.46                          | J           | 9.4                  | 0.42                    | ug/L                 | 1.00                 | 10/09/10 17:47                   |                          | 1011861                       | 8270C          |
| Phenol  | ND                            | 5           | 9.4<br>9.4           | 0.37                    | ug/L                 | 1.00                 | 10/09/10 17:47                   |                          | 1011861                       | 8270C          |
| Pyrene  | ND                            |             | 9.4                  | 0.32                    | ug/L                 | 1.00                 | 10/09/10 17:47                   |                          | 10 1861                       | 8270C          |
| 2,4,6-Tribromophenol  | 112 %                         |             | Surr Limits:         | (52-132%)               |                      |                      | 10/09/10 17:47                   |                          | 10/1861                       | 8270C          |
| 2-Fluorobiphenyl  | 74 %                          |             | Surr Limits:         | . ,                     |                      |                      | 10/09/10 17:47                   |                          | 10/1861                       | 8270C          |
| 2-Fluorophenol  | 40 %                          |             | Surr Limits:         | ( )                     |                      |                      | 10/09/10 17:47                   |                          | 10/1861                       | 8270C          |
| Nitrobenzene-d5   | 73 %                          |             | Surr Limits:         | , ,                     |                      |                      | 10/09/10 17:47                   |                          | 10/1861                       | 8270C          |
| Phenol-d5   | 29 %                          |             | Surr Limits:         | • • •                   |                      |                      | 10/09/10 17:47                   |                          | 10/1861                       | 8270C          |
| p-Terphenyl-d14   | 49 %                          |             | Surr Limits:         | ( )                     |                      |                      | 10/09/10 17:47                   |                          | 10/1861                       | 8270C          |
| Organochlorine Pesticid   | es by EPA N                   | lethod 8081 |                      |                         |                      |                      |                                  |                          |                               |                |
| ,4'-DDD   | 0.23                          | J           | 0.24                 | 0.043                   | ug/L                 | 5.00                 | 09/28/10 22:33                   | LMW                      | 10 1862                       | 8081A          |
| 4,4'-DDE  | ND                            |             | 0.24                 | 0.055                   | ug/L                 | 5.00                 | 09/28/10 22:33                   |                          | 10 1862                       | 8081A          |
| 4,4'-DDT  | ND                            |             | 0.24                 | 0.052                   | ug/L                 | 5.00                 | 09/28/10 22:33                   |                          | 10 1862                       | 8081A          |
| Aldrin  | ND                            |             | 0.24                 | 0.031                   | ug/L                 | 5.00                 | 09/28/10 22:33                   |                          | 10 1862                       | 8081A          |
| alpha-BHC   | 0.18                          | J           | 0.24                 | 0.031                   | ug/L                 | 5.00                 | 09/28/10 22:33                   |                          | 10 1862                       | 8081A          |
| alpha-Chlordane   | ND                            |             | 0.24                 | 0.070                   | ug/L                 | 5.00                 | 09/28/10 22:33                   |                          | 10 1862                       | 8081A          |
|   | 0.13                          | J           | 0.24                 | 0.12                    | ug/L                 | 5.00                 | 09/28/10 22:33                   |                          | 10 1862                       | 8081A          |
| •   |                               | -           | 2.4                  | 0.14                    | ug/L                 | 5.00                 | 09/28/10 22:33                   |                          | 10 1862                       | 8081A          |
| eta-BHC   | ND                            |             |                      | 0.048                   | ug/L                 | 5.00                 | 09/28/10 22:33                   |                          | 10 1862                       | 8081A          |
| beta-BHC<br>Chlordane   | ND<br>ND                      |             | 0.24                 | 0.040                   |                      |                      |                                  |                          |                               |                |
| oeta-BHC<br>Chlordane<br>lelta-BHC  | ND                            |             | 0.24<br>0.24         |                         | -                    |                      | 09/28/10 22:33                   |                          |                               | 8081A          |
| oeta-BHC<br>Chlordane<br>delta-BHC<br>Dieldrin  | ND<br>ND                      |             | 0.24                 | 0.046                   | ug/L                 | 5.00                 |                                  | LMW                      | 10 1862                       | 8081A<br>8081A |
| veta-BHC<br>Chlordane<br>Ielta-BHC<br>Dieldrin<br>Endosulfan I  | ND                            | J           | 0.24<br>0.24         | 0.046<br>0.052          | ug/L<br>ug/L         | 5.00<br>5.00         | 09/28/10 22:33                   | LMW<br>LMW               | 10I1862<br>10I1862            | 8081A          |
| oeta-BHC<br>Chlordane<br>delta-BHC<br>Dieldrin<br>Endosulfan I<br>Endosulfan II   | ND<br>ND<br>ND<br><b>0.14</b> | J           | 0.24<br>0.24<br>0.24 | 0.046<br>0.052<br>0.057 | ug/L<br>ug/L<br>ug/L | 5.00<br>5.00<br>5.00 | 09/28/10 22:33<br>09/28/10 22:33 | LMW<br>LMW<br>LMW        | 10 1862<br>10 1862<br>10 1862 | 8081A<br>8081A |
| beta-BHC<br>Chlordane<br>delta-BHC<br>Dieldrin<br>Endosulfan I<br>Endosulfan II<br>Endosulfan sulfate<br>Endosulfan sulfate<br>Endrin | ND<br>ND<br>ND                | J           | 0.24<br>0.24         | 0.046<br>0.052          | ug/L<br>ug/L         | 5.00<br>5.00         | 09/28/10 22:33                   | LMW<br>LMW<br>LMW<br>LMW | 10I1862<br>10I1862            | 8081A          |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                            |              |              | A            | Analytical F | Report |              |                                  |            |                    |              |
|----------------------------|--------------|--------------|--------------|--------------|--------|--------------|----------------------------------|------------|--------------------|--------------|
|                            | Sample       | Data         |              |              |        | Dil          | Date                             | Lab        |                    |              |
| Analyte                    | Result       | Qualifiers   | RL           | MDL          | Units  | Fac          | Analyzed                         | Tech       | Batch              | Method       |
| ample ID: RTI1555-03 (     | MW-3 - Wate  | r) - cont.   |              |              | Sam    | oled: 09/    | /23/10 12:25                     | Recv       | vd: 09/24/1        | 0 09:00      |
| Organochlorine Pesticio    | des by EPA M | lethod 8081/ | A - cont.    |              |        |              |                                  |            |                    |              |
| Endrin ketone              | ND           |              | 0.24         | 0.057        | ug/L   | 5.00         | 09/28/10 22:33                   | LMW        | 10 1862            | 8081A        |
| gamma-BHC (Lindane)        | ND           |              | 0.24         | 0.028        | ug/L   | 5.00         | 09/28/10 22:33                   | LMW        | 10 1862            | 8081A        |
| gamma-Chlordane            | 0.13         | J            | 0.24         | 0.052        | ug/L   | 5.00         | 09/28/10 22:33                   | LMW        | 10 1862            | 8081A        |
| leptachlor                 | 0.11         | J            | 0.24         | 0.040        | ug/L   | 5.00         | 09/28/10 22:33                   | LMW        | 10 1862            | 8081A        |
| leptachlor epoxide         | ND           |              | 0.24         | 0.025        | ug/L   | 5.00         | 09/28/10 22:33                   |            | 10 1862            | 8081A        |
| lethoxychlor               | 0.20         | J            | 0.24         | 0.067        | ug/L   | 5.00         | 09/28/10 22:33                   |            | 10 1862            | 8081A        |
| oxaphene                   | ND           |              | 2.4          | 0.57         | ug/L   | 5.00         | 09/28/10 22:33                   | LMW        | 10 1862            | 8081A        |
| Decachlorobiphenyl         | *            | Ζ            | Surr Limits: | (15-139%)    |        |              | 09/28/10 22:33                   | LMW        | 10 1862            | 8081A        |
| etrachloro-m-xylene        | 196 %        | Z1           | Surr Limits: | (30-139%)    |        |              | 09/28/10 22:33                   | LMW        | 10 1862            | 8081A        |
| olychlorinated Biphen      | yls by EPA N | lethod 8082  |              |              |        |              |                                  |            |                    |              |
| vroclor 1016               | ND           | QSU          | 0.47         | 0.17         | ug/L   | 1.00         | 09/28/10 23:56                   | JxM        | 10 1863            | 8082         |
| vroclor 1221               | ND           | QSU          | 0.47         | 0.17         | ug/L   | 1.00         | 09/28/10 23:56                   | JxM        | 10 1863            | 8082         |
| roclor 1232                | ND           | QSU          | 0.47         | 0.17         | ug/L   | 1.00         | 09/28/10 23:56                   | JxM        | 10 1863            | 8082         |
| roclor 1242                | ND           | QSU          | 0.47         | 0.17         | ug/L   | 1.00         | 09/28/10 23:56                   | JxM        | 1011863            | 8082         |
| vroclor 1248               | ND           | QSU          | 0.47         | 0.17         | ug/L   | 1.00         | 09/28/10 23:56                   | JxM        | 1011863            | 8082         |
| roclor 1254<br>roclor 1260 | ND<br>ND     | QSU<br>QSU   | 0.47<br>0.47 | 0.24<br>0.24 | ug/L   | 1.00<br>1.00 | 09/28/10 23:56<br>09/28/10 23:56 | JxM<br>JxM | 10I1863<br>10I1863 | 8082<br>8082 |
|                            |              |              |              |              | ug/L   | 1.00         | 09/20/10 23:50                   | JXIVI      |                    |              |
| Decachlorobiphenyl         | 27 %         | QSU          | Surr Limits: | • •          |        |              | 09/28/10 23:56                   |            | 10 1863            | 8082         |
| etrachloro-m-xylene        | 61 %         | QSU          | Surr Limits: | (35-121%)    |        |              | 09/28/10 23:56                   | JxM        | 10 1863            | 8082         |
| otal Metals by SW 846      |              | <u>ods</u>   |              |              |        |              |                                  |            |                    |              |
| luminum                    | ND           |              | 0.200        | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 10 1960            | 6010B        |
| ntimony                    | ND           |              | 0.0200       | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 10 1960            | 6010B        |
| rsenic                     | ND           |              | 0.0100       | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 1011960            | 6010B        |
| arium                      | 0.0985       |              | 0.0020       | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 10 1960            | 6010B        |
| eryllium                   | ND           |              | 0.0020       | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 1011960            | 6010B        |
| admium                     | ND           |              | 0.0010       | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 1011960            | 6010B        |
| alcium                     | 123          |              | 0.5          | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 10 1960            | 6010B        |
| hromium                    | ND           |              | 0.0040       | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 10 1960            | 6010B        |
| Cobalt                     | ND           |              | 0.0040       | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 10 1960            | 6010B        |
| opper                      | ND           |              | 0.0100       | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 1011960            | 6010B        |
| on                         | ND           |              | 0.050        | NR           | mg/L   | 1.00         | 09/29/10 12:41                   |            | 1011960            | 6010B        |
| ead                        | ND           |              | 0.0050       | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 1011960            | 6010B        |
| 1agnesium                  | 98.3         |              | 0.200        | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 1011960            | 6010B        |
| langanese                  | 0.195        |              | 0.0030       | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 1011960            | 6010B        |
| lickel                     | 0.0159       |              | 0.0100       | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 1011960            | 6010B        |
| otassium                   | 10.0         |              | 0.500        | NR           | mg/L   | 1.00         | 09/29/10 12:41                   |            | 1011960            | 6010B        |
| elenium                    | ND           |              | 0.0150       | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 1011960            | 6010B        |
| ilver                      | ND           |              | 0.0030       | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 1011960            | 6010B        |
| odium                      | 88.8         |              | 1.0          | NR           | mg/L   | 1.00         | 09/29/10 12:41                   |            | 1011960            | 6010B        |
| hallium                    | ND           |              | 0.0200       | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 1011960            | 6010B        |
| /anadium                   | ND           |              | 0.0050       | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 1011960            | 6010B        |
| linc                       | ND           |              | 0.0100       | NR           | mg/L   | 1.00         | 09/28/10 23:19                   |            | 1011960            | 6010B        |
| lercury                    | ND           |              | 0.0002       | NR           | mg/L   | 1.00         | 09/30/10 12:32                   | JKK        | 10 2202            | 7470A        |
| eneral Chemistry Para      |              |              |              |              |        |              |                                  |            |                    |              |
| otal Cyanide               | ND           | L            | 0.0100       | NR           | mg/L   | 1.00         | 10/01/10 15:06                   | RJF        | 1012226            | 9012A        |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|  |             |            | Α           | nalytical F | Report       |              |                                  |      |                    |                |
|--|-------------|------------|-------------|-------------|--------------|--------------|----------------------------------|------|--------------------|----------------|
|  | Sample      | Data       |             |             |              | Dil          | Date                             | Lab  |                    |                |
| Analyte                                  | Result      | Qualifiers | RL          | MDL         | Units        | Fac          | Analyzed                         | Tech | Batch              | Method         |
| Sample ID: RTI1555-04 (N                 | IW-4 - Wate | r)         |             |             | Sam          | pled: 09     | /23/10 11:20                     | Recv | d: 09/24/1         | 0 09:00        |
| Volatile Organic Compou                  | inds by EPA | 8260B      |             |             |              |              |                                  |      |                    |                |
| 1,1,1-Trichloroethane                    | ND          | D03        | 4.0         | 3.3         | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 10 2207            | 8260B          |
| 1,1,2,2-Tetrachloroethane                | ND          | D03        | 4.0         | 0.85        | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 10 2207            | 8260B          |
| 1,1,2-Trichloroethane                    | ND          | D03        | 4.0         | 0.92        | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 10 2207            | 8260B          |
| 1,1,2-Trichloro-1,2,2-triflu             | ND          | D03        | 4.0         | 1.2         | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 10 2207            | 8260B          |
| oroethane                                |             |            |             |             |              |              |                                  |      |                    |                |
| 1,1-Dichloroethane                       | ND          | D03        | 4.0         | 1.5         | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 1012207            | 8260B          |
| 1,1-Dichloroethene                       | ND          | D03        | 4.0         | 1.2         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| 1,2,4-Trichlorobenzene                   | ND          | D03        | 4.0         | 1.6         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| 1,2-Dibromo-3-chloroprop                 | ND          | D03        | 4.0         | 1.6         | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 1012207            | 8260B          |
| ane<br>1.2 Dibromoothano                 |             | D03        | 4.0         | 2.0         | uc/l         | 4 00         | 00/20/40 44.05                   |      | 1012207            | 00600          |
| 1,2-Dibromoethane<br>1,2-Dichlorobenzene | ND<br>ND    | D03<br>D03 | 4.0         | 2.9<br>3.2  | ug/L         | 4.00         | 09/30/10 14:25                   |      | 10l2207<br>10l2207 | 8260B<br>8260B |
| 1,2-Dichloroethane                       | ND<br>ND    | D03<br>D03 | 4.0<br>4.0  | 3.2<br>0.86 | ug/L<br>ug/L | 4.00<br>4.00 | 09/30/10 14:25<br>09/30/10 14:25 |      | 1012207            | 8260B<br>8260B |
| 1,2-Dichloropropane                      | ND          | D03        | 4.0         | 2.9         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| 1,3-Dichlorobenzene                      | ND          | D03        | 4.0         | 3.1         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| 1,4-Dichlorobenzene                      | ND          | D03        | 4.0         | 3.4         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| 2-Butanone                               | ND          | D03        | 40          | 5.3         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| 2-Hexanone                               | ND          | D03        | 20          | 5.0         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| 4-Methyl-2-pentanone                     | ND          | D03        | 20          | 8.4         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| Acetone                                  | ND          | D03        | 40          | 12          | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| Benzene                                  | ND          | D03        | 4.0         | 1.6         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| Bromodichloromethane                     | ND          | D03        | 4.0         | 1.5         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| Bromoform                                | ND          | D03        | 4.0         | 1.0         | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 10 2207            | 8260B          |
| Bromomethane                             | ND          | D03        | 4.0         | 2.8         | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 10 2207            | 8260B          |
| Carbon disulfide                         | ND          | D03        | 4.0         | 0.78        | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 10 2207            | 8260B          |
| Carbon Tetrachloride                     | ND          | D03        | 4.0         | 1.1         | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 10 2207            | 8260B          |
| Chlorobenzene                            | ND          | D03        | 4.0         | 3.0         | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 10 2207            | 8260B          |
| Dibromochloromethane                     | ND          | D03        | 4.0         | 1.3         | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 1012207            | 8260B          |
| Chloroethane                             | ND          | D03        | 4.0         | 1.3         | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 1012207            | 8260B          |
| Chloroform                               | 2.8         | D03,J      | 4.0         | 1.3         | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 1012207            | 8260B          |
| Chloromethane                            | ND          | D03        | 4.0         | 1.4         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| cis-1,2-Dichloroethene                   | ND          | D03        | 4.0         | 3.2         | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 1012207            | 8260B          |
| cis-1,3-Dichloropropene                  | ND          | D03        | 4.0         | 1.4         | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 1012207            | 8260B          |
| Cyclohexane                              | ND          | D03        | 4.0         | 0.72        | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| Dichlorodifluoromethane                  | ND          | D03        | 4.0         | 2.7         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| Ethylbenzene                             | ND          | D03        | 4.0         | 3.0         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| Isopropylbenzene                         | ND          | D03        | 4.0         | 3.2         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| Methyl Acetate                           | ND          | D03        | 4.0         | 2.0         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| Methyl-t-Butyl Ether                     | ND          | D03        | 4.0         | 0.64        | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 1012207            | 8260B          |
| (MTBE)<br>Methylayolahayana              |             | D02        | 4.0         | 0.64        |              | 4 00         | 00/20/10 14:25                   | DUC  | 1010007            | 9260D          |
| Methylcyclohexane                        | ND          | D03        | 4.0         | 0.64        | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B<br>8260B |
| Methylene Chloride<br>Styrene            | ND<br>ND    | D03<br>D03 | 4.0<br>4.0  | 1.8         | ug/L         | 4.00<br>4.00 | 09/30/10 14:25<br>09/30/10 14:25 |      | 10l2207<br>10l2207 | 8260B          |
| Tetrachloroethene                        | ND          | D03<br>D03 | 4.0<br>4.0  | 2.9<br>1.5  | ug/L<br>ug/L | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| Toluene                                  | ND          | D03        | 4.0<br>4.0  | 2.0         | ug/L<br>ug/L | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| trans-1,2-Dichloroethene                 | ND          | D03        | 4.0<br>4.0  | 3.6         | ug/L<br>ug/L | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| trans-1,3-Dichloropropen                 | ND          | D03        | 4.0<br>4.0  | 3.0<br>1.5  | ug/L<br>ug/L | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| e  |             | 200        | ч. <b>0</b> | 1.5         | ug/L         | 4.00         | 55,50,10 14.25                   | DIIO | 1012201            | 02000          |
| e<br>Trichloroethene                     | ND          | D03        | 4.0         | 1.8         | ug/L         | 4.00         | 09/30/10 14:25                   | DHC  | 1012207            | 8260B          |
| Trichlorofluoromethane                   | ND          | D03        | 4.0         | 3.5         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| Vinyl chloride                           | ND          | D03        | 4.0         | 3.6         | ug/L         | 4.00         | 09/30/10 14:25                   |      | 1012207            | 8260B          |
| ,· -···                                  |             |            |             |             | - 3, -       |              |                                  |      |                    |                |

TestAmerica

## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                                     | Analytical Report |              |              |           |       |           |                |      |             |                |  |  |
|-------------------------------------|-------------------|--------------|--------------|-----------|-------|-----------|----------------|------|-------------|----------------|--|--|
|                                     | Sample            | Data         |              | MD        |       | Dil       | Date           | Lab  |             |                |  |  |
| Analyte                             | Result            | Qualifiers   | RL           | MDL       | Units | Fac       | Analyzed       | Tech | Batch       | Method         |  |  |
| Sample ID: RTI1555-04 (N            | IW-4 - Water      | r) - cont.   |              |           | Sam   | pled: 09/ | 23/10 11:20    | Recv | /d: 09/24/1 | 0 09:00        |  |  |
| Volatile Organic Compo              | unds by EPA       | A 8260B - co | <u>nt.</u>   |           |       |           |                |      |             |                |  |  |
| Xylenes, total                      | ND                | D03          | 8.0          | 2.6       | ug/L  | 4.00      | 09/30/10 14:25 | DHC  | 1012207     | 8260B          |  |  |
| 1,2-Dichloroethane-d4               | 97 %              | D03          | Surr Limits: | . ,       |       |           | 09/30/10 14:25 |      | 10/2207     | 8260B          |  |  |
| 4-Bromofluorobenzene                | 106 %             | D03          |              | (73-120%) |       |           | 09/30/10 14:25 |      | 10/2207     | 8260B          |  |  |
| Toluene-d8                          | 108 %             | D03          | Surr Limits: | (71-126%) |       |           | 09/30/10 14:25 | DHC  | 10/2207     | 8260B          |  |  |
| Semivolatile Organics by            | <u>/ GC/MS</u>    |              |              |           |       |           |                |      |             |                |  |  |
| 2,4,5-Trichlorophenol               | ND                |              | 24           | 0.46      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| 2,4,6-Trichlorophenol               | ND                |              | 9.5          | 0.58      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| 2,4-Dichlorophenol                  | ND                |              | 9.5          | 0.49      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| 2,4-Dimethylphenol                  | ND                |              | 9.5          | 0.48      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| 2,4-Dinitrophenol                   | ND                |              | 48           | 2.1       | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| 2,4-Dinitrotoluene                  | ND                |              | 9.5          | 0.43      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| 2,6-Dinitrotoluene                  | ND                |              | 9.5          | 0.38      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| 2-Chloronaphthalene                 | ND                |              | 9.5          | 0.44      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| 2-Chlorophenol                      | ND                |              | 9.5          | 0.50      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| 2-Methylnaphthalene                 | ND                |              | 9.5          | 0.57      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 1011861     | 8270C          |  |  |
| 2-Methylphenol                      | ND                |              | 9.5          | 0.38      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 1011861     | 8270C          |  |  |
| 2-Nitroaniline                      | ND                |              | 48           | 0.40      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 1011861     | 8270C          |  |  |
| 2-Nitrophenol                       | ND                |              | 9.5          | 0.46      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 1011861     | 8270C          |  |  |
| 3.3'-Dichlorobenzidine              | ND                |              | 9.5<br>19    | 0.38      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 1011861     | 8270C          |  |  |
| 3-Nitroaniline                      | ND                |              | 48           | 0.38      | -     | 1.00      | 10/09/10 18:11 | MKP  | 1011861     | 8270C          |  |  |
|                                     |                   |              |              |           | ug/L  |           |                |      |             |                |  |  |
| 4,6-Dinitro-2-methylphen            | ND                |              | 48           | 2.1       | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| ol<br>4-Bromophenyl phenyl<br>ether | ND                |              | 9.5          | 0.43      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| 4-Chloro-3-methylphenol             | ND                |              | 9.5          | 0.43      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| 4-Chloroaniline                     | ND                |              | 9.5          | 0.56      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 1011861     | 8270C          |  |  |
|                                     | ND                |              | 9.5          | 0.33      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 1011861     | 8270C          |  |  |
| 4-Chlorophenyl phenyl<br>ether      | ND                |              | 9.0          | 0.55      | ug/L  | 1.00      | 10/03/10 10.11 | WIIN | 1011001     | 02700          |  |  |
| 4-Methylphenol                      | ND                |              | 4.8          | 0.34      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| 4-Nitroaniline                      | ND                |              | 48           | 0.24      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| 4-Nitrophenol                       | ND                |              | 48           | 1.4       | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| Acenaphthene                        | ND                |              | 9.5          | 0.39      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| Acenaphthylene                      | ND                |              | 9.5          | 0.36      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| Acetophenone                        | ND                |              | 9.5          | 0.51      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| Anthracene                          | ND                |              | 9.5          | 0.27      | ug/L  | 1.00      | 10/09/10 18:11 |      | 10 1861     | 8270C          |  |  |
| Atrazine                            | ND                |              | 9.5          | 0.44      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| Benzaldehyde                        | ND                |              | 48           | 0.25      | ug/L  | 1.00      | 10/09/10 18:11 |      | 1011861     | 8270C          |  |  |
| Benzo(a)anthracene                  | ND                |              | 9.5          | 0.34      | ug/L  | 1.00      | 10/09/10 18:11 |      | 1011861     | 8270C          |  |  |
| Benzo(a)pyrene                      | ND                |              | 9.5          | 0.45      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 1011861     | 8270C          |  |  |
| Benzo(b)fluoranthene                | ND                |              | 9.5<br>9.5   | 0.32      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 1011861     | 8270C          |  |  |
| Benzo(ghi)perylene                  | ND                |              | 9.5<br>9.5   | 0.32      | ug/L  | 1.00      | 10/09/10 18:11 |      | 1011861     | 8270C          |  |  |
|                                     | ND                |              | 9.5<br>9.5   | 0.33      | -     | 1.00      |                |      | 1011861     | 8270C<br>8270C |  |  |
| Benzo(k)fluoranthene                |                   |              |              |           | ug/L  |           | 10/09/10 18:11 |      |             |                |  |  |
| Biphenyl                            | ND                |              | 9.5<br>0.5   | 0.62      | ug/L  | 1.00      | 10/09/10 18:11 |      | 1011861     | 8270C          |  |  |
| Bis(2-chloroethoxy)metha            | ND                |              | 9.5          | 0.33      | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |
| Bis(2-chloroethyl)ether             | ND                |              | 9.5          | 0.38      | ug/L  | 1.00      | 10/09/10 18:11 |      | 10 1861     | 8270C          |  |  |
| 2,2'-Oxybis(1-Chloroprop ane)       | ND                |              | 9.5          | 0.50      | ug/L  | 1.00      | 10/09/10 18:11 |      | 10 1861     | 8270C          |  |  |
| Bis(2-ethylhexyl)<br>phthalate      | ND                |              | 9.5          | 1.7       | ug/L  | 1.00      | 10/09/10 18:11 | MKP  | 10 1861     | 8270C          |  |  |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                              | Analytical Report |             |              |           |               |      |                |      |            |         |
|------------------------------|-------------------|-------------|--------------|-----------|---------------|------|----------------|------|------------|---------|
|                              | Sample            | Data        |              |           |               | Dil  | Date           | Lab  |            |         |
| Analyte                      | Result            | Qualifiers  | RL           | MDL       | Units         | Fac  | Analyzed       | Tech | Batch      | Method  |
| Sample ID: RTI1555-04 (N     | IW-4 - Wate       | r) - cont.  |              |           | Sampled: 09/2 |      | /23/10 11:20   | Recv | d: 09/24/1 | 0 09:00 |
| Semivolatile Organics by     | / GC/MS - co      | ont.        |              |           |               |      |                |      |            |         |
| Butyl benzyl phthalate       | 0.72              | J           | 9.5          | 0.40      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| Caprolactam                  | ND                |             | 9.5          | 2.1       | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| Carbazole                    | ND                |             | 4.8          | 0.29      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| Chrysene                     | ND                |             | 9.5          | 0.31      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| Dibenzo(a,h)anthracene       | ND                |             | 9.5          | 0.40      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| Dibenzofuran                 | ND                |             | 9.5          | 0.49      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| Diethyl phthalate            | 1.5               | J           | 9.5          | 0.21      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| Dimethyl phthalate           | ND                |             | 9.5          | 0.34      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| Di-n-butyl phthalate         | 1.1               | J           | 9.5          | 0.30      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| Di-n-octyl phthalate         | ND                |             | 9.5          | 0.45      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| luoranthene                  | ND                |             | 9.5          | 0.38      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| luorene                      | ND                |             | 9.5          | 0.34      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| lexachlorobenzene            | ND                |             | 9.5          | 0.49      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| lexachlorobutadiene          | ND                |             | 9.5          | 0.65      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| lexachlorocyclopentadie<br>e | ND                |             | 9.5          | 0.56      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| lexachloroethane             | ND                |             | 9.5          | 0.56      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| ndeno(1,2,3-cd)pyrene        | ND                |             | 9.5          | 0.45      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| sophorone                    | ND                |             | 9.5          | 0.41      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| laphthalene                  | ND                |             | 9.5          | 0.72      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| litrobenzene                 | ND                |             | 9.5          | 0.28      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| -Nitrosodi-n-propylamin      | ND                |             | 9.5          | 0.51      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| I-Nitrosodiphenylamine       | ND                |             | 9.5          | 0.49      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| Pentachlorophenol            | ND                |             | 48           | 2.1       | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| henanthrene                  | ND                |             | 9.5          | 0.42      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| Phenol                       | ND                |             | 9.5          | 0.37      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| yrene                        | ND                |             | 9.5          | 0.32      | ug/L          | 1.00 | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| ,4,6-Tribromophenol          | 115 %             |             | Surr Limits: | (52-132%) |               |      | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| -Fluorobiphenyl              | 84 %              |             | Surr Limits: | (48-120%) |               |      | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| -Fluorophenol                | 48 %              |             | Surr Limits: | (20-120%) |               |      | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| litrobenzene-d5              | 88 %              |             | Surr Limits: | (46-120%) |               |      | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| Phenol-d5                    | 33 %              |             | Surr Limits: | (16-120%) |               |      | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| -Terphenyl-d14               | 54 %              |             | Surr Limits: | (24-136%) |               |      | 10/09/10 18:11 | MKP  | 10 1861    | 8270C   |
| Organochlorine Pesticid      |                   | lethod 8081 |              |           |               |      |                |      |            |         |
| ,4'-DDD                      | 0.25              |             | 0.24         | 0.043     | ug/L          | 5.00 | 09/28/10 23:09 |      | 10 1862    | 8081A   |
| ,4'-DDE                      | ND                |             | 0.24         | 0.055     | ug/L          | 5.00 | 09/28/10 23:09 |      | 10 1862    | 8081A   |
| ,4'-DDT                      | 0.20              | J           | 0.24         | 0.052     | ug/L          | 5.00 | 09/28/10 23:09 |      | 10 1862    | 8081A   |
| ldrin                        | ND                |             | 0.24         | 0.031     | ug/L          | 5.00 | 09/28/10 23:09 |      | 10 1862    | 8081A   |
| lpha-BHC                     | ND                |             | 0.24         | 0.031     | ug/L          | 5.00 | 09/28/10 23:09 | LMW  | 10 1862    | 8081A   |
| lpha-Chlordane               | ND                |             | 0.24         | 0.070     | ug/L          | 5.00 | 09/28/10 23:09 | LMW  | 10 1862    | 8081A   |
| eta-BHC                      | 0.21              | J           | 0.24         | 0.12      | ug/L          | 5.00 | 09/28/10 23:09 | LMW  | 10 1862    | 8081A   |
| Chlordane                    | ND                |             | 2.4          | 0.14      | ug/L          | 5.00 | 09/28/10 23:09 | LMW  | 10 1862    | 8081A   |
| elta-BHC                     | ND                |             | 0.24         | 0.048     | ug/L          | 5.00 | 09/28/10 23:09 |      | 10 1862    | 8081A   |
| ieldrin                      | 0.14              | J           | 0.24         | 0.046     | ug/L          | 5.00 | 09/28/10 23:09 | LMW  | 10 1862    | 8081A   |
| ndosulfan I                  | 0.070             | J           | 0.24         | 0.052     | ug/L          | 5.00 | 09/28/10 23:09 |      | 10 1862    | 8081A   |
| ndosulfan II                 | 0.14              | J           | 0.24         | 0.057     | ug/L          | 5.00 | 09/28/10 23:09 |      | 10 1862    | 8081A   |
|                              | 0.092             | J           | 0.24         |           | -             |      | 09/28/10 23:09 |      |            |         |
| Endosulfan sulfate           | 0.032             | J           | 0.24         | 0.074     | ug/L          | 5.00 | 09/20/10 23.09 |      | 10 1862    | 8081A   |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                         |              |             | A            | Analytical F | Report |           |                |      |             |         |
|-------------------------|--------------|-------------|--------------|--------------|--------|-----------|----------------|------|-------------|---------|
|                         | Sample       | Data        |              |              |        | Dil       | Date           | Lab  |             |         |
| Analyte                 | Result       | Qualifiers  | RL           | MDL          | Units  | Fac       | Analyzed       | Tech | Batch       | Method  |
| Sample ID: RTI1555-04 ( | MW-4 - Water | r) - cont.  |              |              | Sam    | pled: 09/ | /23/10 11:20   | Recv | /d: 09/24/1 | 0 09:00 |
| Organochlorine Pestici  | des by EPA M | lethod 8081 | A - cont.    |              |        |           |                |      |             |         |
| Endrin aldehyde         | ND           |             | 0.24         | 0.077        | ug/L   | 5.00      | 09/28/10 23:09 | LMW  | 1011862     | 8081A   |
| Endrin ketone           | ND           |             | 0.24         | 0.057        | ug/L   | 5.00      | 09/28/10 23:09 | LMW  | 10 1862     | 8081A   |
| gamma-BHC (Lindane)     | ND           |             | 0.24         | 0.028        | ug/L   | 5.00      | 09/28/10 23:09 | LMW  | 10 1862     | 8081A   |
| gamma-Chlordane         | 0.15         | J           | 0.24         | 0.052        | ug/L   | 5.00      | 09/28/10 23:09 | LMW  | 10 1862     | 8081A   |
| Heptachlor              | 0.14         | J           | 0.24         | 0.040        | ug/L   | 5.00      | 09/28/10 23:09 | LMW  | 10 1862     | 8081A   |
| Heptachlor epoxide      | ND           |             | 0.24         | 0.025        | ug/L   | 5.00      | 09/28/10 23:09 | LMW  | 10 1862     | 8081A   |
| Methoxychlor            | 0.16         | J           | 0.24         | 0.067        | ug/L   | 5.00      | 09/28/10 23:09 | LMW  | 1011862     | 8081A   |
| Toxaphene               | ND           |             | 2.4          | 0.57         | ug/L   | 5.00      | 09/28/10 23:09 | LMW  | 1011862     | 8081A   |
| Decachlorobiphenyl      | 14 %         | Ζ           | Surr Limits: | (15-139%)    |        |           | 09/28/10 23:09 | LMW  | 10 1862     | 8081A   |
| Tetrachloro-m-xylene    | 188 %        | Z1          | Surr Limits: | (30-139%)    |        |           | 09/28/10 23:09 | LMW  | 10 1862     | 8081A   |
| Polychlorinated Biphen  | yls by EPA N | lethod 8082 |              |              |        |           |                |      |             |         |
| Aroclor 1016            | ND           | QSU         | 0.47         | 0.17         | ug/L   | 1.00      | 09/29/10 00:14 | JxM  | 10 1863     | 8082    |
| Aroclor 1221            | ND           | QSU         | 0.47         | 0.17         | ug/L   | 1.00      | 09/29/10 00:14 | JxM  | 10 1863     | 8082    |
| Aroclor 1232            | ND           | QSU         | 0.47         | 0.17         | ug/L   | 1.00      | 09/29/10 00:14 | JxM  | 10 1863     | 8082    |
| Aroclor 1242            | ND           | QSU         | 0.47         | 0.17         | ug/L   | 1.00      | 09/29/10 00:14 | JxM  | 10 1863     | 8082    |
| Aroclor 1248            | ND           | QSU         | 0.47         | 0.17         | ug/L   | 1.00      | 09/29/10 00:14 | JxM  | 10 1863     | 8082    |
| Aroclor 1254            | ND           | QSU         | 0.47         | 0.24         | ug/L   | 1.00      | 09/29/10 00:14 | JxM  | 10 1863     | 8082    |
| Aroclor 1260            | ND           | QSU         | 0.47         | 0.24         | ug/L   | 1.00      | 09/29/10 00:14 | JxM  | 10 1863     | 8082    |
| Decachlorobiphenyl      | 46 %         | QSU         | Surr Limits: |              |        |           | 09/29/10 00:14 |      | 10 1863     | 8082    |
| Tetrachloro-m-xylene    | 73 %         | QSU         | Surr Limits: | (35-121%)    |        |           | 09/29/10 00:14 | JxM  | 10 1863     | 8082    |
| Total Metals by SW 846  | Series Metho | ods         |              |              |        |           |                |      |             |         |
| Aluminum                | ND           |             | 0.200        | NR           | mg/L   | 1.00      | 09/28/10 23:21 | MxM  | 10 1960     | 6010B   |
| Antimony                | ND           |             | 0.0200       | NR           | mg/L   | 1.00      | 09/28/10 23:21 | MxM  | 10 1960     | 6010B   |
| Arsenic                 | ND           |             | 0.0100       | NR           | mg/L   | 1.00      | 09/28/10 23:21 | MxM  | 10 1960     | 6010B   |
| Barium                  | 0.0687       |             | 0.0020       | NR           | mg/L   | 1.00      | 09/28/10 23:21 | MxM  | 10 1960     | 6010B   |
| Beryllium               | ND           |             | 0.0020       | NR           | mg/L   | 1.00      | 09/28/10 23:21 | MxM  | 10 1960     | 6010B   |
| Cadmium                 | ND           |             | 0.0010       | NR           | mg/L   | 1.00      | 09/28/10 23:21 | MxM  | 10 1960     | 6010B   |
| Calcium                 | 150          |             | 0.5          | NR           | mg/L   | 1.00      | 09/28/10 23:21 | MxM  | 10 1960     | 6010B   |
| Chromium                | ND           |             | 0.0040       | NR           | mg/L   | 1.00      | 09/28/10 23:21 |      | 10 1960     | 6010B   |
| Cobalt                  | ND           |             | 0.0040       | NR           | mg/L   | 1.00      | 09/28/10 23:21 |      | 10 1960     | 6010B   |
| Copper                  | ND           |             | 0.0100       | NR           | mg/L   | 1.00      | 09/28/10 23:21 |      | 10 1960     | 6010B   |
| Iron                    | ND           |             | 0.050        | NR           | mg/L   | 1.00      | 09/29/10 12:47 |      | 1011960     | 6010B   |
| Lead                    | ND           |             | 0.0050       | NR           | mg/L   | 1.00      | 09/28/10 23:21 |      | 1011960     | 6010B   |
| Magnesium               | 151          |             | 0.200        | NR           | mg/L   | 1.00      | 09/28/10 23:21 |      | 1011960     | 6010B   |
| Manganese               | 0.315        |             | 0.200        | NR           | -      | 1.00      | 09/28/10 23:21 |      | 1011960     | 6010B   |
| Nickel                  | 0.315<br>ND  |             | 0.0030       | NR           | mg/L   |           | 09/28/10 23:21 |      | 1011960     | 6010B   |
| Potassium               | 12.2         |             | 0.500        | NR           | mg/L   | 1.00      | 09/29/10 23.21 |      |             | 6010B   |
| Selenium                |              |             |              |              | mg/L   | 1.00      |                |      | 1011960     |         |
|                         | ND           |             | 0.0150       | NR           | mg/L   | 1.00      | 09/28/10 23:21 |      | 1011960     | 6010B   |
| Silver                  | ND           |             | 0.0030       | NR           | mg/L   | 1.00      | 09/28/10 23:21 |      | 1011960     | 6010B   |
| Sodium                  | 34.4         |             | 1.0          | NR           | mg/L   | 1.00      | 09/29/10 12:47 |      | 1011960     | 6010B   |
| Thallium                | ND           |             | 0.0200       | NR           | mg/L   | 1.00      | 09/28/10 23:21 |      | 10 1960     | 6010B   |
| Vanadium                | ND           |             | 0.0050       | NR           | mg/L   | 1.00      | 09/28/10 23:21 |      | 10 1960     | 6010B   |
| Zinc                    | ND           |             | 0.0100       | NR           | mg/L   | 1.00      | 09/28/10 23:21 | MxM  | 10 1960     | 6010B   |
| Mercury                 | ND           |             | 0.0002       | NR           | mg/L   | 1.00      | 09/30/10 12:33 | JRK  | 1012202     | 7470A   |

## **General Chemistry Parameters**

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THE LEADER IN ENVIRONMENTAL TESTING

Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066 Received: 09/24/10 Reported: 10/15/10 09:06

| Analytical Report  |                   |                    |        |     |       |            |                  |             |             |         |  |  |  |
|--------------------|-------------------|--------------------|--------|-----|-------|------------|------------------|-------------|-------------|---------|--|--|--|
| Analyte            | Sample<br>Result  | Data<br>Qualifiers | RL     | MDL | Units | Dil<br>Fac | Date<br>Analyzed | Lab<br>Tech | Batch       | Method  |  |  |  |
| Sample ID: RTI1555 | -04 (MW-4 - Water | r) - cont.         |        |     | Samı  | oled: 09/  | 23/10 11:20      | Recv        | /d: 09/24/1 | 0 09:00 |  |  |  |
| General Chemistry  | Parameters - con  | <u>t.</u>          |        |     |       |            |                  |             |             |         |  |  |  |
| Total Cyanide      | ND                | L                  | 0.0100 | NR  | mg/L  | 1.00       | 10/01/10 15:07   | RJF         | 1012226     | 9012A   |  |  |  |

TestAmerica

## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                              |             |            | Α   | nalytical F | Report |          |                |        |             |         |
|------------------------------|-------------|------------|-----|-------------|--------|----------|----------------|--------|-------------|---------|
|                              | Sample      | Data       |     |             |        | Dil      | Date           | Lab    |             |         |
| Analyte                      | Result      | Qualifiers | RL  | MDL         | Units  | Fac      | Analyzed       | Tech   | Batch       | Method  |
| Sample ID: RTI1555-05 (T     | RIP BLANK   | - Water)   |     |             | Sam    | pled: 09 | /24/10         | Recv   | rd: 09/24/1 | 0 15:10 |
| Volatile Organic Compou      | inds by EPA | A 8260B    |     |             |        |          |                |        |             |         |
| 1,1,1-Trichloroethane        | ND          |            | 1.0 | 0.82        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 10 2169     | 8260B   |
| 1,1,2,2-Tetrachloroethane    | ND          |            | 1.0 | 0.21        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 10 2169     | 8260B   |
| 1,1,2-Trichloroethane        | ND          |            | 1.0 | 0.23        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 1012169     | 8260B   |
| 1,1,2-Trichloro-1,2,2-triflu | ND          |            | 1.0 | 0.31        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 1012169     | 8260B   |
| oroethane                    |             |            |     |             |        |          |                |        |             |         |
| 1,1-Dichloroethane           | ND          |            | 1.0 | 0.38        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| 1,1-Dichloroethene           | ND          |            | 1.0 | 0.29        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| 1,2,4-Trichlorobenzene       | ND          |            | 1.0 | 0.41        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| 1,2-Dibromo-3-chloroprop     | ND          |            | 1.0 | 0.39        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 1012169     | 8260B   |
| ane<br>1,2-Dibromoethane     | ND          |            | 1.0 | 0.73        | ug/L   | 1.00     | 09/30/10 01:13 |        | 10 2169     | 8260B   |
| 1,2-Dichlorobenzene          | ND          |            | 1.0 | 0.73        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| 1,2-Dichloroethane           | ND          |            | 1.0 | 0.79        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| 1,2-Dichloropropane          | ND          |            | 1.0 | 0.21        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| 1,3-Dichlorobenzene          | ND          |            | 1.0 | 0.72        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| 1,4-Dichlorobenzene          | ND          |            | 1.0 | 0.84        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| 2-Butanone                   | ND          |            | 10  | 1.3         | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| 2-Hexanone                   | ND          |            | 5.0 | 1.2         | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| 4-Methyl-2-pentanone         | ND          |            | 5.0 | 2.1         | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| Acetone                      | ND          |            | 10  | 3.0         | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| Benzene                      | ND          |            | 1.0 | 0.41        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| Bromodichloromethane         | ND          |            | 1.0 | 0.39        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| Bromoform                    | ND          |            | 1.0 | 0.26        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| Bromomethane                 | ND          |            | 1.0 | 0.69        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| Carbon disulfide             | ND          |            | 1.0 | 0.19        | ug/L   | 1.00     | 09/30/10 01:13 |        | 10 2169     | 8260B   |
| Carbon Tetrachloride         | ND          |            | 1.0 | 0.27        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 10 2169     | 8260B   |
| Chlorobenzene                | ND          |            | 1.0 | 0.75        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 10 2169     | 8260B   |
| Dibromochloromethane         | ND          |            | 1.0 | 0.32        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 10 2169     | 8260B   |
| Chloroethane                 | ND          |            | 1.0 | 0.32        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 10 2169     | 8260B   |
| Chloroform                   | ND          |            | 1.0 | 0.34        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 10 2169     | 8260B   |
| Chloromethane                | ND          |            | 1.0 | 0.35        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 10 2169     | 8260B   |
| cis-1,2-Dichloroethene       | ND          |            | 1.0 | 0.81        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 10 2169     | 8260B   |
| cis-1,3-Dichloropropene      | ND          |            | 1.0 | 0.36        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 10 2169     | 8260B   |
| Cyclohexane                  | ND          |            | 1.0 | 0.18        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 1012169     | 8260B   |
| Dichlorodifluoromethane      | ND          |            | 1.0 | 0.68        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 1012169     | 8260B   |
| Ethylbenzene                 | ND          |            | 1.0 | 0.74        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 10 2169     | 8260B   |
| Isopropylbenzene             | ND          |            | 1.0 | 0.79        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 1012169     | 8260B   |
| Methyl Acetate               | ND          |            | 1.0 | 0.50        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 1012169     | 8260B   |
| Methyl-t-Butyl Ether         | ND          |            | 1.0 | 0.16        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 1012169     | 8260B   |
| (MTBE)                       |             |            |     |             |        |          |                |        |             |         |
| Methylcyclohexane            | ND          |            | 1.0 | 0.16        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| Methylene Chloride           | ND          |            | 1.0 | 0.44        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| Styrene                      | ND          |            | 1.0 | 0.73        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| Tetrachloroethene            | ND          |            | 1.0 | 0.36        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| Toluene                      | ND          |            | 1.0 | 0.51        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| trans-1,2-Dichloroethene     | ND          |            | 1.0 | 0.90        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| trans-1,3-Dichloropropen     | ND          |            | 1.0 | 0.37        | ug/L   | 1.00     | 09/30/10 01:13 | NMD    | 1012169     | 8260B   |
| e<br>Trichlereethene         |             |            | 1.0 | 0.40        | 110-11 | 1 00     | 00/20/40 04.40 |        | 1010400     | 00000   |
| Trichloroethene              | ND          |            | 1.0 | 0.46        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| Trichlorofluoromethane       | ND          |            | 1.0 | 0.88        | ug/L   | 1.00     | 09/30/10 01:13 |        | 1012169     | 8260B   |
| Vinyl chloride               | ND          |            | 1.0 | 0.90        | ug/L   | 1.00     | 09/30/10 01:13 | INIVID | 1012169     | 8260B   |

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THE LEADER IN ENVIRONMENTAL TESTING

| Benchmark Environmental & Engineering Science | Work Order: RTI1555                        | Received: | 09/24/10       |
|---|--|-----------|----------------|
| 2558 Hamburg Turnpike, Suite 300              |  | Reported: | 10/15/10 09:06 |
| Lackawanna, NY 14218                          | Project: Benchmark - 295 Maryland St. site |           |                |

Project Number: TURN-0066

|                         |                  |                    | ŀ                       | Analytical R | Report |            |                  |             |             |         |
|-------------------------|------------------|--------------------|-------------------------|--------------|--------|------------|------------------|-------------|-------------|---------|
| Analyte                 | Sample<br>Result | Data<br>Qualifiers | RL                      | MDL          | Units  | Dil<br>Fac | Date<br>Analyzed | Lab<br>Tech | Batch       | Method  |
| Sample ID: RTI1555-05 ( | TRIP BLANK       | - Water) - cont    |                         |              | Sam    | pled: 09/  | 24/10            | Recv        | /d: 09/24/1 | 0 15:10 |
| Volatile Organic Compo  | unds by EPA      | 8260B - cont.      |                         |              |        |            |                  |             |             |         |
| Xylenes, total          | ND               |                    | 2.0                     | 0.66         | ug/L   | 1.00       | 09/30/10 01:13   | NMD         | 1012169     | 8260B   |
| 1,2-Dichloroethane-d4   | 95 %             | S                  | urr Limits:             | (66-137%)    |        |            | 09/30/10 01:13   | NMD         | 10/2169     | 8260B   |
| 4-Bromofluorobenzene    | 105 %            | S                  | urr Limits:             | (73-120%)    |        |            | 09/30/10 01:13   | NMD         | 10/2169     | 8260B   |
| Toluene-d8              | 104 %            | S                  | urr Limits <sup>.</sup> | (71-126%)    |        |            | 09/30/10 01:13   | NMD         | 10/2169     | 8260B   |

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THE LEADER IN ENVIRONMENTAL TESTING

## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

#### Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |                      |            | SAMPLE   | EXTR  | ACTION  | DATA  |                |      |                   |
|---|----------------------|------------|----------|-------|---------|-------|----------------|------|-------------------|
|   |                      |            | Wt/Vol   |       | Extract |       |                | Lab  |                   |
| Parameter                                 | Batch                | Lab Number | Extracte | Units | Volume  | Units | Date Prepared  | Tech | Extraction Method |
| General Chemistry Parameters              | 1012226              |            | 50.00    | ml    | 50.00   | ml    | 00/20/10 14:00 | JME  | Cn Direction      |
| 9012A                                     | 1012226              | RTI1555-01 | 50.00    | mL    | 50.00   | mL    | 09/30/10 14:09 |      | Cn Digestion      |
| 9012A                                     | 10 2226              | RTI1555-02 | 50.00    | mL    | 50.00   | mL    | 09/30/10 14:09 | JME  | Cn Digestion      |
| 9012A                                     | 10 2226              | RTI1555-03 | 50.00    | mL    | 50.00   | mL    | 09/30/10 14:09 | JME  | Cn Digestion      |
| 9012A                                     | 1012226              | RTI1555-04 | 50.00    | mL    | 50.00   | mL    | 09/30/10 14:09 | JME  | Cn Digestion      |
| Organochlorine Pesticides by EPA<br>8081A | 1011862              | RTI1555-01 | 1,060.00 | mL    | 10.00   | mL    | 09/25/10 09:00 | BWM  | 3510C GC          |
| 8081A<br>8081A                            | 10 1862              | RTI1555-02 | 1,060.00 |       | 10.00   | mL    | 09/25/10 09:00 | BWM  | 3510C GC          |
|   |                      |            | ,        |       |         |       |                |      |                   |
| 8081A                                     | 10 1862              | RTI1555-03 | 1,060.00 | mL    | 10.00   | mL    | 09/25/10 09:00 | BWM  | 3510C GC          |
| 8081A<br>Polychlorinated Biphenyls by EPA | 10I1862<br>Method 80 | RTI1555-04 | 1,060.00 | mL    | 10.00   | mL    | 09/25/10 09:00 | BWM  | 3510C GC          |
| 8082                                      | 1011863              | RTI1555-01 | 1,060.00 | mL    | 10.00   | mL    | 09/25/10 09:00 | BWM  | 3510C GC          |
| 8082                                      | 10 1863              | RTI1555-02 | 1,060.00 | mL    | 10.00   | mL    | 09/25/10 09:00 | BWM  | 3510C GC          |
| 8082                                      | 10 1863              | RTI1555-03 | 1,060.00 | mL    | 10.00   | mL    | 09/25/10 09:00 | BWM  | 3510C GC          |
| 8082                                      | 10 1863              | RTI1555-04 | 1,060.00 | mL    | 10.00   | mL    | 09/25/10 09:00 |      | 3510C GC          |
| Semivolatile Organics by GC/MS            | 1011000              | 1111000 04 | 1,000.00 |       | 10.00   |       | 00/20/10 00:00 | Brin |                   |
| 8270C                                     | 10 1861              | RTI1555-01 | 1,040.00 | mL    | 1.00    | mL    | 09/25/10 09:00 | BWM  | 3510C MB          |
| 8270C                                     | 10 1861              | RTI1555-04 | 1,050.00 | mL    | 1.00    | mL    | 09/25/10 09:00 | BWM  | 3510C MB          |
| 8270C                                     | 10 1861              | RTI1555-02 | 1,060.00 | mL    | 1.00    | mL    | 09/25/10 09:00 | BWM  | 3510C MB          |
| 8270C                                     | 10 1861              | RTI1555-03 | 1,060.00 | mL    | 1.00    | mL    | 09/25/10 09:00 | BWM  | 3510C MB          |
| Total Metals by SW 846 Series Me          | ethods               |            |          |       |         |       |                |      |                   |
| 6010B                                     | 10 1960              | RTI1555-01 | 50.00    | mL    | 50.00   | mL    | 09/28/10 10:30 | MDM  | 3005A             |
| 6010B                                     | 10 1960              | RTI1555-02 | 50.00    | mL    | 50.00   | mL    | 09/28/10 10:30 | MDM  | 3005A             |
| 6010B                                     | 10 1960              | RTI1555-03 | 50.00    | mL    | 50.00   | mL    | 09/28/10 10:30 | MDM  | 3005A             |
| 6010B                                     | 10 1960              | RTI1555-04 | 50.00    | mL    | 50.00   | mL    | 09/28/10 10:30 | MDM  | 3005A             |
| 7470A                                     | 1012202              | RTI1555-01 | 30.00    | mL    | 50.00   | mL    | 09/30/10 11:15 | JRK  | 7470A             |
| 7470A                                     | 1012202              | RTI1555-02 | 30.00    | mL    | 50.00   | mL    | 09/30/10 11:15 | JRK  | 7470A             |
| 7470A                                     | 10 2202              | RTI1555-03 | 30.00    | mL    | 50.00   | mL    | 09/30/10 11:15 | JRK  | 7470A             |
| 7470A                                     | 1012202              | RTI1555-04 | 30.00    | mL    | 50.00   | mL    | 09/30/10 11:15 | JRK  | 7470A             |
| Volatile Organic Compounds by E           | PA 8260B             |            |          |       |         |       |                |      |                   |
| 8260B                                     | 1012207              | RTI1555-03 | 5.00     | mL    | 5.00    | mL    | 09/30/10 10:27 | DHC  | 5030B MS          |
| 8260B                                     | 1012207              | RTI1555-04 | 5.00     | mL    | 5.00    | mL    | 09/30/10 10:27 | DHC  | 5030B MS          |
| 8260B                                     | 1012169              | RTI1555-01 | 5.00     | mL    | 5.00    | mL    | 09/29/10 17:31 | NMD  | 5030B MS          |
| 8260B                                     | 1012169              | RTI1555-02 | 5.00     | mL    | 5.00    | mL    | 09/29/10 17:31 | NMD  | 5030B MS          |
| 8260B                                     | 1012169              | RTI1555-05 | 5.00     | mL    | 5.00    | mL    | 09/29/10 17:31 | NMD  | 5030B MS          |
|   |                      |            |          |       |         |       |                |      |                   |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|  |           |            | L         | ABORATORY       | QC DATA |        |     |        |        |     |            |
|--|-----------|------------|-----------|-----------------|---------|--------|-----|--------|--------|-----|------------|
|  | Source    | Spike      |           |                 |         |        | %   | % REC  | % R    | PD  | Data       |
| Analyte                                | Result    | Level      | RL        | MDL             | Units   | Result | REC | Limits | RPD Li | mit | Qualifiers |
| Volatile Organic Compou                | nds by EP | A 8260B    |           |                 |         |        |     |        |        |     |            |
| Blank Analyzed: 09/29/10               | (Lab Num  | nber:10 21 | 69-BLK1,∣ | Batch: 10I2169) |         |        |     |        |        |     |            |
| 1,1,1-Trichloroethane                  |           |            | 1.0       | 0.82            | ug/L    | ND     |     |        |        |     |            |
| 1,1,2,2-Tetrachloroethane              |           |            | 1.0       | 0.21            | ug/L    | ND     |     |        |        |     |            |
| 1,1,2-Trichloroethane                  |           |            | 1.0       | 0.23            | ug/L    | ND     |     |        |        |     |            |
| 1,1,2-Trichloro-1,2,2-triflu oroethane |           |            | 1.0       | 0.31            | ug/L    | ND     |     |        |        |     |            |
| 1,1-Dichloroethane                     |           |            | 1.0       | 0.38            | ug/L    | ND     |     |        |        |     |            |
| 1,1-Dichloroethene                     |           |            | 1.0       | 0.29            | ug/L    | ND     |     |        |        |     |            |
| 1,2,4-Trichlorobenzene                 |           |            | 1.0       | 0.41            | ug/L    | ND     |     |        |        |     |            |
| 1,2-Dibromo-3-chloroprop<br>ane        |           |            | 1.0       | 0.39            | ug/L    | ND     |     |        |        |     |            |
| 1,2-Dibromoethane                      |           |            | 1.0       | 0.73            | ug/L    | ND     |     |        |        |     |            |
| 1,2-Dichlorobenzene                    |           |            | 1.0       | 0.79            | ug/L    | ND     |     |        |        |     |            |
| 1,2-Dichloroethane                     |           |            | 1.0       | 0.21            | ug/L    | ND     |     |        |        |     |            |
| 1,2-Dichloropropane                    |           |            | 1.0       | 0.72            | ug/L    | ND     |     |        |        |     |            |
| 1,3-Dichlorobenzene                    |           |            | 1.0       | 0.78            | ug/L    | ND     |     |        |        |     |            |
| 1,4-Dichlorobenzene                    |           |            | 1.0       | 0.84            | ug/L    | ND     |     |        |        |     |            |
| 2-Butanone                             |           |            | 10        | 1.3             | ug/L    | ND     |     |        |        |     |            |
| 2-Hexanone                             |           |            | 5.0       | 1.2             | ug/L    | ND     |     |        |        |     |            |
| 4-Methyl-2-pentanone                   |           |            | 5.0       | 2.1             | ug/L    | ND     |     |        |        |     |            |
| Acetone                                |           |            | 10        | 3.0             | ug/L    | ND     |     |        |        |     |            |
| Benzene                                |           |            | 1.0       | 0.41            | ug/L    | ND     |     |        |        |     |            |
| Bromodichloromethane                   |           |            | 1.0       | 0.39            | ug/L    | ND     |     |        |        |     |            |
| Bromoform                              |           |            | 1.0       | 0.26            | ug/L    | ND     |     |        |        |     |            |
| Bromomethane                           |           |            | 1.0       | 0.69            | ug/L    | ND     |     |        |        |     |            |
| Carbon disulfide                       |           |            | 1.0       | 0.19            | ug/L    | ND     |     |        |        |     |            |
| Carbon Tetrachloride                   |           |            | 1.0       | 0.27            | ug/L    | ND     |     |        |        |     |            |
| Chlorobenzene                          |           |            | 1.0       | 0.75            | ug/L    | ND     |     |        |        |     |            |
| Dibromochloromethane                   |           |            | 1.0       | 0.32            | ug/L    | ND     |     |        |        |     |            |
| Chloroethane                           |           |            | 1.0       | 0.32            | ug/L    | ND     |     |        |        |     |            |
| Chloroform                             |           |            | 1.0       | 0.34            | ug/L    | ND     |     |        |        |     |            |
| Chloromethane                          |           |            | 1.0       | 0.35            | ug/L    | ND     |     |        |        |     |            |
| cis-1,2-Dichloroethene                 |           |            | 1.0       | 0.81            | ug/L    | ND     |     |        |        |     |            |
| cis-1,3-Dichloropropene                |           |            | 1.0       | 0.36            | ug/L    | ND     |     |        |        |     |            |
| Cyclohexane                            |           |            | 1.0       | 0.18            | ug/L    | ND     |     |        |        |     |            |
| Dichlorodifluoromethane                |           |            | 1.0       | 0.68            | ug/L    | ND     |     |        |        |     |            |
| Ethylbenzene                           |           |            | 1.0       | 0.74            | ug/L    | ND     |     |        |        |     |            |
| Isopropylbenzene                       |           |            | 1.0       | 0.79            | ug/L    | ND     |     |        |        |     |            |
| Methyl Acetate                         |           |            | 1.0       | 0.50            | ug/L    | ND     |     |        |        |     |            |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |            |                | LÆ         | BORATORY        | QC DATA |        |     |        |       |       |            |
|---|------------|----------------|------------|-----------------|---------|--------|-----|--------|-------|-------|------------|
|   | Source     | Spike          |            |                 |         |        | %   | % REC  | %     | RPD   | Data       |
| Analyte                                       | Result     | Level          | RL         | MDL             | Units   | Result | REC | Limits | RPD L | .imit | Qualifiers |
| Volatile Organic Compou                       | unds by EP | <u>A 8260B</u> |            |                 |         |        |     |        |       |       |            |
| Blank Analyzed: 09/29/10                      | ) (Lab Num | nher:10 21     | 69-BIK1 F  | Ratch: 1012169) |         |        |     |        |       |       |            |
| Methyl-t-Butyl Ether                          |            |                | 1.0        | 0.16            | ug/L    | ND     |     |        |       |       |            |
| (MTBE)  |            |                |            |                 | -       |        |     |        |       |       |            |
| Methylcyclohexane                             |            |                | 1.0        | 0.16            | ug/L    | ND     |     |        |       |       |            |
| Methylene Chloride                            |            |                | 1.0        | 0.44            | ug/L    | ND     |     |        |       |       |            |
| Styrene                                       |            |                | 1.0        | 0.73            | ug/L    | ND     |     |        |       |       |            |
| Tetrachloroethene                             |            |                | 1.0        | 0.36            | ug/L    | ND     |     |        |       |       |            |
| Toluene                                       |            |                | 1.0        | 0.51            | ug/L    | ND     |     |        |       |       |            |
| trans-1,2-Dichloroethene                      |            |                | 1.0        | 0.90            | ug/L    | ND     |     |        |       |       |            |
| trans-1,3-Dichloropropen<br>e                 |            |                | 1.0        | 0.37            | ug/L    | ND     |     |        |       |       |            |
| Trichloroethene                               |            |                | 1.0        | 0.46            | ug/L    | ND     |     |        |       |       |            |
| Trichlorofluoromethane                        |            |                | 1.0        | 0.88            | ug/L    | ND     |     |        |       |       |            |
| Vinyl chloride                                |            |                | 1.0        | 0.90            | ug/L    | ND     |     |        |       |       |            |
| Xylenes, total                                |            |                | 2.0        | 0.66            | ug/L    | ND     |     |        |       |       |            |
| Surrogate:                                    |            |                |            |                 | ug/L    |        | 95  | 66-137 |       |       |            |
| 1,2-Dichloroethane-d4<br>Surrogate:           |            |                |            |                 | ug/L    |        | 106 | 73-120 |       |       |            |
| 4-Bromofluorobenzene<br>Surrogate: Toluene-d8 |            |                |            |                 | ug/L    |        | 105 | 71-126 |       |       |            |
| LCS Analyzed: 09/29/10                        | (Lab Numb  | er:10 2169     | -BS1, Bate | ch: 10l2169)    |         |        |     |        |       |       |            |
| 1,1,1-Trichloroethane                         |            |                | 1.0        | 0.82            | ug/L    | ND     |     | 73-126 |       |       |            |
| 1,1,2,2-Tetrachloroethane                     |            |                | 1.0        | 0.21            | ug/L    | ND     |     | 70-126 |       |       |            |
| 1,1,2-Trichloroethane                         |            |                | 1.0        | 0.23            | ug/L    | ND     |     | 76-122 |       |       |            |
| 1,1,2-Trichloro-1,2,2-triflu<br>oroethane     |            |                | 1.0        | 0.31            | ug/L    | ND     |     | 60-140 |       |       |            |
| 1,1-Dichloroethane                            |            | 25.0           | 1.0        | 0.38            | ug/L    | 23.0   | 92  | 71-129 |       |       |            |
| 1,1-Dichloroethene                            |            | 25.0           | 1.0        | 0.29            | ug/L    | 22.7   | 91  | 65-138 |       |       |            |
| 1,2,4-Trichlorobenzene                        |            |                | 1.0        | 0.41            | ug/L    | ND     |     | 70-122 |       |       |            |
| 1,2-Dibromo-3-chloroprop<br>ane               |            |                | 1.0        | 0.39            | ug/L    | ND     |     | 56-134 |       |       |            |
| 1,2-Dibromoethane                             |            |                | 1.0        | 0.73            | ug/L    | ND     |     | 77-120 |       |       |            |
| 1,2-Dichlorobenzene                           |            | 25.0           | 1.0        | 0.79            | ug/L    | 24.5   | 98  | 77-120 |       |       |            |
| 1,2-Dichloroethane                            |            | 25.0           | 1.0        | 0.21            | ug/L    | 22.3   | 89  | 75-127 |       |       |            |
| 1,2-Dichloropropane                           |            |                | 1.0        | 0.72            | ug/L    | ND     |     | 76-120 |       |       |            |
| 1,3-Dichlorobenzene                           |            |                | 1.0        | 0.78            | ug/L    | ND     |     | 77-120 |       |       |            |
| 1,4-Dichlorobenzene                           |            |                | 1.0        | 0.84            | ug/L    | ND     |     | 75-120 |       |       |            |
| 2-Butanone                                    |            |                | 10         | 1.3             | ug/L    | ND     |     | 57-140 |       |       |            |
| 2-Hexanone                                    |            |                | 5.0        | 1.2             | ug/L    | ND     |     | 65-127 |       |       |            |
| 4-Methyl-2-pentanone                          |            |                | 5.0        | 2.1             | ug/L    | ND     |     | 71-125 |       |       |            |
| Acetone                                       |            |                | 10         | 3.0             | ug/L    | ND     |     | 56-142 |       |       |            |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                                     |            |             | LA          | BORATORY     | QC DATA |        |     |        |           |            |
|-------------------------------------|------------|-------------|-------------|--------------|---------|--------|-----|--------|-----------|------------|
|                                     | Source     | Spike       |             |              |         |        | %   | % REC  | % RPD     | Data       |
| Analyte                             | Result     | Level       | RL          | MDL          | Units   | Result | REC | Limits | RPD Limit | Qualifiers |
| Volatile Organic Compo              | unds by EP | A 8260B     |             |              |         |        |     |        |           |            |
| LCS Analyzed: 09/29/10              | (Lab Numb  | oer:10 2169 | 9-BS1, Bato | :h: 10l2169) |         |        |     |        |           |            |
| Benzene                             |            | 25.0        | 1.0         | 0.41         | ug/L    | 23.3   | 93  | 71-124 |           |            |
| Bromodichloromethane                |            |             | 1.0         | 0.39         | ug/L    | ND     |     | 80-122 |           |            |
| Bromoform                           |            |             | 1.0         | 0.26         | ug/L    | ND     |     | 66-128 |           |            |
| Bromomethane                        |            |             | 1.0         | 0.69         | ug/L    | ND     |     | 36-150 |           |            |
| Carbon disulfide                    |            |             | 1.0         | 0.19         | ug/L    | ND     |     | 59-134 |           |            |
| Carbon Tetrachloride                |            |             | 1.0         | 0.27         | ug/L    | ND     |     | 72-134 |           |            |
| Chlorobenzene                       |            | 25.0        | 1.0         | 0.75         | ug/L    | 24.7   | 99  | 72-120 |           |            |
| Dibromochloromethane                |            |             | 1.0         | 0.32         | ug/L    | ND     |     | 75-125 |           |            |
| Chloroethane                        |            |             | 1.0         | 0.32         | ug/L    | ND     |     | 69-136 |           |            |
| Chloroform                          |            |             | 1.0         | 0.34         | ug/L    | ND     |     | 73-127 |           |            |
| Chloromethane                       |            |             | 1.0         | 0.35         | ug/L    | ND     |     | 49-142 |           |            |
| cis-1,2-Dichloroethene              |            | 25.0        | 1.0         | 0.81         | ug/L    | 23.1   | 92  | 74-124 |           |            |
| cis-1,3-Dichloropropene             |            |             | 1.0         | 0.36         | ug/L    | ND     |     | 74-124 |           |            |
| Cyclohexane                         |            |             | 1.0         | 0.18         | ug/L    | ND     |     | 70-130 |           |            |
| Dichlorodifluoromethane             |            |             | 1.0         | 0.68         | ug/L    | ND     |     | 33-157 |           |            |
| Ethylbenzene                        |            | 25.0        | 1.0         | 0.74         | ug/L    | 24.2   | 97  | 77-123 |           |            |
| Isopropylbenzene                    |            |             | 1.0         | 0.79         | ug/L    | ND     |     | 77-122 |           |            |
| Methyl Acetate                      |            |             | 1.0         | 0.50         | ug/L    | ND     |     | 60-140 |           |            |
| Methyl-t-Butyl Ether<br>(MTBE)      |            | 25.0        | 1.0         | 0.16         | ug/L    | 19.4   | 78  | 64-127 |           |            |
| Methylcyclohexane                   |            |             | 1.0         | 0.16         | ug/L    | ND     |     | 60-140 |           |            |
| Methylene Chloride                  |            |             | 1.0         | 0.44         | ug/L    | ND     |     | 57-132 |           |            |
| Styrene                             |            |             | 1.0         | 0.73         | ug/L    | ND     |     | 70-130 |           |            |
| Tetrachloroethene                   |            | 25.0        | 1.0         | 0.36         | ug/L    | 25.6   | 102 | 74-122 |           |            |
| Toluene                             |            | 25.0        | 1.0         | 0.51         | ug/L    | 23.0   | 92  | 70-122 |           |            |
| trans-1,2-Dichloroethene            |            | 25.0        | 1.0         | 0.90         | ug/L    | 23.7   | 95  | 73-127 |           |            |
| trans-1,3-Dichloropropen<br>e       |            |             | 1.0         | 0.37         | ug/L    | ND     |     | 72-123 |           |            |
| Trichloroethene                     |            | 25.0        | 1.0         | 0.46         | ug/L    | 24.0   | 96  | 74-123 |           |            |
| Trichlorofluoromethane              |            |             | 1.0         | 0.88         | ug/L    | ND     |     | 62-152 |           |            |
| Vinyl chloride                      |            |             | 1.0         | 0.90         | ug/L    | ND     |     | 65-133 |           |            |
| Xylenes, total                      |            | 75.0        | 2.0         | 0.66         | ug/L    | 72.7   | 97  | 76-122 |           |            |
| Surrogate:<br>1,2-Dichloroethane-d4 |            |             |             |              | ug/L    |        | 96  | 66-137 |           |            |
| Surrogate:<br>4-Bromofluorobenzene  |            |             |             |              | ug/L    |        | 108 | 73-120 |           |            |
| Surrogate: Toluene-d8               |            |             |             |              | ug/L    |        | 104 | 71-126 |           |            |

## Matrix Spike Analyzed: 09/30/10 (Lab Number:10I2169-MS1, Batch: 10I2169)

QC Source Sample: RTI1555-02

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

e Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |            |                | LA           | BORATORY        | QC DATA |        |     |        |           |            |
|---|------------|----------------|--------------|-----------------|---------|--------|-----|--------|-----------|------------|
|   | Source     | Spike          | Ξ.           |                 |         |        | %   | % REC  | % RPD     | Data       |
| Analyte   | Result     | Level          | RL           | MDL             | Units   | Result | REC | Limits | RPD Limit | Qualifiers |
| Volatile Organic Compou                                 | unds by EP | <u>A 8260B</u> |              |                 |         |        |     |        |           |            |
| Matrix Spike Analyzed: 0<br>QC Source Sample: RTI1555-0 | -          | ab Numbe       | er:10 2169-N | IS1, Batch: 10I | 2169)   |        |     |        |           |            |
| 1,1,1-Trichloroethane                                   | ND         |                | 5.0          | 4.1             | ug/L    | ND     |     | 73-126 |           | D03        |
| 1,1,2,2-Tetrachloroethane                               | ND         |                | 5.0          | 1.1             | ug/L    | ND     |     | 70-126 |           | D03        |
| 1,1,2-Trichloroethane                                   | ND         |                | 5.0          | 1.2             | ug/L    | ND     |     | 76-122 |           | D03        |
| 1,1,2-Trichloro-1,2,2-triflu oroethane                  | ND         |                | 5.0          | 1.5             | ug/L    | ND     |     | 60-140 |           | D03        |
| 1,1-Dichloroethane                                      | ND         | 125            | 5.0          | 1.9             | ug/L    | 117    | 94  | 71-129 |           | D03        |
| 1,1-Dichloroethene                                      | ND         | 125            | 5.0          | 1.5             | ug/L    | 118    | 94  | 65-138 |           | D03        |
| 1,2,4-Trichlorobenzene                                  | ND         |                | 5.0          | 2.0             | ug/L    | ND     |     | 70-122 |           | D03        |
| 1,2-Dibromo-3-chloroprop                                | ND         |                | 5.0          | 2.0             | ug/L    | ND     |     | 56-134 |           | D03        |
| ane<br>1,2-Dibromoethane                                | ND         |                | 5.0          | 3.6             | ug/L    | ND     |     | 77-120 |           | D03        |
| 1,2-Dichlorobenzene                                     | ND         | 125            | 5.0          | 4.0             | ug/L    | 123    | 98  | 77-120 |           | D03        |
| 1,2-Dichloroethane                                      | ND         | 125            | 5.0          | 1.1             | ug/L    | 116    | 93  | 75-127 |           | D03        |
| 1,2-Dichloropropane                                     | ND         |                | 5.0          | 3.6             | ug/L    | ND     |     | 76-120 |           | D03        |
| 1,3-Dichlorobenzene                                     | ND         |                | 5.0          | 3.9             | ug/L    | ND     |     | 77-120 |           | D03        |
| 1,4-Dichlorobenzene                                     | ND         |                | 5.0          | 4.2             | ug/L    | ND     |     | 75-120 |           | D03        |
| 2-Butanone  | ND         |                | 50           | 6.6             | ug/L    | ND     |     | 57-140 |           | D03        |
| 2-Hexanone  | ND         |                | 25           | 6.2             | ug/L    | ND     |     | 65-127 |           | D03        |
| 4-Methyl-2-pentanone                                    | ND         |                | 25           | 10              | ug/L    | ND     |     | 71-125 |           | D03        |
| Acetone   | ND         |                | 50           | 15              | ug/L    | ND     |     | 56-142 |           | D03        |
| Benzene   | 37.8       | 125            | 5.0          | 2.0             | ug/L    | 153    | 92  | 71-124 |           | D03        |
| Bromodichloromethane                                    | ND         |                | 5.0          | 1.9             | ug/L    | ND     |     | 80-122 |           | D03        |
| Bromoform   | ND         |                | 5.0          | 1.3             | ug/L    | ND     |     | 66-128 |           | D03        |
| Bromomethane  | ND         |                | 5.0          | 3.4             | ug/L    | ND     |     | 36-150 |           | D03        |
| Carbon disulfide  | ND         |                | 5.0          | 0.97            | ug/L    | ND     |     | 59-134 |           | D03        |
| Carbon Tetrachloride                                    | ND         |                | 5.0          | 1.3             | ug/L    | ND     |     | 72-134 |           | D03        |
| Chlorobenzene   | ND         | 125            | 5.0          | 3.8             | ug/L    | 125    | 100 | 72-120 |           | D03        |
| Dibromochloromethane                                    | ND         |                | 5.0          | 1.6             | ug/L    | ND     |     | 75-125 |           | D03        |
| Chloroethane  | ND         |                | 5.0          | 1.6             | ug/L    | ND     |     | 69-136 |           | D03        |
| Chloroform  | 4.20       |                | 5.0          | 1.7             | ug/L    | 4.15   |     | 73-127 |           | D03,J      |
| Chloromethane   | ND         |                | 5.0          | 1.7             | ug/L    | ND     |     | 49-142 |           | D03        |
| cis-1,2-Dichloroethene                                  | ND         | 125            | 5.0          | 4.0             | ug/L    | 116    | 93  | 74-124 |           | D03        |
| cis-1,3-Dichloropropene                                 | ND         |                | 5.0          | 1.8             | ug/L    | ND     |     | 74-124 |           | D03        |
| Cyclohexane   | ND         |                | 5.0          | 0.90            | ug/L    | ND     |     | 70-130 |           | D03        |
| Dichlorodifluoromethane                                 | ND         |                | 5.0          | 3.4             | ug/L    | ND     |     | 33-157 |           | D03        |
| Ethylbenzene  | 39.2       | 125            | 5.0          | 3.7             | ug/L    | 156    | 94  | 77-123 |           | D03        |
| Isopropylbenzene  | ND         |                | 5.0          | 4.0             | ug/L    | ND     |     | 77-122 |           | D03        |
| Methyl Acetate  | ND         |                | 5.0          | 2.5             | ug/L    | ND     |     | 60-140 |           | D03        |

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THE LEADER IN ENVIRONMENTAL TESTING

## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

| LABORATORY QC DATA  |           |           |             |                  |             |        |     |        |     |       |            |
|---|-----------|-----------|-------------|------------------|-------------|--------|-----|--------|-----|-------|------------|
|   | Source    | Spike     |             |                  |             |        | %   | % REC  | %   | RPD   | Data       |
| Analyte   | Result    | Level     | RL          | MDL              | Units       | Result | REC | Limits | RPD | Limit | Qualifiers |
| Volatile Organic Compou                                     | nds by EP | A 8260B   |             |                  |             |        |     |        |     |       |            |
| Matrix Spike Analyzed: 09<br>QC Source Sample: RTI1555-02   | -         | ab Numbe  | r:10l2169-N | IS1, Batch: 1012 | 2169)       |        |     |        |     |       |            |
| Methyl-t-Butyl Ether<br>(MTBE)                              | ND        | 125       | 5.0         | 0.80             | ug/L        | 103    | 83  | 64-127 |     |       | D03        |
| Methylcyclohexane   | ND        |           | 5.0         | 0.80             | ug/L        | ND     |     | 60-140 |     |       | D03        |
| Methylene Chloride  | ND        |           | 5.0         | 2.2              | ug/L        | ND     |     | 57-132 |     |       | D03        |
| Styrene   | ND        |           | 5.0         | 3.6              | ug/L        | ND     |     | 70-130 |     |       | D03        |
| Tetrachloroethene   | ND        | 125       | 5.0         | 1.8              | ug/L        | 124    | 99  | 74-122 |     |       | D03        |
| Toluene   | 18.0      | 125       | 5.0         | 2.6              | ug/L        | 133    | 92  | 70-122 |     |       | D03        |
| trans-1,2-Dichloroethene                                    | ND        | 125       | 5.0         | 4.5              | ug/L        | 120    | 96  | 73-127 |     |       | D03        |
| trans-1,3-Dichloropropen<br>e                               | ND        |           | 5.0         | 1.8              | ug/L        | ND     |     | 72-123 |     |       | D03        |
| Trichloroethene   | ND        | 125       | 5.0         | 2.3              | ug/L        | 120    | 96  | 74-123 |     |       | D03        |
| Trichlorofluoromethane                                      | ND        |           | 5.0         | 4.4              | ug/L        | ND     |     | 62-152 |     |       | D03        |
| Vinyl chloride  | ND        |           | 5.0         | 4.5              | ug/L        | ND     |     | 65-133 |     |       | D03        |
| Xylenes, total  | 96.6      | 375       | 10          | 3.3              | ug/L        | 454    | 95  | 76-122 |     |       | D03        |
| Surrogate:  |           |           |             |                  | ug/L        |        | 96  | 66-137 |     |       | D03        |
| 1,2-Dichloroethane-d4<br>Surrogate:<br>4-Bromofluorobenzene |           |           |             |                  | ug/L        |        | 106 | 73-120 |     |       | D03        |
| Surrogate: Toluene-d8                                       |           |           |             |                  | ug/L        |        | 103 | 71-126 |     |       | D03        |
| Matrix Spike Dup Analyze<br>QC Source Sample: RTI1555-02    |           | 0 (Lab Nu | mber:10121  | 69-MSD1, Batc    | h: 10l2169) |        |     |        |     |       |            |
| 1,1,1-Trichloroethane                                       | ND        |           | 5.0         | 4.1              | ug/L        | ND     |     | 73-126 |     | 15    | D03        |
| 1,1,2,2-Tetrachloroethane                                   | ND        |           | 5.0         | 1.1              | ug/L        | ND     |     | 70-126 |     | 15    | D03        |
| 1,1,2-Trichloroethane                                       | ND        |           | 5.0         | 1.2              | ug/L        | ND     |     | 76-122 |     | 15    | D03        |
| 1,1,2-Trichloro-1,2,2-triflu oroethane                      | ND        |           | 5.0         | 1.5              | ug/L        | ND     |     | 60-140 |     | 20    | D03        |
| 1,1-Dichloroethane  | ND        | 125       | 5.0         | 1.9              | ug/L        | 119    | 95  | 71-129 | 1   | 20    | D03        |
| 1,1-Dichloroethene  | ND        | 125       | 5.0         | 1.5              | ug/L        | 121    | 97  | 65-138 | 3   | 16    | D03        |
| 1,2,4-Trichlorobenzene                                      | ND        |           | 5.0         | 2.0              | ug/L        | ND     |     | 70-122 |     | 20    | D03        |
| 1,2-Dibromo-3-chloroprop<br>ane                             | ND        |           | 5.0         | 2.0              | ug/L        | ND     |     | 56-134 |     | 15    | D03        |
| 1,2-Dibromoethane   | ND        |           | 5.0         | 3.6              | ug/L        | ND     |     | 77-120 |     | 15    | D03        |
| 1,2-Dichlorobenzene   | ND        | 125       | 5.0         | 4.0              | ug/L        | 126    | 101 | 77-120 | 3   | 20    | D03        |
| 1,2-Dichloroethane  | ND        | 125       | 5.0         | 1.1              | ug/L        | 118    | 94  | 75-127 | 2   | 20    | D03        |
| 1,2-Dichloropropane   | ND        |           | 5.0         | 3.6              | ug/L        | ND     |     | 76-120 |     | 20    | D03        |
| 1,3-Dichlorobenzene   | ND        |           | 5.0         | 3.9              | ug/L        | ND     |     | 77-120 |     | 20    | D03        |
| 1,4-Dichlorobenzene   | ND        |           | 5.0         | 4.2              | ug/L        | ND     |     | 75-120 |     | 20    | D03        |
| 2-Butanone  | ND        |           | 50          | 6.6              | ug/L        | ND     |     | 57-140 |     | 20    | D03        |
| 2-Hexanone  | ND        |           | 25          | 6.2              | ug/L        | ND     |     | 65-127 |     | 15    | D03        |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|  | <b>6</b>         | Om:1+ -        | L/-        | BORATORY      | SO DAIA      |        |          | <b>•</b>        | •        |       |                    |
|--|------------------|----------------|------------|---------------|--------------|--------|----------|-----------------|----------|-------|--------------------|
| Analyta  | Source<br>Result | Spike<br>Level | RL         | MDL           | Units        | Booult | %<br>REC | % REC<br>Limits | %<br>RPD | RPD   | Data<br>Qualifiers |
| Analyte Volatile Organic Compo                         |                  |                |            |               | Units        | Result | REC      | Linits          | INF D    | Linnt | Quaimers           |
| <u> </u>   | <b>-</b>         |                |            |               |              |        |          |                 |          |       |                    |
| Matrix Spike Dup Analyz<br>QC Source Sample: RTI1555-0 |                  | 0 (Lab Nu      | mber:10121 | 69-MSD1, Bato | :h: 10l2169) |        |          |                 |          |       |                    |
| 4-Methyl-2-pentanone                                   | ND               |                | 25         | 10            | ug/L         | ND     |          | 71-125          |          | 35    | D03                |
| Acetone  | ND               |                | 50         | 15            | ug/L         | ND     |          | 56-142          |          | 15    | D03                |
| Benzene  | 37.8             | 125            | 5.0        | 2.0           | ug/L         | 155    | 94       | 71-124          | 1        | 13    | D03                |
| Bromodichloromethane                                   | ND               |                | 5.0        | 1.9           | ug/L         | ND     |          | 80-122          |          | 15    | D03                |
| Bromoform  | ND               |                | 5.0        | 1.3           | ug/L         | ND     |          | 66-128          |          | 15    | D03                |
| Bromomethane   | ND               |                | 5.0        | 3.4           | ug/L         | ND     |          | 36-150          |          | 15    | D03                |
| Carbon disulfide                                       | ND               |                | 5.0        | 0.97          | ug/L         | ND     |          | 59-134          |          | 15    | D03                |
| Carbon Tetrachloride                                   | ND               |                | 5.0        | 1.3           | ug/L         | ND     |          | 72-134          |          | 15    | D03                |
| Chlorobenzene  | ND               | 125            | 5.0        | 3.8           | ug/L         | 127    | 102      | 72-120          | 1        | 25    | D03                |
| Dibromochloromethane                                   | ND               |                | 5.0        | 1.6           | ug/L         | ND     |          | 75-125          |          | 15    | D03                |
| Chloroethane   | ND               |                | 5.0        | 1.6           | ug/L         | ND     |          | 69-136          |          | 15    | D03                |
| Chloroform   | 4.20             |                | 5.0        | 1.7           | ug/L         | 4.15   |          | 73-127          | 0        | 20    | D03,J              |
| Chloromethane  | ND               |                | 5.0        | 1.7           | ug/L         | ND     |          | 49-142          |          | 15    | D03                |
| cis-1,2-Dichloroethene                                 | ND               | 125            | 5.0        | 4.0           | ug/L         | 121    | 97       | 74-124          | 4        | 15    | D03                |
| cis-1,3-Dichloropropene                                | ND               |                | 5.0        | 1.8           | ug/L         | ND     |          | 74-124          |          | 15    | D03                |
| Cyclohexane  | ND               |                | 5.0        | 0.90          | ug/L         | ND     |          | 70-130          |          | 20    | D03                |
| Dichlorodifluoromethane                                | ND               |                | 5.0        | 3.4           | ug/L         | ND     |          | 33-157          |          | 20    | D03                |
| Ethylbenzene   | 39.2             | 125            | 5.0        | 3.7           | ug/L         | 160    | 96       | 77-123          | 2        | 15    | D03                |
| lsopropylbenzene                                       | ND               |                | 5.0        | 4.0           | ug/L         | ND     |          | 77-122          |          | 20    | D03                |
| Methyl Acetate   | ND               |                | 5.0        | 2.5           | ug/L         | ND     |          | 60-140          |          | 20    | D03                |
| Methyl-t-Butyl Ether<br>(MTBE)                         | ND               | 125            | 5.0        | 0.80          | ug/L         | 103    | 82       | 64-127          | 0.4      | 37    | D03                |
| Methylcyclohexane                                      | ND               |                | 5.0        | 0.80          | ug/L         | ND     |          | 60-140          |          | 20    | D03                |
| Methylene Chloride                                     | ND               |                | 5.0        | 2.2           | ug/L         | ND     |          | 57-132          |          | 15    | D03                |
| Styrene  | ND               |                | 5.0        | 3.6           | ug/L         | ND     |          | 70-130          |          | 20    | D03                |
| Tetrachloroethene                                      | ND               | 125            | 5.0        | 1.8           | ug/L         | 128    | 102      | 74-122          | 3        | 20    | D03                |
| Toluene  | 18.0             | 125            | 5.0        | 2.6           | ug/L         | 137    | 95       | 70-122          | 2        | 15    | D03                |
| trans-1,2-Dichloroethene                               | ND               | 125            | 5.0        | 4.5           | ug/L         | 122    | 98       | 73-127          | 1        | 20    | D03                |
| trans-1,3-Dichloropropen<br>e                          | ND               |                | 5.0        | 1.8           | ug/L         | ND     |          | 72-123          |          | 15    | D03                |
| Trichloroethene  | ND               | 125            | 5.0        | 2.3           | ug/L         | 122    | 98       | 74-123          | 2        | 16    | D03                |
| Trichlorofluoromethane                                 | ND               |                | 5.0        | 4.4           | ug/L         | ND     |          | 62-152          |          | 20    | D03                |
| √inyl chloride   | ND               |                | 5.0        | 4.5           | ug/L         | ND     |          | 65-133          |          | 15    | D03                |
| Xylenes, total   | 96.6             | 375            | 10         | 3.3           | ug/L         | 462    | 97       | 76-122          | 2        | 16    | D03                |
| Surrogate:<br>1,2-Dichloroethane-d4                    |                  |                |            |               | ug/L         |        | 97       | 66-137          |          |       | D03                |
| Surrogate:<br>4-Bromofluorobenzene                     |                  |                |            |               | ug/L         |        | 106      | 73-120          |          |       | D03                |
| Surrogate: Toluene-d8                                  |                  |                |            |               | ug/L         |        | 102      | 71-126          |          |       | D03                |

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THE LEADER IN ENVIRONMENTAL TESTING

| Benchmark Environmental & Engineering Science | Work Order: RTI1555                        |
|---|--|
| 2558 Hamburg Turnpike, Suite 300              |  |
| Lackawanna, NY 14218                          | Project: Benchmark - 295 Maryland St. site |
|   | Project Number: TURN-0066                  |

## Received: 09/24/10 Reported: 10/15/10 09:06

## Volatile Organic Compounds by EPA 8260B

## Blank Analyzed: 09/30/10 (Lab Number:10l2207-BLK1, Batch: 10l2207)

| Blaint Analyzoa. 00/00/10              | DEITI, DUIO |      |      |    |
|--|-------------|------|------|----|
| 1,1,1-Trichloroethane                  | 1.0         | 0.82 | ug/L | ND |
| 1,1,2,2-Tetrachloroethane              | 1.0         | 0.21 | ug/L | ND |
| 1,1,2-Trichloroethane                  | 1.0         | 0.23 | ug/L | ND |
| 1,1,2-Trichloro-1,2,2-triflu oroethane | 1.0         | 0.31 | ug/L | ND |
| 1,1-Dichloroethane                     | 1.0         | 0.38 | ug/L | ND |
| 1,1-Dichloroethene                     | 1.0         | 0.29 | ug/L | ND |
| 1,2,4-Trichlorobenzene                 | 1.0         | 0.41 | ug/L | ND |
| 1,2-Dibromo-3-chloroprop<br>ane        | 1.0         | 0.39 | ug/L | ND |
| 1,2-Dibromoethane                      | 1.0         | 0.73 | ug/L | ND |
| 1,2-Dichlorobenzene                    | 1.0         | 0.79 | ug/L | ND |
| 1,2-Dichloroethane                     | 1.0         | 0.21 | ug/L | ND |
| 1,2-Dichloropropane                    | 1.0         | 0.72 | ug/L | ND |
| 1,3-Dichlorobenzene                    | 1.0         | 0.78 | ug/L | ND |
| 1,4-Dichlorobenzene                    | 1.0         | 0.84 | ug/L | ND |
| 2-Butanone                             | 10          | 1.3  | ug/L | ND |
| 2-Hexanone                             | 5.0         | 1.2  | ug/L | ND |
| 4-Methyl-2-pentanone                   | 5.0         | 2.1  | ug/L | ND |
| Acetone                                | 10          | 3.0  | ug/L | ND |
| Benzene                                | 1.0         | 0.41 | ug/L | ND |
| Bromodichloromethane                   | 1.0         | 0.39 | ug/L | ND |
| Bromoform                              | 1.0         | 0.26 | ug/L | ND |
| Bromomethane                           | 1.0         | 0.69 | ug/L | ND |
| Carbon disulfide                       | 1.0         | 0.19 | ug/L | ND |
| Carbon Tetrachloride                   | 1.0         | 0.27 | ug/L | ND |
| Chlorobenzene                          | 1.0         | 0.75 | ug/L | ND |
| Dibromochloromethane                   | 1.0         | 0.32 | ug/L | ND |
| Chloroethane                           | 1.0         | 0.32 | ug/L | ND |
| Chloroform                             | 1.0         | 0.34 | ug/L | ND |
| Chloromethane                          | 1.0         | 0.35 | ug/L | ND |
| cis-1,2-Dichloroethene                 | 1.0         | 0.81 | ug/L | ND |
| cis-1,3-Dichloropropene                | 1.0         | 0.36 | ug/L | ND |
| Cyclohexane                            | 1.0         | 0.18 | ug/L | ND |
| Dichlorodifluoromethane                | 1.0         | 0.68 | ug/L | ND |
| Ethylbenzene                           | 1.0         | 0.74 | ug/L | ND |
| Isopropylbenzene                       | 1.0         | 0.79 | ug/L | ND |
| Methyl Acetate                         | 1.0         | 0.50 | ug/L | ND |
| Methyl-t-Butyl Ether<br>(MTBE)         | 1.0         | 0.16 | ug/L | ND |
| Methylcyclohexane                      | 1.0         | 0.16 | ug/L | ND |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|  |            |                | LA          | BORATORY        | QC DATA |        |     |        |          |              |
|--|------------|----------------|-------------|-----------------|---------|--------|-----|--------|----------|--------------|
|  | Source     | Spike          |             |                 |         |        | %   | % REC  | % RPI    | D Data       |
| Analyte                                | Result     | Level          | RL          | MDL             | Units   | Result | REC | Limits | RPD Limi | t Qualifiers |
| Volatile Organic Compou                | inds by EP | <u>A 8260B</u> |             |                 |         |        |     |        |          |              |
| Blank Analyzed: 09/30/10               | (I ah Num  | 10122          | 07-BIK1 B   | latch: 10 2207) |         |        |     |        |          |              |
| Methylene Chloride                     |            |                | 1.0         | 0.44            | ug/L    | ND     |     |        |          |              |
| Styrene                                |            |                | 1.0         | 0.73            | ug/L    | ND     |     |        |          |              |
| Tetrachloroethene                      |            |                | 1.0         | 0.36            | ug/L    | ND     |     |        |          |              |
| Toluene                                |            |                | 1.0         | 0.51            | ug/L    | ND     |     |        |          |              |
| trans-1,2-Dichloroethene               |            |                | 1.0         | 0.90            | ug/L    | ND     |     |        |          |              |
| trans-1,3-Dichloropropen               |            |                | 1.0         | 0.37            | ug/L    | ND     |     |        |          |              |
| e                                      |            |                |             |                 | •       |        |     |        |          |              |
| Trichloroethene                        |            |                | 1.0         | 0.46            | ug/L    | ND     |     |        |          |              |
| Trichlorofluoromethane                 |            |                | 1.0         | 0.88            | ug/L    | ND     |     |        |          |              |
| Vinyl chloride                         |            |                | 1.0         | 0.90            | ug/L    | ND     |     |        |          |              |
| Xylenes, total                         |            |                | 2.0         | 0.66            | ug/L    | ND     |     |        |          |              |
| Surrogate:<br>1,2-Dichloroethane-d4    |            |                |             |                 | ug/L    |        | 95  | 66-137 |          |              |
| Surrogate:<br>4-Bromofluorobenzene     |            |                |             |                 | ug/L    |        | 106 | 73-120 |          |              |
| Surrogate: Toluene-d8                  |            |                |             |                 | ug/L    |        | 107 | 71-126 |          |              |
| LCS Analyzed: 09/30/10                 | (Lab Numb  | er:10 220      | 7-BS1, Bate | ch: 10l2207)    |         |        |     |        |          |              |
| 1,1,1-Trichloroethane                  |            |                | 1.0         | 0.82            | ug/L    | ND     |     | 73-126 |          |              |
| 1,1,2,2-Tetrachloroethane              |            |                | 1.0         | 0.21            | ug/L    | ND     |     | 70-126 |          |              |
| 1,1,2-Trichloroethane                  |            |                | 1.0         | 0.23            | ug/L    | ND     |     | 76-122 |          |              |
| 1,1,2-Trichloro-1,2,2-triflu oroethane |            |                | 1.0         | 0.31            | ug/L    | ND     |     | 60-140 |          |              |
| 1,1-Dichloroethane                     |            | 25.0           | 1.0         | 0.38            | ug/L    | 22.1   | 88  | 71-129 |          |              |
| 1,1-Dichloroethene                     |            | 25.0           | 1.0         | 0.29            | ug/L    | 22.6   | 90  | 65-138 |          |              |
| 1,2,4-Trichlorobenzene                 |            |                | 1.0         | 0.41            | ug/L    | ND     |     | 70-122 |          |              |
| 1,2-Dibromo-3-chloroprop               |            |                | 1.0         | 0.39            | ug/L    | ND     |     | 56-134 |          |              |
| ane<br>1,2-Dibromoethane               |            |                | 1.0         | 0.73            | ug/L    | ND     |     | 77-120 |          |              |
| 1,2-Dichlorobenzene                    |            | 25.0           | 1.0         | 0.79            | ug/L    | 24.1   | 96  | 77-120 |          |              |
| 1,2-Dichloroethane                     |            | 25.0           | 1.0         | 0.21            | ug/L    | 22.1   | 88  | 75-127 |          |              |
| 1,2-Dichloropropane                    |            | 2010           | 1.0         | 0.72            | ug/L    | ND     |     | 76-120 |          |              |
| 1,3-Dichlorobenzene                    |            |                | 1.0         | 0.78            | ug/L    | ND     |     | 77-120 |          |              |
| 1,4-Dichlorobenzene                    |            |                | 1.0         | 0.84            | ug/L    | ND     |     | 75-120 |          |              |
| 2-Butanone                             |            |                | 10          | 1.3             | ug/L    | ND     |     | 57-140 |          |              |
| 2-Hexanone                             |            |                | 5.0         | 1.2             | ug/L    | ND     |     | 65-127 |          |              |
| 4-Methyl-2-pentanone                   |            |                | 5.0         | 2.1             | ug/L    | ND     |     | 71-125 |          |              |
| Acetone                                |            |                | 10          | 3.0             | ug/L    | ND     |     | 56-142 |          |              |
| Benzene                                |            | 25.0           | 1.0         | 0.41            | ug/L    | 22.1   | 88  | 71-124 |          |              |
| Bromodichloromethane                   |            | 20.0           | 1.0         | 0.39            | ug/L    | ND     | -   | 80-122 |          |              |
|  |            |                | -           | <del>-</del>    | - 3     |        |     |        |          |              |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |            |            | LA          | BORATORY    | QC DATA |        |     |        |           |            |
|---|------------|------------|-------------|-------------|---------|--------|-----|--------|-----------|------------|
| • • .   | Source     | Spike      | RL          | MDI         |         |        | %   | % REC  | % RPD     | Data       |
| Analyte Volatile Organic Compo                              | Result     |            |             | MDL         | Units   | Result | REC | Limits | RPD Limit | Qualifiers |
|   | unus by Er | A 0200D    |             |             |         |        |     |        |           |            |
| LCS Analyzed: 09/30/10                                      | (Lab Numb  | er:10 2207 | 7-BS1, Bato | h: 10l2207) |         |        |     |        |           |            |
| Bromoform   |            |            | 1.0         | 0.26        | ug/L    | ND     |     | 66-128 |           |            |
| Bromomethane  |            |            | 1.0         | 0.69        | ug/L    | ND     |     | 36-150 |           |            |
| Carbon disulfide  |            |            | 1.0         | 0.19        | ug/L    | ND     |     | 59-134 |           |            |
| Carbon Tetrachloride  |            |            | 1.0         | 0.27        | ug/L    | ND     |     | 72-134 |           |            |
| Chlorobenzene   |            | 25.0       | 1.0         | 0.75        | ug/L    | 24.1   | 96  | 72-120 |           |            |
| Dibromochloromethane  |            |            | 1.0         | 0.32        | ug/L    | ND     |     | 75-125 |           |            |
| Chloroethane  |            |            | 1.0         | 0.32        | ug/L    | ND     |     | 69-136 |           |            |
| Chloroform  |            |            | 1.0         | 0.34        | ug/L    | ND     |     | 73-127 |           |            |
| Chloromethane   |            |            | 1.0         | 0.35        | ug/L    | ND     |     | 49-142 |           |            |
| cis-1,2-Dichloroethene                                      |            | 25.0       | 1.0         | 0.81        | ug/L    | 22.2   | 89  | 74-124 |           |            |
| cis-1,3-Dichloropropene                                     |            |            | 1.0         | 0.36        | ug/L    | ND     |     | 74-124 |           |            |
| Cyclohexane   |            |            | 1.0         | 0.18        | ug/L    | ND     |     | 70-130 |           |            |
| Dichlorodifluoromethane                                     |            |            | 1.0         | 0.68        | ug/L    | ND     |     | 33-157 |           |            |
| Ethylbenzene  |            | 25.0       | 1.0         | 0.74        | ug/L    | 23.2   | 93  | 77-123 |           |            |
| Isopropylbenzene  |            |            | 1.0         | 0.79        | ug/L    | ND     |     | 77-122 |           |            |
| Methyl Acetate  |            |            | 1.0         | 0.50        | ug/L    | ND     |     | 60-140 |           |            |
| Methyl-t-Butyl Ether<br>(MTBE)                              |            | 25.0       | 1.0         | 0.16        | ug/L    | 19.0   | 76  | 64-127 |           |            |
| Methylcyclohexane   |            |            | 1.0         | 0.16        | ug/L    | ND     |     | 60-140 |           |            |
| Methylene Chloride  |            |            | 1.0         | 0.44        | ug/L    | ND     |     | 57-132 |           |            |
| Styrene   |            |            | 1.0         | 0.73        | ug/L    | ND     |     | 70-130 |           |            |
| Tetrachloroethene   |            | 25.0       | 1.0         | 0.36        | ug/L    | 24.6   | 99  | 74-122 |           |            |
| Toluene   |            | 25.0       | 1.0         | 0.51        | ug/L    | 22.2   | 89  | 70-122 |           |            |
| trans-1,2-Dichloroethene                                    |            | 25.0       | 1.0         | 0.90        | ug/L    | 22.5   | 90  | 73-127 |           |            |
| trans-1,3-Dichloropropen<br>e                               |            |            | 1.0         | 0.37        | ug/L    | ND     |     | 72-123 |           |            |
| Trichloroethene   |            | 25.0       | 1.0         | 0.46        | ug/L    | 22.5   | 90  | 74-123 |           |            |
| Trichlorofluoromethane                                      |            |            | 1.0         | 0.88        | ug/L    | ND     |     | 62-152 |           |            |
| Vinyl chloride  |            |            | 1.0         | 0.90        | ug/L    | ND     |     | 65-133 |           |            |
| Xylenes, total  |            | 75.0       | 2.0         | 0.66        | ug/L    | 69.5   | 93  | 76-122 |           |            |
| Surrogate:  |            |            |             |             | ug/L    |        | 97  | 66-137 |           |            |
| 1,2-Dichloroethane-d4<br>Surrogate:<br>4-Bromofluorobenzene |            |            |             |             | ug/L    |        | 106 | 73-120 |           |            |
| Surrogate: Toluene-d8                                       |            |            |             |             | ug/L    |        | 106 | 71-126 |           |            |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                             |          |            | L        | ABORATORY       | QC DATA |        |     |        |           |            |
|-----------------------------|----------|------------|----------|-----------------|---------|--------|-----|--------|-----------|------------|
|                             | Source   | Spike      |          |                 |         |        | %   | % REC  | % RPD     | Data       |
| Analyte                     | Result   | Level      | RL       | MDL             | Units   | Result | REC | Limits | RPD Limit | Qualifiers |
| Semivolatile Organics by    | GC/MS    |            |          |                 |         |        |     |        |           |            |
| Blank Analyzed: 10/09/10    | (Lab Num | nber:10 18 | 61-BLK1, | Batch: 10I1861) |         |        |     |        |           |            |
| 2,4,5-Trichlorophenol       |          |            | 25       | 0.48            | ug/L    | ND     |     |        |           |            |
| 2,4,6-Trichlorophenol       |          |            | 10       | 0.61            | ug/L    | ND     |     |        |           |            |
| 2,4-Dichlorophenol          |          |            | 10       | 0.51            | ug/L    | ND     |     |        |           |            |
| 2,4-Dimethylphenol          |          |            | 10       | 0.50            | ug/L    | ND     |     |        |           |            |
| 2,4-Dinitrophenol           |          |            | 50       | 2.2             | ug/L    | ND     |     |        |           |            |
| 2,4-Dinitrotoluene          |          |            | 10       | 0.45            | ug/L    | ND     |     |        |           |            |
| 2,6-Dinitrotoluene          |          |            | 10       | 0.40            | ug/L    | ND     |     |        |           |            |
| 2-Chloronaphthalene         |          |            | 10       | 0.46            | ug/L    | ND     |     |        |           |            |
| 2-Chlorophenol              |          |            | 10       | 0.53            | ug/L    | ND     |     |        |           |            |
| 2-Methylnaphthalene         |          |            | 10       | 0.60            | ug/L    | ND     |     |        |           |            |
| 2-Methylphenol              |          |            | 10       | 0.40            | ug/L    | ND     |     |        |           |            |
| 2-Nitroaniline              |          |            | 50       | 0.42            | ug/L    | ND     |     |        |           |            |
| 2-Nitrophenol               |          |            | 10       | 0.48            | ug/L    | ND     |     |        |           |            |
| 3,3'-Dichlorobenzidine      |          |            | 20       | 0.40            | ug/L    | ND     |     |        |           |            |
| 3-Nitroaniline              |          |            | 50       | 0.48            | ug/L    | ND     |     |        |           |            |
| 4,6-Dinitro-2-methylphen ol |          |            | 50       | 2.2             | ug/L    | ND     |     |        |           |            |
| 4-Bromophenyl phenyl ether  |          |            | 10       | 0.45            | ug/L    | ND     |     |        |           |            |
| 4-Chloro-3-methylphenol     |          |            | 10       | 0.45            | ug/L    | ND     |     |        |           |            |
| 4-Chloroaniline             |          |            | 10       | 0.59            | ug/L    | ND     |     |        |           |            |
| 4-Chlorophenyl phenyl ether |          |            | 10       | 0.35            | ug/L    | ND     |     |        |           |            |
| 4-Methylphenol              |          |            | 5.0      | 0.36            | ug/L    | ND     |     |        |           |            |
| 4-Nitroaniline              |          |            | 50       | 0.25            | ug/L    | ND     |     |        |           |            |
| 4-Nitrophenol               |          |            | 50       | 1.5             | ug/L    | ND     |     |        |           |            |
| Acenaphthene                |          |            | 10       | 0.41            | ug/L    | ND     |     |        |           |            |
| Acenaphthylene              |          |            | 10       | 0.38            | ug/L    | ND     |     |        |           |            |
| Acetophenone                |          |            | 10       | 0.54            | ug/L    | ND     |     |        |           |            |
| Anthracene                  |          |            | 10       | 0.28            | ug/L    | ND     |     |        |           |            |
| Atrazine                    |          |            | 10       | 0.46            | ug/L    | ND     |     |        |           |            |
| Benzaldehyde                |          |            | 50       | 0.27            | ug/L    | ND     |     |        |           |            |
| Benzo(a)anthracene          |          |            | 10       | 0.36            | ug/L    | ND     |     |        |           |            |
| Benzo(a)pyrene              |          |            | 10       | 0.47            | ug/L    | ND     |     |        |           |            |
| Benzo(b)fluoranthene        |          |            | 10       | 0.34            | ug/L    | ND     |     |        |           |            |
| Benzo(ghi)perylene          |          |            | 10       | 0.35            | ug/L    | ND     |     |        |           |            |
| Benzo(k)fluoranthene        |          |            | 10       | 0.73            | ug/L    | ND     |     |        |           |            |
| Biphenyl                    |          |            | 10       | 0.65            | ug/L    | ND     |     |        |           |            |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|  |                |            | LA         | BORATORY        | QC DATA |        |     |        |                    |
|--|----------------|------------|------------|-----------------|---------|--------|-----|--------|--------------------|
|  | Source         | Spike      |            |                 |         |        | %   | % REC  | % RPD Data         |
| Analyte  | Result         | Level      | RL         | MDL             | Units   | Result | REC | Limits | RPD Limit Qualifie |
| Semivolatile Organics by                               | <u>/ GC/MS</u> |            |            |                 |         |        |     |        |                    |
| Blank Analyzed: 10/09/10                               | ) (Lab Nun     | nber:10 18 | 61-BLK1, E | Batch: 10I1861) |         |        |     |        |                    |
| Bis(2-chloroethoxy)metha ne                            |                |            | 10         | 0.35            | ug/L    | ND     |     |        |                    |
| Bis(2-chloroethyl)ether                                |                |            | 10         | 0.40            | ug/L    | ND     |     |        |                    |
| 2,2'-Oxybis(1-Chloroprop ane)                          |                |            | 10         | 0.52            | ug/L    | ND     |     |        |                    |
| Bis(2-ethylhexyl)<br>phthalate                         |                |            | 10         | 1.8             | ug/L    | ND     |     |        |                    |
| Butyl benzyl phthalate                                 |                |            | 10         | 0.42            | ug/L    | ND     |     |        |                    |
| Caprolactam  |                |            | 10         | 2.2             | ug/L    | ND     |     |        |                    |
| Carbazole  |                |            | 5.0        | 0.30            | ug/L    | ND     |     |        |                    |
| Chrysene   |                |            | 10         | 0.33            | ug/L    | ND     |     |        |                    |
| Dibenzo(a,h)anthracene                                 |                |            | 10         | 0.42            | ug/L    | ND     |     |        |                    |
| Dibenzofuran   |                |            | 10         | 0.51            | ug/L    | ND     |     |        |                    |
| Diethyl phthalate                                      |                |            | 10         | 0.22            | ug/L    | ND     |     |        |                    |
| Dimethyl phthalate                                     |                |            | 10         | 0.36            | ug/L    | ND     |     |        |                    |
| Di-n-butyl phthalate                                   |                |            | 10         | 0.31            | ug/L    | ND     |     |        |                    |
| Di-n-octyl phthalate                                   |                |            | 10         | 0.47            | ug/L    | ND     |     |        |                    |
| Fluoranthene   |                |            | 10         | 0.40            | ug/L    | ND     |     |        |                    |
| Fluorene   |                |            | 10         | 0.36            | ug/L    | ND     |     |        |                    |
| Hexachlorobenzene                                      |                |            | 10         | 0.51            | ug/L    | ND     |     |        |                    |
| Hexachlorobutadiene                                    |                |            | 10         | 0.68            | ug/L    | ND     |     |        |                    |
| Hexachlorocyclopentadie ne                             |                |            | 10         | 0.59            | ug/L    | ND     |     |        |                    |
| Hexachloroethane                                       |                |            | 10         | 0.59            | ug/L    | ND     |     |        |                    |
| Indeno(1,2,3-cd)pyrene                                 |                |            | 10         | 0.47            | ug/L    | ND     |     |        |                    |
| Isophorone   |                |            | 10         | 0.43            | ug/L    | ND     |     |        |                    |
| Naphthalene  |                |            | 10         | 0.76            | ug/L    | ND     |     |        |                    |
| Nitrobenzene   |                |            | 10         | 0.29            | ug/L    | ND     |     |        |                    |
| N-Nitrosodi-n-propylamin<br>e                          |                |            | 10         | 0.54            | ug/L    | ND     |     |        |                    |
| N-Nitrosodiphenylamine                                 |                |            | 10         | 0.51            | ug/L    | ND     |     |        |                    |
| Pentachlorophenol                                      |                |            | 50         | 2.2             | ug/L    | ND     |     |        |                    |
| Phenanthrene   |                |            | 10         | 0.44            | ug/L    | ND     |     |        |                    |
| Phenol   |                |            | 10         | 0.39            | ug/L    | ND     |     |        |                    |
| Pyrene   |                |            | 10         | 0.34            | ug/L    | ND     |     |        |                    |
| Surrogate:   |                |            |            |                 | ug/L    |        | 94  | 52-132 |                    |
| 2,4,6-Tribromophenol<br>Surrogate:<br>2-Fluorobiphenyl |                |            |            |                 | ug/L    |        | 69  | 48-120 |                    |
| Surrogate:<br>2-Fluorophenol                           |                |            |            |                 | ug/L    |        | 37  | 20-120 |                    |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

e Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                               |            |          | L           | ABORATORY        | QC DATA       |            |     |        |       |      |            |
|-------------------------------|------------|----------|-------------|------------------|---------------|------------|-----|--------|-------|------|------------|
|                               | Source     | Spike    |             |                  |               |            | %   | % REC  | % I   | RPD  | Data       |
| Analyte                       | Result     | Level    | RL          | MDL              | Units         | Result     | REC | Limits | RPD L | imit | Qualifiers |
| Semivolatile Organics by      | GC/MS      |          |             |                  |               |            |     |        |       |      |            |
| Blank Analyzed: 10/09/10      | ) (Lab Num | bor 1011 | 861-BIK1 I  | Batch: 10 1861)  |               |            |     |        |       |      |            |
| Surrogate:                    |            |          | OUT-DERT, I |                  | ug/L          |            | 67  | 46-120 |       |      |            |
| Nitrobenzene-d5               |            |          |             |                  | -             |            |     |        |       |      |            |
| Surrogate: Phenol-d5          |            |          |             |                  | ug/L          |            | 28  | 16-120 |       |      |            |
| Surrogate:<br>p-Terphenyl-d14 |            |          |             |                  | ug/L          |            | 77  | 24-136 |       |      |            |
| LCS Analyzed: 10/09/10        | (Lab Numb  | er:10 18 | 61-BS1, Bat | ch: 10l1861)     |               |            |     |        |       |      |            |
| 1,2,4-Trichlorobenzene        |            | 100      | 10          | 0.44             | ug/L          | 65.6       | 66  | 40-120 |       |      |            |
| 1,2-Dichlorobenzene           |            |          | 10          | 0.40             | ug/L          | ND         |     | 33-120 |       |      |            |
| 1,3-Dichlorobenzene           |            |          | 10          | 0.48             | ug/L          | ND         |     | 28-120 |       |      |            |
| 2,4,5-Trichlorophenol         |            |          | 50          | 0.48             | ug/L          | ND         |     | 65-126 |       |      |            |
| 2,4,6-Trichlorophenol         |            |          | 10          | 0.61             | ug/L          | ND         |     | 64-120 |       |      |            |
| 2,4-Dichlorophenol            |            |          | 10          | 0.51             | ug/L          | ND         |     | 64-120 |       |      |            |
| 2,4-Dimethylphenol            |            |          | 10          | 0.50             | ug/L          | ND         |     | 57-120 |       |      |            |
| 2,4-Dinitrophenol             |            |          | 50          | 2.2              | ug/L          | ND         |     | 42-153 |       |      |            |
| 2,4-Dinitrotoluene            |            | 100      | 10          | 0.45             | ug/L          | 93.7       | 94  | 59-125 |       |      |            |
| 2,6-Dinitrotoluene            |            |          | 10          | 0.40             | ug/L          | ND         |     | 74-134 |       |      |            |
| 2-Chloronaphthalene           |            |          | 10          | 0.46             | ug/L          | ND         |     | 52-120 |       |      |            |
| 2-Chlorophenol                |            | 100      | 10          | 0.53             | ug/L          | 62.9       | 63  | 48-120 |       |      |            |
| 2-Methylnaphthalene           |            |          | 10          | 0.60             | ug/L          | ND         |     | 48-120 |       |      |            |
| 2-Methylphenol                |            |          | 10          | 0.40             | ug/L          | ND         |     | 39-120 |       |      |            |
| 2-Nitroaniline                |            |          | 50          | 0.42             | ug/L          | ND         |     | 67-136 |       |      |            |
| 2-Nitrophenol                 |            |          | 10          | 0.48             | ug/L          | ND         |     | 59-120 |       |      |            |
| 3,3'-Dichlorobenzidine        |            |          | 20          | 0.40             | ug/L          | ND         |     | 33-140 |       |      |            |
| 3-Nitroaniline                |            |          | 50          | 0.48             | ug/L          | ND         |     | 69-129 |       |      |            |
| 4,6-Dinitro-2-methylphen ol   |            |          | 50          | 2.2              | ug/L          | ND         |     | 64-159 |       |      |            |
| 4-Bromophenyl phenyl<br>ether |            |          | 10          | 0.45             | ug/L          | ND         |     | 71-126 |       |      |            |
| 4-Chloro-3-methylphenol       |            | 100      | 10          | 0.45             | ug/L          | 85.5       | 86  | 64-120 |       |      |            |
| 4-Chloroaniline               |            |          | 10          | 0.59             | ug/L          | ND         |     | 60-124 |       |      |            |
| 4-Chlorophenyl phenyl ether   |            |          | 10          | 0.35             | ug/L          | ND         |     | 71-122 |       |      |            |
| 4-Methylphenol                |            |          | 5.0         | 0.36             | ug/L          | ND         |     | 36-120 |       |      |            |
| 4-Nitroaniline                |            |          | 50          | 0.25             | ug/L          | ND         |     | 64-135 |       |      |            |
| 4-Nitrophenol                 |            | 100      | 50          | 1.5              | ug/L          | 29.4       | 29  | 16-120 |       |      | J          |
| Acenaphthene                  |            | 100      | 10          | 0.41             | ug/L          | 81.4       | 81  | 60-120 |       |      |            |
| Acenaphthylene                |            |          | 10          | 0.38             | ug/L          | ND         |     | 63-120 |       |      |            |
| Acetophenone                  |            |          | 10          | 0.54             | ug/L          | ND         |     | 45-120 |       |      |            |
| Anthracene                    |            |          | 10          | 0.28             | ug/L          | ND         |     | 69-131 |       |      |            |
| Atrazine                      |            |          | 10          | 0.46             | ug/L          | ND         |     | 70-129 |       |      |            |
| TestAmerica Buffalo - 10      |            |          |             | (11220 tol 716 6 | 01 2600 fox 7 | 16 601 700 | 1   |        |       |      |            |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                                  |           |           | L/          | BORATORY     | QC DATA |        |     |        |           |            |
|----------------------------------|-----------|-----------|-------------|--------------|---------|--------|-----|--------|-----------|------------|
|                                  | Source    | Spike     |             |              |         |        | %   | % REC  | % RPD     | Data       |
| Analyte                          | Result    | Level     | RL          | MDL          | Units   | Result | REC | Limits | RPD Limit | Qualifiers |
| Semivolatile Organics by         | GC/MS     |           |             |              |         |        |     |        |           |            |
| LCS Analyzed: 10/09/10           | (Lab Numb | er:10 186 | 1-BS1. Bate | ch: 10 1861) |         |        |     |        |           |            |
| Benzaldehyde                     | (         |           | 50          | 0.27         | ug/L    | ND     |     | 30-140 |           |            |
| Benzo(a)anthracene               |           |           | 10          | 0.36         | ug/L    | ND     |     | 73-138 |           |            |
| Benzo(a)pyrene                   |           |           | 10          | 0.47         | ug/L    | ND     |     | 74-126 |           |            |
| Benzo(b)fluoranthene             |           |           | 10          | 0.34         | ug/L    | ND     |     | 75-133 |           |            |
| Benzo(ghi)perylene               |           |           | 10          | 0.35         | ug/L    | ND     |     | 66-152 |           |            |
| Benzo(k)fluoranthene             |           |           | 10          | 0.73         | ug/L    | ND     |     | 75-133 |           |            |
| Biphenyl                         |           |           | 10          | 0.65         | ug/L    | ND     |     | 30-140 |           |            |
| Bis(2-chloroethoxy)metha ne      |           |           | 10          | 0.35         | ug/L    | ND     |     | 62-120 |           |            |
| Bis(2-chloroethyl)ether          |           |           | 10          | 0.40         | ug/L    | ND     |     | 51-120 |           |            |
| 2,2'-Oxybis(1-Chloroprop<br>ane) |           |           | 10          | 0.52         | ug/L    | ND     |     | 47-120 |           |            |
| Bis(2-ethylhexyl)<br>phthalate   |           | 100       | 10          | 1.8          | ug/L    | 88.3   | 88  | 69-136 |           |            |
| Butyl benzyl phthalate           |           |           | 10          | 0.42         | ug/L    | 0.690  |     | 62-149 |           | J          |
| Caprolactam                      |           |           | 10          | 2.2          | ug/L    | ND     |     | 30-140 |           |            |
| Carbazole                        |           |           | 5.0         | 0.30         | ug/L    | ND     |     | 68-133 |           |            |
| Chrysene                         |           |           | 10          | 0.33         | ug/L    | ND     |     | 69-140 |           |            |
| Dibenzo(a,h)anthracene           |           |           | 10          | 0.42         | ug/L    | ND     |     | 67-144 |           |            |
| Dibenzofuran                     |           |           | 10          | 0.51         | ug/L    | ND     |     | 66-120 |           |            |
| Diethyl phthalate                |           |           | 10          | 0.22         | ug/L    | ND     |     | 78-128 |           |            |
| Dimethyl phthalate               |           |           | 10          | 0.36         | ug/L    | ND     |     | 73-127 |           |            |
| Di-n-butyl phthalate             |           |           | 10          | 0.31         | ug/L    | 0.360  |     | 67-132 |           | J          |
| Di-n-octyl phthalate             |           |           | 10          | 0.47         | ug/L    | ND     |     | 72-145 |           |            |
| Fluoranthene                     |           |           | 10          | 0.40         | ug/L    | 1.13   |     | 67-133 |           | J          |
| Fluorene                         |           | 100       | 10          | 0.36         | ug/L    | 89.4   | 89  | 66-129 |           |            |
| Hexachlorobenzene                |           |           | 10          | 0.51         | ug/L    | ND     |     | 38-131 |           |            |
| Hexachlorobutadiene              |           |           | 10          | 0.68         | ug/L    | ND     |     | 30-120 |           |            |
| Hexachlorocyclopentadie<br>ne    |           |           | 10          | 0.59         | ug/L    | ND     |     | 23-120 |           |            |
| Hexachloroethane                 |           | 100       | 10          | 0.59         | ug/L    | 56.4   | 56  | 25-120 |           |            |
| Indeno(1,2,3-cd)pyrene           |           |           | 10          | 0.47         | ug/L    | ND     |     | 69-146 |           |            |
| Isophorone                       |           |           | 10          | 0.43         | ug/L    | ND     |     | 64-120 |           |            |
| Naphthalene                      |           |           | 10          | 0.76         | ug/L    | ND     |     | 48-120 |           |            |
| Nitrobenzene                     |           |           | 10          | 0.29         | ug/L    | ND     |     | 52-120 |           |            |
| N-Nitrosodi-n-propylamin<br>e    |           | 100       | 10          | 0.54         | ug/L    | 73.3   | 73  | 56-120 |           |            |
| N-Nitrosodiphenylamine           |           |           | 10          | 0.51         | ug/L    | ND     |     | 25-125 |           |            |
| Pentachlorophenol                |           | 100       | 50          | 2.2          | ug/L    | 92.7   | 93  | 39-136 |           |            |
| Phenanthrene                     |           |           | 10          | 0.44         | ug/L    | ND     |     | 67-130 |           |            |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                                |             |                        | LA         | BORATORY         | QC DATA |        |     |        |     |       |            |
|--------------------------------|-------------|------------------------|------------|------------------|---------|--------|-----|--------|-----|-------|------------|
|                                | Source      | Spike                  |            |                  |         |        | %   | % REC  | %   | RPD   | Data       |
| Analyte                        | Result      | Level                  | RL         | MDL              | Units   | Result | REC | Limits | RPD | Limit | Qualifiers |
| Semivolatile Organics by       | GC/MS       |                        |            |                  |         |        |     |        |     |       |            |
| LCS Analyzed: 10/09/10         | (I ab Numh  | er:10 186 <sup>,</sup> | 1-BS1 Bate | b. 1011861)      |         |        |     |        |     |       |            |
| Phenol                         |             | 100                    | 10         | 0.39             | ug/L    | 29.9   | 30  | 17-120 |     |       |            |
| Pyrene                         |             | 100                    | 10         | 0.34             | ug/L    | 91.2   | 91  | 58-136 |     |       |            |
| Surrogate:                     |             |                        |            |                  | ug/L    |        | 109 | 52-132 |     |       |            |
| 2,4,6-Tribromophenol           |             |                        |            |                  | ug/L    |        | 100 | 02 702 |     |       |            |
| Surrogate:                     |             |                        |            |                  | ug/L    |        | 82  | 48-120 |     |       |            |
| 2-Fluorobiphenyl<br>Surrogate: |             |                        |            |                  | ug/L    |        | 40  | 20-120 |     |       |            |
| 2-Fluorophenol                 |             |                        |            |                  | -       |        |     |        |     |       |            |
| Surrogate:<br>Nitrobenzene-d5  |             |                        |            |                  | ug/L    |        | 76  | 46-120 |     |       |            |
| Surrogate: Phenol-d5           |             |                        |            |                  | ug/L    |        | 30  | 16-120 |     |       |            |
| Surrogate:                     |             |                        |            |                  | ug/L    |        | 86  | 24-136 |     |       |            |
| p-Terphenyl-d14                |             |                        |            |                  |         |        |     |        |     |       |            |
| LCS Dup Analyzed: 10/09        | 9/10 (Lab N | lumber:10              | 11861-BSD  | 1, Batch: 10I186 | 51)     |        |     |        |     |       |            |
| 1,2,4-Trichlorobenzene         |             | 100                    | 10         | 0.44             | ug/L    | 68.3   | 68  | 40-120 | 4   | 30    |            |
| 1,2-Dichlorobenzene            |             |                        | 10         | 0.40             | ug/L    | ND     |     | 33-120 |     | 29    |            |
| 1,3-Dichlorobenzene            |             |                        | 10         | 0.48             | ug/L    | ND     |     | 28-120 |     | 37    |            |
| 2,4,5-Trichlorophenol          |             |                        | 50         | 0.48             | ug/L    | ND     |     | 65-126 |     | 18    |            |
| 2,4,6-Trichlorophenol          |             |                        | 10         | 0.61             | ug/L    | ND     |     | 64-120 |     | 19    |            |
| 2,4-Dichlorophenol             |             |                        | 10         | 0.51             | ug/L    | ND     |     | 64-120 |     | 19    |            |
| 2,4-Dimethylphenol             |             |                        | 10         | 0.50             | ug/L    | ND     |     | 57-120 |     | 42    |            |
| 2,4-Dinitrophenol              |             |                        | 50         | 2.2              | ug/L    | ND     |     | 42-153 |     | 22    |            |
| 2,4-Dinitrotoluene             |             | 100                    | 10         | 0.45             | ug/L    | 97.8   | 98  | 59-125 | 4   | 20    |            |
| 2,6-Dinitrotoluene             |             |                        | 10         | 0.40             | ug/L    | ND     |     | 74-134 |     | 15    |            |
| 2-Chloronaphthalene            |             |                        | 10         | 0.46             | ug/L    | ND     |     | 52-120 |     | 21    |            |
| 2-Chlorophenol                 |             | 100                    | 10         | 0.53             | ug/L    | 65.1   | 65  | 48-120 | 3   | 25    |            |
| 2-Methylnaphthalene            |             |                        | 10         | 0.60             | ug/L    | ND     |     | 48-120 |     | 21    |            |
| 2-Methylphenol                 |             |                        | 10         | 0.40             | ug/L    | ND     |     | 39-120 |     | 27    |            |
| 2-Nitroaniline                 |             |                        | 50         | 0.42             | ug/L    | ND     |     | 67-136 |     | 15    |            |
| 2-Nitrophenol                  |             |                        | 10         | 0.48             | ug/L    | ND     |     | 59-120 |     | 18    |            |
| 3,3'-Dichlorobenzidine         |             |                        | 20         | 0.40             | ug/L    | ND     |     | 33-140 |     | 25    |            |
| 3-Nitroaniline                 |             |                        | 50         | 0.48             | ug/L    | ND     |     | 69-129 |     | 19    |            |
| 4,6-Dinitro-2-methylphen ol    |             |                        | 50         | 2.2              | ug/L    | ND     |     | 64-159 |     | 15    |            |
| 4-Bromophenyl phenyl ether     |             |                        | 10         | 0.45             | ug/L    | ND     |     | 71-126 |     | 15    |            |
| 4-Chloro-3-methylphenol        |             | 100                    | 10         | 0.45             | ug/L    | 86.8   | 87  | 64-120 | 2   | 27    |            |
| 4-Chloroaniline                |             |                        | 10         | 0.59             | ug/L    | ND     |     | 60-124 |     | 22    |            |
| 4-Chlorophenyl phenyl ether    |             |                        | 10         | 0.35             | ug/L    | ND     |     | 71-122 |     | 16    |            |
| 4-Methylphenol                 |             |                        | 5.0        | 0.36             | ug/L    | ND     |     | 36-120 |     | 24    |            |

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Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218 Work Order: RTI1555

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Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                                  |                |           | LA        | BORATORY        | QC DATA |        |     |        |     |       |            |
|----------------------------------|----------------|-----------|-----------|-----------------|---------|--------|-----|--------|-----|-------|------------|
|                                  | Source         | Spike     |           |                 |         |        | %   | % REC  | %   | RPD   | Data       |
| Analyte                          | Result         | Level     | RL        | MDL             | Units   | Result | REC | Limits | RPD | Limit | Qualifiers |
| Semivolatile Organics by         | <u>/ GC/MS</u> |           |           |                 |         |        |     |        |     |       |            |
| LCS Dup Analyzed: 10/09          | 9/10 (Lab N    | Number:10 | 11861-BSD | 1. Batch: 10 18 | 61)     |        |     |        |     |       |            |
| 4-Nitroaniline                   | (              |           | 50        | 0.25            | ug/L    | ND     |     | 64-135 |     | 24    |            |
| 4-Nitrophenol                    |                | 100       | 50        | 1.5             | ug/L    | 32.4   | 32  | 16-120 | 9   | 48    | J          |
| Acenaphthene                     |                | 100       | 10        | 0.41            | ug/L    | 81.7   | 82  | 60-120 | 0.4 | 24    |            |
| Acenaphthylene                   |                |           | 10        | 0.38            | ug/L    | ND     |     | 63-120 |     | 18    |            |
| Acetophenone                     |                |           | 10        | 0.54            | ug/L    | ND     |     | 45-120 |     | 20    |            |
| Anthracene                       |                |           | 10        | 0.28            | ug/L    | ND     |     | 69-131 |     | 15    |            |
| Atrazine                         |                |           | 10        | 0.46            | ug/L    | ND     |     | 70-129 |     | 20    |            |
| Benzaldehyde                     |                |           | 50        | 0.27            | ug/L    | ND     |     | 30-140 |     | 20    |            |
| Benzo(a)anthracene               |                |           | 10        | 0.36            | ug/L    | ND     |     | 73-138 |     | 15    |            |
| Benzo(a)pyrene                   |                |           | 10        | 0.47            | ug/L    | ND     |     | 74-126 |     | 15    |            |
| Benzo(b)fluoranthene             |                |           | 10        | 0.34            | ug/L    | ND     |     | 75-133 |     | 15    |            |
| Benzo(ghi)perylene               |                |           | 10        | 0.35            | ug/L    | ND     |     | 66-152 |     | 15    |            |
| Benzo(k)fluoranthene             |                |           | 10        | 0.73            | ug/L    | ND     |     | 75-133 |     | 22    |            |
| Biphenyl                         |                |           | 10        | 0.65            | ug/L    | ND     |     | 30-140 |     | 20    |            |
| Bis(2-chloroethoxy)metha ne      |                |           | 10        | 0.35            | ug/L    | ND     |     | 62-120 |     | 17    |            |
| Bis(2-chloroethyl)ether          |                |           | 10        | 0.40            | ug/L    | ND     |     | 51-120 |     | 21    |            |
| 2,2'-Oxybis(1-Chloroprop<br>ane) |                |           | 10        | 0.52            | ug/L    | ND     |     | 47-120 |     | 24    |            |
| Bis(2-ethylhexyl)<br>phthalate   |                | 100       | 10        | 1.8             | ug/L    | 94.2   | 94  | 69-136 | 6   | 15    |            |
| Butyl benzyl phthalate           |                |           | 10        | 0.42            | ug/L    | 0.730  |     | 62-149 | 6   | 16    | J          |
| Caprolactam                      |                |           | 10        | 2.2             | ug/L    | ND     |     | 30-140 |     | 20    |            |
| Carbazole                        |                |           | 5.0       | 0.30            | ug/L    | ND     |     | 68-133 |     | 20    |            |
| Chrysene                         |                |           | 10        | 0.33            | ug/L    | ND     |     | 69-140 |     | 15    |            |
| Dibenzo(a,h)anthracene           |                |           | 10        | 0.42            | ug/L    | ND     |     | 67-144 |     | 15    |            |
| Dibenzofuran                     |                |           | 10        | 0.51            | ug/L    | ND     |     | 66-120 |     | 15    |            |
| Diethyl phthalate                |                |           | 10        | 0.22            | ug/L    | ND     |     | 78-128 |     | 15    |            |
| Dimethyl phthalate               |                |           | 10        | 0.36            | ug/L    | ND     |     | 73-127 |     | 15    |            |
| Di-n-butyl phthalate             |                |           | 10        | 0.31            | ug/L    | 0.540  |     | 67-132 | 40  | 15    | J          |
| Di-n-octyl phthalate             |                |           | 10        | 0.47            | ug/L    | ND     |     | 72-145 |     | 16    |            |
| Fluoranthene                     |                |           | 10        | 0.40            | ug/L    | 1.18   |     | 67-133 | 4   | 15    | J          |
| Fluorene                         |                | 100       | 10        | 0.36            | ug/L    | 90.9   | 91  | 66-129 | 2   | 15    |            |
| Hexachlorobenzene                |                |           | 10        | 0.51            | ug/L    | ND     |     | 38-131 |     | 15    |            |
| Hexachlorobutadiene              |                |           | 10        | 0.68            | ug/L    | ND     |     | 30-120 |     | 44    |            |
| Hexachlorocyclopentadie<br>ne    |                |           | 10        | 0.59            | ug/L    | ND     |     | 23-120 |     | 49    |            |
| Hexachloroethane                 |                | 100       | 10        | 0.59            | ug/L    | 61.4   | 61  | 25-120 | 8   | 46    |            |
| Indeno(1,2,3-cd)pyrene           |                |           | 10        | 0.47            | ug/L    | ND     |     | 69-146 |     | 15    |            |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|  |            |           | LA                     | BORATORY         | QC DATA |        |     |        |     |       |            |
|--|------------|-----------|------------------------|------------------|---------|--------|-----|--------|-----|-------|------------|
|  | Source     | Spike     |                        |                  |         |        | %   | % REC  | %   | RPD   | Data       |
| Analyte  | Result     | Level     | RL                     | MDL              | Units   | Result | REC | Limits | RPD | Limit | Qualifiers |
| Semivolatile Organics by                               | GC/MS      |           |                        |                  |         |        |     |        |     |       |            |
| LCS Dup Analyzed: 10/09                                | /10 (Lab N | lumber:10 | 11861-BSD <sup>,</sup> | I, Batch: 10I180 | 61)     |        |     |        |     |       |            |
| Isophorone   |            |           | 10                     | 0.43             | ug/L    | ND     |     | 64-120 |     | 17    |            |
| Naphthalene  |            |           | 10                     | 0.76             | ug/L    | ND     |     | 48-120 |     | 29    |            |
| Nitrobenzene   |            |           | 10                     | 0.29             | ug/L    | ND     |     | 52-120 |     | 24    |            |
| N-Nitrosodi-n-propylamin<br>e                          |            | 100       | 10                     | 0.54             | ug/L    | 74.8   | 75  | 56-120 | 2   | 31    |            |
| N-Nitrosodiphenylamine                                 |            |           | 10                     | 0.51             | ug/L    | ND     |     | 25-125 |     | 15    |            |
| Pentachlorophenol                                      |            | 100       | 50                     | 2.2              | ug/L    | 98.7   | 99  | 39-136 | 6   | 37    |            |
| Phenanthrene   |            |           | 10                     | 0.44             | ug/L    | ND     |     | 67-130 |     | 15    |            |
| Phenol   |            | 100       | 10                     | 0.39             | ug/L    | 30.0   | 30  | 17-120 | 0.3 | 34    |            |
| Pyrene   |            | 100       | 10                     | 0.34             | ug/L    | 94.5   | 95  | 58-136 | 4   | 19    |            |
| Surrogate:   |            |           |                        |                  | ug/L    |        | 115 | 52-132 |     |       |            |
| 2,4,6-Tribromophenol<br>Surrogate:<br>2-Fluorobiphenyl |            |           |                        |                  | ug/L    |        | 82  | 48-120 |     |       |            |
| Surrogate:   |            |           |                        |                  | ug/L    |        | 42  | 20-120 |     |       |            |
| 2-Fluorophenol<br>Surrogate:<br>Nitrobenzene-d5        |            |           |                        |                  | ug/L    |        | 79  | 46-120 |     |       |            |
| Surrogate: Phenol-d5                                   |            |           |                        |                  | ug/L    |        | 30  | 16-120 |     |       |            |
| Surrogate:<br>p-Terphenyl-d14                          |            |           |                        |                  | ug/L    |        | 92  | 24-136 |     |       |            |

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Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218 Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                             |           |             | L          | ABORATORY C     | C DATA |        |     |        |     |       |            |
|-----------------------------|-----------|-------------|------------|-----------------|--------|--------|-----|--------|-----|-------|------------|
|                             | Source    | Spike       |            |                 |        |        | %   | % REC  | %   | RPD   | Data       |
| Analyte                     | Result    | Level       | RL         | MDL             | Units  | Result | REC | Limits | RPD | Limit | Qualifiers |
| Organochlorine Pesticide    | es by EPA | Method 80   | <u>81A</u> |                 |        |        |     |        |     |       |            |
| Blank Analyzed: 09/28/10    | (Lab Num  | nber:10 186 | 62-BLK1,   | Batch: 10I1862) |        |        |     |        |     |       |            |
| 4,4'-DDD                    |           |             | 0.050      | 0.0092          | ug/L   | ND     |     |        |     |       |            |
| 4,4'-DDD [2C]               |           |             | 0.050      | 0.0092          | ug/L   | ND     |     |        |     |       |            |
| 4,4'-DDE                    |           |             | 0.050      | 0.012           | ug/L   | ND     |     |        |     |       |            |
| 4,4'-DDE [2C]               |           |             | 0.050      | 0.012           | ug/L   | ND     |     |        |     |       |            |
| 4,4'-DDT                    |           |             | 0.050      | 0.011           | ug/L   | ND     |     |        |     |       |            |
| 4,4'-DDT [2C]               |           |             | 0.050      | 0.011           | ug/L   | ND     |     |        |     |       |            |
| Aldrin                      |           |             | 0.050      | 0.0066          | ug/L   | ND     |     |        |     |       |            |
| Aldrin [2C]                 |           |             | 0.050      | 0.0066          | ug/L   | ND     |     |        |     |       |            |
| alpha-BHC                   |           |             | 0.050      | 0.0066          | ug/L   | ND     |     |        |     |       |            |
| alpha-BHC [2C]              |           |             | 0.050      | 0.0066          | ug/L   | ND     |     |        |     |       |            |
| alpha-Chlordane             |           |             | 0.050      | 0.015           | ug/L   | ND     |     |        |     |       |            |
| alpha-Chlordane [2C]        |           |             | 0.050      | 0.015           | ug/L   | ND     |     |        |     |       |            |
| beta-BHC                    |           |             | 0.050      | 0.025           | ug/L   | ND     |     |        |     |       |            |
| beta-BHC [2C]               |           |             | 0.050      | 0.025           | ug/L   | ND     |     |        |     |       |            |
| Chlordane                   |           |             | 0.50       | 0.029           | ug/L   | ND     |     |        |     |       |            |
| Chlordane [2C]              |           |             | 0.50       | 0.029           | ug/L   | ND     |     |        |     |       |            |
| delta-BHC                   |           |             | 0.050      | 0.010           | ug/L   | ND     |     |        |     |       |            |
| delta-BHC [2C]              |           |             | 0.050      | 0.010           | ug/L   | ND     |     |        |     |       |            |
| Dieldrin                    |           |             | 0.050      | 0.0098          | ug/L   | ND     |     |        |     |       |            |
| Dieldrin [2C]               |           |             | 0.050      | 0.0098          | ug/L   | ND     |     |        |     |       |            |
| Endosulfan I                |           |             | 0.050      | 0.011           | ug/L   | ND     |     |        |     |       |            |
| Endosulfan I [2C]           |           |             | 0.050      | 0.011           | ug/L   | ND     |     |        |     |       |            |
| Endosulfan II               |           |             | 0.050      | 0.012           | ug/L   | ND     |     |        |     |       |            |
| Endosulfan II [2C]          |           |             | 0.050      | 0.012           | ug/L   | ND     |     |        |     |       |            |
| Endosulfan sulfate          |           |             | 0.050      | 0.016           | ug/L   | ND     |     |        |     |       |            |
| Endosulfan sulfate [2C]     |           |             | 0.050      | 0.016           | ug/L   | ND     |     |        |     |       |            |
| Endrin                      |           |             | 0.050      | 0.014           | ug/L   | ND     |     |        |     |       |            |
| Endrin [2C]                 |           |             | 0.050      | 0.014           | ug/L   | ND     |     |        |     |       |            |
| Endrin aldehyde             |           |             | 0.050      | 0.016           | ug/L   | ND     |     |        |     |       |            |
| Endrin aldehyde [2C]        |           |             | 0.050      | 0.016           | ug/L   | ND     |     |        |     |       |            |
| Endrin ketone               |           |             | 0.050      | 0.012           | ug/L   | ND     |     |        |     |       |            |
| Endrin ketone [2C]          |           |             | 0.050      | 0.012           | ug/L   | ND     |     |        |     |       |            |
| gamma-BHC (Lindane)         |           |             | 0.050      | 0.0060          | ug/L   | ND     |     |        |     |       |            |
| gamma-BHC (Lindane)<br>[2C] |           |             | 0.050      | 0.0060          | ug/L   | ND     |     |        |     |       |            |
| gamma-Chlordane             |           |             | 0.050      | 0.011           | ug/L   | ND     |     |        |     |       |            |
| gamma-Chlordane [2C]        |           |             | 0.050      | 0.011           | ug/L   | ND     |     |        |     |       |            |
| Heptachlor                  |           |             | 0.050      | 0.0085          | ug/L   | ND     |     |        |     |       |            |
|                             |           |             |            |                 |        |        |     |        |     |       |            |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                                       |            |            | LA          | BORATORY       | QC DATA |        |     |        |       |      |            |
|---------------------------------------|------------|------------|-------------|----------------|---------|--------|-----|--------|-------|------|------------|
|                                       | Source     | Spike      |             |                |         |        | %   | % REC  | %     | RPD  | Data       |
| Analyte                               | Result     | Level      | RL          | MDL            | Units   | Result | REC | Limits | RPD L | imit | Qualifiers |
| Organochlorine Pesticide              | es by EPA  | Method 80  | <u>)81A</u> |                |         |        |     |        |       |      |            |
| Blank Analyzed: 09/28/10              | ) (Lab Num | nber:10 18 | 62-BLK1. B  | atch: 10 1862) |         |        |     |        |       |      |            |
| Heptachlor [2C]                       | (          |            | 0.050       | 0.0085         | ug/L    | ND     |     |        |       |      |            |
| Heptachlor epoxide                    |            |            | 0.050       | 0.0053         | ug/L    | ND     |     |        |       |      |            |
| Heptachlor epoxide [2C]               |            |            | 0.050       | 0.0053         | ug/L    | ND     |     |        |       |      |            |
| Methoxychlor                          |            |            | 0.050       | 0.014          | ug/L    | ND     |     |        |       |      |            |
| Methoxychlor [2C]                     |            |            | 0.050       | 0.014          | ug/L    | ND     |     |        |       |      |            |
| Toxaphene                             |            |            | 0.50        | 0.12           | ug/L    | ND     |     |        |       |      |            |
| Toxaphene [2C]                        |            |            | 0.50        | 0.12           | ug/L    | ND     |     |        |       |      |            |
| Surrogate:                            |            |            |             |                | ug/L    |        | 72  | 15-139 |       |      |            |
| Decachlorobiphenyl<br>Surrogate:      |            |            |             |                | ug/L    |        | 70  | 15-139 |       |      |            |
| Decachlorobiphenyl [2C]<br>Surrogate: |            |            |             |                | ug/L    |        | 75  | 30-139 |       |      |            |
| Tetrachloro-m-xylene<br>Surrogate:    |            |            |             |                | ug/L    |        | 82  | 30-139 |       |      |            |
| Tetrachloro-m-xylene                  |            |            |             |                |         |        |     |        |       |      |            |
| LCS Analyzed: 09/28/10                | (Lab Numb  | er:10 186  | 2-BS1, Bato | :h: 10l1862)   |         |        |     |        |       |      |            |
| 4,4'-DDD                              |            | 0.500      | 0.050       | 0.0092         | ug/L    | 0.488  | 98  | 25-139 |       |      |            |
| 4,4'-DDD [2C]                         |            | 0.500      | 0.050       | 0.0092         | ug/L    | 0.605  | 121 | 25-139 |       |      |            |
| 4,4'-DDE                              |            | 0.500      | 0.050       | 0.012          | ug/L    | 0.439  | 88  | 49-127 |       |      |            |
| 4,4'-DDE [2C]                         |            | 0.500      | 0.050       | 0.012          | ug/L    | 0.524  | 105 | 49-127 |       |      |            |
| 4,4'-DDT                              |            | 0.500      | 0.050       | 0.011          | ug/L    | 0.501  | 100 | 47-130 |       |      |            |
| 4,4'-DDT [2C]                         |            | 0.500      | 0.050       | 0.011          | ug/L    | 0.559  | 112 | 47-130 |       |      |            |
| Aldrin                                |            | 0.500      | 0.050       | 0.0066         | ug/L    | 0.366  | 73  | 35-120 |       |      |            |
| Aldrin [2C]                           |            | 0.500      | 0.050       | 0.0066         | ug/L    | 0.438  | 88  | 35-120 |       |      |            |
| alpha-BHC                             |            | 0.500      | 0.050       | 0.0066         | ug/L    | 0.514  | 103 | 39-121 |       |      |            |
| alpha-BHC [2C]                        |            | 0.500      | 0.050       | 0.0066         | ug/L    | 0.540  | 108 | 39-121 |       |      |            |
| alpha-Chlordane                       |            | 0.500      | 0.050       | 0.015          | ug/L    | 0.434  | 87  | 40-160 |       |      |            |
| alpha-Chlordane [2C]                  |            | 0.500      | 0.050       | 0.015          | ug/L    | 0.528  | 106 | 40-160 |       |      |            |
| beta-BHC                              |            | 0.500      | 0.050       | 0.025          | ug/L    | 0.527  | 105 | 39-138 |       |      |            |
| beta-BHC [2C]                         |            | 0.500      | 0.050       | 0.025          | ug/L    | 0.591  | 118 | 39-138 |       |      |            |
| delta-BHC                             |            | 0.500      | 0.050       | 0.010          | ug/L    | 0.518  | 104 | 40-121 |       |      |            |
| delta-BHC [2C]                        |            | 0.500      | 0.050       | 0.010          | ug/L    | 0.588  | 118 | 40-121 |       |      |            |
| Dieldrin                              |            | 0.500      | 0.050       | 0.0098         | ug/L    | 0.486  | 97  | 41-131 |       |      |            |
| Dieldrin [2C]                         |            | 0.500      | 0.050       | 0.0098         | ug/L    | 0.565  | 113 | 41-131 |       |      |            |
| Endosulfan I                          |            | 0.500      | 0.050       | 0.011          | ug/L    | 0.391  | 78  | 41-126 |       |      |            |
| Endosulfan I [2C]                     |            | 0.500      | 0.050       | 0.011          | ug/L    | 0.462  | 92  | 41-126 |       |      |            |
| Endosulfan II                         |            | 0.500      | 0.050       | 0.012          | ug/L    | 0.432  | 86  | 32-134 |       |      |            |
| Endosulfan II [2C]                    |            | 0.500      | 0.050       | 0.012          | ug/L    | 0.513  | 103 | 32-134 |       |      |            |
| Endosulfan sulfate                    |            | 0.500      | 0.050       | 0.016          | ug/L    | 0.623  | 125 | 46-131 |       |      |            |
|                                       |            | 0.000      | 0.000       | 0.010          | ~9, L   | 0.020  | .20 | 10 101 |       |      |            |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

| Project: Benchmark | - 295 Maryland St. site |
|--------------------|-------------------------|
| Project Number:    | TURN-0066               |

|                                       |            |           | LA          | BORATORY | QC DATA |        |     |        |     |       |            |
|---------------------------------------|------------|-----------|-------------|----------|---------|--------|-----|--------|-----|-------|------------|
|                                       | Source     | Spike     |             |          |         |        | %   | % REC  | %   | RPD   | Data       |
| Analyte                               | Result     | Level     | RL          | MDL      | Units   | Result | REC | Limits | RPD | Limit | Qualifiers |
| Organochlorine Pesticid               | es by EPA  | Method 8  | <u>081A</u> |          |         |        |     |        |     |       |            |
| LCS Analyzed: 09/28/10                | (I ab Numb | or:10 186 | 2-BS1 Bate  |          |         |        |     |        |     |       |            |
| Endosulfan sulfate [2C]               |            | 0.500     | 0.050       | 0.016    | ug/L    | 0.588  | 118 | 46-131 |     |       |            |
| Endrin                                |            | 0.500     | 0.050       | 0.014    | ug/L    | 0.498  | 100 | 43-134 |     |       |            |
| Endrin [2C]                           |            | 0.500     | 0.050       | 0.014    | ug/L    | 0.565  | 113 | 43-134 |     |       |            |
| Endrin aldehyde                       |            | 0.500     | 0.050       | 0.016    | ug/L    | 0.527  | 105 | 39-128 |     |       |            |
| Endrin aldehyde [2C]                  |            | 0.500     | 0.050       | 0.016    | ug/L    | 0.625  | 125 | 39-128 |     |       |            |
| Endrin ketone                         |            | 0.500     | 0.050       | 0.012    | ug/L    | 0.538  | 108 | 50-150 |     |       |            |
| Endrin ketone [2C]                    |            | 0.500     | 0.050       | 0.012    | ug/L    | 0.601  | 120 | 50-150 |     |       |            |
| gamma-BHC (Lindane)                   |            | 0.500     | 0.050       | 0.0060   | ug/L    | 0.521  | 104 | 68-120 |     |       |            |
| gamma-BHC (Lindane)<br>[2C]           |            | 0.500     | 0.050       | 0.0060   | ug/L    | 0.588  | 118 | 68-120 |     |       |            |
| gamma-Chlordane                       |            | 0.500     | 0.050       | 0.011    | ug/L    | 0.437  | 87  | 40-160 |     |       |            |
| gamma-Chlordane [2C]                  |            | 0.500     | 0.050       | 0.011    | ug/L    | 0.509  | 102 | 40-160 |     |       |            |
| Heptachlor                            |            | 0.500     | 0.050       | 0.0085   | ug/L    | 0.423  | 85  | 52-120 |     |       |            |
| Heptachlor [2C]                       |            | 0.500     | 0.050       | 0.0085   | ug/L    | 0.496  | 99  | 52-120 |     |       |            |
| Heptachlor epoxide                    |            | 0.500     | 0.050       | 0.0053   | ug/L    | 0.479  | 96  | 65-120 |     |       |            |
| Heptachlor epoxide [2C]               |            | 0.500     | 0.050       | 0.0053   | ug/L    | 0.577  | 115 | 65-120 |     |       |            |
| Methoxychlor                          |            | 0.500     | 0.050       | 0.014    | ug/L    | 0.525  | 105 | 52-142 |     |       |            |
| Methoxychlor [2C]                     |            | 0.500     | 0.050       | 0.014    | ug/L    | 0.836  | 167 | 52-142 |     |       | L1         |
| Surrogate:<br>Decachlorobiphenyl      |            |           |             |          | ug/L    |        | 47  | 15-139 |     |       |            |
| Surrogate:<br>Decachlorobiphenyl [2C] |            |           |             |          | ug/L    |        | 56  | 15-139 |     |       |            |
| Surrogate:<br>Tetrachloro-m-xylene    |            |           |             |          | ug/L    |        | 73  | 30-139 |     |       |            |
| Surrogate:<br>Tetrachloro-m-xylene    |            |           |             |          | ug/L    |        | 76  | 30-139 |     |       |            |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|   |             |            | LA          | BORATORY       | QC DATA |        |     |        |           |            |
|---|-------------|------------|-------------|----------------|---------|--------|-----|--------|-----------|------------|
|   | Source      | Spike      |             |                |         |        | %   | % REC  | % RPD     | Data       |
| Analyte   | Result      | Level      | RL          | MDL            | Units   | Result | REC | Limits | RPD Limit | Qualifiers |
| Polychlorinated Bipheny                                       | is by EPA I | Method 80  | 82          |                |         |        |     |        |           |            |
| Blank Analyzed: 09/28/10                                      | ) (Lab Num  | nber:10 18 | 63-BLK1, B  | atch: 10I1863) |         |        |     |        |           |            |
| Aroclor 1016  | ·           |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1016 [2C]   |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1221  |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1221 [2C]   |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1232  |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1232 [2C]   |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1242  |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1242 [2C]   |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1248  |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1248 [2C]   |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1254  |             |            | 0.50        | 0.25           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1254 [2C]   |             |            | 0.50        | 0.25           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1260  |             |            | 0.50        | 0.25           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1260 [2C]   |             |            | 0.50        | 0.25           | ug/L    | ND     |     |        |           | QSU        |
| Surrogate:  |             |            |             |                | ug/L    |        | 60  | 12-137 |           | QSU        |
| Decachlorobiphenyl<br>Surrogate:                              |             |            |             |                | ug/L    |        | 54  | 12-137 |           | QSU        |
| Decachlorobiphenyl [2C]<br>Surrogate:<br>Tetrachloro-m-xylene |             |            |             |                | ug/L    |        | 62  | 35-121 |           | QSU        |
| Surrogate:<br>Tetrachloro-m-xylene                            |             |            |             |                | ug/L    |        | 62  | 35-121 |           | QSU        |
| LCS Analyzed: 09/28/10  | (Lab Numb   | er:10 1863 | 3-BS1, Bato | h: 10 1863)    |         |        |     |        |           |            |
| Aroclor 1016  |             | 5.00       | 0.50        | 0.18           | ug/L    | 3.26   | 65  | 61-123 |           | QSU        |
| Aroclor 1016 [2C]   |             | 5.00       | 0.50        | 0.18           | ug/L    | 3.00   | 60  | 61-123 |           | QSU        |
| Aroclor 1221  |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1221 [2C]   |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1232  |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1232 [2C]   |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1242  |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1242 [2C]   |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1248  |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1248 [2C]   |             |            | 0.50        | 0.18           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1254  |             |            | 0.50        | 0.25           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1254 [2C]   |             |            | 0.50        | 0.25           | ug/L    | ND     |     |        |           | QSU        |
| Aroclor 1260  |             | 5.00       | 0.50        | 0.25           | ug/L    | 4.31   | 86  | 52-128 |           | QSU        |
| Aroclor 1260 [2C]   |             | 5.00       | 0.50        | 0.25           | ug/L    | 4.03   | 81  | 52-128 |           | QSU        |
| Surrogate:  |             |            |             |                | ug/L    |        | 64  | 12-137 |           | QSU        |

Decachlorobiphenyl

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 Benchmark Environmental & Engineering Science
 Work Order: RTI1555
 Received:
 09/24/10

 2558 Hamburg Turnpike, Suite 300
 Project: Benchmark - 295 Maryland St. site
 Reported:
 10/15/10 09:06

 Lackawanna, NY 14218
 Project: Benchmark - 295 Maryland St. site
 Project: Number:
 TURN-0066

|                         | LABORATORY QC DATA |            |            |               |       |        |     |        |           |            |  |
|-------------------------|--------------------|------------|------------|---------------|-------|--------|-----|--------|-----------|------------|--|
|                         | Source             | Spike      |            |               |       |        | %   | % REC  | % RPD     | Data       |  |
| Analyte                 | Result             | Level      | RL         | MDL           | Units | Result | REC | Limits | RPD Limit | Qualifiers |  |
| Polychlorinated Bipheny | is by EPA I        | Method 80  | 8 <u>2</u> |               |       |        |     |        |           |            |  |
|                         |                    |            |            |               |       |        |     |        |           |            |  |
| LCS Analyzed: 09/28/10  | (Lab Numb          | er:10 1863 | B-BS1, Ba  | tch: 10l1863) |       |        |     |        |           |            |  |
| Surrogate:              |                    |            |            |               | ug/L  |        | 58  | 12-137 |           | QSU        |  |
| Decachlorobiphenyl [2C] |                    |            |            |               |       |        |     |        |           |            |  |
| Surrogate:              |                    |            |            |               | ug/L  |        | 53  | 35-121 |           | QSU        |  |
| Tetrachloro-m-xylene    |                    |            |            |               |       |        |     |        |           |            |  |
| Surrogate:              |                    |            |            |               | ug/L  |        | 51  | 35-121 |           | QSU        |  |
| Tetrachloro-m-xylene    |                    |            |            |               |       |        |     |        |           |            |  |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

|                     |                 |            | LA           | BORATORY       | QC DATA |        |     |        |     |       |            |
|---------------------|-----------------|------------|--------------|----------------|---------|--------|-----|--------|-----|-------|------------|
|                     | Source          | Spike      |              |                |         |        | %   | % REC  | %   | RPD   | Data       |
| Analyte             | Result          | Level      | RL           | MDL            | Units   | Result | REC | Limits | RPD | Limit | Qualifiers |
| Total Metals by SW  | 846 Series Metr | iods       |              |                |         |        |     |        |     |       |            |
| Blank Analyzed: 09/ | 28/10 (Lab Nun  | nber:10 19 | 960-BLK1, Ba | atch: 10 1960) |         |        |     |        |     |       |            |
| Aluminum            |                 |            | 0.200        | NR             | mg/L    | ND     |     |        |     |       |            |
| Antimony            |                 |            | 0.0200       | NR             | mg/L    | ND     |     |        |     |       |            |
| Arsenic             |                 |            | 0.0100       | NR             | mg/L    | ND     |     |        |     |       |            |
| Barium              |                 |            | 0.0020       | NR             | mg/L    | ND     |     |        |     |       |            |
| Beryllium           |                 |            | 0.0020       | NR             | mg/L    | ND     |     |        |     |       |            |
| Cadmium             |                 |            | 0.0010       | NR             | mg/L    | ND     |     |        |     |       |            |
| Calcium             |                 |            | 0.5          | NR             | mg/L    | ND     |     |        |     |       |            |
| Chromium            |                 |            | 0.0040       | NR             | mg/L    | ND     |     |        |     |       |            |
| Cobalt              |                 |            | 0.0040       | NR             | mg/L    | ND     |     |        |     |       |            |
| Copper              |                 |            | 0.0100       | NR             | mg/L    | ND     |     |        |     |       |            |
| Lead                |                 |            | 0.0050       | NR             | mg/L    | ND     |     |        |     |       |            |
| Magnesium           |                 |            | 0.200        | NR             | mg/L    | ND     |     |        |     |       |            |
| Manganese           |                 |            | 0.0030       | NR             | mg/L    | ND     |     |        |     |       |            |
| Nickel              |                 |            | 0.0100       | NR             | mg/L    | ND     |     |        |     |       |            |
| Selenium            |                 |            | 0.0150       | NR             | mg/L    | ND     |     |        |     |       |            |
| Silver              |                 |            | 0.0030       | NR             | mg/L    | ND     |     |        |     |       |            |
| Thallium            |                 |            | 0.0200       | NR             | mg/L    | ND     |     |        |     |       |            |
| Vanadium            |                 |            | 0.0050       | NR             | mg/L    | ND     |     |        |     |       |            |
| Zinc                |                 |            | 0.0100       | NR             | mg/L    | ND     |     |        |     |       |            |
| Blank Analyzed: 09/ | 29/10 (Lab Nun  | nber:10 19 | )60-BLK2, Ba | atch: 10 1960) |         |        |     |        |     |       |            |
| Iron                | ·               |            | 0.050        | NR             | mg/L    | ND     |     |        |     |       |            |
| Potassium           |                 |            | 0.500        | NR             | mg/L    | ND     |     |        |     |       |            |
| Sodium              |                 |            | 1.0          | NR             | mg/L    | ND     |     |        |     |       |            |
|                     | 0/40 /Lab Numb  |            |              |                | 0       |        |     |        |     |       |            |
| LCS Analyzed: 09/28 |                 |            | •            | ,              |         | 0.04   | 00  | 00 400 |     |       |            |
| Aluminum            |                 | 10.0       | 0.200        | NR             | mg/L    | 8.81   | 88  | 80-120 |     |       |            |
| Antimony            |                 | 0.200      | 0.0200       | NR             | mg/L    | 0.210  | 105 | 80-120 |     |       |            |
| Arsenic             |                 | 0.200      | 0.0100       | NR             | mg/L    | 0.204  | 102 | 80-120 |     |       |            |
| Barium              |                 | 0.200      | 0.0020       | NR             | mg/L    | 0.198  | 99  | 80-120 |     |       |            |
| Beryllium           |                 | 0.200      | 0.0020       | NR             | mg/L    | 0.185  | 93  | 80-120 |     |       |            |
| Cadmium             |                 | 0.200      | 0.0010       | NR             | mg/L    | 0.199  | 99  | 80-120 |     |       |            |
| Calcium             |                 | 10.0       | 0.5          | NR             | mg/L    | 9.48   | 95  | 80-120 |     |       |            |
| Chromium            |                 | 0.200      | 0.0040       | NR             | mg/L    | 0.206  | 103 | 80-120 |     |       |            |
| Cobalt              |                 | 0.200      | 0.0040       | NR             | mg/L    | 0.202  | 101 | 80-120 |     |       |            |
| Copper              |                 | 0.200      | 0.0100       | NR             | mg/L    | 0.200  | 100 | 80-120 |     |       |            |
| Lead                |                 | 0.200      | 0.0050       | NR             | mg/L    | 0.202  | 101 | 80-120 |     |       |            |
| Magnesium           |                 | 10.0       | 0.200        | NR             | mg/L    | 10.4   | 104 | 80-120 |     |       |            |
| Manganese           |                 | 0.200      | 0.0030       | NR             | mg/L    | 0.197  | 99  | 80-120 |     |       |            |

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## Benchmark Environmental & Engineering Science 2558 Hamburg Turnpike, Suite 300 Lackawanna, NY 14218

Work Order: RTI1555

Received: 09/24/10 Reported: 10/15/10 09:06

Project: Benchmark - 295 Maryland St. site Project Number: TURN-0066

| LABORATORY QC DATA      |                  |                |             |                 |       |         |          |                 |                                    |
|-------------------------|------------------|----------------|-------------|-----------------|-------|---------|----------|-----------------|------------------------------------|
| Analyte                 | Source<br>Result | Spike<br>Level | RL          | MDL             | Units | Result  | %<br>REC | % REC<br>Limits | % RPD Data<br>RPD Limit Qualifiers |
| Total Metals by SW 846  | Series Meth      | nods           |             |                 |       |         |          |                 |                                    |
| LCS Analyzed: 09/28/10  | (Lab Numb        | per:10 196     | 0-BS1, Bato | ch: 10l1960)    |       |         |          |                 |                                    |
| Nickel                  |                  | 0.200          | 0.0100      | NR              | mg/L  | 0.197   | 99       | 80-120          |                                    |
| Selenium                |                  | 0.200          | 0.0150      | NR              | mg/L  | 0.205   | 103      | 80-120          |                                    |
| Silver                  |                  | 0.0500         | 0.0030      | NR              | mg/L  | 0.0515  | 103      | 80-120          |                                    |
| Thallium                |                  | 0.200          | 0.0200      | NR              | mg/L  | 0.207   | 104      | 80-120          |                                    |
| Vanadium                |                  | 0.200          | 0.0050      | NR              | mg/L  | 0.200   | 100      | 80-120          |                                    |
| Zinc                    |                  | 0.200          | 0.0100      | NR              | mg/L  | 0.200   | 100      | 80-120          |                                    |
| LCS Analyzed: 09/29/10  | (Lab Numb        | per:10 196     | 0-BS2, Bate | ch: 10 1960)    |       |         |          |                 |                                    |
| Iron                    |                  | 10.0           | 0.050       | NR              | mg/L  | 9.97    | 100      | 80-120          |                                    |
| Potassium               |                  | 10.0           | 0.500       | NR              | mg/L  | 10.1    | 101      | 80-120          |                                    |
| Sodium                  |                  | 10.0           | 1.0         | NR              | mg/L  | 10.1    | 101      | 80-120          |                                    |
| Total Metals by SW 846  | Series Meth      | <u>nods</u>    |             |                 |       |         |          |                 |                                    |
| Blank Analyzed: 09/30/1 | 0 (Lab Nun       | nber:10 22     | 02-BLK1, E  | Batch: 10I2202) |       |         |          |                 |                                    |
| Mercury                 |                  |                | 0.0002      | NR              | mg/L  | ND      |          |                 |                                    |
| LCS Analyzed: 09/30/10  | (Lab Numb        | per:10 220     | 2-BS1, Bate | ch: 10l2202)    |       |         |          |                 |                                    |
| Mercury                 |                  | 0.00667        | 0.0004      | NR              | mg/L  | 0.00673 | 101      | 80-120          |                                    |

TestAmerica

| Benchmark Environmental & Engineering Science<br>2558 Hamburg Turnpike, Suite 300 | Work Order: RTI1555   | Received: 09/24/10<br>Reported: 10/15/10 09:06 |
|---|---|--|
| Lackawanna, NY 14218  | Project: Benchmark - 295 Maryland St. site<br>Project Number: TURN-0066 |  |
|   | LABORATORY QC DATA  |  |

| Analyte  | Source<br>Result | Spike<br>Level | RL     | MDL | Units | Result | %<br>REC | % REC<br>Limits | % RPD<br>RPD Limit | Data<br>Qualifiers |
|--|------------------|----------------|--------|-----|-------|--------|----------|-----------------|--------------------|--------------------|
| General Chemistry Parameters                                       |                  |                |        |     |       |        |          |                 |                    |                    |
| Blank Analyzed: 10/01/10 (Lab Number:10I2226-BLK1, Batch: 10I2226) |                  |                |        |     |       |        |          |                 |                    |                    |
| Total Cyanide  |                  |                | 0.0100 | NR  | mg/L  | ND     |          |                 |                    |                    |
| LCS Analyzed: 10/01/10 (Lab Number:10l2226-BS1, Batch: 10l2226)    |                  |                |        |     |       |        |          |                 |                    |                    |
| Total Cyanide  |                  | 0.250          | 0.0100 | NR  | mg/L  | 0.279  | 112      | 90-110          |                    | L                  |

| Chain of<br>Custody Record  |                                      |                                      | on Receip<br>er? Yes 🗆                         |  |                 |   |  |  |
|---|--------------------------------------|--------------------------------------|--|--|-----------------|---|--|--|
| Chine Benchmark<br>Address<br>2558 Hanburg Turpike Suite 3.<br>Chine Buffelo<br>Buffelo<br>NY 14218   | 00 (7/6)<br>site Ci<br>Buy (1        | 1 <u>11956 -</u><br>Wither<br>Wither | <u>+ c</u><br>per (Area Coo<br>0599/1<br>thươn | 2 be S<br>levFax Number<br>716) 056<br>Leb Contact<br>B. E. Sc. Ko |                 | Analysis (/<br>more space   | Z3-10<br>umber<br>Attach list if<br>e is needed) | Page or  |
| Project Name and Location (State)<br>295 Mary Lowds St Sitc<br>Contract/Purchase Orben/Quote No.<br>0222-001-100<br>Sample I.D. No. and Description<br>(Containers for each sample may be combined on one line)<br>Date |                                      | Waybill A                            | Aatrix   |  | atives<br>I a∃  | TLL VOL BZLD<br>TLL SUCE BZTD<br>PLL Pert + PLBS<br>Cymredd<br>TLL Medde 6010 |  | Special Instructions/<br>Conditions of Receipt |
| MW-2<br>MW-2<br>MW-3<br>MW-4  | -10 10:20<br>13-35<br>12:25<br>11:20 | X                                    |  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$             |                 | X Y X X X<br>X X X X X<br>X X X X X<br>X X X X X<br>X X X X X                 |  |  |
|   |                                      |                                      |  |  |                 |   |  |  |
| Possible Hazard Kenthicasion  |                                      | Samp                                 | e Disposal                                     |  |                 |   |  | sesaed if semples are retained                 |
| Akon-Hazard Esammable Skin Imitant Design     Turn Around Time Required     24 Hours 48 Hours 7 Days 8 14 Days  | <br>21 Days [] Ow<br>, Date          |                                      | Time   | CC Requirer  | hents (Specify) | Archive For Mo  | the longer than 1 mo                             | Date<br>09-24-70 //:30<br>Date Time            |
| 3. Resinguished By<br>Congretents<br>DISTRIBUTION: WHITE - Returned to Cherit with Report: CANARY -   | 09-2                                 | <u>y-10</u>                          | <u>15'/(</u><br>Time                           | 2  |                 | <u>A.V.L.</u><br>   | <u> </u>   | Date Time                                      |

.



## ANALYTICAL REPORT

| Lab Number:     | L1318716                      |
|-----------------|-------------------------------|
| Client:         | Benchmark & Turnkey Companies |
|                 | 2558 Hamburg Turnpike         |
|                 | Suite 300                     |
|                 | Buffalo, NY 14218             |
| ATTN:           | Ray Laport                    |
| Phone:          | (716) 856-0599                |
| Project Name:   | 295 MARYLAND ST               |
| Project Number: | 0222-001-101                  |
| Report Date:    | 10/03/13                      |
|                 |                               |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



| Lab Number:  | L1318716 |
|--------------|----------|
| Report Date: | 10/03/13 |

| Project Name:   | 295 MARYLAND ST |
|-----------------|-----------------|
| Project Number: | 0222-001-101    |

| Alpha<br>Sample ID | Client ID         | Sample<br>Location | Collection<br>Date/Time |
|--------------------|-------------------|--------------------|-------------------------|
| L1318716-01        | TP-4-13 (0-3')    | 295 MARYLAND ST    | 09/18/13 16:30          |
| L1318716-02        | TP-5-13 (0-3')    | 295 MARYLAND ST    | 09/18/13 11:50          |
| L1318716-03        | TP-6-13 (7-9')    | 295 MARYLAND ST    | 09/18/13 15:30          |
| L1318716-04        | TP-7-13 (0-3')    | 295 MARYLAND ST    | 09/19/13 08:40          |
| L1318716-05        | TP-9-13 (9-12')   | 295 MARYLAND ST    | 09/19/13 09:30          |
| L1318716-06        | TP-13-13 (8-9')   | 295 MARYLAND ST    | 09/19/13 16:00          |
| L1318716-07        | TP-22-13 (6-8')   | 295 MARYLAND ST    | 09/19/13 14:15          |
| L1318716-08        | TP-23-13 (0.5-3') | 295 MARYLAND ST    | 09/19/13 15:30          |
| L1318716-09        | TP-24-13 (0.5-4') | 295 MARYLAND ST    | 09/19/13 17:00          |
| L1318716-10        | TP-25-13 (0.5-4') | 295 MARYLAND ST    | 09/20/13 11:30          |



Project Name: 295 MARYLAND ST Project Number: 0222-001-101 
 Lab Number:
 L1318716

 Report Date:
 10/03/13

#### **Case Narrative**

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.



Project Name: 295 MARYLAND ST Project Number: 0222-001-101 
 Lab Number:
 L1318716

 Report Date:
 10/03/13

#### **Case Narrative (continued)**

#### **Report Submission**

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

L1318716-05 has elevated detection limits due to the dilution required by the elevated concentrations of nontarget compounds in the sample.

#### Semivolatile Organics

L1318716-10 has elevated detection limits due to the dilution required by the matrix interferences encountered during the concentration of the sample and the analytical dilution required by the sample matrix.

#### **Chlorinated Herbicides**

The WG638423-2 LCS recovery, associated with L1318716-02, is above the acceptance criteria for mcpa (178%); however, the associated sample is non-detect for this target compound. The results of the original analysis are reported.

The WG638423-2/-3 LCS/LCSD RPDs, associated with L1318716-02, are above the acceptance criteria for mcpa (66%) and dalapon (37%).

The WG639096-2/-3 LCS/LCSD recoveries, associated with L1318716-01 and -07, are above the acceptance criteria for mcpa (208%/250%); however, the associated samples are non-detect for this target compound. The results of the original analysis are reported.

#### Metals

L1318716-01, -02, and -07 have elevated detection limits for all elements, with the exception of mercury, due to the analytical dilutions required by matrix interferences encountered during analysis. The WG639248-4 MS recoveries for aluminum (221%), calcium (1330%), iron (0%), lead (0%), magnesium



Project Name: 295 MARYLAND ST Project Number: 0222-001-101 
 Lab Number:
 L1318716

 Report Date:
 10/03/13

#### **Case Narrative (continued)**

(221%), and zinc (0%), performed on L1318716-01, do not apply because the sample concentrations are greater than four times the spike amount added.

The WG639248-4 MS recovery, performed on L1318716-01, is below the acceptance criteria for thallium (63%). A post digestion spike was performed with an unacceptable recovery of 70%. This has been attributed to sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Cynthia Mi Chen Cynthia McQueen

Authorized Signature:

Title: Technical Director/Representative

Date: 10/03/13



# ORGANICS



## VOLATILES



|                    |                 |                | Serial_No:10031311:13 |                |  |
|--------------------|-----------------|----------------|-----------------------|----------------|--|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:           | L1318716       |  |
| Project Number:    | 0222-001-101    |                | Report Date:          | 10/03/13       |  |
|                    |                 | SAMPLE RESULTS |                       |                |  |
| Lab ID:            | L1318716-01     |                | Date Collected:       | 09/18/13 16:30 |  |
| Client ID:         | TP-4-13 (0-3')  |                | Date Received:        | 09/20/13       |  |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:           | Not Specified  |  |
| Matrix:            | Soil            |                |                       |                |  |
| Analytical Method: | 1,8260C         |                |                       |                |  |
| Analytical Date:   | 09/30/13 15:25  |                |                       |                |  |
| Analyst:           | BN              |                |                       |                |  |
| Percent Solids:    | 86%             |                |                       |                |  |

| Parameter                        | Result        | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------|---------------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Wes | stborough Lab |           |       |     |      |                 |
| Methylene chloride               | ND            |           | ug/kg | 12  | 2.3  | 1               |
| 1,1-Dichloroethane               | ND            |           | ug/kg | 1.7 | 0.21 | 1               |
| Chloroform                       | ND            |           | ug/kg | 1.7 | 0.43 | 1               |
| Carbon tetrachloride             | ND            |           | ug/kg | 1.2 | 0.24 | 1               |
| 1,2-Dichloropropane              | ND            |           | ug/kg | 4.1 | 0.26 | 1               |
| Dibromochloromethane             | ND            |           | ug/kg | 1.2 | 0.36 | 1               |
| 1,1,2-Trichloroethane            | ND            |           | ug/kg | 1.7 | 0.35 | 1               |
| Tetrachloroethene                | ND            |           | ug/kg | 1.2 | 0.16 | 1               |
| Chlorobenzene                    | ND            |           | ug/kg | 1.2 | 0.40 | 1               |
| Trichlorofluoromethane           | ND            |           | ug/kg | 5.8 | 0.14 | 1               |
| 1,2-Dichloroethane               | ND            |           | ug/kg | 1.2 | 0.17 | 1               |
| 1,1,1-Trichloroethane            | ND            |           | ug/kg | 1.2 | 0.13 | 1               |
| Bromodichloromethane             | ND            |           | ug/kg | 1.2 | 0.26 | 1               |
| trans-1,3-Dichloropropene        | ND            |           | ug/kg | 1.2 | 0.14 | 1               |
| cis-1,3-Dichloropropene          | ND            |           | ug/kg | 1.2 | 0.15 | 1               |
| Bromoform                        | ND            |           | ug/kg | 4.6 | 0.48 | 1               |
| 1,1,2,2-Tetrachloroethane        | ND            |           | ug/kg | 1.2 | 0.20 | 1               |
| Benzene                          | ND            |           | ug/kg | 1.2 | 0.14 | 1               |
| Toluene                          | ND            |           | ug/kg | 1.7 | 0.13 | 1               |
| Ethylbenzene                     | ND            |           | ug/kg | 1.2 | 0.17 | 1               |
| Chloromethane                    | ND            |           | ug/kg | 5.8 | 0.91 | 1               |
| Bromomethane                     | ND            |           | ug/kg | 2.3 | 0.39 | 1               |
| Vinyl chloride                   | ND            |           | ug/kg | 2.3 | 0.16 | 1               |
| Chloroethane                     | ND            |           | ug/kg | 2.3 | 0.37 | 1               |
| 1,1-Dichloroethene               | ND            |           | ug/kg | 1.2 | 0.24 | 1               |
| trans-1,2-Dichloroethene         | ND            |           | ug/kg | 1.7 | 0.24 | 1               |
| Trichloroethene                  | ND            |           | ug/kg | 1.2 | 0.18 | 1               |
| 1,2-Dichlorobenzene              | ND            |           | ug/kg | 5.8 | 0.21 | 1               |
| 1,3-Dichlorobenzene              | ND            |           | ug/kg | 5.8 | 0.21 | 1               |
| 1,4-Dichlorobenzene              | ND            |           | ug/kg | 5.8 | 0.28 | 1               |
| Methyl tert butyl ether          | ND            |           | ug/kg | 2.3 | 0.12 | 1               |
|                                  |               |           |       |     |      |                 |



|   |  | Serial_No:10031311:13 |           |       |                                    |        |   |
|---|--|-----------------------|-----------|-------|------------------------------------|--------|---|
| Project Name:                             | 295 MARYLAND ST                                  |                       |           |       | Lab Nu                             | mber:  | L1318716                                    |
| Project Number:                           | 0222-001-101                                     |                       |           |       | Report                             | Date:  | 10/03/13                                    |
| -   |  | SAMP                  |           | 5     | -                                  |        |   |
| Lab ID:<br>Client ID:<br>Sample Location: | L1318716-01<br>TP-4-13 (0-3')<br>295 MARYLAND ST |                       |           |       | Date Coll<br>Date Rec<br>Field Pre | eived: | 09/18/13 16:30<br>09/20/13<br>Not Specified |
| Parameter                                 |  | Result                | Qualifier | Units | RL                                 | MDL    | Dilution Factor                             |
| Volatile Organics by                      | y GC/MS - Westborough I                          | _ab                   |           |       |                                    |        |   |
| p/m-Xylene                                |  | ND                    |           | ug/kg | 2.3                                | 0.37   | 1   |
| o-Xylene                                  |  | ND                    |           | ug/kg | 2.3                                | 0.31   | 1   |
| cis-1,2-Dichloroethene                    |  | ND                    |           | ug/kg | 1.2                                | 0.17   | 1   |
| Styrene                                   |  | ND                    |           | ug/kg | 2.3                                | 0.36   | 1   |
| Dichlorodifluoromethane                   |  | ND                    |           | ug/kg | 12                                 | 0.25   | 1   |
| Acetone                                   |  | ND                    |           | ug/kg | 12                                 | 3.6    | 1   |
| Carbon disulfide                          |  | ND                    |           | ug/kg | 12                                 | 2.3    | 1   |
| 2-Butanone                                |  | ND                    |           | ug/kg | 12                                 | 0.41   | 1   |
| 4-Methyl-2-pentanone                      |  | ND                    |           | ug/kg | 12                                 | 0.28   | 1   |
| 2-Hexanone                                |  | ND                    |           | ug/kg | 12                                 | 0.22   | 1   |
| Bromochloromethane                        |  | ND                    |           | ug/kg | 5.8                                | 0.23   | 1   |
| 1,2-Dibromoethane                         |  | ND                    |           | ug/kg | 4.6                                | 0.21   | 1   |
| 1,2-Dibromo-3-chloropropa                 | ane  | ND                    |           | ug/kg | 5.8                                | 0.92   | 1   |
| Isopropylbenzene                          |  | ND                    |           | ug/kg | 1.2                                | 0.19   | 1   |
| 1,2,3-Trichlorobenzene                    |  | ND                    |           | ug/kg | 5.8                                | 0.20   | 1   |
| 1,2,4-Trichlorobenzene                    |  | ND                    |           | ug/kg | 5.8                                | 0.92   | 1   |
| Methyl Acetate                            |  | ND                    |           | ug/kg | 23                                 | 0.89   | 1   |
| Cyclohexane                               |  | ND                    |           | ug/kg | 23                                 | 1.2    | 1   |
| 1,4-Dioxane                               |  | ND                    |           | ug/kg | 120                                | 20.    | 1   |
| Freon-113                                 |  | ND                    |           | ug/kg | 23                                 | 0.32   | 1   |
| Methyl cyclohexane                        |  | ND                    |           | ug/kg | 4.6                                | 1.5    | 1   |

|                       |            |           | Acceptance |  |
|-----------------------|------------|-----------|------------|--|
| Surrogate             | % Recovery | Qualifier | Criteria   |  |
| 1,2-Dichloroethane-d4 | 102        |           | 70-130     |  |
| Toluene-d8            | 92         |           | 70-130     |  |
| 4-Bromofluorobenzene  | 93         |           | 70-130     |  |
| Dibromofluoromethane  | 99         |           | 70-130     |  |



|                    |                 |                | Serial_No:10031311:13 |                |  |
|--------------------|-----------------|----------------|-----------------------|----------------|--|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:           | L1318716       |  |
| Project Number:    | 0222-001-101    |                | Report Date:          | 10/03/13       |  |
|                    |                 | SAMPLE RESULTS |                       |                |  |
| Lab ID:            | L1318716-02     |                | Date Collected:       | 09/18/13 11:50 |  |
| Client ID:         | TP-5-13 (0-3')  |                | Date Received:        | 09/20/13       |  |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:           | Not Specified  |  |
| Matrix:            | Soil            |                |                       |                |  |
| Analytical Method: | 1,8260C         |                |                       |                |  |
| Analytical Date:   | 09/30/13 15:53  |                |                       |                |  |
| Analyst:           | BN              |                |                       |                |  |
| Percent Solids:    | 86%             |                |                       |                |  |

| Parameter                         | Result      | Qualifier | Units | RL  | MDL  | Dilution Factor |
|-----------------------------------|-------------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - West | oorough Lab |           |       |     |      |                 |
| Methylene chloride                | ND          |           | ug/kg | 12  | 2.3  | 1               |
| 1,1-Dichloroethane                | ND          |           | ug/kg | 1.7 | 0.21 | 1               |
| Chloroform                        | ND          |           | ug/kg | 1.7 | 0.43 | 1               |
| Carbon tetrachloride              | ND          |           | ug/kg | 1.2 | 0.24 | 1               |
| 1,2-Dichloropropane               | ND          |           | ug/kg | 4.1 | 0.27 | 1               |
| Dibromochloromethane              | ND          |           | ug/kg | 1.2 | 0.36 | 1               |
| 1,1,2-Trichloroethane             | ND          |           | ug/kg | 1.7 | 0.35 | 1               |
| Tetrachloroethene                 | ND          |           | ug/kg | 1.2 | 0.16 | 1               |
| Chlorobenzene                     | ND          |           | ug/kg | 1.2 | 0.40 | 1               |
| Trichlorofluoromethane            | ND          |           | ug/kg | 5.8 | 0.14 | 1               |
| 1,2-Dichloroethane                | ND          |           | ug/kg | 1.2 | 0.17 | 1               |
| 1,1,1-Trichloroethane             | ND          |           | ug/kg | 1.2 | 0.13 | 1               |
| Bromodichloromethane              | ND          |           | ug/kg | 1.2 | 0.27 | 1               |
| rans-1,3-Dichloropropene          | ND          |           | ug/kg | 1.2 | 0.14 | 1               |
| cis-1,3-Dichloropropene           | ND          |           | ug/kg | 1.2 | 0.15 | 1               |
| Bromoform                         | ND          |           | ug/kg | 4.7 | 0.48 | 1               |
| 1,1,2,2-Tetrachloroethane         | ND          |           | ug/kg | 1.2 | 0.20 | 1               |
| Benzene                           | ND          |           | ug/kg | 1.2 | 0.14 | 1               |
| Toluene                           | ND          |           | ug/kg | 1.7 | 0.13 | 1               |
| Ethylbenzene                      | ND          |           | ug/kg | 1.2 | 0.17 | 1               |
| Chloromethane                     | ND          |           | ug/kg | 5.8 | 0.91 | 1               |
| Bromomethane                      | ND          |           | ug/kg | 2.3 | 0.39 | 1               |
| Vinyl chloride                    | ND          |           | ug/kg | 2.3 | 0.16 | 1               |
| Chloroethane                      | ND          |           | ug/kg | 2.3 | 0.37 | 1               |
| 1,1-Dichloroethene                | ND          |           | ug/kg | 1.2 | 0.24 | 1               |
| trans-1,2-Dichloroethene          | ND          |           | ug/kg | 1.7 | 0.25 | 1               |
| Trichloroethene                   | ND          |           | ug/kg | 1.2 | 0.18 | 1               |
| 1,2-Dichlorobenzene               | ND          |           | ug/kg | 5.8 | 0.21 | 1               |
| 1,3-Dichlorobenzene               | ND          |           | ug/kg | 5.8 | 0.21 | 1               |
| 1,4-Dichlorobenzene               | ND          |           | ug/kg | 5.8 | 0.28 | 1               |
| Methyl tert butyl ether           | ND          |           | ug/kg | 2.3 | 0.12 | 1               |
|                                   |             |           |       |     |      |                 |



|   |  | Serial_No:10031311:13 |           |       |                                    |        |   |
|---|--|-----------------------|-----------|-------|------------------------------------|--------|---|
| Project Name:                             | 295 MARYLAND ST                                  |                       |           |       | Lab Nu                             | mber:  | L1318716                                    |
| Project Number:                           | 0222-001-101                                     |                       |           |       | Report                             | Date:  | 10/03/13                                    |
| -   |  | SAMP                  |           | S     | -                                  |        |   |
| Lab ID:<br>Client ID:<br>Sample Location: | L1318716-02<br>TP-5-13 (0-3')<br>295 MARYLAND ST | -                     |           |       | Date Coll<br>Date Rec<br>Field Pre | eived: | 09/18/13 11:50<br>09/20/13<br>Not Specified |
| Parameter                                 |  | Result                | Qualifier | Units | RL                                 | MDL    | Dilution Factor                             |
| Volatile Organics b                       | y GC/MS - Westborough                            | Lab                   |           |       |                                    |        |   |
| p/m-Xylene                                |  | ND                    |           | ug/kg | 2.3                                | 0.38   | 1   |
| o-Xylene                                  |  | ND                    |           | ug/kg | 2.3                                | 0.32   | 1   |
| cis-1,2-Dichloroethene                    |  | ND                    |           | ug/kg | 1.2                                | 0.17   | 1   |
| Styrene                                   |  | ND                    |           | ug/kg | 2.3                                | 0.36   | 1   |
| Dichlorodifluoromethane                   |  | ND                    |           | ug/kg | 12                                 | 0.25   | 1   |
| Acetone                                   |  | ND                    |           | ug/kg | 12                                 | 3.6    | 1   |
| Carbon disulfide                          |  | ND                    |           | ug/kg | 12                                 | 2.3    | 1   |
| 2-Butanone                                |  | ND                    |           | ug/kg | 12                                 | 0.41   | 1   |
| 4-Methyl-2-pentanone                      |  | ND                    |           | ug/kg | 12                                 | 0.28   | 1   |
| 2-Hexanone                                |  | ND                    |           | ug/kg | 12                                 | 0.22   | 1   |
| Bromochloromethane                        |  | ND                    |           | ug/kg | 5.8                                | 0.23   | 1   |
| 1,2-Dibromoethane                         |  | ND                    |           | ug/kg | 4.7                                | 0.21   | 1   |
| 1,2-Dibromo-3-chloroprop                  | ane  | ND                    |           | ug/kg | 5.8                                | 0.92   | 1   |
| Isopropylbenzene                          |  | ND                    |           | ug/kg | 1.2                                | 0.20   | 1   |
| 1,2,3-Trichlorobenzene                    |  | ND                    |           | ug/kg | 5.8                                | 0.20   | 1   |
| 1,2,4-Trichlorobenzene                    |  | ND                    |           | ug/kg | 5.8                                | 0.92   | 1   |
| Methyl Acetate                            |  | ND                    |           | ug/kg | 23                                 | 0.89   | 1   |
| Cyclohexane                               |  | ND                    |           | ug/kg | 23                                 | 1.2    | 1   |
| 1,4-Dioxane                               |  | ND                    |           | ug/kg | 120                                | 20.    | 1   |
| Freon-113                                 |  | ND                    |           | ug/kg | 23                                 | 0.32   | 1   |
| Methyl cyclohexane                        |  | ND                    |           | ug/kg | 4.7                                | 1.5    | 1   |

|                       |            |           | Acceptance |  |
|-----------------------|------------|-----------|------------|--|
| Surrogate             | % Recovery | Qualifier | Criteria   |  |
| 1,2-Dichloroethane-d4 | 105        |           | 70-130     |  |
| Toluene-d8            | 92         |           | 70-130     |  |
| 4-Bromofluorobenzene  | 94         |           | 70-130     |  |
| Dibromofluoromethane  | 100        |           | 70-130     |  |



|                         |                 |                | Serial_No       | :10031311:13   |
|-------------------------|-----------------|----------------|-----------------|----------------|
| Project Name:           | 295 MARYLAND ST |                | Lab Number:     | L1318716       |
| Project Number:         | 0222-001-101    |                | Report Date:    | 10/03/13       |
|                         |                 | SAMPLE RESULTS |                 |                |
| Lab ID:                 | L1318716-03     |                | Date Collected: | 09/18/13 15:30 |
| Client ID:              | TP-6-13 (7-9')  |                | Date Received:  | 09/20/13       |
| Sample Location:        | 295 MARYLAND ST |                | Field Prep:     | Not Specified  |
| Matrix:                 | Soil            |                |                 |                |
| Analytical Method:      | 1,8260C         |                |                 |                |
| Analytical Date:        | 10/02/13 10:48  |                |                 |                |
| Analyst:                | MM              |                |                 |                |
| Percent Solids:         | 86%             |                |                 |                |
| TCLP/SPLP Ext.<br>Date: | 10/01/13 13:55  |                |                 |                |

| Parameter                                    | Result | Qualifier | Units | RL  | MDL | <b>Dilution Factor</b> |  |  |  |  |
|--|--------|-----------|-------|-----|-----|------------------------|--|--|--|--|
| TCLP Volatiles by EPA 1311 - Westborough Lab |        |           |       |     |     |                        |  |  |  |  |
| Chloroform                                   | ND     |           | ug/l  | 7.5 | 1.6 | 10                     |  |  |  |  |
| Carbon tetrachloride                         | ND     |           | ug/l  | 5.0 | 1.3 | 10                     |  |  |  |  |
| Tetrachloroethene                            | ND     |           | ug/l  | 5.0 | 1.8 | 10                     |  |  |  |  |
| Chlorobenzene                                | ND     |           | ug/l  | 5.0 | 1.8 | 10                     |  |  |  |  |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 5.0 | 1.3 | 10                     |  |  |  |  |
| Benzene                                      | ND     |           | ug/l  | 5.0 | 1.6 | 10                     |  |  |  |  |
| Vinyl chloride                               | ND     |           | ug/l  | 10  | 1.4 | 10                     |  |  |  |  |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 5.0 | 1.4 | 10                     |  |  |  |  |
| Trichloroethene                              | ND     |           | ug/l  | 5.0 | 1.7 | 10                     |  |  |  |  |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 25  | 1.9 | 10                     |  |  |  |  |
| 2-Butanone                                   | ND     |           | ug/l  | 50  | 19. | 10                     |  |  |  |  |

| Surrogate             | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|-----------------------|------------|-----------|------------------------|--|
| 1,2-Dichloroethane-d4 | 92         |           | 70-130                 |  |
| Toluene-d8            | 91         |           | 70-130                 |  |
| 4-Bromofluorobenzene  | 102        |           | 70-130                 |  |
| Dibromofluoromethane  | 95         |           | 70-130                 |  |



|                    |                 |                | Serial_No:10031311:13 |                |  |
|--------------------|-----------------|----------------|-----------------------|----------------|--|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:           | L1318716       |  |
| Project Number:    | 0222-001-101    |                | Report Date:          | 10/03/13       |  |
|                    |                 | SAMPLE RESULTS |                       |                |  |
| Lab ID:            | L1318716-03     |                | Date Collected:       | 09/18/13 15:30 |  |
| Client ID:         | TP-6-13 (7-9')  |                | Date Received:        | 09/20/13       |  |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:           | Not Specified  |  |
| Matrix:            | Soil            |                |                       |                |  |
| Analytical Method: | 1,8260C         |                |                       |                |  |
| Analytical Date:   | 09/30/13 16:21  |                |                       |                |  |
| Analyst:           | BN              |                |                       |                |  |
| Percent Solids:    | 86%             |                |                       |                |  |

| Parameter                         | Result                                       | Qualifier Units | RL  | MDL  | Dilution Factor |  |  |  |  |
|-----------------------------------|--|-----------------|-----|------|-----------------|--|--|--|--|
| Volatile Organics by GC/MS - West | Volatile Organics by GC/MS - Westborough Lab |                 |     |      |                 |  |  |  |  |
| Methylene chloride                | ND   | ug/kg           | 10  | 2.1  | 1               |  |  |  |  |
| 1,1-Dichloroethane                | ND   | ug/kg           | 1.6 | 0.19 | 1               |  |  |  |  |
| Chloroform                        | ND   | ug/kg           | 1.6 | 0.39 | 1               |  |  |  |  |
| Carbon tetrachloride              | ND   | ug/kg           | 1.0 | 0.22 | 1               |  |  |  |  |
| 1,2-Dichloropropane               | ND   | ug/kg           | 3.7 | 0.24 | 1               |  |  |  |  |
| Dibromochloromethane              | ND   | ug/kg           | 1.0 | 0.32 | 1               |  |  |  |  |
| 1,1,2-Trichloroethane             | ND   | ug/kg           | 1.6 | 0.32 | 1               |  |  |  |  |
| Tetrachloroethene                 | ND   | ug/kg           | 1.0 | 0.15 | 1               |  |  |  |  |
| Chlorobenzene                     | ND   | ug/kg           | 1.0 | 0.37 | 1               |  |  |  |  |
| Trichlorofluoromethane            | ND   | ug/kg           | 5.3 | 0.13 | 1               |  |  |  |  |
| 1,2-Dichloroethane                | ND   | ug/kg           | 1.0 | 0.15 | 1               |  |  |  |  |
| 1,1,1-Trichloroethane             | ND   | ug/kg           | 1.0 | 0.12 | 1               |  |  |  |  |
| Bromodichloromethane              | ND   | ug/kg           | 1.0 | 0.24 | 1               |  |  |  |  |
| trans-1,3-Dichloropropene         | ND   | ug/kg           | 1.0 | 0.13 | 1               |  |  |  |  |
| cis-1,3-Dichloropropene           | ND   | ug/kg           | 1.0 | 0.13 | 1               |  |  |  |  |
| Bromoform                         | ND   | ug/kg           | 4.2 | 0.44 | 1               |  |  |  |  |
| 1,1,2,2-Tetrachloroethane         | ND   | ug/kg           | 1.0 | 0.18 | 1               |  |  |  |  |
| Benzene                           | ND   | ug/kg           | 1.0 | 0.12 | 1               |  |  |  |  |
| Toluene                           | ND   | ug/kg           | 1.6 | 0.12 | 1               |  |  |  |  |
| Ethylbenzene                      | ND   | ug/kg           | 1.0 | 0.16 | 1               |  |  |  |  |
| Chloromethane                     | ND   | ug/kg           | 5.3 | 0.82 | 1               |  |  |  |  |
| Bromomethane                      | ND   | ug/kg           | 2.1 | 0.36 | 1               |  |  |  |  |
| Vinyl chloride                    | ND   | ug/kg           | 2.1 | 0.15 | 1               |  |  |  |  |
| Chloroethane                      | ND   | ug/kg           | 2.1 | 0.33 | 1               |  |  |  |  |
| 1,1-Dichloroethene                | ND   | ug/kg           | 1.0 | 0.22 | 1               |  |  |  |  |
| trans-1,2-Dichloroethene          | ND   | ug/kg           | 1.6 | 0.22 | 1               |  |  |  |  |
| Trichloroethene                   | ND   | ug/kg           | 1.0 | 0.16 | 1               |  |  |  |  |
| 1,2-Dichlorobenzene               | ND   | ug/kg           | 5.3 | 0.19 | 1               |  |  |  |  |
| 1,3-Dichlorobenzene               | ND   | ug/kg           | 5.3 | 0.19 | 1               |  |  |  |  |
| 1,4-Dichlorobenzene               | ND   | ug/kg           | 5.3 | 0.26 | 1               |  |  |  |  |
| Methyl tert butyl ether           | ND   | ug/kg           | 2.1 | 0.11 | 1               |  |  |  |  |
|                                   |  |                 |     |      |                 |  |  |  |  |



|   |  |        |           | Serial_No:10031311:13 |                                    |        |   |
|---|--|--------|-----------|-----------------------|------------------------------------|--------|---|
| Project Name:                             | 295 MARYLAND ST                                  |        |           |                       | Lab Nu                             | mber:  | L1318716                                    |
| Project Number:                           | 0222-001-101                                     |        |           |                       | Report                             | Date:  | 10/03/13                                    |
| -   |  | SAMP   |           | 5                     | -                                  |        |   |
| Lab ID:<br>Client ID:<br>Sample Location: | L1318716-03<br>TP-6-13 (7-9')<br>295 MARYLAND ST |        |           |                       | Date Coll<br>Date Rec<br>Field Pre | eived: | 09/18/13 15:30<br>09/20/13<br>Not Specified |
| Parameter                                 |  | Result | Qualifier | Units                 | RL                                 | MDL    | Dilution Factor                             |
| Volatile Organics by                      | y GC/MS - Westborough                            | Lab    |           |                       |                                    |        |   |
| p/m-Xylene                                |  | ND     |           | ug/kg                 | 2.1                                | 0.34   | 1   |
| o-Xylene                                  |  | ND     |           | ug/kg                 | 2.1                                | 0.28   | 1   |
| cis-1,2-Dichloroethene                    |  | ND     |           | ug/kg                 | 1.0                                | 0.16   | 1   |
| Styrene                                   |  | ND     |           | ug/kg                 | 2.1                                | 0.33   | 1   |
| Dichlorodifluoromethane                   |  | ND     |           | ug/kg                 | 10                                 | 0.23   | 1   |
| Acetone                                   |  | ND     |           | ug/kg                 | 10                                 | 3.3    | 1   |
| Carbon disulfide                          |  | ND     |           | ug/kg                 | 10                                 | 2.1    | 1   |
| 2-Butanone                                |  | ND     |           | ug/kg                 | 10                                 | 0.37   | 1   |
| 4-Methyl-2-pentanone                      |  | ND     |           | ug/kg                 | 10                                 | 0.26   | 1   |
| 2-Hexanone                                |  | ND     |           | ug/kg                 | 10                                 | 0.20   | 1   |
| Bromochloromethane                        |  | ND     |           | ug/kg                 | 5.3                                | 0.21   | 1   |
| 1,2-Dibromoethane                         |  | ND     |           | ug/kg                 | 4.2                                | 0.19   | 1   |
| 1,2-Dibromo-3-chloroprop                  | ane  | ND     |           | ug/kg                 | 5.3                                | 0.83   | 1   |
| Isopropylbenzene                          |  | ND     |           | ug/kg                 | 1.0                                | 0.18   | 1   |
| 1,2,3-Trichlorobenzene                    |  | ND     |           | ug/kg                 | 5.3                                | 0.18   | 1   |
| 1,2,4-Trichlorobenzene                    |  | ND     |           | ug/kg                 | 5.3                                | 0.83   | 1   |
| Methyl Acetate                            |  | ND     |           | ug/kg                 | 21                                 | 0.80   | 1   |
| Cyclohexane                               |  | ND     |           | ug/kg                 | 21                                 | 1.1    | 1   |
| 1,4-Dioxane                               |  | ND     |           | ug/kg                 | 100                                | 18.    | 1   |
| Freon-113                                 |  | ND     |           | ug/kg                 | 21                                 | 0.29   | 1   |
| Methyl cyclohexane                        |  | ND     |           | ug/kg                 | 4.2                                | 1.3    | 1   |

|                       | Acceptance |           |          |  |  |  |  |
|-----------------------|------------|-----------|----------|--|--|--|--|
| Surrogate             | % Recovery | Qualifier | Criteria |  |  |  |  |
| 1,2-Dichloroethane-d4 | 103        |           | 70-130   |  |  |  |  |
| Toluene-d8            | 90         |           | 70-130   |  |  |  |  |
| 4-Bromofluorobenzene  | 98         |           | 70-130   |  |  |  |  |
| Dibromofluoromethane  | 99         |           | 70-130   |  |  |  |  |



|                         |                 |                | Serial_No       | :10031311:13   |
|-------------------------|-----------------|----------------|-----------------|----------------|
| Project Name:           | 295 MARYLAND ST |                | Lab Number:     | L1318716       |
| Project Number:         | 0222-001-101    |                | Report Date:    | 10/03/13       |
|                         |                 | SAMPLE RESULTS |                 |                |
| Lab ID:                 | L1318716-05     |                | Date Collected: | 09/19/13 09:30 |
| Client ID:              | TP-9-13 (9-12') |                | Date Received:  | 09/20/13       |
| Sample Location:        | 295 MARYLAND ST |                | Field Prep:     | Not Specified  |
| Matrix:                 | Soil            |                |                 |                |
| Analytical Method:      | 1,8260C         |                |                 |                |
| Analytical Date:        | 10/02/13 21:57  |                |                 |                |
| Analyst:                | MM              |                |                 |                |
| Percent Solids:         | 86%             |                |                 |                |
| TCLP/SPLP Ext.<br>Date: | 10/01/13 13:55  |                |                 |                |

| 1.6<br>1.3<br>1.8 | 10<br>10<br>10 |
|-------------------|----------------|
| 1.3<br>1.8        | 10             |
| 1.8               |                |
|                   | 10             |
|                   |                |
| 1.8               | 10             |
| 1.3               | 10             |
| 1.6               | 10             |
| 1.4               | 10             |
| 1.4               | 10             |
| 1.7               | 10             |
| 1.9               | 10             |
| 19.               | 10             |
|                   | 1.7<br>1.9     |

| Surrogate             | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|-----------------------|------------|-----------|------------------------|--|
| 1,2-Dichloroethane-d4 | 116        |           | 70-130                 |  |
| Toluene-d8            | 98         |           | 70-130                 |  |
| 4-Bromofluorobenzene  | 90         |           | 70-130                 |  |
| Dibromofluoromethane  | 113        |           | 70-130                 |  |



|   |   |                | Serial_No  | :10031311:13                                |
|---|---|----------------|--|---|
| Project Name:   | 295 MARYLAND ST   |                | Lab Number:                                      | L1318716                                    |
| Project Number:   | 0222-001-101  |                | Report Date:                                     | 10/03/13                                    |
|   |   | SAMPLE RESULTS |  |   |
| Lab ID:<br>Client ID:<br>Sample Location:<br>Matrix:<br>Analytical Method:<br>Analytical Date:<br>Analyst:<br>Percent Solids: | L1318716-05 D<br>TP-9-13 (9-12')<br>295 MARYLAND ST<br>Soil<br>1,8260C<br>09/30/13 16:49<br>BN<br>86% |                | Date Collected:<br>Date Received:<br>Field Prep: | 09/19/13 09:30<br>09/20/13<br>Not Specified |

| Parameter                         | Result      | Qualifier | Units | RL  | MDL | Dilution Factor |
|-----------------------------------|-------------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - West | oorough Lab |           |       |     |     |                 |
| Methylene chloride                | ND          |           | ug/kg | 580 | 120 | 50              |
| 1,1-Dichloroethane                | ND          |           | ug/kg | 87  | 10. | 50              |
| Chloroform                        | ND          |           | ug/kg | 87  | 21. | 50              |
| Carbon tetrachloride              | ND          |           | ug/kg | 58  | 12. | 50              |
| 1,2-Dichloropropane               | ND          |           | ug/kg | 200 | 13. | 50              |
| Dibromochloromethane              | ND          |           | ug/kg | 58  | 18. | 50              |
| 1,1,2-Trichloroethane             | ND          |           | ug/kg | 87  | 18. | 50              |
| Tetrachloroethene                 | ND          |           | ug/kg | 58  | 8.1 | 50              |
| Chlorobenzene                     | ND          |           | ug/kg | 58  | 20. | 50              |
| Trichlorofluoromethane            | ND          |           | ug/kg | 290 | 7.0 | 50              |
| 1,2-Dichloroethane                | ND          |           | ug/kg | 58  | 8.5 | 50              |
| 1,1,1-Trichloroethane             | ND          |           | ug/kg | 58  | 6.4 | 50              |
| Bromodichloromethane              | ND          |           | ug/kg | 58  | 13. | 50              |
| trans-1,3-Dichloropropene         | ND          |           | ug/kg | 58  | 7.0 | 50              |
| cis-1,3-Dichloropropene           | ND          |           | ug/kg | 58  | 7.4 | 50              |
| Bromoform                         | ND          |           | ug/kg | 230 | 24. | 50              |
| 1,1,2,2-Tetrachloroethane         | ND          |           | ug/kg | 58  | 9.9 | 50              |
| Benzene                           | ND          |           | ug/kg | 58  | 6.8 | 50              |
| Toluene                           | ND          |           | ug/kg | 87  | 6.5 | 50              |
| Ethylbenzene                      | 62          |           | ug/kg | 58  | 8.5 | 50              |
| Chloromethane                     | ND          |           | ug/kg | 290 | 45. | 50              |
| Bromomethane                      | 97          | J         | ug/kg | 120 | 20. | 50              |
| Vinyl chloride                    | ND          |           | ug/kg | 120 | 8.2 | 50              |
| Chloroethane                      | ND          |           | ug/kg | 120 | 18. | 50              |
| 1,1-Dichloroethene                | ND          |           | ug/kg | 58  | 12. | 50              |
| trans-1,2-Dichloroethene          | ND          |           | ug/kg | 87  | 12. | 50              |
| Trichloroethene                   | ND          |           | ug/kg | 58  | 8.8 | 50              |
| 1,2-Dichlorobenzene               | ND          |           | ug/kg | 290 | 11. | 50              |
| 1,3-Dichlorobenzene               | ND          |           | ug/kg | 290 | 11. | 50              |
| 1,4-Dichlorobenzene               | ND          |           | ug/kg | 290 | 14. | 50              |
| Methyl tert butyl ether           | ND          |           | ug/kg | 120 | 6.0 | 50              |
|                                   |             |           |       |     |     |                 |



|   |  |         |           | Serial_No:10031311:13 |                                     |        |   |
|---|--|---------|-----------|-----------------------|-------------------------------------|--------|---|
| Project Name:                             | 295 MARYLAND ST                                  |         |           |                       | Lab Nu                              | mber:  | L1318716                                    |
| Project Number:                           | 0222-001-101                                     |         |           |                       | Report                              | Date:  | 10/03/13                                    |
| -   |  | SAMP    |           | S                     | -                                   |        |   |
| Lab ID:<br>Client ID:<br>Sample Location: | L1318716-05<br>TP-9-13 (9-12')<br>295 MARYLAND S | D<br>ST |           |                       | Date Coll<br>Date Rec<br>Field Prej | eived: | 09/19/13 09:30<br>09/20/13<br>Not Specified |
| Parameter                                 |  | Result  | Qualifier | Units                 | RL                                  | MDL    | Dilution Factor                             |
| Volatile Organics by                      | y GC/MS - Westborough                            | n Lab   |           |                       |                                     |        |   |
| p/m-Xylene                                |  | 92      | J         | ug/kg                 | 120                                 | 19.    | 50  |
| o-Xylene                                  |  | ND      |           | ug/kg                 | 120                                 | 16.    | 50  |
| cis-1,2-Dichloroethene                    |  | ND      |           | ug/kg                 | 58                                  | 8.6    | 50  |
| Styrene                                   |  | ND      |           | ug/kg                 | 120                                 | 18.    | 50  |
| Dichlorodifluoromethane                   |  | ND      |           | ug/kg                 | 580                                 | 13.    | 50  |
| Acetone                                   |  | ND      |           | ug/kg                 | 580                                 | 180    | 50  |
| Carbon disulfide                          |  | ND      |           | ug/kg                 | 580                                 | 120    | 50  |
| 2-Butanone                                |  | ND      |           | ug/kg                 | 580                                 | 20.    | 50  |
| 4-Methyl-2-pentanone                      |  | ND      |           | ug/kg                 | 580                                 | 14.    | 50  |
| 2-Hexanone                                |  | ND      |           | ug/kg                 | 580                                 | 11.    | 50  |
| Bromochloromethane                        |  | ND      |           | ug/kg                 | 290                                 | 11.    | 50  |
| 1,2-Dibromoethane                         |  | ND      |           | ug/kg                 | 230                                 | 10.    | 50  |
| 1,2-Dibromo-3-chloroprop                  | ane  | ND      |           | ug/kg                 | 290                                 | 46.    | 50  |
| Isopropylbenzene                          |  | 46      | J         | ug/kg                 | 58                                  | 9.7    | 50  |
| 1,2,3-Trichlorobenzene                    |  | ND      |           | ug/kg                 | 290                                 | 9.7    | 50  |
| 1,2,4-Trichlorobenzene                    |  | ND      |           | ug/kg                 | 290                                 | 46.    | 50  |
| Methyl Acetate                            |  | ND      |           | ug/kg                 | 1200                                | 44.    | 50  |
| Cyclohexane                               |  | ND      |           | ug/kg                 | 1200                                | 62.    | 50  |
| 1,4-Dioxane                               |  | ND      |           | ug/kg                 | 5800                                | 1000   | 50  |
| Freon-113                                 |  | ND      |           | ug/kg                 | 1200                                | 16.    | 50  |
| Methyl cyclohexane                        |  | ND      |           | ug/kg                 | 230                                 | 73.    | 50  |

|                       | Acceptance |           |          |  |  |  |  |
|-----------------------|------------|-----------|----------|--|--|--|--|
| Surrogate             | % Recovery | Qualifier | Criteria |  |  |  |  |
| 1,2-Dichloroethane-d4 | 102        |           | 70-130   |  |  |  |  |
| Toluene-d8            | 92         |           | 70-130   |  |  |  |  |
| 4-Bromofluorobenzene  | 93         |           | 70-130   |  |  |  |  |
| Dibromofluoromethane  | 96         |           | 70-130   |  |  |  |  |



|                    |                 |                | Serial_No       | :10031311:13   |
|--------------------|-----------------|----------------|-----------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:     | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:    | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                 |                |
| Lab ID:            | L1318716-06     |                | Date Collected: | 09/19/13 16:00 |
| Client ID:         | TP-13-13 (8-9') |                | Date Received:  | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:     | Not Specified  |
| Matrix:            | Soil            |                |                 |                |
| Analytical Method: | 1,8260C         |                |                 |                |
| Analytical Date:   | 10/01/13 12:51  |                |                 |                |
| Analyst:           | PP              |                |                 |                |
| Percent Solids:    | 86%             |                |                 |                |

| Parameter                         | Result       | Qualifier | Units | RL  | MDL  | Dilution Factor |
|-----------------------------------|--------------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - West | tborough Lab |           |       |     |      |                 |
| Methylene chloride                | ND           |           | ug/kg | 12  | 2.3  | 1               |
| 1,1-Dichloroethane                | ND           |           | ug/kg | 1.8 | 0.21 | 1               |
| Chloroform                        | ND           |           | ug/kg | 1.8 | 0.43 | 1               |
| Carbon tetrachloride              | ND           |           | ug/kg | 1.2 | 0.24 | 1               |
| 1,2-Dichloropropane               | ND           |           | ug/kg | 4.1 | 0.27 | 1               |
| Dibromochloromethane              | ND           |           | ug/kg | 1.2 | 0.36 | 1               |
| 1,1,2-Trichloroethane             | ND           |           | ug/kg | 1.8 | 0.36 | 1               |
| Tetrachloroethene                 | ND           |           | ug/kg | 1.2 | 0.16 | 1               |
| Chlorobenzene                     | ND           |           | ug/kg | 1.2 | 0.41 | 1               |
| Trichlorofluoromethane            | ND           |           | ug/kg | 5.8 | 0.14 | 1               |
| 1,2-Dichloroethane                | ND           |           | ug/kg | 1.2 | 0.17 | 1               |
| 1,1,1-Trichloroethane             | ND           |           | ug/kg | 1.2 | 0.13 | 1               |
| Bromodichloromethane              | ND           |           | ug/kg | 1.2 | 0.27 | 1               |
| trans-1,3-Dichloropropene         | ND           |           | ug/kg | 1.2 | 0.14 | 1               |
| cis-1,3-Dichloropropene           | ND           |           | ug/kg | 1.2 | 0.15 | 1               |
| Bromoform                         | ND           |           | ug/kg | 4.7 | 0.48 | 1               |
| 1,1,2,2-Tetrachloroethane         | ND           |           | ug/kg | 1.2 | 0.20 | 1               |
| Benzene                           | ND           |           | ug/kg | 1.2 | 0.14 | 1               |
| Toluene                           | ND           |           | ug/kg | 1.8 | 0.13 | 1               |
| Ethylbenzene                      | ND           |           | ug/kg | 1.2 | 0.17 | 1               |
| Chloromethane                     | ND           |           | ug/kg | 5.8 | 0.91 | 1               |
| Bromomethane                      | ND           |           | ug/kg | 2.3 | 0.39 | 1               |
| Vinyl chloride                    | ND           |           | ug/kg | 2.3 | 0.16 | 1               |
| Chloroethane                      | ND           |           | ug/kg | 2.3 | 0.37 | 1               |
| 1,1-Dichloroethene                | ND           |           | ug/kg | 1.2 | 0.24 | 1               |
| trans-1,2-Dichloroethene          | ND           |           | ug/kg | 1.8 | 0.25 | 1               |
| Trichloroethene                   | ND           |           | ug/kg | 1.2 | 0.18 | 1               |
| 1,2-Dichlorobenzene               | ND           |           | ug/kg | 5.8 | 0.21 | 1               |
| 1,3-Dichlorobenzene               | ND           |           | ug/kg | 5.8 | 0.21 | 1               |
| 1,4-Dichlorobenzene               | ND           |           | ug/kg | 5.8 | 0.28 | 1               |
| Methyl tert butyl ether           | ND           |           | ug/kg | 2.3 | 0.12 | 1               |
|                                   |              |           |       |     |      |                 |



|   |   | Serial_No:10031311:13 |           |       |                                    |        |   |
|---|---|-----------------------|-----------|-------|------------------------------------|--------|---|
| Project Name:                             | 295 MARYLAND ST                                   |                       |           |       | Lab Nu                             | mber:  | L1318716                                    |
| Project Number:                           | 0222-001-101                                      |                       |           |       | Report                             | Date:  | 10/03/13                                    |
| -   |   | SAMP                  |           | 5     | -                                  |        |   |
| Lab ID:<br>Client ID:<br>Sample Location: | L1318716-06<br>TP-13-13 (8-9')<br>295 MARYLAND ST | -                     |           |       | Date Coll<br>Date Rec<br>Field Pre | eived: | 09/19/13 16:00<br>09/20/13<br>Not Specified |
| Parameter                                 |   | Result                | Qualifier | Units | RL                                 | MDL    | Dilution Factor                             |
| Volatile Organics by                      | y GC/MS - Westborough                             | Lab                   |           |       |                                    |        |   |
| p/m-Xylene                                |   | ND                    |           | ug/kg | 2.3                                | 0.38   | 1   |
| o-Xylene                                  |   | ND                    |           | ug/kg | 2.3                                | 0.32   | 1   |
| cis-1,2-Dichloroethene                    |   | ND                    |           | ug/kg | 1.2                                | 0.17   | 1   |
| Styrene                                   |   | ND                    |           | ug/kg | 2.3                                | 0.36   | 1   |
| Dichlorodifluoromethane                   |   | ND                    |           | ug/kg | 12                                 | 0.25   | 1   |
| Acetone                                   |   | 32                    |           | ug/kg | 12                                 | 3.6    | 1   |
| Carbon disulfide                          |   | ND                    |           | ug/kg | 12                                 | 2.3    | 1   |
| 2-Butanone                                |   | 3.0                   | J         | ug/kg | 12                                 | 0.41   | 1   |
| 4-Methyl-2-pentanone                      |   | ND                    |           | ug/kg | 12                                 | 0.28   | 1   |
| 2-Hexanone                                |   | ND                    |           | ug/kg | 12                                 | 0.22   | 1   |
| Bromochloromethane                        |   | ND                    |           | ug/kg | 5.8                                | 0.23   | 1   |
| 1,2-Dibromoethane                         |   | ND                    |           | ug/kg | 4.7                                | 0.21   | 1   |
| 1,2-Dibromo-3-chloroprop                  | ane   | ND                    |           | ug/kg | 5.8                                | 0.92   | 1   |
| Isopropylbenzene                          |   | 1.3                   |           | ug/kg | 1.2                                | 0.20   | 1   |
| 1,2,3-Trichlorobenzene                    |   | ND                    |           | ug/kg | 5.8                                | 0.20   | 1   |
| 1,2,4-Trichlorobenzene                    |   | ND                    |           | ug/kg | 5.8                                | 0.92   | 1   |
| Methyl Acetate                            |   | ND                    |           | ug/kg | 23                                 | 0.89   | 1   |
| Cyclohexane                               |   | ND                    |           | ug/kg | 23                                 | 1.2    | 1   |
| 1,4-Dioxane                               |   | ND                    |           | ug/kg | 120                                | 20.    | 1   |
| Freon-113                                 |   | ND                    |           | ug/kg | 23                                 | 0.32   | 1   |
| Methyl cyclohexane                        |   | ND                    |           | ug/kg | 4.7                                | 1.5    | 1   |

|                       |            | Acceptance |          |  |  |  |
|-----------------------|------------|------------|----------|--|--|--|
| Surrogate             | % Recovery | Qualifier  | Criteria |  |  |  |
| 1,2-Dichloroethane-d4 | 99         |            | 70-130   |  |  |  |
| Toluene-d8            | 93         |            | 70-130   |  |  |  |
| 4-Bromofluorobenzene  | 96         |            | 70-130   |  |  |  |
| Dibromofluoromethane  | 97         |            | 70-130   |  |  |  |



|                    |                 |                | Serial_No       | :10031311:13   |
|--------------------|-----------------|----------------|-----------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:     | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:    | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                 |                |
| Lab ID:            | L1318716-07     |                | Date Collected: | 09/19/13 14:15 |
| Client ID:         | TP-22-13 (6-8') |                | Date Received:  | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:     | Not Specified  |
| Matrix:            | Soil            |                |                 |                |
| Analytical Method: | 1,8260C         |                |                 |                |
| Analytical Date:   | 10/01/13 13:19  |                |                 |                |
| Analyst:           | PP              |                |                 |                |
| Percent Solids:    | 86%             |                |                 |                |

| Parameter                        | Result        | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------|---------------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Wes | stborough Lab |           |       |     |      |                 |
| Methylene chloride               | ND            |           | ug/kg | 12  | 2.3  | 1               |
| 1,1-Dichloroethane               | ND            |           | ug/kg | 1.8 | 0.21 | 1               |
| Chloroform                       | ND            |           | ug/kg | 1.8 | 0.43 | 1               |
| Carbon tetrachloride             | ND            |           | ug/kg | 1.2 | 0.24 | 1               |
| 1,2-Dichloropropane              | ND            |           | ug/kg | 4.1 | 0.27 | 1               |
| Dibromochloromethane             | ND            |           | ug/kg | 1.2 | 0.36 | 1               |
| 1,1,2-Trichloroethane            | ND            |           | ug/kg | 1.8 | 0.36 | 1               |
| Tetrachloroethene                | ND            |           | ug/kg | 1.2 | 0.16 | 1               |
| Chlorobenzene                    | ND            |           | ug/kg | 1.2 | 0.41 | 1               |
| Trichlorofluoromethane           | ND            |           | ug/kg | 5.8 | 0.14 | 1               |
| 1,2-Dichloroethane               | ND            |           | ug/kg | 1.2 | 0.17 | 1               |
| 1,1,1-Trichloroethane            | ND            |           | ug/kg | 1.2 | 0.13 | 1               |
| Bromodichloromethane             | ND            |           | ug/kg | 1.2 | 0.27 | 1               |
| trans-1,3-Dichloropropene        | ND            |           | ug/kg | 1.2 | 0.14 | 1               |
| cis-1,3-Dichloropropene          | ND            |           | ug/kg | 1.2 | 0.15 | 1               |
| Bromoform                        | ND            |           | ug/kg | 4.7 | 0.48 | 1               |
| 1,1,2,2-Tetrachloroethane        | ND            |           | ug/kg | 1.2 | 0.20 | 1               |
| Benzene                          | ND            |           | ug/kg | 1.2 | 0.14 | 1               |
| Toluene                          | ND            |           | ug/kg | 1.8 | 0.13 | 1               |
| Ethylbenzene                     | ND            |           | ug/kg | 1.2 | 0.17 | 1               |
| Chloromethane                    | ND            |           | ug/kg | 5.8 | 0.92 | 1               |
| Bromomethane                     | ND            |           | ug/kg | 2.3 | 0.40 | 1               |
| Vinyl chloride                   | ND            |           | ug/kg | 2.3 | 0.16 | 1               |
| Chloroethane                     | ND            |           | ug/kg | 2.3 | 0.37 | 1               |
| 1,1-Dichloroethene               | ND            |           | ug/kg | 1.2 | 0.24 | 1               |
| trans-1,2-Dichloroethene         | ND            |           | ug/kg | 1.8 | 0.25 | 1               |
| Trichloroethene                  | ND            |           | ug/kg | 1.2 | 0.18 | 1               |
| 1,2-Dichlorobenzene              | ND            |           | ug/kg | 5.8 | 0.21 | 1               |
| 1,3-Dichlorobenzene              | ND            |           | ug/kg | 5.8 | 0.21 | 1               |
| 1,4-Dichlorobenzene              | ND            |           | ug/kg | 5.8 | 0.28 | 1               |
| Methyl tert butyl ether          | ND            |           | ug/kg | 2.3 | 0.12 | 1               |
|                                  |               |           |       |     |      |                 |



|   |  |        |           |   | Ş      | Serial_No: | 10031311:13     |
|---|--|--------|-----------|---|--------|------------|-----------------|
| Project Name:                             | 295 MARYLAND ST  |        |           |   | Lab Nu | mber:      | L1318716        |
| Project Number:                           | 0222-001-101   |        |           |   | Report | Date:      | 10/03/13        |
| -   |  | SAMP   |           | 5   |        |            |                 |
| Lab ID:<br>Client ID:<br>Sample Location: | L1318716-07 Date Collected:<br>TP-22-13 (6-8') Date Received:<br>cation: 295 MARYLAND ST Field Prep: |        | eived:    | 09/19/13 14:15<br>09/20/13<br>Not Specified |        |            |                 |
| Parameter                                 |  | Result | Qualifier | Units                                       | RL     | MDL        | Dilution Factor |
| Volatile Organics b                       | y GC/MS - Westborough  | Lab    |           |   |        |            |                 |
| p/m-Xylene                                |  | ND     |           | ug/kg                                       | 2.3    | 0.38       | 1               |
| o-Xylene                                  |  | ND     |           | ug/kg                                       | 2.3    | 0.32       | 1               |
| cis-1,2-Dichloroethene                    |  | ND     |           | ug/kg                                       | 1.2    | 0.17       | 1               |
| Styrene                                   |  | ND     |           | ug/kg                                       | 2.3    | 0.36       | 1               |
| Dichlorodifluoromethane                   |  | ND     |           | ug/kg                                       | 12     | 0.26       | 1               |
| Acetone                                   |  | ND     |           | ug/kg                                       | 12     | 3.6        | 1               |
| Carbon disulfide                          |  | ND     |           | ug/kg                                       | 12     | 2.3        | 1               |
| 2-Butanone                                |  | ND     |           | ug/kg                                       | 12     | 0.42       | 1               |
| 4-Methyl-2-pentanone                      |  | ND     |           | ug/kg                                       | 12     | 0.28       | 1               |
| 2-Hexanone                                |  | ND     |           | ug/kg                                       | 12     | 0.22       | 1               |
| Bromochloromethane                        |  | ND     |           | ug/kg                                       | 5.8    | 0.23       | 1               |
| 1,2-Dibromoethane                         |  | ND     |           | ug/kg                                       | 4.7    | 0.21       | 1               |
| 1,2-Dibromo-3-chloroprop                  | ane  | ND     |           | ug/kg                                       | 5.8    | 0.92       | 1               |
| Isopropylbenzene                          |  | ND     |           | ug/kg                                       | 1.2    | 0.20       | 1               |
| 1,2,3-Trichlorobenzene                    |  | ND     |           | ug/kg                                       | 5.8    | 0.20       | 1               |
| 1,2,4-Trichlorobenzene                    |  | ND     |           | ug/kg                                       | 5.8    | 0.92       | 1               |
| Methyl Acetate                            |  | ND     |           | ug/kg                                       | 23     | 0.89       | 1               |
| Cyclohexane                               |  | ND     |           | ug/kg                                       | 23     | 1.2        | 1               |
| 1,4-Dioxane                               |  | ND     |           | ug/kg                                       | 120    | 20.        | 1               |
| Freon-113                                 |  | ND     |           | ug/kg                                       | 23     | 0.32       | 1               |
| Methyl cyclohexane                        |  | ND     |           | ug/kg                                       | 4.7    | 1.5        | 1               |

|                       |            | Acceptance |          |  |  |  |  |
|-----------------------|------------|------------|----------|--|--|--|--|
| Surrogate             | % Recovery | Qualifier  | Criteria |  |  |  |  |
| 1,2-Dichloroethane-d4 | 97         |            | 70-130   |  |  |  |  |
| Toluene-d8            | 93         |            | 70-130   |  |  |  |  |
| 4-Bromofluorobenzene  | 95         |            | 70-130   |  |  |  |  |
| Dibromofluoromethane  | 97         |            | 70-130   |  |  |  |  |



 Project Name:
 295 MARYLAND ST
 Lab Number:
 L1318716

 Project Number:
 0222-001-101
 Report Date:
 10/03/13

| Analytical Method: | 1,8260C        |
|--------------------|----------------|
| Analytical Date:   | 09/30/13 14:55 |
| Analyst:           | BN             |

| arameter                      | Result         | Qualifier  | Units  | RI       | L      | MDL        |  |
|-------------------------------|----------------|------------|--------|----------|--------|------------|--|
| olatile Organics by GC/MS - W | /estborough La | b for samp | le(s): | 01-03,05 | Batch: | WG640411-3 |  |
| Methylene chloride            | ND             |            | ug/kg  | 10       | )      | 2.0        |  |
| 1,1-Dichloroethane            | ND             |            | ug/kg  | 1.       | 5      | 0.18       |  |
| Chloroform                    | ND             |            | ug/kg  | 1.       | 5      | 0.37       |  |
| Carbon tetrachloride          | ND             |            | ug/kg  | 1.0      | 0      | 0.21       |  |
| 1,2-Dichloropropane           | ND             |            | ug/kg  | 3.       | 5      | 0.23       |  |
| Dibromochloromethane          | ND             |            | ug/kg  | 1.0      | 0      | 0.31       |  |
| 1,1,2-Trichloroethane         | ND             |            | ug/kg  | 1.       | 5      | 0.30       |  |
| Tetrachloroethene             | ND             |            | ug/kg  | 1.0      | 0      | 0.14       |  |
| Chlorobenzene                 | ND             |            | ug/kg  | 1.0      | 0      | 0.35       |  |
| Trichlorofluoromethane        | ND             |            | ug/kg  | 5.       | 0      | 0.12       |  |
| 1,2-Dichloroethane            | ND             |            | ug/kg  | 1.0      | 0      | 0.15       |  |
| 1,1,1-Trichloroethane         | ND             |            | ug/kg  | 1.0      | 0      | 0.11       |  |
| Bromodichloromethane          | ND             |            | ug/kg  | 1.0      | 0      | 0.23       |  |
| trans-1,3-Dichloropropene     | ND             |            | ug/kg  | 1.0      | 0      | 0.12       |  |
| cis-1,3-Dichloropropene       | ND             |            | ug/kg  | 1.0      | 0      | 0.13       |  |
| Bromoform                     | ND             |            | ug/kg  | 4.       | 0      | 0.41       |  |
| 1,1,2,2-Tetrachloroethane     | ND             |            | ug/kg  | 1.0      | 0      | 0.17       |  |
| Benzene                       | ND             |            | ug/kg  | 1.0      | D      | 0.12       |  |
| Toluene                       | 0.28           | J          | ug/kg  | 1.       | 5      | 0.11       |  |
| Ethylbenzene                  | ND             |            | ug/kg  | 1.0      | 0      | 0.15       |  |
| Chloromethane                 | ND             |            | ug/kg  | 5.       | D      | 0.78       |  |
| Bromomethane                  | ND             |            | ug/kg  | 2.0      | D      | 0.34       |  |
| Vinyl chloride                | ND             |            | ug/kg  | 2.0      | D      | 0.14       |  |
| Chloroethane                  | ND             |            | ug/kg  | 2.0      | 0      | 0.32       |  |
| 1,1-Dichloroethene            | ND             |            | ug/kg  | 1.0      | 0      | 0.20       |  |
| trans-1,2-Dichloroethene      | ND             |            | ug/kg  | 1.       | 5      | 0.21       |  |
| Trichloroethene               | ND             |            | ug/kg  | 1.0      | 0      | 0.15       |  |
| 1,2-Dichlorobenzene           | ND             |            | ug/kg  | 5.0      | D      | 0.18       |  |
| 1,3-Dichlorobenzene           | ND             |            | ug/kg  | 5.0      | 0      | 0.18       |  |
| 1,4-Dichlorobenzene           | ND             |            | ug/kg  | 5.       | 0      | 0.24       |  |
| Methyl tert butyl ether       | ND             |            | ug/kg  | 2.       | 0      | 0.10       |  |
|                               |                |            |        |          |        |            |  |



| Project Name:   | 295 MARYLAND ST | Lab Number:  | L1318716 |
|-----------------|-----------------|--------------|----------|
| Project Number: | 0222-001-101    | Report Date: | 10/03/13 |

| Analytical Method: | 1,8260C        |
|--------------------|----------------|
| Analytical Date:   | 09/30/13 14:55 |
| Analyst:           | BN             |

| arameter                    | Result           | Qualifier Units  | s RL     | . MDL            |
|-----------------------------|------------------|------------------|----------|------------------|
| platile Organics by GC/MS   | - Westborough La | b for sample(s): | 01-03,05 | Batch: WG640411- |
| p/m-Xylene                  | ND               | ug/k             | g 2.0    | 0.32             |
| o-Xylene                    | ND               | ug/kg            | g 2.0    | 0.27             |
| cis-1,2-Dichloroethene      | ND               | ug/kợ            | g 1.0    | 0.15             |
| Styrene                     | ND               | ug/kợ            | g 2.0    | 0.31             |
| Dichlorodifluoromethane     | ND               | ug/kợ            | g 10     | 0.22             |
| Acetone                     | ND               | ug/kợ            | g 10     | 3.1              |
| Carbon disulfide            | ND               | ug/kợ            | g 10     | 2.0              |
| 2-Butanone                  | ND               | ug/kợ            | g 10     | 0.36             |
| 4-Methyl-2-pentanone        | ND               | ug/kợ            | g 10     | 0.24             |
| 2-Hexanone                  | ND               | ug/kợ            | g 10     | 0.19             |
| Bromochloromethane          | ND               | ug/kợ            | g 5.0    | 0.20             |
| 1,2-Dibromoethane           | ND               | ug/kợ            | g 4.0    | 0.18             |
| 1,2-Dibromo-3-chloropropane | ND               | ug/kợ            | g 5.0    | 0.79             |
| Isopropylbenzene            | ND               | ug/kợ            | g 1.0    | 0.17             |
| 1,2,3-Trichlorobenzene      | ND               | ug/kợ            | g 5.0    | 0.17             |
| 1,2,4-Trichlorobenzene      | ND               | ug/kợ            | g 5.0    | 0.79             |
| Methyl Acetate              | ND               | ug/kợ            | g 20     | 0.76             |
| Cyclohexane                 | ND               | ug/kợ            | g 20     | 1.1              |
| 1,4-Dioxane                 | ND               | ug/kợ            | g 100    | ) 17.            |
| Freon-113                   | ND               | ug/ko            | g 20     | 0.27             |
| Methyl cyclohexane          | ND               | ug/ko            | g 4.0    | ) 1.3            |

| Surrogate             | %Recovery | Acceptance<br>Qualifier Criteria |
|-----------------------|-----------|----------------------------------|
| 1,2-Dichloroethane-d4 | 99        | 70-130                           |
| Toluene-d8            | 91        | 70-130                           |
| 4-Bromofluorobenzene  | 92        | 70-130                           |
| Dibromofluoromethane  | 99        | 70-130                           |



| Project Name:   | 295 MARYLAND ST | Lab Number:  | L1318716 |
|-----------------|-----------------|--------------|----------|
| Project Number: | 0222-001-101    | Report Date: | 10/03/13 |

| Analytical Method: | 1,8260C        |
|--------------------|----------------|
| Analytical Date:   | 10/01/13 09:35 |
| Analyst:           | PP             |

| arameter                      | Result         | Qualifier  | Units        | RL       | MDL        |
|-------------------------------|----------------|------------|--------------|----------|------------|
| olatile Organics by GC/MS - V | Vestborough La | b for samp | le(s): 06-07 | 7 Batch: | WG640457-3 |
| Methylene chloride            | ND             |            | ug/kg        | 10       | 2.0        |
| 1,1-Dichloroethane            | ND             |            | ug/kg        | 1.5      | 0.18       |
| Chloroform                    | ND             |            | ug/kg        | 1.5      | 0.37       |
| Carbon tetrachloride          | ND             |            | ug/kg        | 1.0      | 0.21       |
| 1,2-Dichloropropane           | ND             |            | ug/kg        | 3.5      | 0.23       |
| Dibromochloromethane          | ND             |            | ug/kg        | 1.0      | 0.31       |
| 1,1,2-Trichloroethane         | ND             |            | ug/kg        | 1.5      | 0.30       |
| Tetrachloroethene             | ND             |            | ug/kg        | 1.0      | 0.14       |
| Chlorobenzene                 | ND             |            | ug/kg        | 1.0      | 0.35       |
| Trichlorofluoromethane        | ND             |            | ug/kg        | 5.0      | 0.12       |
| 1,2-Dichloroethane            | ND             |            | ug/kg        | 1.0      | 0.15       |
| 1,1,1-Trichloroethane         | ND             |            | ug/kg        | 1.0      | 0.11       |
| Bromodichloromethane          | ND             |            | ug/kg        | 1.0      | 0.23       |
| trans-1,3-Dichloropropene     | ND             |            | ug/kg        | 1.0      | 0.12       |
| cis-1,3-Dichloropropene       | ND             |            | ug/kg        | 1.0      | 0.13       |
| Bromoform                     | ND             |            | ug/kg        | 4.0      | 0.41       |
| 1,1,2,2-Tetrachloroethane     | ND             |            | ug/kg        | 1.0      | 0.17       |
| Benzene                       | ND             |            | ug/kg        | 1.0      | 0.12       |
| Toluene                       | 0.31           | J          | ug/kg        | 1.5      | 0.11       |
| Ethylbenzene                  | ND             |            | ug/kg        | 1.0      | 0.15       |
| Chloromethane                 | ND             |            | ug/kg        | 5.0      | 0.78       |
| Bromomethane                  | ND             |            | ug/kg        | 2.0      | 0.34       |
| Vinyl chloride                | ND             |            | ug/kg        | 2.0      | 0.14       |
| Chloroethane                  | ND             |            | ug/kg        | 2.0      | 0.32       |
| 1,1-Dichloroethene            | ND             |            | ug/kg        | 1.0      | 0.20       |
| trans-1,2-Dichloroethene      | ND             |            | ug/kg        | 1.5      | 0.21       |
| Trichloroethene               | ND             |            | ug/kg        | 1.0      | 0.15       |
| 1,2-Dichlorobenzene           | ND             |            | ug/kg        | 5.0      | 0.18       |
| 1,3-Dichlorobenzene           | ND             |            | ug/kg        | 5.0      | 0.18       |
| 1,4-Dichlorobenzene           | ND             |            | ug/kg        | 5.0      | 0.24       |
| Methyl tert butyl ether       | ND             |            | ug/kg        | 2.0      | 0.10       |
|                               |                |            |              |          |            |



| Project Name:   | 295 MARYLAND ST | Lab Number:  | L1318716 |
|-----------------|-----------------|--------------|----------|
| Project Number: | 0222-001-101    | Report Date: | 10/03/13 |

| Analytical Method: | 1,8260C        |
|--------------------|----------------|
| Analytical Date:   | 10/01/13 09:35 |
| Analyst:           | PP             |

| arameter                      | Result          | Qualifier Units  | RL           | MDL        |
|-------------------------------|-----------------|------------------|--------------|------------|
| olatile Organics by GC/MS - V | /estborough Lal | o for sample(s): | 06-07 Batch: | WG640457-3 |
| p/m-Xylene                    | ND              | ug/kg            | j 2.0        | 0.32       |
| o-Xylene                      | ND              | ug/kg            | <b>j</b> 2.0 | 0.27       |
| cis-1,2-Dichloroethene        | ND              | ug/kg            | <b>j</b> 1.0 | 0.15       |
| Styrene                       | ND              | ug/kg            | <b>j</b> 2.0 | 0.31       |
| Dichlorodifluoromethane       | ND              | ug/kg            | <b>j</b> 10  | 0.22       |
| Acetone                       | ND              | ug/kg            | <b>j</b> 10  | 3.1        |
| Carbon disulfide              | ND              | ug/kg            | <b>j</b> 10  | 2.0        |
| 2-Butanone                    | ND              | ug/kg            | <b>j</b> 10  | 0.36       |
| 4-Methyl-2-pentanone          | ND              | ug/kg            | <b>j</b> 10  | 0.24       |
| 2-Hexanone                    | ND              | ug/kg            | <b>j</b> 10  | 0.19       |
| Bromochloromethane            | ND              | ug/kg            | <b>5</b> .0  | 0.20       |
| 1,2-Dibromoethane             | ND              | ug/kg            | 4.0          | 0.18       |
| 1,2-Dibromo-3-chloropropane   | ND              | ug/kg            | <b>5</b> .0  | 0.79       |
| Isopropylbenzene              | ND              | ug/kg            | <b>j</b> 1.0 | 0.17       |
| 1,2,3-Trichlorobenzene        | ND              | ug/kg            | <b>j</b> 5.0 | 0.17       |
| 1,2,4-Trichlorobenzene        | ND              | ug/kg            | <b>j</b> 5.0 | 0.79       |
| Methyl Acetate                | ND              | ug/kg            | j 20         | 0.76       |
| Cyclohexane                   | ND              | ug/kg            | j 20         | 1.1        |
| 1,4-Dioxane                   | ND              | ug/kg            | <b>j</b> 100 | 17.        |
| Freon-113                     | ND              | ug/kg            | j 20         | 0.27       |
| Methyl cyclohexane            | ND              | ug/kg            | 4.0          | 1.3        |

| Surrogate             | %Recovery | Acceptance<br>Qualifier Criteria |
|-----------------------|-----------|----------------------------------|
| 1,2-Dichloroethane-d4 | 99        | 70-130                           |
| Toluene-d8            | 92        | 70-130                           |
| 4-Bromofluorobenzene  | 95        | 70-130                           |
| Dibromofluoromethane  | 97        | 70-130                           |



| Project Name:   | 295 MARYLAND ST |      |      | Lab Number:  | L1318716 |
|-----------------|-----------------|------|------|--------------|----------|
| Project Number: | 0222-001-101    |      |      | Report Date: | 10/03/13 |
|                 |                 | <br> | <br> |              |          |

| Analytical Method:    | 1,8260C        |
|-----------------------|----------------|
| Analytical Date:      | 10/02/13 09:42 |
| Analyst:              | MM             |
| TCLP Extraction Date: | 10/01/13 13:55 |

Extraction Date: 10/01/13 13:55

| arameter                  | Result 0          | Qualifier Units  | RL        | MDL        |  |
|---------------------------|-------------------|------------------|-----------|------------|--|
| CLP Volatiles by EPA 1311 | - Westborough Lab | for sample(s): ( | 03 Batch: | WG640659-3 |  |
| Chloroform                | ND                | ug/l             | 7.5       | 1.6        |  |
| Carbon tetrachloride      | ND                | ug/l             | 5.0       | 1.3        |  |
| Tetrachloroethene         | ND                | ug/l             | 5.0       | 1.8        |  |
| Chlorobenzene             | ND                | ug/l             | 5.0       | 1.8        |  |
| 1,2-Dichloroethane        | ND                | ug/l             | 5.0       | 1.3        |  |
| Benzene                   | ND                | ug/l             | 5.0       | 1.6        |  |
| Vinyl chloride            | ND                | ug/l             | 10        | 1.4        |  |
| 1,1-Dichloroethene        | ND                | ug/l             | 5.0       | 1.4        |  |
| Trichloroethene           | ND                | ug/l             | 5.0       | 1.7        |  |
| 1,4-Dichlorobenzene       | ND                | ug/l             | 25        | 1.9        |  |
| 2-Butanone                | ND                | ug/l             | 50        | 19.        |  |

|                       |           |           | Acceptance |  |
|-----------------------|-----------|-----------|------------|--|
| Surrogate             | %Recovery | Qualifier | Criteria   |  |
|                       |           |           |            |  |
| 1,2-Dichloroethane-d4 | 97        |           | 70-130     |  |
| Toluene-d8            | 91        |           | 70-130     |  |
| 4-Bromofluorobenzene  | 98        |           | 70-130     |  |
| Dibromofluoromethane  | 98        |           | 70-130     |  |



| Project Name:   | 295 MARYLAND ST | Lab Number:  | L1318716 |
|-----------------|-----------------|--------------|----------|
| Project Number: | 0222-001-101    | Report Date: | 10/03/13 |
|                 |                 |              |          |

| Analytical Method:    | 1,8260C        |
|-----------------------|----------------|
| Analytical Date:      | 10/02/13 17:10 |
| Analyst:              | MM             |
| TCLP Extraction Date: | 10/01/13 13:55 |

Extraction Date: 10/01/13 13:55

| arameter                      | Result        | Qualifier Units  | RL        | MDL        |  |
|-------------------------------|---------------|------------------|-----------|------------|--|
| CLP Volatiles by EPA 1311 - W | estborough La | b for sample(s): | 05 Batch: | WG640867-3 |  |
| Chloroform                    | ND            | ug/l             | 7.5       | 1.6        |  |
| Carbon tetrachloride          | ND            | ug/l             | 5.0       | 1.3        |  |
| Tetrachloroethene             | ND            | ug/l             | 5.0       | 1.8        |  |
| Chlorobenzene                 | ND            | ug/l             | 5.0       | 1.8        |  |
| 1,2-Dichloroethane            | ND            | ug/l             | 5.0       | 1.3        |  |
| Benzene                       | ND            | ug/l             | 5.0       | 1.6        |  |
| Vinyl chloride                | ND            | ug/l             | 10        | 1.4        |  |
| 1,1-Dichloroethene            | ND            | ug/l             | 5.0       | 1.4        |  |
| Trichloroethene               | ND            | ug/l             | 5.0       | 1.7        |  |
| 1,4-Dichlorobenzene           | ND            | ug/l             | 25        | 1.9        |  |
| 2-Butanone                    | ND            | ug/l             | 50        | 19.        |  |

|                       |           |           | Acceptance |  |
|-----------------------|-----------|-----------|------------|--|
| Surrogate             | %Recovery | Qualifier | Criteria   |  |
|                       |           |           |            |  |
| 1,2-Dichloroethane-d4 | 115       |           | 70-130     |  |
| Toluene-d8            | 98        |           | 70-130     |  |
| 4-Bromofluorobenzene  | 94        |           | 70-130     |  |
| Dibromofluoromethane  | 109       |           | 70-130     |  |



**Project Name:** 295 MARYLAND ST

Project Number: 0222-001-101

| Parameter                                | LCS<br>%Recovery | Qual       | LCS<br>%Reco |        | Qual      | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--|------------------|------------|--------------|--------|-----------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough | Lab Associated   | sample(s): | 01-03,05     | Batch: | WG640411- | 1 WG640411-2        |     |      |               |
| Methylene chloride                       | 104              |            | 10           | )4     |           | 70-130              | 0   |      | 30            |
| 1,1-Dichloroethane                       | 106              |            | 10           | )1     |           | 70-130              | 5   |      | 30            |
| Chloroform                               | 104              |            | 10           | )2     |           | 70-130              | 2   |      | 30            |
| Carbon tetrachloride                     | 105              |            | 10           | )2     |           | 70-130              | 3   |      | 30            |
| 1,2-Dichloropropane                      | 101              |            | 9            | 9      |           | 70-130              | 2   |      | 30            |
| Dibromochloromethane                     | 91               |            | 9            | 3      |           | 70-130              | 2   |      | 30            |
| 1,1,2-Trichloroethane                    | 96               |            | 9            | 3      |           | 70-130              | 3   |      | 30            |
| Tetrachloroethene                        | 98               |            | 9            | 5      |           | 70-130              | 3   |      | 30            |
| Chlorobenzene                            | 96               |            | 9            | 2      |           | 70-130              | 4   |      | 30            |
| Trichlorofluoromethane                   | 110              |            | 9            | 9      |           | 70-139              | 11  |      | 30            |
| 1,2-Dichloroethane                       | 103              |            | 10           | )3     |           | 70-130              | 0   |      | 30            |
| 1,1,1-Trichloroethane                    | 104              |            | 10           | )1     |           | 70-130              | 3   |      | 30            |
| Bromodichloromethane                     | 102              |            | 10           | 00     |           | 70-130              | 2   |      | 30            |
| trans-1,3-Dichloropropene                | 89               |            | 9            | 2      |           | 70-130              | 3   |      | 30            |
| cis-1,3-Dichloropropene                  | 97               |            | 9            | 9      |           | 70-130              | 2   |      | 30            |
| 1,1-Dichloropropene                      | 101              |            | 9            | 8      |           | 70-130              | 3   |      | 30            |
| Bromoform                                | 88               |            | 8            | 8      |           | 70-130              | 0   |      | 30            |
| 1,1,2,2-Tetrachloroethane                | 86               |            | 8            | 6      |           | 70-130              | 0   |      | 30            |
| Benzene                                  | 102              |            | 9            | 8      |           | 70-130              | 4   |      | 30            |
| Toluene                                  | 97               |            | 9            | 0      |           | 70-130              | 7   |      | 30            |
| Ethylbenzene                             | 96               |            | 9            | 2      |           | 70-130              | 4   |      | 30            |



**Project Name:** 295 MARYLAND ST

Project Number: 0222-001-101

| Parameter                                  | LCS<br>%Recovery | Qual       | LCSD<br>%Recovery | %Recovery<br>Qual Limits | RPD | RPD<br>Qual Limits |
|--|------------------|------------|-------------------|--------------------------|-----|--------------------|
| Volatile Organics by GC/MS - Westborough L | ab Associated    | sample(s): | 01-03,05 Batch:   | WG640411-1 WG640411-2    |     |                    |
| Chloromethane                              | 96               |            | 85                | 52-130                   | 12  | 30                 |
| Bromomethane                               | 103              |            | 88                | 57-147                   | 16  | 30                 |
| Vinyl chloride                             | 100              |            | 89                | 67-130                   | 12  | 30                 |
| Chloroethane                               | 128              |            | 109               | 50-151                   | 16  | 30                 |
| 1,1-Dichloroethene                         | 101              |            | 96                | 65-135                   | 5   | 30                 |
| trans-1,2-Dichloroethene                   | 105              |            | 101               | 70-130                   | 4   | 30                 |
| Trichloroethene                            | 104              |            | 101               | 70-130                   | 3   | 30                 |
| 1,2-Dichlorobenzene                        | 92               |            | 90                | 70-130                   | 2   | 30                 |
| 1,3-Dichlorobenzene                        | 93               |            | 91                | 70-130                   | 2   | 30                 |
| 1,4-Dichlorobenzene                        | 93               |            | 91                | 70-130                   | 2   | 30                 |
| Methyl tert butyl ether                    | 99               |            | 99                | 66-130                   | 0   | 30                 |
| p/m-Xylene                                 | 98               |            | 94                | 70-130                   | 4   | 30                 |
| o-Xylene                                   | 98               |            | 94                | 70-130                   | 4   | 30                 |
| cis-1,2-Dichloroethene                     | 104              |            | 101               | 70-130                   | 3   | 30                 |
| Dibromomethane                             | 100              |            | 98                | 70-130                   | 2   | 30                 |
| Styrene                                    | 99               |            | 95                | 70-130                   | 4   | 30                 |
| Dichlorodifluoromethane                    | 85               |            | 69                | 30-146                   | 21  | 30                 |
| Acetone                                    | 88               |            | 105               | 54-140                   | 18  | 30                 |
| Carbon disulfide                           | 99               |            | 95                | 59-130                   | 4   | 30                 |
| 2-Butanone                                 | 92               |            | 113               | 70-130                   | 20  | 30                 |
| Vinyl acetate                              | 93               |            | 98                | 70-130                   | 5   | 30                 |



## Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 MARYLAND ST

**Project Number:** 0222-001-101

Lab Number: L1318716 Report Date: 10/03/13

LCSD LCS %Recovery RPD %Recovery RPD %Recovery Limits Limits Parameter Qual Qual Qual Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05 Batch: WG640411-1 WG640411-2 4-Methyl-2-pentanone 100 70-130 30 94 6 1,2,3-Trichloropropane 88 89 68-130 30 1 2-Hexanone 92 70-130 30 85 8 Bromochloromethane 30 107 104 70-130 3 2,2-Dichloropropane 104 104 70-130 0 30 1.2-Dibromoethane 70-130 30 91 93 2 1,3-Dichloropropane 93 90 69-130 3 30 1,1,1,2-Tetrachloroethane 95 93 70-130 2 30 Bromobenzene 70-130 30 94 91 3 n-Butylbenzene 90 70-130 30 92 2 sec-Butylbenzene 89 70-130 30 93 4 tert-Butylbenzene 94 90 70-130 4 30 o-Chlorotoluene 92 87 70-130 30 6 89 70-130 30 p-Chlorotoluene 93 4 1,2-Dibromo-3-chloropropane 68-130 30 76 78 3 Hexachlorobutadiene 94 67-130 30 96 2 Isopropylbenzene 94 89 70-130 5 30 p-Isopropyltoluene 94 91 70-130 3 30 Naphthalene 94 70-130 30 90 4 Acrylonitrile 70-130 30 104 104 0 Isopropyl Ether 106 102 66-130 30 4



## Lab Control Sample Analysis

Batch Quality Control

**Project Number:** 0222-001-101

Lab Number: L1318716 Report Date: 10/03/13

LCSD LCS %Recovery RPD %Recovery Limits RPD Limits %Recovery Parameter Qual Qual Qual Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05 Batch: WG640411-1 WG640411-2 tert-Butyl Alcohol 95 102 70-130 30 7 n-Propylbenzene 93 89 70-130 30 4 1.2.3-Trichlorobenzene 97 70-130 30 94 3 97 30 1,2,4-Trichlorobenzene 93 70-130 4 1,3,5-Trimethylbenzene 90 70-130 30 94 4 1,2,4-Trimethylbenzene 70-130 30 94 90 4 Methyl Acetate 103 105 51-146 2 30 Ethyl Acetate 100 102 70-130 2 30 Acrolein 88 70-130 30 82 7 Cyclohexane 103 59-142 30 91 12 1.4-Dioxane 114 104 65-136 9 30 Freon-113 104 90 50-139 14 30 1,4-Diethylbenzene 92 70-130 2 30 94 4-Ethyltoluene 90 70-130 30 94 4 1,2,4,5-Tetramethylbenzene 95 70-130 30 95 0 Tetrahydrofuran 108 66-130 30 94 14 Ethyl ether 99 99 67-130 0 30 trans-1,4-Dichloro-2-butene 85 90 70-130 6 30 Methyl cyclohexane 70-130 30 99 88 12 Ethyl-Tert-Butyl-Ether 103 70-130 30 101 2 Tertiary-Amyl Methyl Ether 99 98 70-130 30 1



**Project Name:** 295 MARYLAND ST

Project Number: 0222-001-101

|   | LCS              |            | LCSD            | c.        | %Recovery    |     |      | RPD    |  |
|---|------------------|------------|-----------------|-----------|--------------|-----|------|--------|--|
| Parameter                               | %Recovery        | Qual       | %Recovery       | Qual      | Limits       | RPD | Qual | Limits |  |
|   |                  |            |                 |           |              |     |      |        |  |
| Volatile Organics by GC/MS - Westboroug | h Lab Associated | sample(s): | 01-03.05 Batch: | WG640411- | 1 WG640411-2 |     |      |        |  |

|                       | LCS       |      | LCSD      |      | Acceptance |  |
|-----------------------|-----------|------|-----------|------|------------|--|
| Surrogate             | %Recovery | Qual | %Recovery | Qual | Criteria   |  |
| 1,2-Dichloroethane-d4 | 96        |      | 102       |      | 70-130     |  |
| Toluene-d8            | 93        |      | 92        |      | 70-130     |  |
| 4-Bromofluorobenzene  | 94        |      | 94        |      | 70-130     |  |
| Dibromofluoromethane  | 98        |      | 101       |      | 70-130     |  |



### Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 MARYLAND ST

**Project Number:** 0222-001-101

Lab Number: L1318716 Report Date: 10/03/13

LCSD LCS %Recovery RPD %Recovery RPD %Recovery Limits Limits Parameter Qual Qual Qual Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-07 Batch: WG640457-1 WG640457-2 Methylene chloride 102 100 70-130 2 30 1,1-Dichloroethane 103 100 70-130 3 30 Chloroform 104 100 70-130 30 4 Carbon tetrachloride 30 103 99 70-130 4 1,2-Dichloropropane 98 70-130 3 30 101 Dibromochloromethane 70-130 30 92 91 1 2-Chloroethylvinyl ether 92 94 70-130 2 30 1,1,2-Trichloroethane 92 90 70-130 2 30 Tetrachloroethene 70-130 30 97 93 4 Chlorobenzene 92 70-130 30 94 2 108 103 70-139 30 Trichlorofluoromethane 5 1,2-Dichloroethane 103 101 70-130 2 30 1,1,1-Trichloroethane 70-130 30 105 101 4 Bromodichloromethane 70-130 30 102 100 2 trans-1,3-Dichloropropene 70-130 30 88 88 0 cis-1,3-Dichloropropene 96 70-130 30 97 1 1,1-Dichloropropene 100 98 70-130 2 30 Bromoform 88 89 70-130 1 30 1.1.2.2-Tetrachloroethane 70-130 30 84 85 1 70-130 30 Benzene 102 97 5 Toluene 93 89 70-130 30 4



**Project Name:** 295 MARYLAND ST

**Project Number:** 0222-001-101

| Parameter                                  | LCS<br>%Recovery | Qual       |       | .CSD<br>ecovery | Qual       | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--|------------------|------------|-------|-----------------|------------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough L | ab Associated    | sample(s): | 06-07 | Batch:          | WG640457-1 | WG640457-2          |     |      |               |
| Ethylbenzene                               | 94               |            |       | 92              |            | 70-130              | 2   |      | 30            |
| Chloromethane                              | 89               |            |       | 83              |            | 52-130              | 7   |      | 30            |
| Bromomethane                               | 113              |            |       | 103             |            | 57-147              | 9   |      | 30            |
| Vinyl chloride                             | 92               |            |       | 88              |            | 67-130              | 4   |      | 30            |
| Chloroethane                               | 129              |            |       | 127             |            | 50-151              | 2   |      | 30            |
| 1,1-Dichloroethene                         | 99               |            |       | 96              |            | 65-135              | 3   |      | 30            |
| trans-1,2-Dichloroethene                   | 103              |            |       | 99              |            | 70-130              | 4   |      | 30            |
| Trichloroethene                            | 104              |            |       | 101             |            | 70-130              | 3   |      | 30            |
| 1,2-Dichlorobenzene                        | 91               |            |       | 90              |            | 70-130              | 1   |      | 30            |
| 1,3-Dichlorobenzene                        | 92               |            |       | 92              |            | 70-130              | 0   |      | 30            |
| 1,4-Dichlorobenzene                        | 92               |            |       | 91              |            | 70-130              | 1   |      | 30            |
| Methyl tert butyl ether                    | 99               |            |       | 98              |            | 66-130              | 1   |      | 30            |
| p/m-Xylene                                 | 96               |            |       | 93              |            | 70-130              | 3   |      | 30            |
| o-Xylene                                   | 96               |            |       | 94              |            | 70-130              | 2   |      | 30            |
| cis-1,2-Dichloroethene                     | 104              |            |       | 99              |            | 70-130              | 5   |      | 30            |
| Dibromomethane                             | 100              |            |       | 98              |            | 70-130              | 2   |      | 30            |
| Styrene                                    | 96               |            |       | 94              |            | 70-130              | 2   |      | 30            |
| Dichlorodifluoromethane                    | 70               |            |       | 68              |            | 30-146              | 3   |      | 30            |
| Acetone                                    | 152              | Q          |       | 165             | Q          | 54-140              | 8   |      | 30            |
| Carbon disulfide                           | 98               |            |       | 93              |            | 59-130              | 5   |      | 30            |
| 2-Butanone                                 | 128              |            |       | 137             | Q          | 70-130              | 7   |      | 30            |



**Project Name:** 295 MARYLAND ST

**Project Number:** 0222-001-101

| Parameter                               | LCS<br>%Recovery | Qual       | LCSD<br>%Recovery | Qual       | %Recovery<br>Limits | RPD | PD<br>nits |
|---|------------------|------------|-------------------|------------|---------------------|-----|------------|
| Volatile Organics by GC/MS - Westboroug | h Lab Associated | sample(s): | 06-07 Batch:      | WG640457-1 | WG640457-2          |     |            |
| Vinyl acetate                           | 90               |            | 91                |            | 70-130              | 1   | 30         |
| 4-Methyl-2-pentanone                    | 96               |            | 96                |            | 70-130              | 0   | 30         |
| 1,2,3-Trichloropropane                  | 84               |            | 84                |            | 68-130              | 0   | 30         |
| 2-Hexanone                              | 107              |            | 111               |            | 70-130              | 4   | 30         |
| Bromochloromethane                      | 106              |            | 103               |            | 70-130              | 3   | 30         |
| 2,2-Dichloropropane                     | 106              |            | 102               |            | 70-130              | 4   | 30         |
| 1,2-Dibromoethane                       | 91               |            | 92                |            | 70-130              | 1   | 30         |
| 1,3-Dichloropropane                     | 89               |            | 89                |            | 69-130              | 0   | 30         |
| 1,1,1,2-Tetrachloroethane               | 94               |            | 92                |            | 70-130              | 2   | 30         |
| Bromobenzene                            | 93               |            | 91                |            | 70-130              | 2   | 30         |
| n-Butylbenzene                          | 94               |            | 91                |            | 70-130              | 3   | 30         |
| sec-Butylbenzene                        | 92               |            | 90                |            | 70-130              | 2   | 30         |
| tert-Butylbenzene                       | 93               |            | 91                |            | 70-130              | 2   | 30         |
| o-Chlorotoluene                         | 89               |            | 90                |            | 70-130              | 1   | 30         |
| p-Chlorotoluene                         | 91               |            | 90                |            | 70-130              | 1   | 30         |
| 1,2-Dibromo-3-chloropropane             | 79               |            | 80                |            | 68-130              | 1   | 30         |
| Hexachlorobutadiene                     | 96               |            | 92                |            | 67-130              | 4   | 30         |
| Isopropylbenzene                        | 93               |            | 91                |            | 70-130              | 2   | 30         |
| p-Isopropyltoluene                      | 94               |            | 92                |            | 70-130              | 2   | 30         |
| Naphthalene                             | 89               |            | 89                |            | 70-130              | 0   | 30         |
| Acrylonitrile                           | 101              |            | 99                |            | 70-130              | 2   | 30         |



**Project Name:** 295 MARYLAND ST

Project Number: 0222-001-101

| Parameter                                | LCS<br>%Recovery | Qual       | LCSD<br>%Recovery | ' Qual     | %Recovery<br>Limits | RPD | RF<br>Qual Lin |   |
|--|------------------|------------|-------------------|------------|---------------------|-----|----------------|---|
| Volatile Organics by GC/MS - Westborough | Lab Associated   | sample(s): | 06-07 Batch:      | WG640457-1 | WG640457-2          |     |                |   |
| Isopropyl Ether                          | 103              |            | 100               |            | 66-130              | 3   | з              | 0 |
| tert-Butyl Alcohol                       | 90               |            | 90                |            | 70-130              | 0   | З              | 0 |
| n-Propylbenzene                          | 92               |            | 90                |            | 70-130              | 2   | З              | 0 |
| 1,2,3-Trichlorobenzene                   | 95               |            | 95                |            | 70-130              | 0   | з              | 0 |
| 1,2,4-Trichlorobenzene                   | 97               |            | 95                |            | 70-130              | 2   | з              | 0 |
| 1,3,5-Trimethylbenzene                   | 93               |            | 91                |            | 70-130              | 2   | 3              | 0 |
| 1,2,4-Trimethylbenzene                   | 93               |            | 91                |            | 70-130              | 2   | 3              | 0 |
| Methyl Acetate                           | 96               |            | 96                |            | 51-146              | 0   | з              | 0 |
| Ethyl Acetate                            | 96               |            | 96                |            | 70-130              | 0   | 3              | 0 |
| Acrolein                                 | 88               |            | 86                |            | 70-130              | 2   | 3              | 0 |
| Cyclohexane                              | 97               |            | 92                |            | 59-142              | 5   | 3              | 0 |
| 1,4-Dioxane                              | 96               |            | 99                |            | 65-136              | 3   | З              | 0 |
| Freon-113                                | 95               |            | 92                |            | 50-139              | 3   | З              | 0 |
| 1,4-Diethylbenzene                       | 95               |            | 92                |            | 70-130              | 3   | З              | 0 |
| 4-Ethyltoluene                           | 93               |            | 91                |            | 70-130              | 2   | З              | 0 |
| 1,2,4,5-Tetramethylbenzene               | 96               |            | 94                |            | 70-130              | 2   | З              | 0 |
| Tetrahydrofuran                          | 99               |            | 89                |            | 66-130              | 11  | 3              | 0 |
| Ethyl ether                              | 99               |            | 96                |            | 67-130              | 3   | 3              | 0 |
| trans-1,4-Dichloro-2-butene              | 82               |            | 85                |            | 70-130              | 4   | 3              | 0 |
| Methyl cyclohexane                       | 93               |            | 90                |            | 70-130              | 3   | 3              | 0 |
| Ethyl-Tert-Butyl-Ether                   | 102              |            | 99                |            | 70-130              | 3   | 3              | 0 |



Project Name: 295 MARYLAND ST

Lab Number: L1318716

**Project Number:** 0222-001-101

**Report Date:** 10/03/13

| Parameter                                  | LCS<br>%Recovery | Qual       |       | LCSD<br>ecovery | Qual       | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |  |
|--|------------------|------------|-------|-----------------|------------|---------------------|-----|------|---------------|--|
| Volatile Organics by GC/MS - Westborough I | ab Associated    | sample(s): | 06-07 | Batch:          | WG640457-1 | WG640457-2          |     |      |               |  |
| Tertiary-Amyl Methyl Ether                 | 98               |            |       | 99              |            | 70-130              | 1   |      | 30            |  |

|                       | LCS       |      | LCSD      |      | Acceptance |  |
|-----------------------|-----------|------|-----------|------|------------|--|
| Surrogate             | %Recovery | Qual | %Recovery | Qual | Criteria   |  |
|                       | 07        |      | 07        |      | 70.400     |  |
| 1,2-Dichloroethane-d4 | 97        |      | 97        |      | 70-130     |  |
| Toluene-d8            | 92        |      | 92        |      | 70-130     |  |
| 4-Bromofluorobenzene  | 97        |      | 97        |      | 70-130     |  |
| Dibromofluoromethane  | 101       |      | 100       |      | 70-130     |  |



295 MARYLAND ST **Project Name:** 

**Project Number:** 0222-001-101

| Parameter                                  | LCS<br>%Recovery | Qual         | LCSD<br>%Recovery | Qual     | %Recovery<br>Limits | RPD | RPD<br>Qual Limits |  |
|--|------------------|--------------|-------------------|----------|---------------------|-----|--------------------|--|
| TCLP Volatiles by EPA 1311 - Westborough I | Lab Associated   | sample(s): 0 | 3 Batch: WG       | 640659-1 | WG640659-2          |     |                    |  |
| Chloroform                                 | 92               |              | 87                |          | 70-130              | 6   | 20                 |  |
| Carbon tetrachloride                       | 96               |              | 91                |          | 63-132              | 5   | 20                 |  |
| Tetrachloroethene                          | 93               |              | 87                |          | 70-130              | 7   | 20                 |  |
| Chlorobenzene                              | 97               |              | 92                |          | 75-130              | 5   | 25                 |  |
| 1,2-Dichloroethane                         | 94               |              | 93                |          | 70-130              | 1   | 20                 |  |
| Benzene                                    | 96               |              | 91                |          | 70-130              | 5   | 25                 |  |
| Vinyl chloride                             | 99               |              | 101               |          | 55-140              | 2   | 20                 |  |
| 1,1-Dichloroethene                         | 92               |              | 88                |          | 61-145              | 4   | 25                 |  |
| Trichloroethene                            | 96               |              | 93                |          | 70-130              | 3   | 25                 |  |
| 1,4-Dichlorobenzene                        | 96               |              | 93                |          | 70-130              | 3   | 20                 |  |
| 2-Butanone                                 | 71               |              | 82                |          | 63-138              | 14  | 20                 |  |

|                       | LCS       | LCSD |           | Acceptance |          |  |
|-----------------------|-----------|------|-----------|------------|----------|--|
| Surrogate             | %Recovery | Qual | %Recovery | Qual       | Criteria |  |
|                       |           |      |           |            |          |  |
| 1,2-Dichloroethane-d4 | 96        |      | 98        |            | 70-130   |  |
| Toluene-d8            | 91        |      | 93        |            | 70-130   |  |
| 4-Bromofluorobenzene  | 100       |      | 101       |            | 70-130   |  |
| Dibromofluoromethane  | 97        |      | 100       |            | 70-130   |  |



### Lab Control Sample Analysis Batch Quality Control

295 MARYLAND ST **Project Name:** 

**Project Number:** 0222-001-101

Lab Number: L1318716 Report Date: 10/03/13

| Parameter                                | LCS<br>%Recovery | Qual          | LCSD<br>%Recovery | Qual     | %Recovery<br>Limits | RPD | RPD<br>Qual Limits |  |
|--|------------------|---------------|-------------------|----------|---------------------|-----|--------------------|--|
| TCLP Volatiles by EPA 1311 - Westborough | Lab Associated   | sample(s): 05 | 5 Batch: WG       | 640867-1 | WG640867-2          |     |                    |  |
| Chloroform                               | 103              |               | 103               |          | 70-130              | 0   | 20                 |  |
| Carbon tetrachloride                     | 115              |               | 122               |          | 63-132              | 6   | 20                 |  |
| Tetrachloroethene                        | 103              |               | 102               |          | 70-130              | 1   | 20                 |  |
| Chlorobenzene                            | 93               |               | 92                |          | 75-130              | 1   | 25                 |  |
| 1,2-Dichloroethane                       | 111              |               | 111               |          | 70-130              | 0   | 20                 |  |
| Benzene                                  | 94               |               | 92                |          | 70-130              | 2   | 25                 |  |
| Vinyl chloride                           | 108              |               | 107               |          | 55-140              | 1   | 20                 |  |
| 1,1-Dichloroethene                       | 100              |               | 99                |          | 61-145              | 1   | 25                 |  |
| Trichloroethene                          | 99               |               | 99                |          | 70-130              | 0   | 25                 |  |
| 1,4-Dichlorobenzene                      | 89               |               | 90                |          | 70-130              | 1   | 20                 |  |
| 2-Butanone                               | 88               |               | 94                |          | 63-138              | 7   | 20                 |  |

|                       | LCS       |      | LCSD      |      | Acceptance |  |
|-----------------------|-----------|------|-----------|------|------------|--|
| Surrogate             | %Recovery | Qual | %Recovery | Qual | Criteria   |  |
|                       | 400       |      | 400       |      | 70.400     |  |
| 1,2-Dichloroethane-d4 | 122       |      | 120       |      | 70-130     |  |
| Toluene-d8            | 99        |      | 97        |      | 70-130     |  |
| 4-Bromofluorobenzene  | 93        |      | 93        |      | 70-130     |  |
| Dibromofluoromethane  | 111       |      | 110       |      | 70-130     |  |



# SEMIVOLATILES



|                    |                 |                | Serial_No:         | 10031311:13    |
|--------------------|-----------------|----------------|--------------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:        | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:       | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                    |                |
| Lab ID:            | L1318716-01     |                | Date Collected:    | 09/18/13 16:30 |
| Client ID:         | TP-4-13 (0-3')  |                | Date Received:     | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:        | Not Specified  |
| Matrix:            | Soil            |                | Extraction Method: | EPA 3546       |
| Analytical Method: | 1,8270D         |                | Extraction Date:   | 09/24/13 18:30 |
| Analytical Date:   | 09/30/13 21:08  |                |                    |                |
| Analyst:           | PS              |                |                    |                |
| Percent Solids:    | 86%             |                |                    |                |

| Parameter                          | Result          | Qualifier | Units | RL  | MDL | Dilution Factor |
|------------------------------------|-----------------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - V | Vestborough Lab |           |       |     |     |                 |
| Acenaphthene                       | ND              |           | ug/kg | 150 | 39. | 1               |
| Hexachlorobenzene                  | ND              |           | ug/kg | 110 | 35. | 1               |
| Bis(2-chloroethyl)ether            | ND              |           | ug/kg | 170 | 53. | 1               |
| 2-Chloronaphthalene                | ND              |           | ug/kg | 190 | 62. | 1               |
| 3,3'-Dichlorobenzidine             | ND              |           | ug/kg | 190 | 51. | 1               |
| 2,4-Dinitrotoluene                 | ND              |           | ug/kg | 190 | 41. | 1               |
| 2,6-Dinitrotoluene                 | ND              |           | ug/kg | 190 | 49. | 1               |
| Fluoranthene                       | 640             |           | ug/kg | 110 | 35. | 1               |
| 4-Chlorophenyl phenyl ether        | ND              |           | ug/kg | 190 | 58. | 1               |
| 4-Bromophenyl phenyl ether         | ND              |           | ug/kg | 190 | 44. | 1               |
| Bis(2-chloroisopropyl)ether        | ND              |           | ug/kg | 230 | 67. | 1               |
| Bis(2-chloroethoxy)methane         | ND              |           | ug/kg | 200 | 58. | 1               |
| Hexachlorobutadiene                | ND              |           | ug/kg | 190 | 54. | 1               |
| Hexachlorocyclopentadiene          | ND              |           | ug/kg | 550 | 120 | 1               |
| Hexachloroethane                   | ND              |           | ug/kg | 150 | 35. | 1               |
| Isophorone                         | ND              |           | ug/kg | 170 | 51. | 1               |
| Naphthalene                        | ND              |           | ug/kg | 190 | 63. | 1               |
| Nitrobenzene                       | ND              |           | ug/kg | 170 | 45. | 1               |
| NDPA/DPA                           | ND              |           | ug/kg | 150 | 40. | 1               |
| n-Nitrosodi-n-propylamine          | ND              |           | ug/kg | 190 | 57. | 1               |
| Bis(2-ethylhexyl)phthalate         | ND              |           | ug/kg | 190 | 50. | 1               |
| Butyl benzyl phthalate             | ND              |           | ug/kg | 190 | 37. | 1               |
| Di-n-butylphthalate                | ND              |           | ug/kg | 190 | 37. | 1               |
| Di-n-octylphthalate                | ND              |           | ug/kg | 190 | 47. | 1               |
| Diethyl phthalate                  | ND              |           | ug/kg | 190 | 40. | 1               |
| Dimethyl phthalate                 | ND              |           | ug/kg | 190 | 48. | 1               |
| Benzo(a)anthracene                 | 320             |           | ug/kg | 110 | 37. | 1               |
| Benzo(a)pyrene                     | 300             |           | ug/kg | 150 | 46. | 1               |
| Benzo(b)fluoranthene               | 350             |           | ug/kg | 110 | 38. | 1               |
| Benzo(k)fluoranthene               | 180             |           | ug/kg | 110 | 36. | 1               |
| Chrysene                           | 330             |           | ug/kg | 110 | 37. | 1               |
|                                    |                 |           |       |     |     |                 |



|  |  |        |             | Serial_No:10031311:13 |  |       |   |  |
|--|--|--------|-------------|-----------------------|--|-------|---|--|
| Project Name:                                    | 295 MARYLAND ST                                  |        |             |                       | Lab Nu   | mber: | L1318716                                    |  |
| Project Number:                                  | 0222-001-101                                     |        |             |                       | Report   | Date: | 10/03/13                                    |  |
| -  |  | SAMF   | PLE RESULTS | 6                     | •  |       |   |  |
| Lab ID:<br>Client ID:<br>Sample Location:        | L1318716-01<br>TP-4-13 (0-3')<br>295 MARYLAND ST |        |             |                       | Date Collected:<br>Date Received:<br>Field Prep: |       | 09/18/13 16:30<br>09/20/13<br>Not Specified |  |
| Parameter  |  | Result | Qualifier   | Units                 | RL   | MDL   | Dilution Factor                             |  |
| Semivolatile Organics by GC/MS - Westborough Lab |  |        |             |                       |  |       |   |  |
| Acenaphthylene                                   |  | ND     |             | ug/kg                 | 150  | 36.   | 1   |  |
| Anthracene                                       |  | 80     | J           | ug/kg                 | 110  | 32.   | 1   |  |
| Benzo(ghi)perylene                               |  | 180    |             | ug/kg                 | 150  | 40.   | 1   |  |
| Fluorene   |  | ND     |             | ug/kg                 | 190  | 54.   | 1   |  |
| Phenanthrene                                     |  | 310    |             | ug/kg                 | 110  | 37.   | 1   |  |
| Dibenzo(a,h)anthracene                           |  | 50     | J           | ug/kg                 | 110  | 37.   | 1   |  |
| Indeno(1,2,3-cd)pyrene                           |  | 190    |             | ug/kg                 | 150  | 42.   | 1   |  |
| Pyrene   |  | 530    |             | ug/kg                 | 110  | 37.   | 1   |  |
| Biphenyl   |  | ND     |             | ug/kg                 | 430  | 63.   | 1   |  |
| 4-Chloroaniline                                  |  | ND     |             | ug/kg                 | 190  | 50.   | 1   |  |
| 2-Nitroaniline                                   |  | ND     |             | ug/kg                 | 190  | 54.   | 1   |  |
| 3-Nitroaniline                                   |  | ND     |             | ug/kg                 | 190  | 52.   | 1   |  |
| 4-Nitroaniline                                   |  | ND     |             | ug/kg                 | 190  | 51.   | 1   |  |
| Dibenzofuran                                     |  | ND     |             | ug/kg                 | 190  | 64.   | 1   |  |
| 2-Methylnaphthalene                              |  | ND     |             | ug/kg                 | 230  | 61.   | 1   |  |
| 1,2,4,5-Tetrachlorobenzer                        | ne   | ND     |             | ug/kg                 | 190  | 59.   | 1   |  |
| Acetophenone                                     |  | ND     |             | ug/kg                 | 190  | 59.   | 1   |  |
| Carbazole  |  | 43     | J           | ug/kg                 | 190  | 41.   | 1   |  |
| Benzaldehyde                                     |  | ND     |             | ug/kg                 | 250  | 77.   | 1   |  |
| Caprolactam                                      |  | ND     |             | ug/kg                 | 190  | 52.   | 1   |  |
| Atrazine   |  | ND     |             | ug/kg                 | 150  | 43.   | 1   |  |

|                  |            |           | Acceptance |  |
|------------------|------------|-----------|------------|--|
| Surrogate        | % Recovery | Qualifier | Criteria   |  |
| Nitrobenzene-d5  | 66         |           | 23-120     |  |
| 2-Fluorobiphenyl | 68         |           | 30-120     |  |
| 4-Terphenyl-d14  | 88         |           | 18-120     |  |



|                    |                 |                | Serial_No:         | 10031311:13    |
|--------------------|-----------------|----------------|--------------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:        | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:       | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                    |                |
| Lab ID:            | L1318716-02     |                | Date Collected:    | 09/18/13 11:50 |
| Client ID:         | TP-5-13 (0-3')  |                | Date Received:     | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:        | Not Specified  |
| Matrix:            | Soil            |                | Extraction Method: | EPA 3546       |
| Analytical Method: | 1,8270D         |                | Extraction Date:   | 09/24/13 18:30 |
| Analytical Date:   | 09/30/13 21:35  |                |                    |                |
| Analyst:           | PS              |                |                    |                |
| Percent Solids:    | 86%             |                |                    |                |

| Parameter  | Result | Qualifier | Units | RL  | MDL | Dilution Factor |  |
|--|--------|-----------|-------|-----|-----|-----------------|--|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |  |
| Acenaphthene                                     | ND     |           | ug/kg | 150 | 39. | 1               |  |
| Hexachlorobenzene                                | ND     |           | ug/kg | 110 | 35. | 1               |  |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 170 | 53. | 1               |  |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 190 | 62. | 1               |  |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 190 | 51. | 1               |  |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 41. | 1               |  |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 49. | 1               |  |
| Fluoranthene                                     | 280    |           | ug/kg | 110 | 35. | 1               |  |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 190 | 58. | 1               |  |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 190 | 44. | 1               |  |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 230 | 67. | 1               |  |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 200 | 58. | 1               |  |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 190 | 54. | 1               |  |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 550 | 120 | 1               |  |
| Hexachloroethane                                 | ND     |           | ug/kg | 150 | 35. | 1               |  |
| Isophorone                                       | ND     |           | ug/kg | 170 | 51. | 1               |  |
| Naphthalene                                      | ND     |           | ug/kg | 190 | 63. | 1               |  |
| Nitrobenzene                                     | ND     |           | ug/kg | 170 | 45. | 1               |  |
| NDPA/DPA   | ND     |           | ug/kg | 150 | 40. | 1               |  |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 190 | 57. | 1               |  |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 190 | 50. | 1               |  |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 190 | 37. | 1               |  |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 190 | 37. | 1               |  |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 190 | 47. | 1               |  |
| Diethyl phthalate                                | ND     |           | ug/kg | 190 | 40. | 1               |  |
| Dimethyl phthalate                               | ND     |           | ug/kg | 190 | 48. | 1               |  |
| Benzo(a)anthracene                               | 240    |           | ug/kg | 110 | 37. | 1               |  |
| Benzo(a)pyrene                                   | 260    |           | ug/kg | 150 | 46. | 1               |  |
| Benzo(b)fluoranthene                             | 270    |           | ug/kg | 110 | 38. | 1               |  |
| Benzo(k)fluoranthene                             | 130    |           | ug/kg | 110 | 36. | 1               |  |
| Chrysene   | 210    |           | ug/kg | 110 | 37. | 1               |  |
|  |        |           |       |     |     |                 |  |



|  |  |        |           |       | Ş  | Serial_No: | :10031311:13                                |
|--|--|--------|-----------|-------|--|------------|---|
| Project Name:                                    | 295 MARYLAND ST                                  |        |           |       | Lab Nu   | mber:      | L1318716                                    |
| Project Number:                                  | 0222-001-101                                     |        |           |       | Report   | Date:      | 10/03/13                                    |
| -  |  | SAMF   |           | S     |  |            |   |
| Lab ID:<br>Client ID:<br>Sample Location:        | L1318716-02<br>TP-5-13 (0-3')<br>295 MARYLAND ST |        |           |       | Date Collected:<br>Date Received:<br>Field Prep: |            | 09/18/13 11:50<br>09/20/13<br>Not Specified |
| Parameter  |  | Result | Qualifier | Units | RL   | MDL        | Dilution Factor                             |
| Semivolatile Organics by GC/MS - Westborough Lab |  |        |           |       |  |            |   |
| Acenaphthylene                                   |  | ND     |           | ug/kg | 150  | 36.        | 1   |
| Anthracene                                       |  | 58     | J         | ug/kg | 110  | 32.        | 1   |
| Benzo(ghi)perylene                               |  | 170    |           | ug/kg | 150  | 40.        | 1   |
| Fluorene   |  | ND     |           | ug/kg | 190  | 54.        | 1   |
| Phenanthrene                                     |  | 220    |           | ug/kg | 110  | 37.        | 1   |
| Dibenzo(a,h)anthracene                           |  | 55     | J         | ug/kg | 110  | 37.        | 1   |
| Indeno(1,2,3-cd)pyrene                           |  | 180    |           | ug/kg | 150  | 42.        | 1   |
| Pyrene   |  | 260    |           | ug/kg | 110  | 37.        | 1   |
| Biphenyl   |  | ND     |           | ug/kg | 430  | 63.        | 1   |
| 4-Chloroaniline                                  |  | ND     |           | ug/kg | 190  | 50.        | 1   |
| 2-Nitroaniline                                   |  | ND     |           | ug/kg | 190  | 54.        | 1   |
| 3-Nitroaniline                                   |  | ND     |           | ug/kg | 190  | 52.        | 1   |
| 4-Nitroaniline                                   |  | ND     |           | ug/kg | 190  | 51.        | 1   |
| Dibenzofuran                                     |  | ND     |           | ug/kg | 190  | 64.        | 1   |
| 2-Methylnaphthalene                              |  | ND     |           | ug/kg | 230  | 61.        | 1   |
| 1,2,4,5-Tetrachlorobenze                         | ne   | ND     |           | ug/kg | 190  | 59.        | 1   |
| Acetophenone                                     |  | ND     |           | ug/kg | 190  | 59.        | 1   |
| Carbazole  |  | ND     |           | ug/kg | 190  | 41.        | 1   |
| Benzaldehyde                                     |  | ND     |           | ug/kg | 250  | 77.        | 1   |
| Caprolactam                                      |  | ND     |           | ug/kg | 190  | 52.        | 1   |
| Atrazine   |  | ND     |           | ug/kg | 150  | 43.        | 1   |
|  |  |        |           |       |  |            |   |

| Surrogate        | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|------------------|------------|-----------|------------------------|--|
| Nitrobenzene-d5  | 73         |           | 23-120                 |  |
| 2-Fluorobiphenyl | 76         |           | 30-120                 |  |
| 4-Terphenyl-d14  | 87         |           | 18-120                 |  |



|                    |                 |                | Serial_No:         | 10031311:13    |
|--------------------|-----------------|----------------|--------------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:        | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:       | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                    |                |
| Lab ID:            | L1318716-03     |                | Date Collected:    | 09/18/13 15:30 |
| Client ID:         | TP-6-13 (7-9')  |                | Date Received:     | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:        | Not Specified  |
| Matrix:            | Soil            |                | Extraction Method: | EPA 3546       |
| Analytical Method: | 1,8270D         |                | Extraction Date:   | 09/24/13 18:30 |
| Analytical Date:   | 09/30/13 22:03  |                |                    |                |
| Analyst:           | PS              |                |                    |                |
| Percent Solids:    | 86%             |                |                    |                |

| Parameter  | Result | Qualifier | Units | RL  | MDL | Dilution Factor |  |  |
|--|--------|-----------|-------|-----|-----|-----------------|--|--|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |  |  |
| Acenaphthene                                     | ND     |           | ug/kg | 150 | 39. | 1               |  |  |
| Hexachlorobenzene                                | ND     |           | ug/kg | 110 | 35. | 1               |  |  |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 170 | 53. | 1               |  |  |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 190 | 62. | 1               |  |  |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 190 | 50. | 1               |  |  |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 41. | 1               |  |  |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 49. | 1               |  |  |
| Fluoranthene                                     | 37     | J         | ug/kg | 110 | 35. | 1               |  |  |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 190 | 58. | 1               |  |  |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 190 | 44. | 1               |  |  |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 230 | 67. | 1               |  |  |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 200 | 57. | 1               |  |  |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 190 | 54. | 1               |  |  |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 540 | 120 | 1               |  |  |
| Hexachloroethane                                 | ND     |           | ug/kg | 150 | 34. | 1               |  |  |
| Isophorone                                       | ND     |           | ug/kg | 170 | 50. | 1               |  |  |
| Naphthalene                                      | ND     |           | ug/kg | 190 | 63. | 1               |  |  |
| Nitrobenzene                                     | ND     |           | ug/kg | 170 | 45. | 1               |  |  |
| NDPA/DPA   | ND     |           | ug/kg | 150 | 40. | 1               |  |  |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 190 | 56. | 1               |  |  |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 190 | 50. | 1               |  |  |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 190 | 37. | 1               |  |  |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 190 | 37. | 1               |  |  |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 190 | 47. | 1               |  |  |
| Diethyl phthalate                                | ND     |           | ug/kg | 190 | 40. | 1               |  |  |
| Dimethyl phthalate                               | ND     |           | ug/kg | 190 | 48. | 1               |  |  |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 110 | 37. | 1               |  |  |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 150 | 46. | 1               |  |  |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 110 | 38. | 1               |  |  |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 110 | 36. | 1               |  |  |
| Chrysene   | ND     |           | ug/kg | 110 | 37. | 1               |  |  |
|  |        |           |       |     |     |                 |  |  |



| Project Number:0222-001-101Report Date:10/03/13Lab ID:L1318716-03Date Collected:09/18/13 15:30Client ID:TP-6-13 (7-9')Date Received:09/20/13Sample Location:295 MARYLAND STField Prep:Not SpecifiedParameterResultQualifierUnitsRLMDLDilution FactorSemivolatile Organics by GC/MS - Westborough LabVug/kg15036.1AcenaphthyleneNDug/kg11032.1AnthraceneNDug/kg15039.1FluoreneNDug/kg10037.1PhenanthreneNDug/kg11037.1Diberzo(a,h)anthraceneNDug/kg11037.1  |                          |                          | Serial_No:10031311:13 |           |       |          |        |                 |
|--|--------------------------|--------------------------|-----------------------|-----------|-------|----------|--------|-----------------|
| SAMPLE RESULTS       Date Collected: 09/18/13 15:30 Date Received: 09/20/13 Field Prep:         Lab ID:       TP-6-13 (7-9)       Sample Location: 295 MARYLAND ST       Date Received: 09/20/13 Field Prep:       Not Specified         Parameter       Result       Qualifier       Units       RL       MD       Ditutor Factor         Parameter       Result       Qualifier       Units       RL       MD       Ditutor Factor         Acenaphthylene       ND       ug/kg       150       36.       1         Anthracene       ND       ug/kg       150       36.       1         Pleoanthrene       ND       ug/kg       150       36.       1         Dibenzo(ah)perylene       ND       ug/kg       110       37.       1         Pleoanthrene       ND       ug/kg       110       37.       1         Dibenzo(ah)anthracene       ND       ug/kg       110       37.       1         Pyrene       ND       ug/kg       130       33.       1         Actoraniline       ND       ug/kg       130       31.       1         Pyrene       ND       ug/kg       190       54.       1         ND       ug/kg                            | Project Name:            | 295 MARYLAND ST          |                       |           |       | Lab Nu   | mber:  | L1318716        |
| SAMPLE RESULTS       Date Collected: 09/18/13 15:30 Date Received: 09/20/13 Field Prep:         Lab ID:       TP-6-13 (7-9)       Sample Location: 295 MARYLAND ST       Date Received: 09/20/13 Field Prep:       Not Specified         Parameter       Result       Qualifier       Units       RL       MD       Ditutor Factor         Parameter       Result       Qualifier       Units       RL       MD       Ditutor Factor         Acenaphthylene       ND       ug/kg       150       36.       1         Anthracene       ND       ug/kg       150       36.       1         Pleoanthrene       ND       ug/kg       150       36.       1         Dibenzo(ah)perylene       ND       ug/kg       110       37.       1         Pleoanthrene       ND       ug/kg       110       37.       1         Dibenzo(ah)anthracene       ND       ug/kg       110       37.       1         Pyrene       ND       ug/kg       130       33.       1         Actoraniline       ND       ug/kg       130       31.       1         Pyrene       ND       ug/kg       190       54.       1         ND       ug/kg                            | Project Number:          | 0222-001-101             |                       |           |       | Report   | Date:  | 10/03/13        |
| Client ID:<br>Sample Location:TP-6-13 (7-9')<br>295 MARYLAND STDate Receiver:<br>Field Prey:09/20/13<br>Not SpecifiedParameterResultQualifierUnitsRLMDLDilution FactorSemivolatile Organics by GC/MS - WestboroughNDug/kg15036.1AnthraceneNDug/kg15039.1Enco(phi)peryleneNDug/kg10037.1FluoreneNDug/kg11037.1Dibenzo(phi)peryleneNDug/kg11037.1Dibenzo(phi)peryleneNDug/kg11037.1PrenamthreneNDug/kg11037.1Dibenzo(phi)peryleneNDug/kg13042.1PreneNDug/kg13050.1Bipheny1NDug/kg13050.1ActhoreanilineNDug/kg19054.1AltroanilineNDug/kg19054.1AltroanilineNDug/kg19054.1AltroanilineNDug/kg19054.1AltroanilineNDug/kg19054.1AltroanilineNDug/kg19054.1AltroanilineNDug/kg19054.1AltroanilineNDug/kg19054.1AltroanilineNDug/kg19054.1Altroa   | -                        |                          | SAMP                  |           | S     |          |        |                 |
| Semivolatile Organics by GC/MS - Westborough Lab           Acenaphtylene         ND         ug/kg         150         36.         1           Anthracene         ND         ug/kg         110         32.         1           Benzoldhi)perylene         ND         ug/kg         150         39.         1           Fluorene         ND         ug/kg         190         54.         1           Dibenzolahjanthracene         ND         ug/kg         110         37.         1           Dibenzolahjanthracene         ND         ug/kg         150         42.         1           Pyrene         ND         ug/kg         110         37.         1           Biphenyl         ND         ug/kg         190         54.         1           -Yrene         ND         ug/kg         190         50.         1           -Nitroaniline         ND         ug/kg         190         51.         1           -Nitroaniline         ND         ug/kg         190         51.         1           -Nitroaniline         ND         ug/kg         190         51.         1           -ND         ug/kg         190         53.         1     |                          | TP-6-13 (7-9')           |                       |           |       | Date Rec | eived: | 09/20/13        |
| Acenaphtylene         ND         ug/kg         150         36.         1           Anthracene         ND         ug/kg         110         32.         1           Benzolghi)perylene         ND         ug/kg         150         39.         1           Fluorene         ND         ug/kg         190         54.         1           Phenanthrene         ND         ug/kg         110         37.         1           Dibenzo(a,h)anthracene         ND         ug/kg         110         37.         1           Pyrene         ND         ug/kg         110         37.         1           Biphenyl         ND         ug/kg         110         37.         1           Siphenyl         ND         ug/kg         190         50.         1           4-Chlorcaniline         ND         ug/kg         190         50.         1           2-Nitroaniline         ND         ug/kg         190         51.         1           2-Methylnaphthalene         ND         ug/kg         190         53.         1           1.2.4.5-Tetrachlorobenzene         ND         ug/kg         190         59.         1           Actophenone     | Parameter                |                          | Result                | Qualifier | Units | RL       | MDL    | Dilution Factor |
| Anthracene         ND         ug/kg         110         32.         1           Benzo(ghi)perylene         ND         ug/kg         150         39.         1           Fluorene         ND         ug/kg         190         54.         1           Phenanthrene         ND         ug/kg         110         37.         1           Dibenzo(a,h)anthracene         ND         ug/kg         110         37.         1           Indeno(1,2,3-cd)pyrene         ND         ug/kg         110         37.         1           Pyrene         ND         ug/kg         110         37.         1           Biphenyl         ND         ug/kg         110         37.         1           4-Chioroaniline         ND         ug/kg         190         50.         1           2-Nitroaniline         ND         ug/kg         190         54.         1           3-Nitroaniline         ND         ug/kg         190         51.         1           1/2.4,5-Tetrachlorobenzene         ND         ug/kg         190         53.         1           1.2.4,5-Tetrachlorobenzene         ND         ug/kg         190         59.         1     | Semivolatile Organ       | ics by GC/MS - Westborou | ugh Lab               |           |       |          |        |                 |
| Benzo(ghi)perylene         ND         ug/kg         150         39.         1           Fluorene         ND         ug/kg         190         54.         1           Phenanthrene         ND         ug/kg         110         37.         1           Dibenzo(a,h)anthracene         ND         ug/kg         110         37.         1           Indeno(1,2,3-od)pyrene         ND         ug/kg         150         42.         1           Pyrene         ND         ug/kg         110         37.         1           Biphenyl         ND         ug/kg         430         63.         1           4-Chioraniline         ND         ug/kg         190         50.         1           2-Nitroaniline         ND         ug/kg         190         51.         1           3-Nitroaniline         ND         ug/kg         190         51.         1           2-Methylnaphthalene         ND         ug/kg         190         63.         1           1.2,4,5-Tetrachlorobenzene         ND         ug/kg         190         59.         1           Acetophenone         ND         ug/kg         190         59.         1           | Acenaphthylene           |                          | ND                    |           | ug/kg | 150      | 36.    | 1               |
| Fluorene         ND         ug/kg         190         54.         1           Phenanthrene         ND         ug/kg         110         37.         1           Dibenzo(a,h)anthracene         ND         ug/kg         110         37.         1           Indeno(1,2,3-cd)pyrene         ND         ug/kg         150         42.         1           Pyrene         ND         ug/kg         110         37.         1           Biphenyl         ND         ug/kg         430         63.         1           4-Choroaniline         ND         ug/kg         190         50.         1           2-Nitroaniline         ND         ug/kg         190         54.         1           3-Nitroaniline         ND         ug/kg         190         51.         1           2-Nitroaniline         ND         ug/kg         190         51.         1           3-Nitroaniline         ND         ug/kg         190         53.         1           2-Methylnaphthalene         ND         ug/kg         190         59.         1           1,2,4,5-Tetrachlorobenzene         ND         ug/kg         190         59.         1           < | Anthracene               |                          | ND                    |           | ug/kg | 110      | 32.    | 1               |
| Phenanthrene         ND         ug/kg         110         37.         1           Dibenzo(a,h)anthracene         ND         ug/kg         110         37.         1           Indeno(1,2,3-cd)pyrene         ND         ug/kg         150         42.         1           Pyrene         ND         ug/kg         110         37.         1           Biphenyl         ND         ug/kg         100         37.         1           4-Chloroaniline         ND         ug/kg         190         50.         1           2-Nitroaniline         ND         ug/kg         190         54.         1           3-Nitroaniline         ND         ug/kg         190         51.         1           4-Nitroaniline         ND         ug/kg         190         51.         1           2-Methylnaphthalene         ND         ug/kg         190         63.         1           2-Methylnaphthalene         ND         ug/kg         190         59.         1           1,2,4,5-Tetrachlorobenzene         ND         ug/kg         190         59.         1           Carbazole         ND         ug/kg         190         59.         1      | Benzo(ghi)perylene       |                          | ND                    |           | ug/kg | 150      | 39.    | 1               |
| Dibenzo(a,h)anthracene         ND         ug/kg         110         37.         1           Indeno(1,2,3-cd)pyrene         ND         ug/kg         150         42.         1           Pyrene         ND         ug/kg         110         37.         1           Biphenyl         ND         ug/kg         430         63.         1           4-Chloroaniline         ND         ug/kg         190         50.         1           2-Nitroaniline         ND         ug/kg         190         54.         1           3-Nitroaniline         ND         ug/kg         190         52.         1           4-Nitroaniline         ND         ug/kg         190         51.         1           2-Nitroaniline         ND         ug/kg         190         53.         1           2-Methylnaphthalene         ND         ug/kg         190         63.         1           1,2,4,5-Tetrachlorobenzene         ND         ug/kg         190         59.         1           Acetophenone         ND         ug/kg         190         59.         1           Carbazole         ND         ug/kg         190         51.         1           | Fluorene                 |                          | ND                    |           | ug/kg | 190      | 54.    | 1               |
| Indeno(1,2,3-cd)pyrene         ND         ug/kg         150         42.         1           Pyrene         ND         ug/kg         110         37.         1           Biphenyl         ND         ug/kg         430         63.         1           4-Chloroaniline         ND         ug/kg         190         50.         1           2-Nitroaniline         ND         ug/kg         190         54.         1           3-Nitroaniline         ND         ug/kg         190         54.         1           3-Nitroaniline         ND         ug/kg         190         52.         1           4-Nitroaniline         ND         ug/kg         190         53.         1           2-Methylnaphthalene         ND         ug/kg         190         63.         1           1,2,4,5-Tetrachlorobenzene         ND         ug/kg         190         59.         1           Acetophenone         ND         ug/kg         190         59.         1           Garbazole         ND         ug/kg         190         59.         1           Garbazole         ND         ug/kg         190         59.         1           Garbazol     | Phenanthrene             |                          | ND                    |           | ug/kg | 110      | 37.    | 1               |
| Pyrene         ND         ug/kg         110         37.         1           Biphenyl         ND         ug/kg         430         63.         1           4-Chloroaniline         ND         ug/kg         190         50.         1           2-Nitroaniline         ND         ug/kg         190         54.         1           3-Nitroaniline         ND         ug/kg         190         52.         1           4-Nitroaniline         ND         ug/kg         190         52.         1           4-Nitroaniline         ND         ug/kg         190         51.         1           2-Methylnaphthalene         ND         ug/kg         190         63.         1           1,2,4,5-Tetrachlorobenzene         ND         ug/kg         190         59.         1           1,2,4,5-Tetrachlorobenzene         ND         ug/kg         190         59.         1           Carbazole         ND         ug/kg         190         59.         1           Garbazole         ND         ug/kg         190         59.         1           Carbazole         ND         ug/kg         190         51.         1           Benzald     | Dibenzo(a,h)anthracene   |                          | ND                    |           | ug/kg | 110      | 37.    | 1               |
| Biphenyl         ND         ug/kg         430         63.         1           4-Chloroaniline         ND         ug/kg         190         50.         1           2-Nitroaniline         ND         ug/kg         190         54.         1           3-Nitroaniline         ND         ug/kg         190         52.         1           4-Nitroaniline         ND         ug/kg         190         51.         1           4-Nitroaniline         ND         ug/kg         190         51.         1           1         Dibenzofuran         ND         ug/kg         190         63.         1           2-Methylnaphthalene         ND         ug/kg         190         59.         1           1,2,4,5-Tetrachlorobenzene         ND         ug/kg         190         59.         1           Acetophenone         ND         ug/kg         190         59.         1           Garbazole         ND         ug/kg         190         59.         1           Benzaldehyde         ND         ug/kg         190         41.         1           Carbazole         ND         ug/kg         190         52.         1                  | Indeno(1,2,3-cd)pyrene   |                          | ND                    |           | ug/kg | 150      | 42.    | 1               |
| 4-Chloroaniline         ND         ug/kg         190         50.         1           2-Nitroaniline         ND         ug/kg         190         54.         1           3-Nitroaniline         ND         ug/kg         190         52.         1           4-Nitroaniline         ND         ug/kg         190         52.         1           4-Nitroaniline         ND         ug/kg         190         51.         1           Dibenzofuran         ND         ug/kg         190         63.         1           2-Methylnaphthalene         ND         ug/kg         190         63.         1           1,2,4,5-Tetrachlorobenzene         ND         ug/kg         190         59.         1           Acetophenone         ND         ug/kg         190         59.         1           Carbazole         ND         ug/kg         190         59.         1           Garbazole         ND         ug/kg         190         41.         1           Benzaldehyde         ND         ug/kg         190         52.         1  | Pyrene                   |                          | ND                    |           | ug/kg | 110      | 37.    | 1               |
| 2-Nitroaniline         ND         ug/kg         190         54.         1           3-Nitroaniline         ND         ug/kg         190         52.         1           4-Nitroaniline         ND         ug/kg         190         51.         1           4-Nitroaniline         ND         ug/kg         190         51.         1           Dibenzofuran         ND         ug/kg         190         63.         1           2-Methylnaphthalene         ND         ug/kg         190         59.         1           1,2,4,5-Tetrachlorobenzene         ND         ug/kg         190         59.         1           Acetophenone         ND         ug/kg         190         59.         1           Carbazole         ND         ug/kg         190         41.         1           Benzaldehyde         ND         ug/kg         190         41.         1  | Biphenyl                 |                          | ND                    |           | ug/kg | 430      | 63.    | 1               |
| 3-Nitroaniline         ND         ug/kg         190         52.         1           4-Nitroaniline         ND         ug/kg         190         51.         1           Dibenzofuran         ND         ug/kg         190         63.         1           2-Methylnaphthalene         ND         ug/kg         230         61.         1           1,2,4,5-Tetrachlorobenzene         ND         ug/kg         190         59.         1           Acetophenone         ND         ug/kg         190         59.         1           Carbazole         ND         ug/kg         190         59.         1           Benzaldehyde         ND         ug/kg         190         59.         1           Carpolactam         ND         ug/kg         190         59.         1   | 4-Chloroaniline          |                          | ND                    |           | ug/kg | 190      | 50.    | 1               |
| 4-NitroanilineNDug/kg19051.1DibenzofuranNDug/kg19063.12-MethylnaphthaleneNDug/kg23061.11,2,4,5-TetrachlorobenzeneNDug/kg19059.1AcetophenoneNDug/kg19059.1CarbazoleNDug/kg19059.1BenzaldehydeNDug/kg19051.1CarolactamNDug/kg19052.1   | 2-Nitroaniline           |                          | ND                    |           | ug/kg | 190      | 54.    | 1               |
| Dibenzofuran         ND         ug/kg         190         63.         1           2-Methylnaphthalene         ND         ug/kg         230         61.         1           1,2,4,5-Tetrachlorobenzene         ND         ug/kg         190         59.         1           Acetophenone         ND         ug/kg         190         59.         1           Carbazole         ND         ug/kg         190         41.         1           Benzaldehyde         ND         ug/kg         190         52.         1  | 3-Nitroaniline           |                          | ND                    |           | ug/kg | 190      | 52.    | 1               |
| 2-MethylnaphthaleneNDug/kg23061.11,2,4,5-TetrachlorobenzeneNDug/kg19059.1AcetophenoneNDug/kg19059.1CarbazoleNDug/kg19041.1BenzaldehydeNDug/kg25077.1CarpolactamNDug/kg19052.1  | 4-Nitroaniline           |                          | ND                    |           | ug/kg | 190      | 51.    | 1               |
| 1,2,4,5-TetrachlorobenzeneNDug/kg19059.1AcetophenoneNDug/kg19059.1CarbazoleNDug/kg19041.1BenzaldehydeNDug/kg25077.1CarbolactamNDug/kg19052.1   | Dibenzofuran             |                          | ND                    |           | ug/kg | 190      | 63.    | 1               |
| AcetophenoneNDug/kg19059.1CarbazoleNDug/kg19041.1BenzaldehydeNDug/kg25077.1CaprolactamNDug/kg19052.1   | 2-Methylnaphthalene      |                          | ND                    |           | ug/kg | 230      | 61.    | 1               |
| ND         ug/kg         190         41.         1           Benzaldehyde         ND         ug/kg         250         77.         1           Caprolactam         ND         ug/kg         190         52.         1  | 1,2,4,5-Tetrachlorobenze | ne                       | ND                    |           | ug/kg | 190      | 59.    | 1               |
| BenzaldehydeNDug/kg25077.1CaprolactamNDug/kg19052.1  | Acetophenone             |                          | ND                    |           | ug/kg | 190      | 59.    | 1               |
| Caprolactam ND ug/kg 190 52. 1   | Carbazole                |                          | ND                    |           | ug/kg | 190      | 41.    | 1               |
|  | Benzaldehyde             |                          | ND                    |           | ug/kg | 250      | 77.    | 1               |
| Atrazine ND ug/kg 150 43. 1  | Caprolactam              |                          | ND                    |           | ug/kg | 190      | 52.    | 1               |
|  | Atrazine                 |                          | ND                    |           | ug/kg | 150      | 43.    | 1               |

| Surrogate        | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|------------------|------------|-----------|------------------------|--|
| Nitrobenzene-d5  | 74         |           | 23-120                 |  |
| 2-Fluorobiphenyl | 77         |           | 30-120                 |  |
| 4-Terphenyl-d14  | 85         |           | 18-120                 |  |



|                    |                 |                | Serial_No:         | 10031311:13    |
|--------------------|-----------------|----------------|--------------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:        | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:       | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                    |                |
| Lab ID:            | L1318716-04     |                | Date Collected:    | 09/19/13 08:40 |
| Client ID:         | TP-7-13 (0-3')  |                | Date Received:     | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:        | Not Specified  |
| Matrix:            | Soil            |                | Extraction Method: | EPA 3546       |
| Analytical Method: | 1,8270D         |                | Extraction Date:   | 09/24/13 18:30 |
| Analytical Date:   | 09/30/13 22:31  |                |                    |                |
| Analyst:           | PS              |                |                    |                |
| Percent Solids:    | 87%             |                |                    |                |

| Parameter  | Result | Qualifier | Units | RL  | MDL | Dilution Factor |  |
|--|--------|-----------|-------|-----|-----|-----------------|--|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |  |
| Benzo(a)anthracene                               | 220    |           | ug/kg | 110 | 37. | 1               |  |
| Benzo(a)pyrene                                   | 200    |           | ug/kg | 150 | 46. | 1               |  |
| Benzo(b)fluoranthene                             | 250    |           | ug/kg | 110 | 38. | 1               |  |
| Benzo(k)fluoranthene                             | 120    |           | ug/kg | 110 | 36. | 1               |  |
| Chrysene   | 240    |           | ug/kg | 110 | 37. | 1               |  |
| Anthracene                                       | 62     | J         | ug/kg | 110 | 31. | 1               |  |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 110 | 36. | 1               |  |
| Indeno(1,2,3-cd)pyrene                           | 130    | J         | ug/kg | 150 | 42. | 1               |  |

| Surrogate        | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|------------------|------------|-----------|------------------------|--|
| Nitrobenzene-d5  | 58         |           | 23-120                 |  |
| 2-Fluorobiphenyl | 71         |           | 30-120                 |  |
| 4-Terphenyl-d14  | 81         |           | 18-120                 |  |



|                    |                 |                | Serial_No:         | 10031311:13    |
|--------------------|-----------------|----------------|--------------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:        | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:       | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                    |                |
| Lab ID:            | L1318716-05     |                | Date Collected:    | 09/19/13 09:30 |
| Client ID:         | TP-9-13 (9-12') |                | Date Received:     | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:        | Not Specified  |
| Matrix:            | Soil            |                | Extraction Method: | EPA 3546       |
| Analytical Method: | 1,8270D         |                | Extraction Date:   | 09/24/13 18:30 |
| Analytical Date:   | 09/30/13 22:58  |                |                    |                |
| Analyst:           | PS              |                |                    |                |
| Percent Solids:    | 86%             |                |                    |                |

| Accessphithene         3000         ug/kg         150         33.         1           Hexablictoberzene         ND         ug/kg         110         35.         1           Bial2-chlorosthyljether         ND         ug/kg         190         62.         1           2-Chlorosthyljether         ND         ug/kg         190         62.         1           3.3-Dichlorobenzidine         ND         ug/kg         190         62.         1           2.4-Dinitrotoluene         ND         ug/kg         190         44.         1           2.4-Dinitrotoluene         ND         ug/kg         190         48.         1           1-Chlorophenyl phenyl ether         ND         ug/kg         190         68.         1           2.6-Dinitrotoluene         ND         ug/kg         190         63.         1           2.6-Dinitrotoluene         ND         ug/kg         190                      | Parameter  | Result | Qualifier | Units | RL  | MDL | Dilution Factor |  |  |  |
|---|--|--------|-----------|-------|-----|-----|-----------------|--|--|--|
| Heachlorobenzone         ND         ug/kg         110         35.         1           3is(2-chloroethyljether         ND         ug/kg         170         53.         1           2-chloroethyljether         ND         ug/kg         190         62.         1           3.3-Dichlorobenzidine         ND         ug/kg         190         62.         1           3.3-Dichlorobenzidine         ND         ug/kg         190         48.         1           6.Dinitrotoluane         ND         ug/kg         190         48.         1           Floorophenyl phenyl ether         ND         ug/kg         190         44.         1           4.Eromochynyl phenyl ether         ND         ug/kg         190         44.         1           4.Eromochynyl phenyl ether         ND         ug/kg         190         53.         1           4.Eromochynyl ether         ND         ug/kg         190         53.         1           4.Eromochyn bhenyl ether         ND         ug/kg         190         53.         1           4.Eromochyn bhenyl ether         ND         ug/kg         190         53.         1           4.exachlorobynethane         ND         ug/kg   | Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |  |  |  |
| Heachlorobenzone         ND         ug/kg         110         35.         1           3is(2-chloroethyljether         ND         ug/kg         170         53.         1           2-chloroethyljether         ND         ug/kg         190         62.         1           3.3-Dichlorobenzidine         ND         ug/kg         190         62.         1           3.3-Dichlorobenzidine         ND         ug/kg         190         48.         1           6.Dinitrotoluane         ND         ug/kg         190         48.         1           Floorophenyl phenyl ether         ND         ug/kg         190         44.         1           4.Eromochynyl phenyl ether         ND         ug/kg         190         44.         1           4.Eromochynyl phenyl ether         ND         ug/kg         190         53.         1           4.Eromochynyl ether         ND         ug/kg         190         53.         1           4.Eromochyn bhenyl ether         ND         ug/kg         190         53.         1           4.Eromochyn bhenyl ether         ND         ug/kg         190         53.         1           4.exachlorobynethane         ND         ug/kg   | Acenaphthene                                     | 3000   |           | ua/ka | 150 | 39. | 1               |  |  |  |
| Bis         D         Ug v         170         5.3.         1           2-Choronaphthalene         ND         Ug/kg         190         62.         1           3.3-Dichlorobenzidine         ND         Ug/kg         190         62.         1           3.3-Dichlorobenzidine         ND         Ug/kg         190         63.         1           2.4-Dinitrobluene         ND         Ug/kg         190         48.         1           2.6-Dinitrobluene         ND         Ug/kg         190         48.         1           1-Coranthene         ND         Ug/kg         190         58.         1           4-Chorophenyl phenyl ether         ND         Ug/kg         230         67.         1           3is(2-chorospopyl)fether         ND         Ug/kg         190         44.         1           3is(2-chorospopyl)fether         ND         Ug/kg         190         53.         1           +exachlorocethane         ND         Ug/kg         190         53.         1           +exachlorocethane         ND         Ug/kg         190         53.         1           NDA         Ug/kg         190         50.         1         1                               |  |        |           |       |     |     |                 |  |  |  |
| ND         ug/kg         190         62.         1           3.3-Dichlorobenzidine         ND         ug/kg         190         50.         1           3.3-Dichlorobenzidine         ND         ug/kg         190         41.         1           2.4-Dinitrobulene         ND         ug/kg         190         41.         1           2.6-Dinitrobulene         ND         ug/kg         190         48.         1           2.6-Dinitrobulene         ND         ug/kg         190         48.         1           1000         ug/kg         190         48.         1         1           2.6-Dinitrobulene         ND         ug/kg         190         48.         1           1000         ug/kg         190         44.         1         1           2.6-Dinitrobulatione         ND         ug/kg         190         53.         1           1.4-Dinorobenyl phenyl phenyl ether         ND         ug/kg         190         53.         1           1.6-Dinorobenzyl phenyl ether         ND         ug/kg         190         53.         1           1.4-exachlorochrobusylmethane         ND         ug/kg         170         50.         1                             |  |        |           |       |     |     |                 |  |  |  |
| ND         ug/kg         190         50.         1           2.4-Dinitrotoluene         ND         ug/kg         190         41.         1           2.4-Dinitrotoluene         ND         ug/kg         190         48.         1           2.6-Dinitrotoluene         ND         ug/kg         190         48.         1           1-Loronthene         700         ug/kg         190         58.         1           4-Chorophenyl phenyl ether         ND         ug/kg         190         58.         1           4-Bromophenyl phenyl ether         ND         ug/kg         200         57.         1           4-Bromophenyl phenyl ether         ND         ug/kg         190         53.         1           4-Exachlorocutadiene         ND         ug/kg         190         53.         1           4-exachlorocutadiene         ND         ug/kg         190         63.<    |  |        |           |       |     |     |                 |  |  |  |
| ND       ug/kg       190       41.       1         2.4-Dinitrotoluene       ND       ug/kg       190       48.       1         2.6-Dinitrotoluene       ND       ug/kg       190       48.       1         Pluranthene       700       ug/kg       190       58.       1         4-Chlorophenyl phenyl ether       ND       ug/kg       190       58.       1         4-Bromophenyl phenyl ether       ND       ug/kg       190       54.       1         3is(2-chloroisopropyl)ether       ND       ug/kg       190       53.       1         4-exachloroutadine       ND       ug/kg       190       50.       1         4-exachloroutadine       ND       ug/kg       190       63.       1         4-exachloroutadine       ND       ug/kg       190       63.       1         4-exachloroutadine       ND       ug/kg       190       50.       1  | ·  |        |           |       |     |     |                 |  |  |  |
| A.B.Dinitrotoluene       ND       ug/kg       190       48.       1         Fluoranthene       700       ug/kg       110       35.       1         4-Chlorophenyl phenyl ether       ND       ug/kg       190       58.       1         4-Bromophenyl phenyl ether       ND       ug/kg       190       44.       1         3is(2-chloroisopropyl)ether       ND       ug/kg       200       57.       1         3is(2-chlorototxxy)methane       ND       ug/kg       190       53.       1         +exachlorocyclopentadiene       ND       ug/kg       540       120       1         +exachlorocyclopentadiene       ND       ug/kg       170       50.       1         +exachlorocyclopentadiene       ND       ug/kg       170       50.       1         vachthroethane       ND       ug/kg       170       50.       1         Vachthroethane       ND       ug/kg       190       56.       1         Vitroberszene       ND       ug/kg       190       56.       1         Sig-2-ethylhexyl/phthalate       ND       ug/kg       190       37.       1         Din-butylphthalate       ND       ug/kg </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> |  |        |           |       |     |     |                 |  |  |  |
| Tuoranthene         700         ug/kg         110         35.         1           4-Chlorophenyl phenyl ether         ND         ug/kg         190         58.         1           4-Bromophenyl phenyl ether         ND         ug/kg         190         44.         1           3is(2-chloroisopropyl)ether         ND         ug/kg         230         67.         1           3is(2-chloroithoxy)methane         ND         ug/kg         190         53.         1           4exachlorocyclopentadiene         ND         ug/kg         150         53.         1           4exachlorocyclopentadiene         ND         ug/kg         150         34.         1           4exachlorocethane         13000         E         ug/kg         150         63.         1           Aphthalene         13000         E         ug/kg         190         63.         1           ND         ug/kg         190         63.         1         1         1           ND         ug/kg         190         63.         1         1         1           ND         ug/kg         190         50.         1         1         1         1           ND  | 2,6-Dinitrotoluene                               |        |           |       |     |     |                 |  |  |  |
| A-Chlorophenyl phenyl ether         ND         ug/kg         190         58.         1           4-Bromophenyl phenyl ether         ND         ug/kg         190         44.         1           Bis(2-chloroisopropyl)ether         ND         ug/kg         230         67.         1           Bis(2-chloroisborropyl)ether         ND         ug/kg         200         57.         1           Hexachlorobutadiene         ND         ug/kg         190         53.         1           Hexachlorocyclopentadiene         ND         ug/kg         540         120         1           Hexachlorocyclopentadiene         ND         ug/kg         170         50.         1           Vaphthalene         13000         E         ug/kg         170         45.         1           Vaphthalene         ND         ug/kg         150         44.         1           Vaphthalene         ND         ug/kg         150         40.         1           Vitrosodi-n-propylamine         ND         ug/kg         190         56.         1           Sit2-cethylhexyl)phthalate         ND         ug/kg         190         37.         1           Di-n-bylphthalate         ND        | Fluoranthene                                     | 700    |           |       | 110 | 35. | 1               |  |  |  |
| Harmonphenyl ether         ND         ug/kg         190         44.         1           Bis(2-chlorostiospropyl)ether         ND         ug/kg         230         67.         1           Bis(2-chlorostiospropyl)ether         ND         ug/kg         200         57.         1           Hexachlorobutadiene         ND         ug/kg         190         53.         1           Hexachlorocyclopentadiene         ND         ug/kg         150         34.         1           Hexachlorocyclopentadiene         ND         ug/kg         170         50.         1           Hexachlorocyclopentadiene         ND         ug/kg         170         50.         1           Naphthalene         13000         E         ug/kg         170         45.         1           NDPA/DPA         ND         ug/kg         190         56.         1         1           NDPA/DPA         ND         ug/kg         190         50.         1         1           Sig(2-ethylnexyl)phthalate         ND         ug/kg         190         37.         1         1           Din-butylphthalate         ND         ug/kg         190         37.         1         1                         | 4-Chlorophenyl phenyl ether                      | ND     |           |       | 190 |     |                 |  |  |  |
| ND         ug/kg         230         67.         1           Bis(2-chlorosthoxy)methane         ND         ug/kg         200         57.         1           Exachlorobutadiene         ND         ug/kg         190         53.         1           Exachlorocyclopentadiene         ND         ug/kg         540         120         1           Exachlorocyclopentadiene         ND         ug/kg         150         34.         1           Exachlorocyclopentadiene         ND         ug/kg         170         50.         1           Sophorone         ND         ug/kg         170         50.         1           Naphthalene         13000         E         ug/kg         170         45.         1           ND         ug/kg         170         45.         1         1         1           ND         ug/kg         190         56.         1         1         1           ND         ug/kg         190         37.         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1  | 4-Bromophenyl phenyl ether                       | ND     |           |       | 190 | 44. | 1               |  |  |  |
| NDug/kg20057.1HexachlorobutadieneNDug/kg19053.1HexachlorocyclopentadieneNDug/kg5401201HexachlorocyclopentadieneNDug/kg15034.1IsophoroneNDug/kg17050.1Naphthalene13000Eug/kg17063.1NDPA/DPANDug/kg15040.1NDPA/DPANDug/kg19056.1NDPA/DPANDug/kg19050.1Sig(2-ethylhexyl)phthalateNDug/kg19050.1Di-n-butylphthalateNDug/kg19037.1Di-n-butylphthalateNDug/kg19040.1Di-n-butylphthalateNDug/kg19040.1Di-n-butylphthalateNDug/kg19040.1Di-n-butylphthalateNDug/kg19040.1Di-n-butylphthalateNDug/kg19040.1Di-n-butylphthalateNDug/kg19048.1Di-n-butylphthalateNDug/kg19046.1Di-n-butylphthalateNDug/kg11037.1Di-n-butylphthalateNDug/kg19046.1Di-n-butylphthalateNDug/kg19046.1Di-n-butylphthalateNDug/kg100 <td>Bis(2-chloroisopropyl)ether</td> <td></td> <td></td> <td></td> <td>230</td> <td></td> <td></td>  | Bis(2-chloroisopropyl)ether                      |        |           |       | 230 |     |                 |  |  |  |
| ND         ug/kg         540         120         1           Hexachlorocyclopentadiene         ND         ug/kg         150         34.         1           sophorone         ND         ug/kg         170         50.         1           Naphthalene         13000         E         ug/kg         170         63.         1           Naphthalene         13000         E         ug/kg         170         45.         1           NDPA/DPA         ND         ug/kg         150         40.         1           n-Nitrosodin-propylamine         ND         ug/kg         190         56.         1           Bis(2-ethylhexyl)phthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         37.         1           Di-n-octylphthalate         ND         ug/kg         190         47.         1           Di-n-octylphthalate         ND         ug/kg         190         48.         1           Di-n-octylphthalate         ND         ug/kg         190         48.                                 | Bis(2-chloroethoxy)methane                       | ND     |           |       | 200 | 57. | 1               |  |  |  |
| Hexachloroethane         ND         ug/kg         150         34.         1           sophorone         ND         ug/kg         170         50.         1           Naphthalene         13000         E         ug/kg         190         63.         1           Nitrobenzene         ND         ug/kg         170         45.         1           NDPA/DPA         ND         ug/kg         150         40.         1           NItrosodi-n-propylamine         ND         ug/kg         190         56.         1           Sig(2-ethylhexyl)phthalate         ND         ug/kg         190         50.         1           Bityl benzyl phthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         48.         1           Di-n-otylphthalate         ND         ug/kg         190         48.         1           Di-n-otylphthalate         ND         ug/kg         190         48.         1           Dienzo(a)anthracene         100         J         ug/kg         150                           | Hexachlorobutadiene                              | ND     |           | ug/kg | 190 | 53. | 1               |  |  |  |
| Hexachloroethane         ND         ug/kg         150         34.         1           sophorone         ND         ug/kg         170         50.         1           Naphthalene         13000         E         ug/kg         190         63.         1           Naphthalene         ND         ug/kg         170         45.         1           NDPA/DPA         ND         ug/kg         150         40.         1           NDPA/DPA         ND         ug/kg         190         56.         1           NDPA/DPA         ND         ug/kg         190         50.         1           Si8(2-ethylhexyl)phthalate         ND         ug/kg         190         37.         1           Sistyl benzyl phthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         47.         1           Di-n-butylphthalate         ND         ug/kg         190         48.         1           Di-n-butylphthalate         ND         ug/kg         190         48.         1           Di-n-butylphthalate         ND         ug/kg         150         46.         1  | Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 540 | 120 | 1               |  |  |  |
| Naphtalene         13000         E         ug/kg         190         63.         1           Nitrobenzene         ND         ug/kg         170         45.         1           NDPA/DPA         ND         ug/kg         150         40.         1           n-Nitrosodi-n-propylamine         ND         ug/kg         190         56.         1           Bis(2-ethylhexyl)phthalate         ND         ug/kg         190         50.         1           Bityl benzyl phthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         47.         1           Di-n-octylphthalate         ND         ug/kg         190         48.         1           Di-n-octylphthalate         ND         ug/kg         190         48.         1           Di-n-octylphthalate         ND         ug/kg         190         48.         1           Di-netyl phthalate         ND         ug/kg         110         37.         1           Benzo(a)anthracene         100         J         ug/kg                         | Hexachloroethane                                 | ND     |           | ug/kg | 150 | 34. | 1               |  |  |  |
| ND         ug/kg         170         45.         1           NDPA/DPA         ND         ug/kg         150         40.         1           n-Nitrosodi-n-propylamine         ND         ug/kg         190         56.         1           Bis(2-ethylhexyl)phthalate         ND         ug/kg         190         50.         1           Bis(2-ethylhexyl)phthalate         ND         ug/kg         190         37.         1           Bis(2-ethylhexyl)phthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         47.         1           Di-n-butylphthalate         ND         ug/kg         190         48.         1           Di-n-butylphthalate         ND         ug/kg         190         48.         1           Di-nethyl phthalate         ND         ug/kg         110         37.         1           Banzo(a)pyrene         ND         ug/kg         150         46.         1                   | Isophorone                                       | ND     |           | ug/kg | 170 | 50. | 1               |  |  |  |
| NDPA/DPA         ND         ug/kg         150         40.         1           n-Nitrosodi-n-propylamine         ND         ug/kg         190         56.         1           Bis(2-ethylhexyl)phthalate         ND         ug/kg         190         50.         1           Bityl benzyl phthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         47.         1           Di-n-butylphthalate         ND         ug/kg         190         48.         1           Di-n-butylphthalate         ND         ug/kg         190         48.         1           Di-n-butylphthalate         ND         ug/kg         190         48.         1           Di-nethyl phthalate         ND         ug/kg         190         46.         1           Banzo(a)pyrene         ND         ug/kg         150         46.         1           Banzo(b)fluoranthene         54         J         ug/kg         110             | Naphthalene                                      | 13000  | E         | ug/kg | 190 | 63. | 1               |  |  |  |
| ND         ug/kg         190         56.         1           Bis(2-ethylhexyl)phthalate         ND         ug/kg         190         50.         1           Butyl benzyl phthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         47.         1           Di-n-octylphthalate         ND         ug/kg         190         48.         1           Diethyl phthalate         ND         ug/kg         190         48.         1           Diethyl phthalate         ND         ug/kg         190         48.         1           Diethyl phthalate         ND         ug/kg         110         37.         1           Benzo(a)anthracene         100         J         ug/kg         110         37.         1           Benzo(k)fluoranthene         54         J         ug/kg         110         38.         1           Benzo(k)fluoranthene         ND         ug/kg         110                          | Nitrobenzene                                     | ND     |           | ug/kg | 170 | 45. | 1               |  |  |  |
| Bis (2-ethylhexyl)phthalate         ND         ug/kg         190         50.         1           Bis (2-ethylhexyl)phthalate         ND         ug/kg         190         37.         1           Bit yl benzyl phthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         37.         1           Di-n-octylphthalate         ND         ug/kg         190         47.         1           Di-n-octylphthalate         ND         ug/kg         190         40.         1           Di-n-octylphthalate         ND         ug/kg         190         48.         1           Dientyl phthalate         ND         ug/kg         190         48.         1           Dientyl phthalate         ND         ug/kg         110         37.         1           Benzo(a)anthracene         100         J         ug/kg         110         37.         1           Benzo(b)fluoranthene         54         J         ug/kg         110         38.         1           Benzo(k)fluoranthene         ND         ug/kg         110         36.         1   | NDPA/DPA   | ND     |           | ug/kg | 150 | 40. | 1               |  |  |  |
| Butyl benzyl phthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         37.         1           Di-n-butylphthalate         ND         ug/kg         190         47.         1           Di-n-octylphthalate         ND         ug/kg         190         47.         1           Diethyl phthalate         ND         ug/kg         190         40.         1           Diethyl phthalate         ND         ug/kg         190         48.         1           Dimethyl phthalate         ND         ug/kg         110         37.         1           Benzo(a)anthracene         100         J         ug/kg         110         37.         1           Benzo(a)pyrene         ND         ug/kg         110         37.         1         1           Benzo(b)fluoranthene         54         J         ug/kg         110         38.         1           Benzo(k)fluoranthene         ND         ug/kg         110         36.         1   | n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 190 | 56. | 1               |  |  |  |
| Di-n-butylphthalate         ND         ug/kg         190         37.         1           Di-n-octylphthalate         ND         ug/kg         190         47.         1           Di-n-octylphthalate         ND         ug/kg         190         47.         1           Di-n-octylphthalate         ND         ug/kg         190         40.         1           Diethyl phthalate         ND         ug/kg         190         48.         1           Dimethyl phthalate         ND         ug/kg         110         37.         1           Benzo(a)anthracene         100         J         ug/kg         110         37.         1           Benzo(a)pyrene         ND         ug/kg         150         46.         1           Benzo(b)fluoranthene         54         J         ug/kg         110         38.         1           Benzo(k)fluoranthene         ND         ug/kg         110         36.         1   | Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 190 | 50. | 1               |  |  |  |
| Di-n-octylphthalateNDug/kg19047.1Diethyl phthalateNDug/kg19040.1Dimethyl phthalateNDug/kg19048.1Benzo(a)anthracene100Jug/kg11037.1Benzo(a)pyreneNDug/kg15046.1Benzo(b)fluoranthene54Jug/kg11038.1Benzo(k)fluorantheneNDug/kg11036.1   | Butyl benzyl phthalate                           | ND     |           | ug/kg | 190 | 37. | 1               |  |  |  |
| Diethyl phthalateNDug/kg19040.1Dimethyl phthalateNDug/kg19048.1Benzo(a)anthracene100Jug/kg11037.1Benzo(a)pyreneNDug/kg15046.1Benzo(b)fluoranthene54Jug/kg11038.1Benzo(k)fluorantheneNDug/kg11036.1  | Di-n-butylphthalate                              | ND     |           | ug/kg | 190 | 37. | 1               |  |  |  |
| Dimethyl phthalateNDug/kg19048.1Benzo(a)anthracene100Jug/kg11037.1Benzo(a)pyreneNDug/kg15046.1Benzo(b)fluoranthene54Jug/kg11038.1Benzo(k)fluorantheneNDug/kg11036.1   | Di-n-octylphthalate                              | ND     |           | ug/kg | 190 | 47. | 1               |  |  |  |
| Benzo(a)anthracene100Jug/kg11037.1Benzo(a)pyreneNDug/kg15046.1Benzo(b)fluoranthene54Jug/kg11038.1Benzo(k)fluorantheneNDug/kg11036.1   | Diethyl phthalate                                | ND     |           | ug/kg | 190 | 40. | 1               |  |  |  |
| Benzo(a)pyreneNDug/kg15046.1Benzo(b)fluoranthene54Jug/kg11038.1Benzo(k)fluorantheneNDug/kg11036.1   | Dimethyl phthalate                               | ND     |           | ug/kg | 190 | 48. | 1               |  |  |  |
| Benzo(b)fluoranthene54Jug/kg11038.1Benzo(k)fluorantheneNDug/kg11036.1   | Benzo(a)anthracene                               | 100    | J         | ug/kg | 110 | 37. | 1               |  |  |  |
| Benzo(k)fluorantheneNDug/kg11036.1  | Benzo(a)pyrene                                   | ND     |           | ug/kg | 150 | 46. | 1               |  |  |  |
|   | Benzo(b)fluoranthene                             | 54     | J         | ug/kg | 110 | 38. | 1               |  |  |  |
| Chrysene 110 ug/kg 110 37. 1  | Benzo(k)fluoranthene                             | ND     |           | ug/kg | 110 | 36. | 1               |  |  |  |
|   | Chrysene   | 110    |           | ug/kg | 110 | 37. | 1               |  |  |  |



|   |   | Serial_No:10031311:13 |           |       |                                     |        |   |
|---|---|-----------------------|-----------|-------|-------------------------------------|--------|---|
| Project Name:                             | 295 MARYLAND ST                                   |                       |           |       | Lab Nu                              | mber:  | L1318716                                    |
| Project Number:                           | 0222-001-101                                      |                       |           |       | Report                              | Date:  | 10/03/13                                    |
| -   |   | SAMP                  |           | S     | •                                   |        |   |
| Lab ID:<br>Client ID:<br>Sample Location: | L1318716-05<br>TP-9-13 (9-12')<br>295 MARYLAND ST |                       |           |       | Date Coll<br>Date Rec<br>Field Prep | eived: | 09/19/13 09:30<br>09/20/13<br>Not Specified |
| Parameter                                 |   | Result                | Qualifier | Units | RL                                  | MDL    | Dilution Factor                             |
| Semivolatile Organ                        | ics by GC/MS - Westborou                          | ugh Lab               |           |       |                                     |        |   |
| Acenaphthylene                            |   | ND                    |           | ug/kg | 150                                 | 35.    | 1   |
| Anthracene                                |   | 960                   |           | ug/kg | 110                                 | 32.    | 1   |
| Benzo(ghi)perylene                        |   | ND                    |           | ug/kg | 150                                 | 39.    | 1   |
| Fluorene                                  |   | 2400                  |           | ug/kg | 190                                 | 54.    | 1   |
| Phenanthrene                              |   | 4800                  |           | ug/kg | 110                                 | 37.    | 1   |
| Dibenzo(a,h)anthracene                    |   | ND                    |           | ug/kg | 110                                 | 37.    | 1   |
| Indeno(1,2,3-cd)pyrene                    |   | ND                    |           | ug/kg | 150                                 | 42.    | 1   |
| Pyrene                                    |   | 580                   |           | ug/kg | 110                                 | 37.    | 1   |
| Biphenyl                                  |   | 2600                  |           | ug/kg | 430                                 | 62.    | 1   |
| 4-Chloroaniline                           |   | ND                    |           | ug/kg | 190                                 | 50.    | 1   |
| 2-Nitroaniline                            |   | ND                    |           | ug/kg | 190                                 | 53.    | 1   |
| 3-Nitroaniline                            |   | ND                    |           | ug/kg | 190                                 | 52.    | 1   |
| 4-Nitroaniline                            |   | ND                    |           | ug/kg | 190                                 | 51.    | 1   |
| Dibenzofuran                              |   | 1400                  |           | ug/kg | 190                                 | 63.    | 1   |
| 2-Methylnaphthalene                       |   | 15000                 | E         | ug/kg | 230                                 | 60.    | 1   |
| 1,2,4,5-Tetrachlorobenzer                 | ne  | ND                    |           | ug/kg | 190                                 | 59.    | 1   |
| Acetophenone                              |   | ND                    |           | ug/kg | 190                                 | 59.    | 1   |
| Carbazole                                 |   | 120                   | J         | ug/kg | 190                                 | 41.    | 1   |
| Benzaldehyde                              |   | ND                    |           | ug/kg | 250                                 | 77.    | 1   |
| Caprolactam                               |   | ND                    |           | ug/kg | 190                                 | 52.    | 1   |
| Atrazine                                  |   | ND                    |           | ug/kg | 150                                 | 43.    | 1   |

| Surrogate        | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|------------------|------------|-----------|------------------------|--|
| Nitrobenzene-d5  | 81         |           | 23-120                 |  |
| 2-Fluorobiphenyl | 76         |           | 30-120                 |  |
| 4-Terphenyl-d14  | 82         |           | 18-120                 |  |



|                    |                 |                | Serial_No:         | 10031311:13    |
|--------------------|-----------------|----------------|--------------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:        | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:       | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                    |                |
| Lab ID:            | L1318716-05     | D              | Date Collected:    | 09/19/13 09:30 |
| Client ID:         | TP-9-13 (9-12') |                | Date Received:     | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:        | Not Specified  |
| Matrix:            | Soil            |                | Extraction Method: | EPA 3546       |
| Analytical Method: | 1,8270D         |                | Extraction Date:   | 09/24/13 18:30 |
| Analytical Date:   | 10/01/13 09:40  |                |                    |                |
| Analyst:           | PS              |                |                    |                |
| Percent Solids:    | 86%             |                |                    |                |

| Parameter  | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|--|--------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |     |                 |
| Naphthalene                                      | 17000  |           | ug/kg | 950  | 310 | 5               |
| 2-Methylnaphthalene                              | 18000  |           | ug/kg | 1100 | 300 | 5               |



|                    |                 |                | Serial_No:         | 0031311:13     |
|--------------------|-----------------|----------------|--------------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:        | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:       | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                    |                |
| Lab ID:            | L1318716-06     |                | Date Collected:    | 09/19/13 16:00 |
| Client ID:         | TP-13-13 (8-9') |                | Date Received:     | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:        | Not Specified  |
| Matrix:            | Soil            |                | Extraction Method: | EPA 3546       |
| Analytical Method: | 1,8270D         |                | Extraction Date:   | 09/24/13 18:30 |
| Analytical Date:   | 09/30/13 23:26  |                |                    |                |
| Analyst:           | PS              |                |                    |                |
| Percent Solids:    | 86%             |                |                    |                |

| Parameter  | Result | Qualifier | Units | RL  | MDL | Dilution Factor |  |  |
|--|--------|-----------|-------|-----|-----|-----------------|--|--|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |  |  |
| Acenaphthene                                     | 240    |           | ug/kg | 150 | 39. | 1               |  |  |
| Hexachlorobenzene                                | ND     |           | ug/kg | 110 | 35. | 1               |  |  |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 170 | 53. | 1               |  |  |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 190 | 62. | 1               |  |  |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 190 | 51. | 1               |  |  |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 41. | 1               |  |  |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 49. | 1               |  |  |
| Fluoranthene                                     | ND     |           | ug/kg | 110 | 35. | 1               |  |  |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 190 | 58. | 1               |  |  |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 190 | 44. | 1               |  |  |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 230 | 67. | 1               |  |  |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 200 | 58. | 1               |  |  |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 190 | 54. | 1               |  |  |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 540 | 120 | 1               |  |  |
| Hexachloroethane                                 | ND     |           | ug/kg | 150 | 35. | 1               |  |  |
| Isophorone                                       | ND     |           | ug/kg | 170 | 51. | 1               |  |  |
| Naphthalene                                      | ND     |           | ug/kg | 190 | 63. | 1               |  |  |
| Nitrobenzene                                     | ND     |           | ug/kg | 170 | 45. | 1               |  |  |
| NDPA/DPA   | ND     |           | ug/kg | 150 | 40. | 1               |  |  |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 190 | 57. | 1               |  |  |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 190 | 50. | 1               |  |  |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 190 | 37. | 1               |  |  |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 190 | 37. | 1               |  |  |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 190 | 47. | 1               |  |  |
| Diethyl phthalate                                | ND     |           | ug/kg | 190 | 40. | 1               |  |  |
| Dimethyl phthalate                               | ND     |           | ug/kg | 190 | 48. | 1               |  |  |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 110 | 37. | 1               |  |  |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 150 | 46. | 1               |  |  |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 110 | 38. | 1               |  |  |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 110 | 36. | 1               |  |  |
| Chrysene   | ND     |           | ug/kg | 110 | 37. | 1               |  |  |
|  |        |           |       |     |     |                 |  |  |



| Due is at Names                           |   |        |           |       |  | Senal_INO. | :10031311:13                                |  |  |
|---|---|--------|-----------|-------|--|------------|---|--|--|
| Project Name: 2                           | 95 MARYLAND ST                                    |        |           |       | Lab Nu   | mber:      | L1318716                                    |  |  |
| Project Number: 0                         | 222-001-101                                       |        |           |       | Report   | Date:      | 10/03/13                                    |  |  |
| -   |   | SAMPL  | E RESULTS | 5     | •  |            |   |  |  |
| Lab ID:<br>Client ID:<br>Sample Location: | L1318716-06<br>TP-13-13 (8-9')<br>295 MARYLAND ST |        |           |       | Date Collected:<br>Date Received:<br>Field Prep: |            | 09/19/13 16:00<br>09/20/13<br>Not Specified |  |  |
| Parameter                                 |   | Result | Qualifier | Units | RL   | MDL        | Dilution Factor                             |  |  |
| Semivolatile Organics                     | Semivolatile Organics by GC/MS - Westborough Lab  |        |           |       |  |            |   |  |  |
| Acenaphthylene                            |   | ND     |           | ug/kg | 150  | 36.        | 1   |  |  |
| Anthracene                                |   | ND     |           | ug/kg | 110  | 32.        | 1   |  |  |
| Benzo(ghi)perylene                        |   | ND     |           | ug/kg | 150  | 40.        | 1   |  |  |
| Fluorene                                  |   | 130    | J         | ug/kg | 190  | 54.        | 1   |  |  |
| Phenanthrene                              |   | ND     |           | ug/kg | 110  | 37.        | 1   |  |  |
| Dibenzo(a,h)anthracene                    |   | ND     |           | ug/kg | 110  | 37.        | 1   |  |  |
| Indeno(1,2,3-cd)pyrene                    |   | ND     |           | ug/kg | 150  | 42.        | 1   |  |  |
| Pyrene                                    |   | ND     |           | ug/kg | 110  | 37.        | 1   |  |  |
| Biphenyl                                  |   | ND     |           | ug/kg | 430  | 63.        | 1   |  |  |
| 4-Chloroaniline                           |   | ND     |           | ug/kg | 190  | 50.        | 1   |  |  |
| 2-Nitroaniline                            |   | ND     |           | ug/kg | 190  | 54.        | 1   |  |  |
| 3-Nitroaniline                            |   | ND     |           | ug/kg | 190  | 52.        | 1   |  |  |
| 4-Nitroaniline                            |   | ND     |           | ug/kg | 190  | 51.        | 1   |  |  |
| Dibenzofuran                              |   | ND     |           | ug/kg | 190  | 64.        | 1   |  |  |
| 2-Methylnaphthalene                       |   | ND     |           | ug/kg | 230  | 61.        | 1   |  |  |
| 1,2,4,5-Tetrachlorobenzene                |   | ND     |           | ug/kg | 190  | 59.        | 1   |  |  |
| Acetophenone                              |   | ND     |           | ug/kg | 190  | 59.        | 1   |  |  |
| Carbazole                                 |   | ND     |           | ug/kg | 190  | 41.        | 1   |  |  |
| Benzaldehyde                              |   | ND     |           | ug/kg | 250  | 77.        | 1   |  |  |
| Caprolactam                               |   | ND     |           | ug/kg | 190  | 52.        | 1   |  |  |
| Atrazine                                  |   | ND     |           | ug/kg | 150  | 43.        | 1   |  |  |

|                  |            |           | Acceptance |  |
|------------------|------------|-----------|------------|--|
| Surrogate        | % Recovery | Qualifier | Criteria   |  |
| Nitrobenzene-d5  | 73         |           | 23-120     |  |
| 2-Fluorobiphenyl | 76         |           | 30-120     |  |
| 4-Terphenyl-d14  | 79         |           | 18-120     |  |



|                    |                 |                | Serial_No:         | 10031311:13    |
|--------------------|-----------------|----------------|--------------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:        | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:       | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                    |                |
| Lab ID:            | L1318716-07     |                | Date Collected:    | 09/19/13 14:15 |
| Client ID:         | TP-22-13 (6-8') |                | Date Received:     | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:        | Not Specified  |
| Matrix:            | Soil            |                | Extraction Method: | EPA 3546       |
| Analytical Method: | 1,8270D         |                | Extraction Date:   | 09/24/13 18:30 |
| Analytical Date:   | 09/30/13 23:54  |                |                    |                |
| Analyst:           | PS              |                |                    |                |
| Percent Solids:    | 86%             |                |                    |                |

| Parameter  | Result | Qualifier | Units | RL  | MDL | Dilution Factor |  |  |
|--|--------|-----------|-------|-----|-----|-----------------|--|--|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |  |  |
| Acenaphthene                                     | ND     |           | ug/kg | 150 | 39. | 1               |  |  |
| Hexachlorobenzene                                | ND     |           | ug/kg | 110 | 36. | 1               |  |  |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 170 | 54. | 1               |  |  |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 190 | 62. | 1               |  |  |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 190 | 51. | 1               |  |  |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 41. | 1               |  |  |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 49. | 1               |  |  |
| Fluoranthene                                     | 120    |           | ug/kg | 110 | 35. | 1               |  |  |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 190 | 58. | 1               |  |  |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 190 | 44. | 1               |  |  |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 230 | 67. | 1               |  |  |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 210 | 58. | 1               |  |  |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 190 | 54. | 1               |  |  |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 550 | 120 | 1               |  |  |
| Hexachloroethane                                 | ND     |           | ug/kg | 150 | 35. | 1               |  |  |
| Isophorone                                       | ND     |           | ug/kg | 170 | 51. | 1               |  |  |
| Naphthalene                                      | ND     |           | ug/kg | 190 | 64. | 1               |  |  |
| Nitrobenzene                                     | ND     |           | ug/kg | 170 | 46. | 1               |  |  |
| NDPA/DPA   | ND     |           | ug/kg | 150 | 40. | 1               |  |  |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 190 | 57. | 1               |  |  |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 190 | 50. | 1               |  |  |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 190 | 37. | 1               |  |  |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 190 | 37. | 1               |  |  |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 190 | 47. | 1               |  |  |
| Diethyl phthalate                                | ND     |           | ug/kg | 190 | 40. | 1               |  |  |
| Dimethyl phthalate                               | ND     |           | ug/kg | 190 | 48. | 1               |  |  |
| Benzo(a)anthracene                               | 64     | J         | ug/kg | 110 | 37. | 1               |  |  |
| Benzo(a)pyrene                                   | 53     | J         | ug/kg | 150 | 47. | 1               |  |  |
| Benzo(b)fluoranthene                             | 65     | J         | ug/kg | 110 | 39. | 1               |  |  |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 110 | 36. | 1               |  |  |
| Chrysene   | 66     | J         | ug/kg | 110 | 38. | 1               |  |  |
|  |        |           |       |     |     |                 |  |  |



|   |   |        |            | Serial_No:10031311:13 |  |       |   |  |  |
|---|---|--------|------------|-----------------------|--|-------|---|--|--|
| Project Name:                             | 295 MARYLAND ST                                   |        |            |                       | Lab Nu   | mber: | L1318716                                    |  |  |
| Project Number:                           | 0222-001-101                                      |        |            |                       | Report   | Date: | 10/03/13                                    |  |  |
| -   |   | SAMP   | LE RESULTS | 5                     |  |       |   |  |  |
| Lab ID:<br>Client ID:<br>Sample Location: | L1318716-07<br>TP-22-13 (6-8')<br>295 MARYLAND ST |        |            |                       | Date Collected:<br>Date Received:<br>Field Prep: |       | 09/19/13 14:15<br>09/20/13<br>Not Specified |  |  |
| Parameter                                 |   | Result | Qualifier  | Units                 | RL   | MDL   | Dilution Factor                             |  |  |
| Semivolatile Organi                       | Semivolatile Organics by GC/MS - Westborough Lab  |        |            |                       |  |       |   |  |  |
| Acenaphthylene                            |   | ND     |            | ug/kg                 | 150  | 36.   | 1   |  |  |
| Anthracene                                |   | ND     |            | ug/kg                 | 110  | 32.   | 1   |  |  |
| Benzo(ghi)perylene                        |   | ND     |            | ug/kg                 | 150  | 40.   | 1   |  |  |
| Fluorene                                  |   | ND     |            | ug/kg                 | 190  | 55.   | 1   |  |  |
| Phenanthrene                              |   | 78     | J          | ug/kg                 | 110  | 37.   | 1   |  |  |
| Dibenzo(a,h)anthracene                    |   | ND     |            | ug/kg                 | 110  | 37.   | 1   |  |  |
| Indeno(1,2,3-cd)pyrene                    |   | ND     |            | ug/kg                 | 150  | 42.   | 1   |  |  |
| Pyrene                                    |   | 100    | J          | ug/kg                 | 110  | 37.   | 1   |  |  |
| Biphenyl                                  |   | ND     |            | ug/kg                 | 440  | 63.   | 1   |  |  |
| 4-Chloroaniline                           |   | ND     |            | ug/kg                 | 190  | 50.   | 1   |  |  |
| 2-Nitroaniline                            |   | ND     |            | ug/kg                 | 190  | 54.   | 1   |  |  |
| 3-Nitroaniline                            |   | ND     |            | ug/kg                 | 190  | 53.   | 1   |  |  |
| 4-Nitroaniline                            |   | ND     |            | ug/kg                 | 190  | 52.   | 1   |  |  |
| Dibenzofuran                              |   | ND     |            | ug/kg                 | 190  | 64.   | 1   |  |  |
| 2-Methylnaphthalene                       |   | ND     |            | ug/kg                 | 230  | 61.   | 1   |  |  |
| 1,2,4,5-Tetrachlorobenzen                 | е   | ND     |            | ug/kg                 | 190  | 59.   | 1   |  |  |
| Acetophenone                              |   | ND     |            | ug/kg                 | 190  | 59.   | 1   |  |  |
| Carbazole                                 |   | ND     |            | ug/kg                 | 190  | 41.   | 1   |  |  |
| Benzaldehyde                              |   | ND     |            | ug/kg                 | 250  | 77.   | 1   |  |  |
| Caprolactam                               |   | ND     |            | ug/kg                 | 190  | 53.   | 1   |  |  |
| Atrazine                                  |   | ND     |            | ug/kg                 | 150  | 43.   | 1   |  |  |

| Surrogate        | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|------------------|------------|-----------|------------------------|--|
| Nitrobenzene-d5  | 64         |           | 23-120                 |  |
| 2-Fluorobiphenyl | 74         |           | 30-120                 |  |
| 4-Terphenyl-d14  | 91         |           | 18-120                 |  |



|                    |                   |                | Serial_No:         | 10031311:13    |
|--------------------|-------------------|----------------|--------------------|----------------|
| Project Name:      | 295 MARYLAND ST   |                | Lab Number:        | L1318716       |
| Project Number:    | 0222-001-101      |                | Report Date:       | 10/03/13       |
|                    |                   | SAMPLE RESULTS |                    |                |
| Lab ID:            | L1318716-08       |                | Date Collected:    | 09/19/13 15:30 |
| Client ID:         | TP-23-13 (0.5-3') |                | Date Received:     | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST   |                | Field Prep:        | Not Specified  |
| Matrix:            | Soil              |                | Extraction Method: | EPA 3546       |
| Analytical Method: | 1,8270D           |                | Extraction Date:   | 09/24/13 18:30 |
| Analytical Date:   | 10/01/13 00:22    |                |                    |                |
| Analyst:           | PS                |                |                    |                |
| Percent Solids:    | 87%               |                |                    |                |

| Parameter  | Result | Qualifier | Units | RL  | MDL | Dilution Factor |  |  |  |  |
|--|--------|-----------|-------|-----|-----|-----------------|--|--|--|--|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |  |  |  |  |
| Benzo(a)anthracene                               | 52     | J         | ug/kg | 110 | 36. | 1               |  |  |  |  |
| Benzo(a)pyrene                                   | 57     | J         | ug/kg | 150 | 46. | 1               |  |  |  |  |
| Benzo(b)fluoranthene                             | 77     | J         | ug/kg | 110 | 38. | 1               |  |  |  |  |
| Benzo(k)fluoranthene                             | 40     | J         | ug/kg | 110 | 36. | 1               |  |  |  |  |
| Chrysene   | 60     | J         | ug/kg | 110 | 36. | 1               |  |  |  |  |
| Anthracene                                       | ND     |           | ug/kg | 110 | 31. | 1               |  |  |  |  |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 110 | 36. | 1               |  |  |  |  |
| Indeno(1,2,3-cd)pyrene                           | 42     | J         | ug/kg | 150 | 41. | 1               |  |  |  |  |

| Surrogate        | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|------------------|------------|-----------|------------------------|--|
| Nitrobenzene-d5  | 65         |           | 23-120                 |  |
| 2-Fluorobiphenyl | 67         |           | 30-120                 |  |
| 4-Terphenyl-d14  | 80         |           | 18-120                 |  |



|   |   |                | Serial_No:   | 10031311:13   |
|---|---|----------------|--|---|
| Project Name:   | 295 MARYLAND ST   |                | Lab Number:  | L1318716  |
| Project Number:   | 0222-001-101  |                | Report Date:   | 10/03/13  |
|   |   | SAMPLE RESULTS |  |   |
| Lab ID:<br>Client ID:<br>Sample Location:<br>Matrix:<br>Analytical Method:<br>Analytical Date:<br>Analyst:<br>Percent Solids: | L1318716-09<br>TP-24-13 (0.5-4')<br>295 MARYLAND ST<br>Soil<br>1,8270D<br>10/01/13 00:50<br>PS<br>88% |                | Date Collected:<br>Date Received:<br>Field Prep:<br>Extraction Method:<br>Extraction Date: | 09/19/13 17:00<br>09/20/13<br>Not Specified<br>EPA 3546<br>09/24/13 18:30 |

| Parameter  | Result | Qualifier | Units | RL  | MDL | Dilution Factor |  |  |  |
|--|--------|-----------|-------|-----|-----|-----------------|--|--|--|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |  |  |  |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 110 | 36. | 1               |  |  |  |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 150 | 45. | 1               |  |  |  |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 110 | 38. | 1               |  |  |  |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 110 | 35. | 1               |  |  |  |
| Chrysene   | ND     |           | ug/kg | 110 | 36. | 1               |  |  |  |
| Anthracene                                       | ND     |           | ug/kg | 110 | 31. | 1               |  |  |  |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 110 | 36. | 1               |  |  |  |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 150 | 41. | 1               |  |  |  |

| Surrogate        | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|------------------|------------|-----------|------------------------|--|
| Nitrobenzene-d5  | 77         |           | 23-120                 |  |
| 2-Fluorobiphenyl | 78         |           | 30-120                 |  |
| 4-Terphenyl-d14  | 83         |           | 18-120                 |  |



|                    |                   | Serial_No:10031311:13           |
|--------------------|-------------------|---------------------------------|
| Project Name:      | 295 MARYLAND ST   | Lab Number: L1318716            |
| Project Number:    | 0222-001-101      | <b>Report Date:</b> 10/03/13    |
|                    | SAMPLE RESULTS    |                                 |
| Lab ID:            | L1318716-10 D     | Date Collected: 09/20/13 11:30  |
| Client ID:         | TP-25-13 (0.5-4') | Date Received: 09/20/13         |
| Sample Location:   | 295 MARYLAND ST   | Field Prep: Not Specified       |
| Matrix:            | Soil              | Extraction Method: EPA 3546     |
| Analytical Method: | 1,8270D           | Extraction Date: 09/24/13 18:30 |
| Analytical Date:   | 10/01/13 01:18    |                                 |
| Analyst:           | PS                |                                 |
| Percent Solids:    | 86%               |                                 |

| Result    | Qualifier  | Units  | RL   | MDL   | Dilution Factor   |
|-----------|--|--|--|---|---|
| rough Lab |  |  |  |   |   |
| 4800      |  | ug/kg  | 450  | 150   | 4   |
| 3400      |  | ug/kg  | 600  | 180   | 4   |
| 4300      |  | ug/kg  | 450  | 150   | 4   |
| 2000      |  | ug/kg  | 450  | 140   | 4   |
| 4200      |  | ug/kg  | 450  | 150   | 4   |
| 4000      |  | ug/kg  | 450  | 120   | 4   |
| 560       |  | ug/kg  | 450  | 150   | 4   |
| 1900      |  | ug/kg  | 600  | 170   | 4   |
|           | Fough Lab           4800           3400           4300           4200           4200           560 | rough Lab<br>4800<br>3400<br>4300<br>2000<br>4200<br>4000<br>560 | 4800         ug/kg           3400         ug/kg           4300         ug/kg           4300         ug/kg           4300         ug/kg           4300         ug/kg           4000         ug/kg           560         ug/kg | 4800         ug/kg         450           3400         ug/kg         600           4300         ug/kg         450           2000         ug/kg         450           4200         ug/kg         450           4000         ug/kg         450           560         ug/kg         450 | Yough Lab       ug/kg       450       150         4800       ug/kg       600       180         3400       ug/kg       600       180         4300       ug/kg       450       150         2000       ug/kg       450       140         4200       ug/kg       450       150         4000       ug/kg       450       120         560       ug/kg       450       150 |

| Surrogate        | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|------------------|------------|-----------|------------------------|--|
| Nitrobenzene-d5  | 88         |           | 23-120                 |  |
| 2-Fluorobiphenyl | 89         |           | 30-120                 |  |
| 4-Terphenyl-d14  | 75         |           | 18-120                 |  |



| Project Name:   | 295 MARYLAND ST | Lab Number:  | L1318716 |
|-----------------|-----------------|--------------|----------|
| Project Number: | 0222-001-101    | Report Date: | 10/03/13 |

#### Method Blank Analysis Batch Quality Control

| Analytical Method: |  |
|--------------------|--|
| Analytical Date:   |  |
| Analyst:           |  |

1,8270D 09/25/13 20:17 PS Extraction Method: EPA 3546 Extraction Date: 09/24/13 18:30

| arameter                     | Result          | Qualifier   | Units     | RL    |        | MDL        |
|------------------------------|-----------------|-------------|-----------|-------|--------|------------|
| emivolatile Organics by GC/M | S - Westborough | h Lab for s | ample(s): | 01-10 | Batch: | WG638721-1 |
| Acenaphthene                 | ND              |             | ug/kg     | 130   |        | 34.        |
| Hexachlorobenzene            | ND              |             | ug/kg     | 100   |        | 31.        |
| Bis(2-chloroethyl)ether      | ND              |             | ug/kg     | 150   |        | 46.        |
| 2-Chloronaphthalene          | ND              |             | ug/kg     | 170   |        | 54.        |
| 3,3'-Dichlorobenzidine       | ND              |             | ug/kg     | 170   |        | 44.        |
| 2,4-Dinitrotoluene           | ND              |             | ug/kg     | 170   |        | 36.        |
| 2,6-Dinitrotoluene           | ND              |             | ug/kg     | 170   |        | 42.        |
| Fluoranthene                 | ND              |             | ug/kg     | 100   |        | 30.        |
| 4-Chlorophenyl phenyl ether  | ND              |             | ug/kg     | 170   |        | 50.        |
| 4-Bromophenyl phenyl ether   | ND              |             | ug/kg     | 170   |        | 38.        |
| Bis(2-chloroisopropyl)ether  | ND              |             | ug/kg     | 200   |        | 58.        |
| Bis(2-chloroethoxy)methane   | ND              |             | ug/kg     | 180   |        | 50.        |
| Hexachlorobutadiene          | ND              |             | ug/kg     | 170   |        | 47.        |
| Hexachlorocyclopentadiene    | ND              |             | ug/kg     | 480   |        | 110        |
| Hexachloroethane             | ND              |             | ug/kg     | 130   |        | 30.        |
| Isophorone                   | ND              |             | ug/kg     | 150   |        | 44.        |
| Naphthalene                  | ND              |             | ug/kg     | 170   |        | 55.        |
| Nitrobenzene                 | ND              |             | ug/kg     | 150   |        | 40.        |
| NDPA/DPA                     | ND              |             | ug/kg     | 130   |        | 35.        |
| n-Nitrosodi-n-propylamine    | ND              |             | ug/kg     | 170   |        | 50.        |
| Bis(2-ethylhexyl)phthalate   | ND              |             | ug/kg     | 170   |        | 44.        |
| Butyl benzyl phthalate       | ND              |             | ug/kg     | 170   |        | 32.        |
| Di-n-butylphthalate          | ND              |             | ug/kg     | 170   |        | 32.        |
| Di-n-octylphthalate          | ND              |             | ug/kg     | 170   |        | 41.        |
| Diethyl phthalate            | ND              |             | ug/kg     | 170   |        | 35.        |
| Dimethyl phthalate           | ND              |             | ug/kg     | 170   |        | 42.        |
| Benzo(a)anthracene           | ND              |             | ug/kg     | 100   |        | 32.        |
| Benzo(a)pyrene               | ND              |             | ug/kg     | 130   |        | 41.        |
| Benzo(b)fluoranthene         | ND              |             | ug/kg     | 100   |        | 34.        |
| Benzo(k)fluoranthene         | ND              |             | ug/kg     | 100   |        | 32.        |
| Chrysene                     | ND              |             | ug/kg     | 100   |        | 33.        |
|                              |                 |             |           |       |        |            |



| Project Name:   | 295 MARYLAND ST | Lab Number:  | L1318716 |
|-----------------|-----------------|--------------|----------|
| Project Number: | 0222-001-101    | Report Date: | 10/03/13 |
|                 |                 |              |          |

#### Method Blank Analysis Batch Quality Control

| Analytical Method: | 1,8 |
|--------------------|-----|
| Analytical Date:   | 09/ |
| Analyst:           | PS  |

1,8270D 09/25/13 20:17 PS Extraction Method: EPA 3546 Extraction Date: 09/24/13 18:30

| arameter                      | Result          | Qualifier | Units     | RL    |        | MDL        |
|-------------------------------|-----------------|-----------|-----------|-------|--------|------------|
| emivolatile Organics by GC/M  | S - Westborough | Lab for s | ample(s): | 01-10 | Batch: | WG638721-1 |
| Acenaphthylene                | ND              |           | ug/kg     | 130   |        | 31.        |
| Anthracene                    | ND              |           | ug/kg     | 100   |        | 28.        |
| Benzo(ghi)perylene            | ND              |           | ug/kg     | 130   |        | 34.        |
| Fluorene                      | ND              |           | ug/kg     | 170   |        | 48.        |
| Phenanthrene                  | ND              |           | ug/kg     | 100   |        | 32.        |
| Dibenzo(a,h)anthracene        | ND              |           | ug/kg     | 100   |        | 32.        |
| Indeno(1,2,3-cd)pyrene        | ND              |           | ug/kg     | 130   |        | 37.        |
| Pyrene                        | ND              |           | ug/kg     | 100   |        | 32.        |
| Biphenyl                      | ND              |           | ug/kg     | 380   |        | 55.        |
| 4-Chloroaniline               | ND              |           | ug/kg     | 170   |        | 44.        |
| 2-Nitroaniline                | ND              |           | ug/kg     | 170   |        | 47.        |
| 3-Nitroaniline                | ND              |           | ug/kg     | 170   |        | 46.        |
| 4-Nitroaniline                | ND              |           | ug/kg     | 170   |        | 45.        |
| Dibenzofuran                  | ND              |           | ug/kg     | 170   |        | 55.        |
| 2-Methylnaphthalene           | ND              |           | ug/kg     | 200   |        | 53.        |
| 1,2,4,5-Tetrachlorobenzene    | ND              |           | ug/kg     | 170   |        | 51.        |
| Acetophenone                  | ND              |           | ug/kg     | 170   |        | 51.        |
| 2,4,6-Trichlorophenol         | ND              |           | ug/kg     | 100   |        | 31.        |
| p-Chloro-m-cresol             | ND              |           | ug/kg     | 170   |        | 48.        |
| 2-Chlorophenol                | ND              |           | ug/kg     | 170   |        | 50.        |
| 2,4-Dichlorophenol            | ND              |           | ug/kg     | 150   |        | 54.        |
| 2,4-Dimethylphenol            | ND              |           | ug/kg     | 170   |        | 50.        |
| 2-Nitrophenol                 | ND              |           | ug/kg     | 360   |        | 52.        |
| 4-Nitrophenol                 | ND              |           | ug/kg     | 230   |        | 54.        |
| 2,4-Dinitrophenol             | ND              |           | ug/kg     | 800   |        | 230        |
| 4,6-Dinitro-o-cresol          | ND              |           | ug/kg     | 430   |        | 61.        |
| Pentachlorophenol             | ND              |           | ug/kg     | 130   |        | 36.        |
| Phenol                        | ND              |           | ug/kg     | 170   |        | 49.        |
| 2-Methylphenol                | ND              |           | ug/kg     | 170   |        | 53.        |
| 3-Methylphenol/4-Methylphenol | ND              |           | ug/kg     | 240   |        | 54.        |
| 2,4,5-Trichlorophenol         | ND              |           | ug/kg     | 170   |        | 54.        |
|                               |                 |           |           |       |        |            |



09/24/13 18:30

| Project Name:   | 295 MARYLAND ST |                       | Lab Number:  | L1318716 |
|-----------------|-----------------|-----------------------|--------------|----------|
| Project Number: | 0222-001-101    |                       | Report Date: | 10/03/13 |
|                 |                 | Mothod Blank Analysis |              |          |

#### Method Blank Analysis Batch Quality Control

| Analytical Method:<br>Analytical Date:<br>Analyst: | 1,8270D<br>09/25/13 20:17<br>PS | Extraction Method:<br>Extraction Date: | EPA 3546<br>09/24/13 18 |
|--|---------------------------------|--|-------------------------|
|--|---------------------------------|--|-------------------------|

| arameter                      | Result Qualifier      | r Units        | RL         | MDL               |
|-------------------------------|-----------------------|----------------|------------|-------------------|
| emivolatile Organics by GC/MS | - Westborough Lab for | sample(s):     | 01-10      | Batch: WG638721-1 |
| Carbazole                     | ND                    | ug/kg          | 170        | 36.               |
|                               |                       |                |            |                   |
| Benzaldehyde                  | ND                    | ug/kg          | 220        | 67.               |
| Benzaldehyde<br>Caprolactam   | ND<br>ND              | ug/kg<br>ug/kg | 220<br>170 | 67.<br>46.        |
|                               |                       |                |            |                   |

| Surrogate            | %Recovery | Acceptance<br>Qualifier Criteria |
|----------------------|-----------|----------------------------------|
| 2-Fluorophenol       | 75        | 25-120                           |
| Phenol-d6            | 73        | 10-120                           |
| Nitrobenzene-d5      | 75        | 23-120                           |
| 2-Fluorobiphenyl     | 72        | 30-120                           |
| 2,4,6-Tribromophenol | 70        | 0-136                            |
| 4-Terphenyl-d14      | 80        | 18-120                           |



### Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 MARYLAND ST

**Project Number:** 0222-001-101

Lab Number: L1318716 Report Date: 10/03/13

LCSD LCS %Recovery RPD %Recovery RPD %Recovery Limits Limits Parameter Qual Qual Qual Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG638721-2 WG638721-3 79 31-137 Acenaphthene 75 5 50 Benzidine 27 20 30 50 n-Nitrosodimethylamine 50 71 74 4 1,2,4-Trichlorobenzene 67 70 38-107 4 50 Hexachlorobenzene 82 40-140 2 50 80 Bis(2-chloroethyl)ether 50 70 73 40-140 4 2-Chloronaphthalene 77 80 40-140 4 50 1.2-Dichlorobenzene 71 40-140 50 68 4 40-140 50 1.3-Dichlorobenzene 68 71 4 28-104 50 1,4-Dichlorobenzene 68 70 3 3.3'-Dichlorobenzidine 40-140 50 62 59 5 2,4-Dinitrotoluene 87 88 28-89 1 50 2.6-Dinitrotoluene 40-140 50 88 91 3 40-140 50 Fluoranthene 86 86 0 4-Chlorophenyl phenyl ether 40-140 50 76 80 5 4-Bromophenyl phenyl ether 84 40-140 50 80 5 Azobenzene 86 89 40-140 3 50 Bis(2-chloroisopropyl)ether 72 75 40-140 4 50 Bis(2-chloroethoxy)methane 50 74 77 40-117 4 Hexachlorobutadiene 69 40-140 50 65 6 Hexachlorocyclopentadiene 73 40-140 50 71 3



### Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 MARYLAND ST

**Project Number:** 0222-001-101

Lab Number: L1318716 Report Date: 10/03/13

LCSD LCS %Recovery RPD %Recovery Limits RPD %Recovery Qual Limits Parameter Qual Qual Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG638721-2 WG638721-3 Hexachloroethane 66 71 40-140 50 7 Isophorone 76 79 40-140 50 4 Naphthalene 73 40-140 50 72 1 50 Nitrobenzene 70 71 40-140 1 NDPA/DPA 82 85 50 4 n-Nitrosodi-n-propylamine 32-121 50 74 77 4 Bis(2-ethylhexyl)phthalate 98 101 40-140 3 50 Butyl benzyl phthalate 93 93 40-140 0 50 Di-n-butylphthalate 92 40-140 50 90 2 Di-n-octylphthalate 40-140 50 101 103 2 Diethyl phthalate 87 40-140 50 85 2 Dimethyl phthalate 81 84 40-140 4 50 Benzo(a)anthracene 87 40-140 50 87 0 Benzo(a)pyrene 87 40-140 50 84 4 Benzo(b)fluoranthene 80 40-140 50 78 3 Benzo(k)fluoranthene 94 40-140 50 91 3 Chrysene 86 90 40-140 5 50 Acenaphthylene 80 84 40-140 5 50 Anthracene 40-140 50 85 88 3 Benzo(ghi)perylene 82 40-140 50 82 0 Fluorene 80 83 40-140 50 4



### Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 MARYLAND ST

**Project Number:** 0222-001-101

Lab Number: L1318716 Report Date: 10/03/13

LCSD LCS %Recovery RPD %Recovery Limits RPD %Recovery Qual Limits Parameter Qual Qual Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG638721-2 WG638721-3 Phenanthrene 83 85 40-140 2 50 Dibenzo(a,h)anthracene 84 85 40-140 50 1 Indeno(1,2,3-cd)pyrene 80 40-140 50 79 1 50 Pyrene 85 86 35-142 1 Biphenyl 86 50 83 4 Aniline 40-140 50 53 53 0 4-Chloroaniline 60 63 40-140 5 50 2-Nitroaniline 91 95 47-134 50 4 3-Nitroaniline 26-129 50 48 44 9 4-Nitroaniline 41-125 50 79 83 5 Dibenzofuran 82 40-140 50 78 5 2-Methylnaphthalene 72 75 40-140 4 50 1,2,4,5-Tetrachlorobenzene 81 40-117 50 79 3 14-144 50 Acetophenone 81 83 2 2,4,6-Trichlorophenol 30-130 50 83 89 7 p-Chloro-m-cresol 94 26-103 50 90 4 2-Chlorophenol 72 76 25-102 5 50 2,4-Dichlorophenol 76 81 30-130 6 50 2,4-Dimethylphenol 30-130 50 80 84 5 2-Nitrophenol 30-130 50 74 78 5 4-Nitrophenol 98 102 11-114 50 4



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 295 MARYLAND ST

Project Number: 0222-001-101 Lab Number: L1318716 Report Date: 10/03/13

| Parameter                                 | LCS<br>%Recovery | Qual           | LCSD<br>%Recovery | %Recovery<br>Qual Limits | RPD  | RPD<br>Qual Limits |  |
|---|------------------|----------------|-------------------|--------------------------|------|--------------------|--|
| Semivolatile Organics by GC/MS - Westboro | ugh Lab Associ   | ated sample(s) | : 01-10 Batch     | : WG638721-2 WG6387      | 21-3 |                    |  |
| 2,4-Dinitrophenol                         | 76               |                | 81                | 4-130                    | 6    | 50                 |  |
| 4,6-Dinitro-o-cresol                      | 82               |                | 85                | 10-130                   | 4    | 50                 |  |
| Pentachlorophenol                         | 78               |                | 82                | 17-109                   | 5    | 50                 |  |
| Phenol                                    | 76               |                | 79                | 26-90                    | 4    | 50                 |  |
| 2-Methylphenol                            | 76               |                | 80                | 30-130.                  | 5    | 50                 |  |
| 3-Methylphenol/4-Methylphenol             | 82               |                | 86                | 30-130                   | 5    | 50                 |  |
| 2,4,5-Trichlorophenol                     | 89               |                | 91                | 30-130                   | 2    | 50                 |  |
| Benzoic Acid                              | 38               |                | 40                |                          | 5    | 50                 |  |
| Benzyl Alcohol                            | 76               |                | 79                | 40-140                   | 4    | 50                 |  |
| Carbazole                                 | 86               |                | 88                | 54-128                   | 2    | 50                 |  |
| Benzaldehyde                              | 82               |                | 86                |                          | 5    | 50                 |  |
| Caprolactam                               | 97               |                | 101               |                          | 4    | 50                 |  |
| Atrazine                                  | 101              |                | 104               |                          | 3    | 50                 |  |
| 2,3,4,6-Tetrachlorophenol                 | 86               |                | 92                |                          | 7    | 50                 |  |
| Pyridine                                  | 58               |                | 57                | 10-93                    | 2    | 50                 |  |
| Parathion, ethyl                          | 118              |                | 122               | 40-140                   | 3    | 50                 |  |



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 295 MARYLAND ST

Project Number: 0222-001-101 Lab Number: L1318716

**Report Date:** 10/03/13

| Parameter                                 | LCS<br>%Recovery | Qual          | LCSD<br>%Recovery | Qual    | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |  |
|---|------------------|---------------|-------------------|---------|---------------------|-----|------|---------------|--|
| Semivolatile Organics by GC/MS - Westbord | ugh Lab Associa  | ted sample(s) | : 01-10 Batch     | WG63872 | 21-2 WG638721-3     | 5   |      |               |  |

| LCS<br>%Recovery | LCSD<br>Qual %Recovery                  | y Qual   | Acceptance<br>Criteria  |  |
|------------------|---|--|---|--|
| 76               | 78                                      |  | 25-120  |  |
| 77               | 79                                      |  | 10-120  |  |
| 75               | 77                                      |  | 23-120  |  |
| 79               | 81                                      |  | 30-120  |  |
| 87               | 90                                      |  | 0-136   |  |
| 85               | 86                                      |  | 18-120  |  |
|                  | %Recovery<br>76<br>77<br>75<br>79<br>87 | %Recovery         Qual         %Recovery           76         78           77         79           75         77           79         81           87         90 | %Recovery         Qual         %Recovery         Qual           76         78         78           77         79         79           75         77         79           79         81         87           87         90         1 | %Recovery         Qual         %Recovery         Qual         Criteria           76         78         25-120           77         79         10-120           75         77         23-120           79         81         30-120           87         90         0-136 |



# PCBS



|                    |                 |                | Serial_No:         | 10031311:13    |
|--------------------|-----------------|----------------|--------------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:        | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:       | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                    |                |
| Lab ID:            | L1318716-01     |                | Date Collected:    | 09/18/13 16:30 |
| Client ID:         | TP-4-13 (0-3')  |                | Date Received:     | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:        | Not Specified  |
| Matrix:            | Soil            |                | Extraction Method: | EPA 3546       |
| Analytical Method: | 1,8082A         |                | Extraction Date:   | 09/23/13 16:55 |
| Analytical Date:   | 09/25/13 21:29  |                | Cleanup Method1:   | EPA 3665A      |
| Analyst:           | JW              |                | Cleanup Date1:     | 09/25/13       |
| Percent Solids:    | 86%             |                | Cleanup Method2:   | EPA 3660B      |
|                    |                 |                | Cleanup Date2:     | 09/25/13       |

| Parameter   | Result | Qualifier | Units | RL   | MDL  | <b>Dilution Factor</b> | Column |  |  |
|---|--------|-----------|-------|------|------|------------------------|--------|--|--|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                        |        |  |  |
|   |        |           |       |      |      | _                      |        |  |  |
| Aroclor 1016                                      | ND     |           | ug/kg | 36.6 | 7.24 | 1                      | A      |  |  |
| Aroclor 1221                                      | ND     |           | ug/kg | 36.6 | 11.0 | 1                      | А      |  |  |
| Aroclor 1232                                      | ND     |           | ug/kg | 36.6 | 7.78 | 1                      | А      |  |  |
| Aroclor 1242                                      | ND     |           | ug/kg | 36.6 | 6.95 | 1                      | А      |  |  |
| Aroclor 1248                                      | ND     |           | ug/kg | 36.6 | 4.43 | 1                      | А      |  |  |
| Aroclor 1254                                      | ND     |           | ug/kg | 36.6 | 5.78 | 1                      | А      |  |  |
| Aroclor 1260                                      | ND     |           | ug/kg | 36.6 | 6.36 | 1                      | А      |  |  |
| Aroclor 1262                                      | ND     |           | ug/kg | 36.6 | 2.71 | 1                      | А      |  |  |
| Aroclor 1268                                      | ND     |           | ug/kg | 36.6 | 5.31 | 1                      | А      |  |  |
|   |        |           |       |      |      |                        |        |  |  |

| Surrogate                    | % Recovery | Qualifier | Acceptance<br>Criteria | Column |
|------------------------------|------------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 77         |           | 30-150                 | А      |
| Decachlorobiphenyl           | 70         |           | 30-150                 | А      |
| 2,4,5,6-Tetrachloro-m-xylene | 75         |           | 30-150                 | В      |
| Decachlorobiphenyl           | 87         |           | 30-150                 | В      |



|                    |                 |                | Serial_No:         | 10031311:13    |
|--------------------|-----------------|----------------|--------------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:        | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:       | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                    |                |
| Lab ID:            | L1318716-02     |                | Date Collected:    | 09/18/13 11:50 |
| Client ID:         | TP-5-13 (0-3')  |                | Date Received:     | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:        | Not Specified  |
| Matrix:            | Soil            |                | Extraction Method: | EPA 3546       |
| Analytical Method: | 1,8082A         |                | Extraction Date:   | 09/23/13 16:55 |
| Analytical Date:   | 09/25/13 21:42  |                | Cleanup Method1:   | EPA 3665A      |
| Analyst:           | JW              |                | Cleanup Date1:     | 09/25/13       |
| Percent Solids:    | 86%             |                | Cleanup Method2:   | EPA 3660B      |
|                    |                 |                | Cleanup Date2:     | 09/25/13       |

| Parameter   | Result | Qualifier | Units | RL   | MDL  | <b>Dilution Factor</b> | Column |  |  |  |
|---|--------|-----------|-------|------|------|------------------------|--------|--|--|--|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                        |        |  |  |  |
| Annual 10 4040                                    |        |           |       | 00.0 | 7.00 | _                      |        |  |  |  |
| Aroclor 1016                                      | ND     |           | ug/kg | 36.6 | 7.23 | 1                      | A      |  |  |  |
| Aroclor 1221                                      | ND     |           | ug/kg | 36.6 | 11.0 | 1                      | А      |  |  |  |
| Aroclor 1232                                      | ND     |           | ug/kg | 36.6 | 7.78 | 1                      | А      |  |  |  |
| Aroclor 1242                                      | ND     |           | ug/kg | 36.6 | 6.95 | 1                      | А      |  |  |  |
| Aroclor 1248                                      | ND     |           | ug/kg | 36.6 | 4.43 | 1                      | А      |  |  |  |
| Aroclor 1254                                      | ND     |           | ug/kg | 36.6 | 5.77 | 1                      | А      |  |  |  |
| Aroclor 1260                                      | ND     |           | ug/kg | 36.6 | 6.36 | 1                      | А      |  |  |  |
| Aroclor 1262                                      | ND     |           | ug/kg | 36.6 | 2.71 | 1                      | А      |  |  |  |
| Aroclor 1268                                      | ND     |           | ug/kg | 36.6 | 5.31 | 1                      | А      |  |  |  |

| Surrogate                    | % Recovery | Qualifier | Acceptance<br>Criteria | Column |
|------------------------------|------------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 74         |           | 30-150                 | A      |
| Decachlorobiphenyl           | 67         |           | 30-150                 | А      |
| 2,4,5,6-Tetrachloro-m-xylene | 74         |           | 30-150                 | В      |
| Decachlorobiphenyl           | 75         |           | 30-150                 | В      |



|                    |                 |                | Serial_No:10031311:13 |                |  |
|--------------------|-----------------|----------------|-----------------------|----------------|--|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:           | L1318716       |  |
| Project Number:    | 0222-001-101    |                | Report Date:          | 10/03/13       |  |
|                    |                 | SAMPLE RESULTS |                       |                |  |
| Lab ID:            | L1318716-04     |                | Date Collected:       | 09/19/13 08:40 |  |
| Client ID:         | TP-7-13 (0-3')  |                | Date Received:        | 09/20/13       |  |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:           | Not Specified  |  |
| Matrix:            | Soil            |                | Extraction Method:    | EPA 3546       |  |
| Analytical Method: | 1,8082A         |                | Extraction Date:      | 09/23/13 16:55 |  |
| Analytical Date:   | 09/25/13 21:54  |                | Cleanup Method1:      | EPA 3665A      |  |
| Analyst:           | JW              |                | Cleanup Date1:        | 09/25/13       |  |
| Percent Solids:    | 87%             |                | Cleanup Method2:      | EPA 3660B      |  |
|                    |                 |                | Cleanup Date2:        | 09/25/13       |  |

| Aroclor 1221         ND         ug/kg         37.4         11.3         1         A           Aroclor 1232         ND         ug/kg         37.4         7.94         1         A           Aroclor 1242         ND         ug/kg         37.4         7.10         1         A           Aroclor 1242         ND         ug/kg         37.4         7.10         1         A           Aroclor 1248         ND         ug/kg         37.4         4.52         1         A           Aroclor 1254         ND         ug/kg         37.4         5.89         1         A           Aroclor 1260         ND         ug/kg         37.4         6.49         1         A | Parameter   | Result | Qualifier | Units | RL   | MDL  | <b>Dilution Factor</b> | Column |  |  |
|---|---|--------|-----------|-------|------|------|------------------------|--------|--|--|
| Aroclor 1221         ND         ug/kg         37.4         11.3         1         A           Aroclor 1232         ND         ug/kg         37.4         7.94         1         A           Aroclor 1242         ND         ug/kg         37.4         7.10         1         A           Aroclor 1242         ND         ug/kg         37.4         7.10         1         A           Aroclor 1248         ND         ug/kg         37.4         4.52         1         A           Aroclor 1254         ND         ug/kg         37.4         5.89         1         A           Aroclor 1260         ND         ug/kg         37.4         6.49         1         A | Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                        |        |  |  |
| Aroclor 1221         ND         ug/kg         37.4         11.3         1         A           Aroclor 1232         ND         ug/kg         37.4         7.94         1         A           Aroclor 1242         ND         ug/kg         37.4         7.10         1         A           Aroclor 1242         ND         ug/kg         37.4         7.10         1         A           Aroclor 1248         ND         ug/kg         37.4         4.52         1         A           Aroclor 1254         ND         ug/kg         37.4         5.89         1         A           Aroclor 1260         ND         ug/kg         37.4         6.49         1         A |   |        |           |       |      |      | _                      |        |  |  |
| Aroclor 1232         ND         ug/kg         37.4         7.94         1         A           Aroclor 1242         ND         ug/kg         37.4         7.10         1         A           Aroclor 1248         ND         ug/kg         37.4         4.52         1         A           Aroclor 1254         ND         ug/kg         37.4         5.89         1         A           Aroclor 1260         ND         ug/kg         37.4         6.49         1         A   | Aroclor 1016                                      | ND     |           | ug/kg | 37.4 | 7.38 | 1                      | A      |  |  |
| Aroclor 1242         ND         ug/kg         37.4         7.10         1         A           Aroclor 1248         ND         ug/kg         37.4         4.52         1         A           Aroclor 1254         ND         ug/kg         37.4         5.89         1         A           Aroclor 1260         ND         ug/kg         37.4         6.49         1         A   | Aroclor 1221                                      | ND     |           | ug/kg | 37.4 | 11.3 | 1                      | А      |  |  |
| Aroclor 1248         ND         ug/kg         37.4         4.52         1         A           Aroclor 1254         ND         ug/kg         37.4         5.89         1         A           Aroclor 1260         ND         ug/kg         37.4         6.49         1         A   | Aroclor 1232                                      | ND     |           | ug/kg | 37.4 | 7.94 | 1                      | А      |  |  |
| Aroclor 1254         ND         ug/kg         37.4         5.89         1         A           Aroclor 1260         ND         ug/kg         37.4         6.49         1         A   | Aroclor 1242                                      | ND     |           | ug/kg | 37.4 | 7.10 | 1                      | А      |  |  |
| Aroclor 1260         ND         ug/kg         37.4         6.49         1         A   | Aroclor 1248                                      | ND     |           | ug/kg | 37.4 | 4.52 | 1                      | А      |  |  |
|   | Aroclor 1254                                      | ND     |           | ug/kg | 37.4 | 5.89 | 1                      | А      |  |  |
| Aroclor 1262 ND ug/kg 37.4 2.76 1 A   | Aroclor 1260                                      | ND     |           | ug/kg | 37.4 | 6.49 | 1                      | А      |  |  |
|   | Aroclor 1262                                      | ND     |           | ug/kg | 37.4 | 2.76 | 1                      | А      |  |  |
| Aroclor 1268         ND         ug/kg         37.4         5.42         1         A   | Aroclor 1268                                      | ND     |           | ug/kg | 37.4 | 5.42 | 1                      | А      |  |  |

| Surrogate                    | % Recovery | Qualifier | Acceptance<br>Criteria | Column |
|------------------------------|------------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 68         |           | 30-150                 | А      |
| Decachlorobiphenyl           | 74         |           | 30-150                 | А      |
| 2,4,5,6-Tetrachloro-m-xylene | 69         |           | 30-150                 | В      |
| Decachlorobiphenyl           | 95         |           | 30-150                 | В      |



|                    |                 |                | Serial_No:10031311:13 |                |  |
|--------------------|-----------------|----------------|-----------------------|----------------|--|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:           | L1318716       |  |
| Project Number:    | 0222-001-101    |                | Report Date:          | 10/03/13       |  |
|                    |                 | SAMPLE RESULTS |                       |                |  |
| Lab ID:            | L1318716-07     |                | Date Collected:       | 09/19/13 14:15 |  |
| Client ID:         | TP-22-13 (6-8') |                | Date Received:        | 09/20/13       |  |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:           | Not Specified  |  |
| Matrix:            | Soil            |                | Extraction Method:    | EPA 3546       |  |
| Analytical Method: | 1,8082A         |                | Extraction Date:      | 09/23/13 16:55 |  |
| Analytical Date:   | 09/25/13 22:06  |                | Cleanup Method1:      | EPA 3665A      |  |
| Analyst:           | JW              |                | Cleanup Date1:        | 09/25/13       |  |
| Percent Solids:    | 86%             |                | Cleanup Method2:      | EPA 3660B      |  |
|                    |                 |                | Cleanup Date2:        | 09/25/13       |  |

| Parameter   | Result | Qualifier | Units | RL   | MDL  | <b>Dilution Factor</b> | Column |  |  |  |
|---|--------|-----------|-------|------|------|------------------------|--------|--|--|--|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                        |        |  |  |  |
| Aroclor 1016                                      | ND     |           | ug/kg | 37.3 | 7.36 | 1                      | А      |  |  |  |
|   |        |           | ug/kg |      |      |                        |        |  |  |  |
| Aroclor 1221                                      | ND     |           | ug/kg | 37.3 | 11.2 | 1                      | A      |  |  |  |
| Aroclor 1232                                      | ND     |           | ug/kg | 37.3 | 7.92 | 1                      | A      |  |  |  |
| Aroclor 1242                                      | ND     |           | ug/kg | 37.3 | 7.07 | 1                      | А      |  |  |  |
| Aroclor 1248                                      | ND     |           | ug/kg | 37.3 | 4.51 | 1                      | А      |  |  |  |
| Aroclor 1254                                      | ND     |           | ug/kg | 37.3 | 5.88 | 1                      | А      |  |  |  |
| Aroclor 1260                                      | ND     |           | ug/kg | 37.3 | 6.47 | 1                      | А      |  |  |  |
| Aroclor 1262                                      | ND     |           | ug/kg | 37.3 | 2.76 | 1                      | А      |  |  |  |
| Aroclor 1268                                      | ND     |           | ug/kg | 37.3 | 5.41 | 1                      | А      |  |  |  |

| Surrogate                    | % Recovery | Qualifier | Acceptance<br>Criteria | Column |
|------------------------------|------------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 75         |           | 30-150                 | А      |
| Decachlorobiphenyl           | 73         |           | 30-150                 | А      |
| 2,4,5,6-Tetrachloro-m-xylene | 75         |           | 30-150                 | В      |
| Decachlorobiphenyl           | 77         |           | 30-150                 | В      |



|                    |                   |                | Serial_No:10031311:13 |                |  |
|--------------------|-------------------|----------------|-----------------------|----------------|--|
| Project Name:      | 295 MARYLAND ST   |                | Lab Number:           | L1318716       |  |
| Project Number:    | 0222-001-101      |                | Report Date:          | 10/03/13       |  |
|                    |                   | SAMPLE RESULTS |                       |                |  |
| Lab ID:            | L1318716-08       |                | Date Collected:       | 09/19/13 15:30 |  |
| Client ID:         | TP-23-13 (0.5-3') |                | Date Received:        | 09/20/13       |  |
| Sample Location:   | 295 MARYLAND ST   |                | Field Prep:           | Not Specified  |  |
| Matrix:            | Soil              |                | Extraction Method:    | EPA 3546       |  |
| Analytical Method: | 1,8082A           |                | Extraction Date:      | 09/23/13 16:55 |  |
| Analytical Date:   | 09/25/13 22:19    |                | Cleanup Method1:      | EPA 3665A      |  |
| Analyst:           | JW                |                | Cleanup Date1:        | 09/25/13       |  |
| Percent Solids:    | 87%               |                | Cleanup Method2:      | EPA 3660B      |  |
|                    |                   |                | Cleanup Date2:        | 09/25/13       |  |

| Parameter   | Result | Qualifier | Units | RL   | MDL  | <b>Dilution Factor</b> | Column |  |  |
|---|--------|-----------|-------|------|------|------------------------|--------|--|--|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                        |        |  |  |
|   |        |           |       |      |      |                        |        |  |  |
| Aroclor 1016                                      | ND     |           | ug/kg | 36.6 | 7.23 | 1                      | A      |  |  |
| Aroclor 1221                                      | ND     |           | ug/kg | 36.6 | 11.0 | 1                      | А      |  |  |
| Aroclor 1232                                      | ND     |           | ug/kg | 36.6 | 7.77 | 1                      | А      |  |  |
| Aroclor 1242                                      | ND     |           | ug/kg | 36.6 | 6.94 | 1                      | А      |  |  |
| Aroclor 1248                                      | ND     |           | ug/kg | 36.6 | 4.43 | 1                      | А      |  |  |
| Aroclor 1254                                      | ND     |           | ug/kg | 36.6 | 5.77 | 1                      | А      |  |  |
| Aroclor 1260                                      | ND     |           | ug/kg | 36.6 | 6.35 | 1                      | А      |  |  |
| Aroclor 1262                                      | ND     |           | ug/kg | 36.6 | 2.71 | 1                      | А      |  |  |
| Aroclor 1268                                      | ND     |           | ug/kg | 36.6 | 5.31 | 1                      | А      |  |  |
|   |        |           |       |      |      |                        |        |  |  |

| % Recovery | Qualifier      | Acceptance<br>Criteria | Column  |
|------------|----------------|------------------------|---|
| 73         |                | 30-150                 | А   |
| 71         |                | 30-150                 | А   |
| 70         |                | 30-150                 | В   |
| 89         |                | 30-150                 | В   |
|            | 73<br>71<br>70 | 73<br>71<br>70         | % Recovery         Qualifier         Criteria           73         30-150           71         30-150           70         30-150 |



|                    |                   |                | Serial_No:10031311:13 |                |  |  |
|--------------------|-------------------|----------------|-----------------------|----------------|--|--|
| Project Name:      | 295 MARYLAND ST   |                | Lab Number:           | L1318716       |  |  |
| Project Number:    | 0222-001-101      |                | Report Date:          | 10/03/13       |  |  |
|                    |                   | SAMPLE RESULTS |                       |                |  |  |
| Lab ID:            | L1318716-09       |                | Date Collected:       | 09/19/13 17:00 |  |  |
| Client ID:         | TP-24-13 (0.5-4') |                | Date Received:        | 09/20/13       |  |  |
| Sample Location:   | 295 MARYLAND ST   |                | Field Prep:           | Not Specified  |  |  |
| Matrix:            | Soil              |                | Extraction Method:    | EPA 3546       |  |  |
| Analytical Method: | 1,8082A           |                | Extraction Date:      | 09/23/13 16:55 |  |  |
| Analytical Date:   | 09/25/13 22:31    |                | Cleanup Method1:      | EPA 3665A      |  |  |
| Analyst:           | JW                |                | Cleanup Date1:        | 09/25/13       |  |  |
| Percent Solids:    | 88%               |                | Cleanup Method2:      | EPA 3660B      |  |  |
|                    |                   |                | Cleanup Date2:        | 09/25/13       |  |  |

| Parameter   | Result | Qualifier | Units | RL   | MDL  | <b>Dilution Factor</b> | Column |  |  |
|---|--------|-----------|-------|------|------|------------------------|--------|--|--|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                        |        |  |  |
|   |        |           |       |      |      |                        |        |  |  |
| Aroclor 1016                                      | ND     |           | ug/kg | 36.4 | 7.19 | 1                      | A      |  |  |
| Aroclor 1221                                      | ND     |           | ug/kg | 36.4 | 11.0 | 1                      | А      |  |  |
| Aroclor 1232                                      | ND     |           | ug/kg | 36.4 | 7.74 | 1                      | А      |  |  |
| Aroclor 1242                                      | ND     |           | ug/kg | 36.4 | 6.91 | 1                      | А      |  |  |
| Aroclor 1248                                      | ND     |           | ug/kg | 36.4 | 4.41 | 1                      | А      |  |  |
| Aroclor 1254                                      | ND     |           | ug/kg | 36.4 | 5.74 | 1                      | А      |  |  |
| Aroclor 1260                                      | ND     |           | ug/kg | 36.4 | 6.32 | 1                      | А      |  |  |
| Aroclor 1262                                      | ND     |           | ug/kg | 36.4 | 2.69 | 1                      | А      |  |  |
| Aroclor 1268                                      | ND     |           | ug/kg | 36.4 | 5.28 | 1                      | А      |  |  |

| Surrogate                    | % Recovery | Qualifier | Acceptance<br>Criteria | Column |
|------------------------------|------------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 74         |           | 30-150                 | А      |
| Decachlorobiphenyl           | 76         |           | 30-150                 | А      |
| 2,4,5,6-Tetrachloro-m-xylene | 75         |           | 30-150                 | В      |
| Decachlorobiphenyl           | 87         |           | 30-150                 | В      |



|                    |                   |                | Serial_No:10031311:13 |                |  |
|--------------------|-------------------|----------------|-----------------------|----------------|--|
| Project Name:      | 295 MARYLAND ST   |                | Lab Number:           | L1318716       |  |
| Project Number:    | 0222-001-101      |                | Report Date:          | 10/03/13       |  |
|                    |                   | SAMPLE RESULTS |                       |                |  |
| Lab ID:            | L1318716-10       |                | Date Collected:       | 09/20/13 11:30 |  |
| Client ID:         | TP-25-13 (0.5-4') |                | Date Received:        | 09/20/13       |  |
| Sample Location:   | 295 MARYLAND ST   |                | Field Prep:           | Not Specified  |  |
| Matrix:            | Soil              |                | Extraction Method:    | EPA 3546       |  |
| Analytical Method: | 1,8082A           |                | Extraction Date:      | 09/23/13 16:55 |  |
| Analytical Date:   | 09/25/13 22:43    |                | Cleanup Method1:      | EPA 3665A      |  |
| Analyst:           | JW                |                | Cleanup Date1:        | 09/25/13       |  |
| Percent Solids:    | 86%               |                | Cleanup Method2:      | EPA 3660B      |  |
|                    |                   |                | Cleanup Date2:        | 09/25/13       |  |

| Parameter   | Result | Qualifier | Units | RL   | MDL  | <b>Dilution Factor</b> | Column |  |
|---|--------|-----------|-------|------|------|------------------------|--------|--|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                        |        |  |
|   |        |           |       |      |      |                        |        |  |
| Aroclor 1016                                      | ND     |           | ug/kg | 36.7 | 7.25 | 1                      | A      |  |
| Aroclor 1221                                      | ND     |           | ug/kg | 36.7 | 11.1 | 1                      | А      |  |
| Aroclor 1232                                      | ND     |           | ug/kg | 36.7 | 7.79 | 1                      | А      |  |
| Aroclor 1242                                      | ND     |           | ug/kg | 36.7 | 6.96 | 1                      | А      |  |
| Aroclor 1248                                      | ND     |           | ug/kg | 36.7 | 4.44 | 1                      | А      |  |
| Aroclor 1254                                      | ND     |           | ug/kg | 36.7 | 5.78 | 1                      | А      |  |
| Aroclor 1260                                      | ND     |           | ug/kg | 36.7 | 6.37 | 1                      | А      |  |
| Aroclor 1262                                      | ND     |           | ug/kg | 36.7 | 2.71 | 1                      | А      |  |
| Aroclor 1268                                      | ND     |           | ug/kg | 36.7 | 5.32 | 1                      | А      |  |
|   |        |           |       |      |      |                        |        |  |

| Surrogate                    | % Recovery | Acceptance<br>Criteria | e<br>Column |   |
|------------------------------|------------|------------------------|-------------|---|
| 2,4,5,6-Tetrachloro-m-xylene | 70         |                        | 30-150      | A |
| Decachlorobiphenyl           | 69         |                        | 30-150      | А |
| 2,4,5,6-Tetrachloro-m-xylene | 66         |                        | 30-150      | В |
| Decachlorobiphenyl           | 80         |                        | 30-150      | В |



L1318716

10/03/13

Lab Number:

**Report Date:** 

09/25/13

# Project Name:295 MARYLAND STProject Number:0222-001-101

### Method Blank Analysis Batch Quality Control

| Analytical Method: | 1,8  |
|--------------------|------|
| Analytical Date:   | 09/2 |
| Analyst:           | JW   |

1,8082A )9/25/13 18:49 JW

| Extraction Method: | EPA 3546       |
|--------------------|----------------|
| Extraction Date:   | 09/23/13 16:55 |
| Cleanup Method1:   | EPA 3665A      |
| Cleanup Date1:     | 09/25/13       |
| Cleanup Method2:   | EPA 3660B      |
| Cleanup Date2:     | 09/25/13       |

| Parameter                                    | Result     | Qualifier   | Units     | RL             | MDL    | Column |
|--|------------|-------------|-----------|----------------|--------|--------|
| Polychlorinated Biphenyls by GC - WG638357-1 | Westboroug | h Lab for s | ample(s): | 01-02,04,07-10 | Batch: |        |
| Aroclor 1016                                 | ND         |             | ug/kg     | 32.5           | 6.42   | А      |
| Aroclor 1221                                 | ND         |             | ug/kg     | 32.5           | 9.81   | А      |
| Aroclor 1232                                 | ND         |             | ug/kg     | 32.5           | 6.91   | А      |
| Aroclor 1242                                 | ND         |             | ug/kg     | 32.5           | 6.17   | А      |
| Aroclor 1248                                 | ND         |             | ug/kg     | 32.5           | 3.94   | А      |
| Aroclor 1254                                 | ND         |             | ug/kg     | 32.5           | 5.13   | А      |
| Aroclor 1260                                 | ND         |             | ug/kg     | 32.5           | 5.65   | А      |
| Aroclor 1262                                 | ND         |             | ug/kg     | 32.5           | 2.40   | А      |
| Aroclor 1268                                 | ND         |             | ug/kg     | 32.5           | 4.72   | А      |

|                              |           |           | Acceptance | •      |
|------------------------------|-----------|-----------|------------|--------|
| Surrogate                    | %Recovery | Qualifier | Criteria   | Column |
|                              | 70        |           | 00.450     |        |
| 2,4,5,6-Tetrachloro-m-xylene | 72        |           | 30-150     | A      |
| Decachlorobiphenyl           | 69        |           | 30-150     | А      |
| 2,4,5,6-Tetrachloro-m-xylene | 71        |           | 30-150     | В      |
| Decachlorobiphenyl           | 72        |           | 30-150     | В      |



**Project Name:** 295 MARYLAND ST

Project Number: 0222-001-101

| Parameter    |                             | LCS<br>%Recoverv | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|--------------|-----------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
|              | Biphenyls by GC - Westborou |                  |      | 01-02,04,07-10    |      |                     |     |      |               |        |
| Aroclor 1016 |                             | 70               | ,    | 73                |      | 40-140              | 4   |      | 50            | A      |
| Aroclor 1260 |                             | 66               |      | 69                |      | 40-140              | 4   |      | 50            | А      |

|                              | LCS       |      | LCSD      |      | Acceptance |        |
|------------------------------|-----------|------|-----------|------|------------|--------|
| Surrogate                    | %Recovery | Qual | %Recovery | Qual | Criteria   | Column |
| 2,4,5,6-Tetrachloro-m-xylene | 74        |      | 71        |      | 30-150     | А      |
| Decachlorobiphenyl           | 65        |      | 68        |      | 30-150     | А      |
| 2,4,5,6-Tetrachloro-m-xylene | 75        |      | 71        |      | 30-150     | В      |
| Decachlorobiphenyl           | 71        |      | 72        |      | 30-150     | В      |



## PESTICIDES



|  |  |                | Serial_No:   | 10031311:13   |
|--|--|----------------|--|---|
| Project Name:  | 295 MARYLAND ST                                  |                | Lab Number:  | L1318716  |
| Project Number:  | 0222-001-101                                     |                | Report Date:   | 10/03/13  |
|  |  | SAMPLE RESULTS |  |   |
| Lab ID:<br>Client ID:<br>Sample Location:  | L1318716-01<br>TP-4-13 (0-3')<br>295 MARYLAND ST |                | Date Collected:<br>Date Received:<br>Field Prep:                             | 09/18/13 16:30<br>09/20/13<br>Not Specified         |
| Matrix:<br>Analytical Method:<br>Analytical Date:<br>Analyst:<br>Percent Solids: | Soil<br>1,8081B<br>09/26/13 16:43<br>SH<br>86%   |                | Extraction Method:<br>Extraction Date:<br>Cleanup Method1:<br>Cleanup Date1: | EPA 3546<br>09/25/13 11:22<br>EPA 3620B<br>09/26/13 |

| Parameter   | Result | Qualifier | Units | RL    | MDL   | <b>Dilution Factor</b> | Column |  |  |
|---|--------|-----------|-------|-------|-------|------------------------|--------|--|--|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                        |        |  |  |
| Delta-BHC   | ND     |           | ug/kg | 1.81  | 0.355 | 1                      | А      |  |  |
| Lindane   | ND     |           | ug/kg | 0.756 | 0.338 | 1                      | А      |  |  |
| Alpha-BHC   | ND     |           | ug/kg | 0.756 | 0.215 | 1                      | А      |  |  |
| Beta-BHC  | ND     |           | ug/kg | 1.81  | 0.688 | 1                      | А      |  |  |
| Heptachlor  | ND     |           | ug/kg | 0.907 | 0.406 | 1                      | А      |  |  |
| Aldrin  | ND     |           | ug/kg | 1.81  | 0.638 | 1                      | А      |  |  |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.40  | 1.02  | 1                      | А      |  |  |
| Endrin  | ND     |           | ug/kg | 0.756 | 0.310 | 1                      | А      |  |  |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.27  | 0.793 | 1                      | А      |  |  |
| Endrin ketone                                     | ND     |           | ug/kg | 1.81  | 0.467 | 1                      | А      |  |  |
| Dieldrin  | ND     |           | ug/kg | 1.13  | 0.567 | 1                      | А      |  |  |
| 4,4'-DDE  | ND     |           | ug/kg | 1.81  | 0.419 | 1                      | А      |  |  |
| 4,4'-DDD  | 4.66   |           | ug/kg | 1.81  | 0.647 | 1                      | В      |  |  |
| 4,4'-DDT  | ND     |           | ug/kg | 3.40  | 1.46  | 1                      | А      |  |  |
| Endosulfan I                                      | ND     |           | ug/kg | 1.81  | 0.428 | 1                      | А      |  |  |
| Endosulfan II                                     | ND     |           | ug/kg | 1.81  | 0.606 | 1                      | А      |  |  |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.756 | 0.345 | 1                      | А      |  |  |
| Methoxychlor                                      | ND     |           | ug/kg | 3.40  | 1.06  | 1                      | А      |  |  |
| Toxaphene   | ND     |           | ug/kg | 34.0  | 9.52  | 1                      | А      |  |  |
| cis-Chlordane                                     | ND     |           | ug/kg | 2.27  | 0.632 | 1                      | А      |  |  |
| trans-Chlordane                                   | ND     |           | ug/kg | 2.27  | 0.598 | 1                      | А      |  |  |
| Chlordane   | ND     |           | ug/kg | 14.7  | 6.01  | 1                      | А      |  |  |

|                              |            |           | Acceptance |        |
|------------------------------|------------|-----------|------------|--------|
| Surrogate                    | % Recovery | Qualifier | Criteria   | Column |
| 2,4,5,6-Tetrachloro-m-xylene | 86         |           | 30-150     | А      |
| Decachlorobiphenyl           | 78         |           | 30-150     | А      |
| 2,4,5,6-Tetrachloro-m-xylene | 64         |           | 30-150     | В      |
| Decachlorobiphenyl           | 81         |           | 30-150     | В      |



|                    |                 |                | Serial_No:         | 10031311:13    |
|--------------------|-----------------|----------------|--------------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:        | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:       | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                    |                |
| Lab ID:            | L1318716-01     |                | Date Collected:    | 09/18/13 16:30 |
| Client ID:         | TP-4-13 (0-3')  |                | Date Received:     | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:        | Not Specified  |
| Matrix:            | Soil            |                | Extraction Method: | EPA 8151A      |
| Analytical Method: | 1,8151A(M)      |                | Extraction Date:   | 09/26/13 06:32 |
| Analytical Date:   | 09/27/13 16:59  |                | Methylation Date:  | 09/26/13 23:12 |
| Analyst:           | SH              |                |                    |                |
| Percent Solids:    | 86%             |                |                    |                |

| Parameter                        | Result          | Qualifier | Units | RL    | MDL   | <b>Dilution Factor</b> | Column |
|----------------------------------|-----------------|-----------|-------|-------|-------|------------------------|--------|
| Chlorinated Herbicides by GC - V | Vestborough Lab |           |       |       |       |                        |        |
| 2,4-D                            | ND              |           | mg/kg | 0.188 | 0.023 | 1                      | A      |
| 2,4,5-T                          | ND              |           | mg/kg | 0.188 | 0.012 | 1                      | А      |
| 2,4,5-TP (Silvex)                | ND              |           | mg/kg | 0.188 | 0.010 | 1                      | А      |

| Surrogate | % Recovery | Qualifier | Acceptance<br>Criteria | Column |
|-----------|------------|-----------|------------------------|--------|
| DCAA      | 78         |           | 30-150                 | А      |
| DCAA      | 73         |           | 30-150                 | В      |



|                    |                 |                | Serial_No:         | 10031311:13    |
|--------------------|-----------------|----------------|--------------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:        | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:       | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                    |                |
| Lab ID:            | L1318716-02     |                | Date Collected:    | 09/18/13 11:50 |
| Client ID:         | TP-5-13 (0-3')  |                | Date Received:     | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:        | Not Specified  |
| Matrix:            | Soil            |                | Extraction Method: | EPA 3546       |
| Analytical Method: | 1,8081B         |                | Extraction Date:   | 09/25/13 11:22 |
| Analytical Date:   | 09/26/13 16:56  |                | Cleanup Method1:   | EPA 3620B      |
| Analyst:           | SH              |                | Cleanup Date1:     | 09/26/13       |
| Percent Solids:    | 86%             |                |                    |                |

| Parameter   | Result | Qualifier | Units | RL    | MDL   | <b>Dilution Factor</b> | Column |  |  |
|---|--------|-----------|-------|-------|-------|------------------------|--------|--|--|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                        |        |  |  |
| Delta-BHC   | ND     |           | ug/kg | 1.84  | 0.359 | 1                      | А      |  |  |
| Lindane   | ND     |           | ug/kg | 0.765 | 0.342 | 1                      | А      |  |  |
| Alpha-BHC   | ND     |           | ug/kg | 0.765 | 0.217 | 1                      | А      |  |  |
| Beta-BHC  | ND     |           | ug/kg | 1.84  | 0.696 | 1                      | А      |  |  |
| Heptachlor  | ND     |           | ug/kg | 0.918 | 0.411 | 1                      | А      |  |  |
| Aldrin  | ND     |           | ug/kg | 1.84  | 0.646 | 1                      | А      |  |  |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.44  | 1.03  | 1                      | А      |  |  |
| Endrin  | ND     |           | ug/kg | 0.765 | 0.314 | 1                      | А      |  |  |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.29  | 0.803 | 1                      | А      |  |  |
| Endrin ketone                                     | ND     |           | ug/kg | 1.84  | 0.473 | 1                      | А      |  |  |
| Dieldrin  | ND     |           | ug/kg | 1.15  | 0.574 | 1                      | А      |  |  |
| 4,4'-DDE  | ND     |           | ug/kg | 1.84  | 0.424 | 1                      | А      |  |  |
| 4,4'-DDD  | ND     |           | ug/kg | 1.84  | 0.655 | 1                      | А      |  |  |
| 4,4'-DDT  | ND     |           | ug/kg | 3.44  | 1.48  | 1                      | А      |  |  |
| Endosulfan I                                      | ND     |           | ug/kg | 1.84  | 0.434 | 1                      | А      |  |  |
| Endosulfan II                                     | ND     |           | ug/kg | 1.84  | 0.613 | 1                      | А      |  |  |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.765 | 0.349 | 1                      | А      |  |  |
| Methoxychlor                                      | ND     |           | ug/kg | 3.44  | 1.07  | 1                      | А      |  |  |
| Toxaphene   | ND     |           | ug/kg | 34.4  | 9.64  | 1                      | А      |  |  |
| cis-Chlordane                                     | ND     |           | ug/kg | 2.29  | 0.639 | 1                      | А      |  |  |
| trans-Chlordane                                   | ND     |           | ug/kg | 2.29  | 0.606 | 1                      | А      |  |  |
| Chlordane   | ND     |           | ug/kg | 14.9  | 6.08  | 1                      | А      |  |  |

| Surrogate                    | % Recovery | Qualifier | Acceptance<br>Criteria | Column |
|------------------------------|------------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 100        |           | 30-150                 | А      |
| Decachlorobiphenyl           | 106        |           | 30-150                 | А      |
| 2,4,5,6-Tetrachloro-m-xylene | 64         |           | 30-150                 | В      |
| Decachlorobiphenyl           | 84         |           | 30-150                 | В      |



|                    |                 |                | Serial_No:         | 10031311:13    |
|--------------------|-----------------|----------------|--------------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:        | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:       | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                    |                |
| Lab ID:            | L1318716-02     |                | Date Collected:    | 09/18/13 11:50 |
| Client ID:         | TP-5-13 (0-3')  |                | Date Received:     | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:        | Not Specified  |
| Matrix:            | Soil            |                | Extraction Method: | EPA 8151A      |
| Analytical Method: | 1,8151A(M)      |                | Extraction Date:   | 09/24/13 00:42 |
| Analytical Date:   | 09/26/13 16:09  |                | Methylation Date:  | 09/26/13 09:47 |
| Analyst:           | SH              |                | ·                  |                |
| Percent Solids:    | 86%             |                |                    |                |

| Parameter                                      | Result | Qualifier | Units | RL    | MDL   | <b>Dilution Factor</b> | Column |  |  |  |
|--|--------|-----------|-------|-------|-------|------------------------|--------|--|--|--|
| Chlorinated Herbicides by GC - Westborough Lab |        |           |       |       |       |                        |        |  |  |  |
| 2,4-D  | ND     |           | mg/kg | 0.193 | 0.024 | 1                      | A      |  |  |  |
| 2,4,5-T  | ND     |           | mg/kg | 0.193 | 0.012 | 1                      | А      |  |  |  |
| 2,4,5-TP (Silvex)                              | ND     |           | mg/kg | 0.193 | 0.011 | 1                      | А      |  |  |  |

| Surrogate | % Recovery | Qualifier | Acceptance<br>Criteria | Column |
|-----------|------------|-----------|------------------------|--------|
| DCAA      | 78         |           | 30-150                 | А      |
| DCAA      | 47         |           | 30-150                 | В      |



|                    |                 |                | Serial_No:         | 10031311:13    |
|--------------------|-----------------|----------------|--------------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:        | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:       | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                    |                |
| Lab ID:            | L1318716-07     |                | Date Collected:    | 09/19/13 14:15 |
| Client ID:         | TP-22-13 (6-8') |                | Date Received:     | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:        | Not Specified  |
| Matrix:            | Soil            |                | Extraction Method: | EPA 3546       |
| Analytical Method: | 1,8081B         |                | Extraction Date:   | 09/25/13 11:49 |
| Analytical Date:   | 09/26/13 17:09  |                | Cleanup Method1:   | EPA 3620B      |
| Analyst:           | SH              |                | Cleanup Date1:     | 09/26/13       |
| Percent Solids:    | 86%             |                | -                  |                |

| Parameter                             | Result       | Qualifier | Units | RL    | MDL   | <b>Dilution Factor</b> | Column |
|---------------------------------------|--------------|-----------|-------|-------|-------|------------------------|--------|
| Organochlorine Pesticides by GC - Wes | tborough Lab |           |       |       |       |                        |        |
| Delta-BHC                             | ND           |           | ug/kg | 1.79  | 0.351 | 1                      | А      |
| Lindane                               | ND           |           | ug/kg | 0.747 | 0.334 | 1                      | А      |
| Alpha-BHC                             | ND           |           | ug/kg | 0.747 | 0.212 | 1                      | А      |
| Beta-BHC                              | ND           |           | ug/kg | 1.79  | 0.680 | 1                      | А      |
| Heptachlor                            | ND           |           | ug/kg | 0.897 | 0.402 | 1                      | А      |
| Aldrin                                | ND           |           | ug/kg | 1.79  | 0.632 | 1                      | А      |
| Heptachlor epoxide                    | ND           |           | ug/kg | 3.36  | 1.01  | 1                      | А      |
| Endrin                                | ND           |           | ug/kg | 0.747 | 0.306 | 1                      | А      |
| Endrin aldehyde                       | ND           |           | ug/kg | 2.24  | 0.785 | 1                      | А      |
| Endrin ketone                         | ND           |           | ug/kg | 1.79  | 0.462 | 1                      | А      |
| Dieldrin                              | ND           |           | ug/kg | 1.12  | 0.560 | 1                      | А      |
| 4,4'-DDE                              | ND           |           | ug/kg | 1.79  | 0.415 | 1                      | А      |
| 4,4'-DDD                              | ND           |           | ug/kg | 1.79  | 0.640 | 1                      | А      |
| 4,4'-DDT                              | ND           |           | ug/kg | 3.36  | 1.44  | 1                      | А      |
| Endosulfan I                          | ND           |           | ug/kg | 1.79  | 0.424 | 1                      | А      |
| Endosulfan II                         | ND           |           | ug/kg | 1.79  | 0.599 | 1                      | А      |
| Endosulfan sulfate                    | ND           |           | ug/kg | 0.747 | 0.342 | 1                      | А      |
| Methoxychlor                          | ND           |           | ug/kg | 3.36  | 1.05  | 1                      | А      |
| Toxaphene                             | ND           |           | ug/kg | 33.6  | 9.42  | 1                      | А      |
| cis-Chlordane                         | ND           |           | ug/kg | 2.24  | 0.625 | 1                      | А      |
| trans-Chlordane                       | ND           |           | ug/kg | 2.24  | 0.592 | 1                      | А      |
| Chlordane                             | ND           |           | ug/kg | 14.6  | 5.94  | 1                      | А      |

|                              |            |           | Acceptance |        |
|------------------------------|------------|-----------|------------|--------|
| Surrogate                    | % Recovery | Qualifier | Criteria   | Column |
| 2,4,5,6-Tetrachloro-m-xylene | 96         |           | 30-150     | А      |
| Decachlorobiphenyl           | 88         |           | 30-150     | А      |
| 2,4,5,6-Tetrachloro-m-xylene | 66         |           | 30-150     | В      |
| Decachlorobiphenyl           | 83         |           | 30-150     | В      |



|                    |                 |                | Serial_No:         | 10031311:13    |
|--------------------|-----------------|----------------|--------------------|----------------|
| Project Name:      | 295 MARYLAND ST |                | Lab Number:        | L1318716       |
| Project Number:    | 0222-001-101    |                | Report Date:       | 10/03/13       |
|                    |                 | SAMPLE RESULTS |                    |                |
| Lab ID:            | L1318716-07     |                | Date Collected:    | 09/19/13 14:15 |
| Client ID:         | TP-22-13 (6-8') |                | Date Received:     | 09/20/13       |
| Sample Location:   | 295 MARYLAND ST |                | Field Prep:        | Not Specified  |
| Matrix:            | Soil            |                | Extraction Method: | EPA 8151A      |
| Analytical Method: | 1,8151A(M)      |                | Extraction Date:   | 09/26/13 06:32 |
| Analytical Date:   | 09/27/13 16:39  |                | Methylation Date:  | 09/26/13 23:12 |
| Analyst:           | SH              |                | ·                  |                |
| Percent Solids:    | 86%             |                |                    |                |

| Parameter                        | Result          | Qualifier | Units | RL    | MDL   | <b>Dilution Factor</b> | Column |
|----------------------------------|-----------------|-----------|-------|-------|-------|------------------------|--------|
| Chlorinated Herbicides by GC - V | Vestborough Lab |           |       |       |       |                        |        |
| 2,4-D                            | ND              |           | mg/kg | 0.192 | 0.023 | 1                      | A      |
| 2,4,5-T                          | ND              |           | mg/kg | 0.192 | 0.012 | 1                      | А      |
| 2,4,5-TP (Silvex)                | ND              |           | mg/kg | 0.192 | 0.011 | 1                      | А      |

| Surrogate | % Recovery | Qualifier | Acceptance<br>Criteria | Column |
|-----------|------------|-----------|------------------------|--------|
| DCAA      | 68         |           | 30-150                 | А      |
| DCAA      | 66         |           | 30-150                 | В      |



| Project Name:   | 295 MARYLAND ST |  | Lab Number:  | L1318716 |
|-----------------|-----------------|--|--------------|----------|
| Project Number: | 0222-001-101    |  | Report Date: | 10/03/13 |
|                 |                 | Method Blank Analysis<br>Batch Quality Control |              |          |
|                 |                 | Batch Quality Control                          |              |          |

| Analytical Method: | 1,8151A(M)     | Extraction Method: | EPA 8151A     |
|--------------------|----------------|--------------------|---------------|
| Analytical Date:   | 09/26/13 14:47 | Extraction Date:   | 09/24/13 00:4 |
| Analyst:           | SH             |                    |               |

09/26/13 09:47 Methylation Date:

09/24/13 00:42

| arameter                      | Result          | Qualifier   | Units    |    | RL     | MDL        | Column |
|-------------------------------|-----------------|-------------|----------|----|--------|------------|--------|
| hlorinated Herbicides by GC - | - Westborough I | Lab for sam | nple(s): | 02 | Batch: | WG638423-1 |        |
| MCPP                          | ND              |             | mg/kg    |    | 3.33   | 0.955      | А      |
| MCPA                          | ND              |             | mg/kg    |    | 3.33   | 1.04       | А      |
| Dalapon                       | ND              |             | mg/kg    |    | 0.033  | 0.010      | А      |
| Dicamba                       | ND              |             | mg/kg    |    | 0.033  | 0.010      | А      |
| Dichloroprop                  | ND              |             | mg/kg    |    | 0.033  | 0.011      | А      |
| 2,4-D                         | ND              |             | mg/kg    |    | 0.166  | 0.020      | А      |
| 2,4-DB                        | ND              |             | mg/kg    |    | 0.166  | 0.012      | А      |
| 2,4,5-T                       | ND              |             | mg/kg    |    | 0.166  | 0.010      | А      |
| 2,4,5-TP (Silvex)             | ND              |             | mg/kg    |    | 0.166  | 0.009      | А      |
| Dinoseb                       | ND              |             | mg/kg    |    | 0.033  | 0.012      | А      |

|           |           |           | Acceptance | •      |
|-----------|-----------|-----------|------------|--------|
| Surrogate | %Recovery | Qualifier | Criteria   | Column |
|           |           |           |            |        |
| DCAA      | 59        |           | 30-150     | A      |
| DCAA      | 31        |           | 30-150     | В      |



| Project Name:   | 295 MARYLAND ST | Lab Number:  | L1318716 |
|-----------------|-----------------|--------------|----------|
| Project Number: | 0222-001-101    | Report Date: | 10/03/13 |

### Method Blank Analysis Batch Quality Control

| Analytical Method: |  |
|--------------------|--|
| Analytical Date:   |  |
| Analyst:           |  |

1,8081B 09/26/13 10:55 SH Extraction Method:EPA 3546Extraction Date:09/25/13 11:22Cleanup Method1:EPA 3620BCleanup Date1:09/26/13

|                             |                   |             |            |          |        | _   | 0       |
|-----------------------------|-------------------|-------------|------------|----------|--------|-----|---------|
| Parameter                   | Result            | Qualifier   | Units      | RL       | MD     | L   | Column  |
| Organochlorine Pesticides b | y GC - Westboroug | h Lab for s | sample(s): | 01-02,07 | Batch: | WG6 | 38908-1 |
| Delta-BHC                   | ND                |             | ug/kg      | 1.59     | 0.3    | 12  | А       |
| Lindane                     | ND                |             | ug/kg      | 0.664    | 0.2    | 97  | А       |
| Alpha-BHC                   | ND                |             | ug/kg      | 0.664    | 0.1    | 88  | А       |
| Beta-BHC                    | ND                |             | ug/kg      | 1.59     | 0.6    | 04  | А       |
| Heptachlor                  | ND                |             | ug/kg      | 0.796    | 0.3    | 57  | А       |
| Aldrin                      | ND                |             | ug/kg      | 1.59     | 0.5    | 61  | А       |
| Heptachlor epoxide          | ND                |             | ug/kg      | 2.99     | 0.8    | 96  | А       |
| Endrin                      | ND                |             | ug/kg      | 0.664    | 0.2    | 72  | А       |
| Endrin aldehyde             | ND                |             | ug/kg      | 1.99     | 0.6    | 97  | А       |
| Endrin ketone               | ND                |             | ug/kg      | 1.59     | 0.4    | 10  | А       |
| Dieldrin                    | ND                |             | ug/kg      | 0.995    | 0.4    | 98  | А       |
| 4,4'-DDE                    | ND                |             | ug/kg      | 1.59     | 0.3    | 68  | А       |
| 4,4'-DDD                    | ND                |             | ug/kg      | 1.59     | 0.5    | 68  | А       |
| 4,4'-DDT                    | ND                |             | ug/kg      | 2.99     | 1.2    | 28  | А       |
| Endosulfan I                | ND                |             | ug/kg      | 1.59     | 0.3    | 76  | А       |
| Endosulfan II               | ND                |             | ug/kg      | 1.59     | 0.5    | 32  | А       |
| Endosulfan sulfate          | ND                |             | ug/kg      | 0.664    | 0.3    | 03  | А       |
| Methoxychlor                | ND                |             | ug/kg      | 2.99     | 0.9    | 29  | А       |
| Toxaphene                   | ND                |             | ug/kg      | 29.9     | 8.3    | 36  | А       |
| cis-Chlordane               | ND                |             | ug/kg      | 1.99     | 0.5    | 55  | А       |
| trans-Chlordane             | ND                |             | ug/kg      | 1.99     | 0.5    | 26  | А       |
| Chlordane                   | ND                |             | ug/kg      | 12.9     | 5.2    | 28  | А       |
|                             |                   |             |            |          |        |     |         |

|                              |           |           | Acceptance | •      |
|------------------------------|-----------|-----------|------------|--------|
| Surrogate                    | %Recovery | Qualifier | Criteria   | Column |
| 2,4,5,6-Tetrachloro-m-xylene | 106       |           | 30-150     | А      |
| Decachlorobiphenyl           | 99        |           | 30-150     | А      |
| 2,4,5,6-Tetrachloro-m-xylene | 71        |           | 30-150     | В      |
| Decachlorobiphenyl           | 77        |           | 30-150     | В      |



| Project Name:   | 295 MARYLAND ST |  | Lab Number:  | L1318716 |
|-----------------|-----------------|--|--------------|----------|
| Project Number: | 0222-001-101    |  | Report Date: | 10/03/13 |
|                 |                 | Method Blank Analysis<br>Batch Quality Control |              |          |

| Analytical Method: | 1,8151A(M)     | Extra |
|--------------------|----------------|-------|
| Analytical Date:   | 09/27/13 07:17 | Extra |
| Analyst:           | SH             |       |

Extraction Method: EPA 8151A Extraction Date: 09/26/13 06:32

Methylation Date: 09/26/13 14:39

| arameter                    | Result          | Qualifier  | Units   | RL           | MDL        | Column |
|-----------------------------|-----------------|------------|---------|--------------|------------|--------|
| hlorinated Herbicides by GC | - Westborough L | ab for sam | ple(s): | 01,07 Batch: | WG639096-1 |        |
| МСРР                        | ND              |            | mg/kg   | 3.33         | 0.956      | А      |
| MCPA                        | ND              |            | mg/kg   | 3.33         | 1.04       | А      |
| Dalapon                     | ND              |            | mg/kg   | 0.033        | 0.010      | А      |
| Dicamba                     | ND              |            | mg/kg   | 0.033        | 0.010      | А      |
| Dichloroprop                | ND              |            | mg/kg   | 0.033        | 0.011      | А      |
| 2,4-D                       | ND              |            | mg/kg   | 0.166        | 0.020      | А      |
| 2,4-DB                      | ND              |            | mg/kg   | 0.166        | 0.012      | А      |
| 2,4,5-T                     | ND              |            | mg/kg   | 0.166        | 0.010      | А      |
| 2,4,5-TP (Silvex)           | ND              |            | mg/kg   | 0.166        | 0.009      | А      |
| Dinoseb                     | ND              |            | mg/kg   | 0.033        | 0.012      | А      |

|           |           |           | Acceptance | <b>;</b> |
|-----------|-----------|-----------|------------|----------|
| Surrogate | %Recovery | Qualifier | Criteria   | Column   |
|           |           |           |            |          |
| DCAA      | 94        |           | 30-150     | A        |
| DCAA      | 60        |           | 30-150     | В        |



**Project Name:** 295 MARYLAND ST

**Project Number:** 0222-001-101

| Parameter                                  | LCS<br>%Recovery | Qual          | LCSD<br>%Recovery | Qual       | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|--|------------------|---------------|-------------------|------------|---------------------|-----|------|---------------|--------|
| Chlorinated Herbicides by GC - Westborough | Lab Associate    | ed sample(s): | 02 Batch: V       | VG638423-2 | WG638423-3          |     |      |               |        |
| МСРР                                       | 105              |               | 104               |            | 30-150              | 1   |      | 30            | А      |
| MCPA                                       | 178              | Q             | 90                |            | 30-150              | 66  | Q    | 30            | А      |
| Dalapon                                    | 84               |               | 58                |            | 30-150              | 37  | Q    | 30            | А      |
| Dicamba                                    | 70               |               | 71                |            | 30-150              | 1   |      | 30            | А      |
| Dichloroprop                               | 88               |               | 87                |            | 30-150              | 1   |      | 30            | А      |
| 2,4-D                                      | 89               |               | 83                |            | 30-150              | 7   |      | 30            | А      |
| 2,4-DB                                     | 91               |               | 97                |            | 30-150              | 6   |      | 30            | А      |
| 2,4,5-T                                    | 73               |               | 79                |            | 30-150              | 8   |      | 30            | А      |
| 2,4,5-TP (Silvex)                          | 71               |               | 75                |            | 30-150              | 5   |      | 30            | А      |
| Dinoseb                                    | 8                | Q             | 9                 | Q          | 30-150              | 9   |      | 30            | А      |

|           | LCS       |      | LCSD      |      | Acceptance |        |
|-----------|-----------|------|-----------|------|------------|--------|
| Surrogate | %Recovery | Qual | %Recovery | Qual | Criteria   | Column |
|           |           |      |           |      |            |        |
| DCAA      | 68        |      | 69        |      | 30-150     | А      |
| DCAA      | 43        |      | 51        |      | 30-150     | В      |



**Project Name:** 295 MARYLAND ST

**Project Number:** 0222-001-101

|   | LCS       |      | LCSD      |      | %Recovery |     |      | RPD    |        |
|---|-----------|------|-----------|------|-----------|-----|------|--------|--------|
| Parameter   | %Recovery | Qual | %Recovery | Qual | Limits    | RPD | Qual | Limits | Column |
| Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02,07 Batch: WG638908-2 WG638908-3 |           |      |           |      |           |     |      |        |        |
| Delta-BHC   | 119       |      | 123       |      | 30-150    | 3   |      | 30     | А      |
| Lindane   | 103       |      | 109       |      | 30-150    | 6   |      | 30     | А      |
| Alpha-BHC   | 101       |      | 105       |      | 30-150    | 4   |      | 30     | А      |
| Beta-BHC  | 91        |      | 95        |      | 30-150    | 4   |      | 30     | А      |
| Heptachlor  | 102       |      | 109       |      | 30-150    | 7   |      | 30     | А      |
| Aldrin  | 104       |      | 111       |      | 30-150    | 7   |      | 30     | А      |
| Heptachlor epoxide  | 100       |      | 105       |      | 30-150    | 5   |      | 30     | А      |
| Endrin  | 112       |      | 121       |      | 30-150    | 8   |      | 30     | А      |
| Endrin aldehyde   | 90        |      | 91        |      | 30-150    | 1   |      | 30     | А      |
| Endrin ketone   | 108       |      | 114       |      | 30-150    | 5   |      | 30     | А      |
| Dieldrin  | 104       |      | 110       |      | 30-150    | 6   |      | 30     | А      |
| 4,4'-DDE  | 104       |      | 112       |      | 30-150    | 7   |      | 30     | А      |
| 4,4'-DDD  | 107       |      | 114       |      | 30-150    | 6   |      | 30     | А      |
| 4,4'-DDT  | 110       |      | 115       |      | 30-150    | 4   |      | 30     | А      |
| Endosulfan I  | 104       |      | 111       |      | 30-150    | 7   |      | 30     | А      |
| Endosulfan II   | 115       |      | 120       |      | 30-150    | 4   |      | 30     | А      |
| Endosulfan sulfate  | 119       |      | 125       |      | 30-150    | 5   |      | 30     | А      |
| Methoxychlor  | 93        |      | 99        |      | 30-150    | 6   |      | 30     | А      |
| cis-Chlordane   | 102       |      | 107       |      | 30-150    | 5   |      | 30     | А      |
| trans-Chlordane   | 102       |      | 107       |      | 30-150    | 5   |      | 30     | А      |



**Project Name:** 295 MARYLAND ST

Project Number: 0222-001-101 Lab Number: L1318716

Report Date: 10/03/13

|                                      | LCS                   |             | LCSD             |            | %Recovery     |       |      | RPD    |  |
|--------------------------------------|-----------------------|-------------|------------------|------------|---------------|-------|------|--------|--|
| Parameter                            | %Recovery             | Qual        | %Recovery        | Qual       | Limits        | RPD   | Qual | Limits |  |
|                                      |                       |             |                  |            |               |       |      |        |  |
| Organochlorine Pesticides by GC - We | stborough Lab Associa | ated sample | e(s): 01-02,07 B | Batch: WG6 | 38908-2 WG638 | 908-3 |      |        |  |

|                              | LCS       | LCS LCSD Acceptance |           |      |          |        |  |
|------------------------------|-----------|---------------------|-----------|------|----------|--------|--|
| Surrogate                    | %Recovery | Qual                | %Recovery | Qual | Criteria | Column |  |
| 2,4,5,6-Tetrachloro-m-xylene | 114       |                     | 109       |      | 30-150   | А      |  |
| Decachlorobiphenyl           | 114       |                     | 99        |      | 30-150   | А      |  |
| 2,4,5,6-Tetrachloro-m-xylene | 79        |                     | 78        |      | 30-150   | В      |  |
| Decachlorobiphenyl           | 98        |                     | 104       |      | 30-150   | В      |  |



**Project Name:** 295 MARYLAND ST

**Project Number:** 0222-001-101

|  | LCS           |               | LCS     | D     | c.         | %Recovery  |     |      | RPD    |        |
|--|---------------|---------------|---------|-------|------------|------------|-----|------|--------|--------|
| Parameter                                  | %Recovery     | Qual          | %Reco   | very  | Qual       | Limits     | RPD | Qual | Limits | Column |
| Chlorinated Herbicides by GC - Westborough | Lab Associate | ed sample(s): | 01,07 B | atch: | WG639096-2 | WG639096-3 |     |      |        |        |
| МСРР                                       | 113           |               | 121     | I     |            | 30-150     | 7   |      | 30     | А      |
| MCPA                                       | 208           | Q             | 250     | )     | Q          | 30-150     | 18  |      | 30     | А      |
| Dalapon                                    | 83            |               | 115     | 5     |            | 30-150     | 32  | Q    | 30     | А      |
| Dicamba                                    | 90            |               | 93      |       |            | 30-150     | 3   |      | 30     | А      |
| Dichloroprop                               | 112           |               | 115     | 5     |            | 30-150     | 3   |      | 30     | А      |
| 2,4-D                                      | 110           |               | 116     | 6     |            | 30-150     | 5   |      | 30     | А      |
| 2,4-DB                                     | 120           |               | 128     | 3     |            | 30-150     | 6   |      | 30     | А      |
| 2,4,5-T                                    | 91            |               | 92      |       |            | 30-150     | 1   |      | 30     | А      |
| 2,4,5-TP (Silvex)                          | 88            |               | 91      |       |            | 30-150     | 3   |      | 30     | А      |
| Dinoseb                                    | 3             | Q             | 7       |       | Q          | 30-150     | 83  | Q    | 30     | А      |

|           | LCS       |      | LCSD      |      | Acceptance |        |
|-----------|-----------|------|-----------|------|------------|--------|
| Surrogate | %Recovery | Qual | %Recovery | Qual | Criteria   | Column |
|           |           |      |           |      |            |        |
| DCAA      | 90        |      | 91        |      | 30-150     | Α      |
| DCAA      | 62        |      | 49        |      | 30-150     | В      |



### METALS



|                      |          |           |       |       |       |          |               | Serial           | _No:10031; | 311:13     |         |
|----------------------|----------|-----------|-------|-------|-------|----------|---------------|------------------|------------|------------|---------|
| Project Name:        | 295 N    | IARYLAND  | ST    |       |       |          | Lab Nu        | mber:            | L13187     | 16         |         |
| Project Number:      | 0222-    | 001-101   |       |       |       |          | Report        | Date:            | 10/03/1    | 3          |         |
|                      |          |           |       | SAMPL | E RES | ULTS     |               |                  |            |            |         |
| Lab ID:              | L1318    | 716-01    |       |       |       |          | Date Co       | ollected:        | 09/18/1    | 3 16:30    |         |
| Client ID:           | TP-4-    | 13 (0-3') |       |       |       |          | Date R        | eceived:         | 09/20/1    | 3          |         |
| Sample Location:     |          | ARYLAND   | ST    |       |       |          | Field P       | rep:             | Not Spe    | cified     |         |
| Matrix:              | Soil     |           |       |       |       |          |               |                  |            |            |         |
| Percent Solids:      | 86%      |           |       |       |       | Dilution | Date          | Date             | Prep       | Analytical |         |
| Parameter            | Result   | Qualifier | Units | RL    | MDL   | Factor   | Prepared      | Analyzed         | Method     | Method     | Analyst |
| Total Metals - Westb | orough l | Lab       |       |       |       |          |               |                  |            |            |         |
| Aluminum, Total      | 8700     |           | mg/kg | 8.7   | 1.7   | 2        | 09/26/13 13:1 | 0 09/27/13 17:56 | EPA 3050B  | 1,6010C    | TT      |
| Antimony, Total      | ND       |           | mg/kg | 4.4   | 0.70  | 2        | 09/26/13 13:1 | 0 09/27/13 17:56 | EPA 3050B  | 1,6010C    | TT      |
| Arsenic, Total       | 7.0      |           | mg/kg | 0.87  | 0.17  | 2        | 09/26/13 13:1 | 0 09/27/13 17:56 | EPA 3050B  | 1,6010C    | TT      |
| Barium, Total        | 140      |           | mg/kg | 0.87  | 0.26  | 2        | 09/26/13 13:1 | 0 09/27/13 17:56 | EPA 3050B  | 1,6010C    | TT      |
| Beryllium, Total     | 0.44     |           | mg/kg | 0.44  | 0.09  | 2        | 09/26/13 13:1 | 0 09/27/13 17:56 | EPA 3050B  | 1,6010C    | TT      |
| Cadmium, Total       | 0.96     |           | mg/kg | 0.87  | 0.06  | 2        | 09/26/13 13:1 | 0 09/27/13 17:56 | EPA 3050B  | 1,6010C    | TT      |
| Calcium, Total       | 40000    |           | mg/kg | 8.7   | 2.6   | 2        | 09/26/13 13:1 | 0 09/27/13 17:56 | EPA 3050B  | 1,6010C    | TT      |
| Chromium, Total      | 20       |           | mg/kg | 0.87  | 0.17  | 2        | 09/26/13 13:1 | 0 09/27/13 17:56 | EPA 3050B  | 1,6010C    | ТТ      |
| Cobalt, Total        | 6.0      |           | mg/kg | 1.7   | 0.44  | 2        | 09/26/13 13:1 | 0 09/27/13 17:56 | EPA 3050B  | 1,6010C    | TT      |
| Copper, Total        | 32       |           | mg/kg | 0.87  | 0.17  | 2        | 09/26/13 13:1 | 0 09/27/13 17:56 | EPA 3050B  | 1,6010C    | ТТ      |
| Iron, Total          | 16000    |           | mg/kg | 4.4   | 1.7   | 2        | 09/26/13 13:1 | 0 09/27/13 17:56 | EPA 3050B  | 1,6010C    | ТТ      |
| Lead, Total          | 920      |           | mg/kg | 4.4   | 0.17  | 2        | 09/26/13 13:1 | 0 09/27/13 17:56 | EPA 3050B  | 1,6010C    | TT      |
| Magnesium, Total     | 13000    |           | mg/kg | 8.7   | 0.87  | 2        | 09/26/13 13:1 | 0 09/27/13 17:56 | EPA 3050B  | 1,6010C    | ТТ      |
| Manganese, Total     | 340      |           | mg/kg | 0.87  | 0.17  | 2        | 09/26/13 13:1 | 0 09/27/13 17:56 | EPA 3050B  | 1,6010C    | тт      |
| Mercury, Total       | 1.3      |           | mg/kg | 0.09  | 0.02  | 1        | 09/27/13 09:1 | 0 09/27/13 14:23 | EPA 7471B  | 1,7471B    | MC      |
| Nickel, Total        | 12       |           | mg/kg | 2.2   | 0.35  | 2        | 09/26/13 13:1 | 0 09/27/13 17:56 | EPA 3050B  | 1,6010C    | TT      |
| Potassium, Total     | 950      |           | mg/kg | 220   | 35.   | 2        | 09/26/13 13:1 | 0 09/27/13 17:56 | EPA 3050B  | 1,6010C    | TT      |
| Selenium, Total      | ND       |           | mg/kg | 1.7   | 0.26  | 2        |               | 0 09/27/13 17:56 |            | 1,6010C    | TT      |
| Silver, Total        | ND       |           | mg/kg | 0.87  | 0.17  | 2        |               | 0 09/27/13 17:56 |            | 1,6010C    | TT      |
| · .                  |          |           | 5.5   |       |       |          |               |                  |            | _          |         |



1,6010C

1,6010C

1,6010C

1,6010C

ΤT

ΤT

ΤT

ΤT

Sodium, Total

Thallium, Total

Vanadium, Total

Zinc, Total

88

ND

19

210

J

170

1.7

0.87

4.4

mg/kg

mg/kg

mg/kg

mg/kg

26.

0.35

0.09

0.61

2

2

2

2

09/26/13 13:10 09/27/13 17:56 EPA 3050B

09/26/13 13:10 09/27/13 18:12 EPA 3050B

|                      |          |           |       |       |       |          |                | Gena             | _110.10031 | 511.15     |         |
|----------------------|----------|-----------|-------|-------|-------|----------|----------------|------------------|------------|------------|---------|
| Project Name:        | 295 M    | ARYLAND   | ST    |       |       |          | Lab Nu         | mber:            | L13187     | 16         |         |
| Project Number:      | 0222-(   | 001-101   |       |       |       |          | Report         | Date:            | 10/03/1    | 3          |         |
|                      |          |           |       | SAMPL | E RES | ULTS     |                |                  |            |            |         |
| Lab ID:              | L1318    | 716-02    |       |       |       |          | Date Co        | llected:         | 09/18/1    | 3 11:50    |         |
| Client ID:           | TP-5-1   | 3 (0-3')  |       |       |       |          | Date Re        | eceived:         | 09/20/1    | 3          |         |
| Sample Location:     | 295 M    | ARYLAND   | ST    |       |       |          | Field Pr       | ep:              | Not Spe    | cified     |         |
| Matrix:              | Soil     |           |       |       |       |          |                |                  |            |            |         |
| Percent Solids:      | 86%      |           |       |       |       | Dilution | Date           | Date             | Prep       | Analytical |         |
| Parameter            | Result   | Qualifier | Units | RL    | MDL   | Factor   | Prepared       | Analyzed         | Method     | Method     | Analyst |
| Total Metals - Westb | orough L | _ab       |       |       |       |          |                |                  |            |            |         |
| Aluminum, Total      | 10000    |           | mg/kg | 8.9   | 1.8   | 2        | 09/26/13 13:10 | ) 09/27/13 18:12 | EPA 3050B  | 1,6010C    | TT      |
| Antimony, Total      | ND       |           | mg/kg | 4.4   | 0.71  | 2        | 09/26/13 13:10 | ) 09/27/13 18:12 | EPA 3050B  | 1,6010C    | TT      |
| Arsenic, Total       | 3.9      |           | mg/kg | 0.89  | 0.18  | 2        | 09/26/13 13:10 | ) 09/27/13 18:12 | EPA 3050B  | 1,6010C    | TT      |
| Barium, Total        | 100      |           | mg/kg | 0.89  | 0.27  | 2        | 09/26/13 13:10 | ) 09/27/13 18:12 | EPA 3050B  | 1,6010C    | TT      |
| Beryllium, Total     | 0.50     |           | mg/kg | 0.44  | 0.09  | 2        | 09/26/13 13:10 | 09/27/13 18:12   | EPA 3050B  | 1,6010C    | TT      |
| Cadmium, Total       | 0.90     |           | mg/kg | 0.89  | 0.06  | 2        | 09/26/13 13:10 | 09/27/13 18:12   | EPA 3050B  | 1,6010C    | TT      |
| Calcium, Total       | 9000     |           | mg/kg | 8.9   | 2.7   | 2        | 09/26/13 13:10 | 09/27/13 18:12   | EPA 3050B  | 1,6010C    | TT      |
| Chromium, Total      | 15       |           | mg/kg | 0.89  | 0.18  | 2        | 09/26/13 13:10 | ) 09/27/13 18:12 | EPA 3050B  | 1,6010C    | TT      |
| Cobalt, Total        | 6.7      |           | mg/kg | 1.8   | 0.44  | 2        | 09/26/13 13:10 | 09/27/13 18:12   | EPA 3050B  | 1,6010C    | TT      |
| Copper, Total        | 45       |           | mg/kg | 0.89  | 0.18  | 2        | 09/26/13 13:10 | 09/27/13 18:12   | EPA 3050B  | 1,6010C    | TT      |
| Iron, Total          | 17000    |           | mg/kg | 4.4   | 1.8   | 2        | 09/26/13 13:10 | 09/27/13 18:12   | EPA 3050B  | 1,6010C    | TT      |
| Lead, Total          | 130      |           | mg/kg | 4.4   | 0.18  | 2        | 09/26/13 13:10 | ) 09/27/13 18:12 | EPA 3050B  | 1,6010C    | TT      |
| Magnesium, Total     | 4800     |           | mg/kg | 8.9   | 0.89  | 2        | 09/26/13 13:10 | ) 09/27/13 18:12 | EPA 3050B  | 1,6010C    | TT      |
| Manganese, Total     | 520      |           | mg/kg | 0.89  | 0.18  | 2        | 09/26/13 13:10 | ) 09/27/13 18:12 | EPA 3050B  | 1,6010C    | TT      |
| Mercury, Total       | 1.1      |           | mg/kg | 0.08  | 0.02  | 1        | 09/27/13 09:10 | ) 09/27/13 14:25 | EPA 7471B  | 1,7471B    | MC      |
| Nickel, Total        | 14       |           | mg/kg | 2.2   | 0.36  | 2        | 09/26/13 13:10 | ) 09/27/13 18:12 | EPA 3050B  | 1,6010C    | TT      |
|                      |          |           |       |       |       |          |                |                  |            |            |         |



1,6010C

1,6010C

1,6010C

1,6010C

1,6010C

1,6010C

1,6010C

ΤT

ΤT

TΤ

TΤ

TΤ

ΤT

ΤT

Potassium, Total

Selenium, Total

Silver, Total

Sodium, Total

Thallium, Total

Vanadium, Total

Zinc, Total

960

ND

ND

140

ND

21

140

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

J

220

1.8

0.89

180

1.8

0.89

4.4

36.

0.27

0.18

27.

0.36

0.09

0.62

2

2

2

2

2

2

2

| Project Name:        | 205 M              | ARYLAND   | ст    |       |       |          | Lab Nur        | nhor           | L13187    | 16         |         |
|----------------------|--------------------|-----------|-------|-------|-------|----------|----------------|----------------|-----------|------------|---------|
| Froject Name.        | 295 101            | ARTLAND   | 31    |       |       |          |                | inner.         | L1310/    | 10         |         |
| Project Number:      | 0222-0             | 001-101   |       |       |       |          | Report I       | Date:          | 10/03/13  | 3          |         |
|                      |                    |           |       | SAMPL | E RES | ULTS     |                |                |           |            |         |
| Lab ID:              | L1318 <sup>-</sup> | 716-04    |       |       |       |          | Date Co        | llected:       | 09/19/13  | 3 08:40    |         |
| Client ID:           | TP-7-1             | 3 (0-3')  |       |       |       |          | Date Re        | ceived:        | 09/20/13  | 3          |         |
| Sample Location:     | 295 M              | ARYLAND   | ST    |       |       |          | Field Pre      | ep:            | Not Spe   | cified     |         |
| Matrix:              | Soil               |           |       |       |       |          |                |                |           |            |         |
| Percent Solids:      | 87%                |           |       |       |       | Dilution | Date           | Date           | Prep      | Analytical |         |
| Parameter            | Result             | Qualifier | Units | RL    | MDL   | Factor   | Prepared       | Analyzed       | Method    | Method     | Analyst |
|                      |                    |           |       |       |       |          |                |                |           |            |         |
| Total Metals - Westb | orough L           | ab        |       |       |       |          |                |                |           |            |         |
| Arsenic, Total       | 5.0                |           | mg/kg | 0.43  | 0.09  | 1        | 09/26/13 13:10 | 09/27/13 19:31 | EPA 3050B | 1,6010C    | TT      |
| Barium, Total        | 110                |           | mg/kg | 0.43  | 0.13  | 1        | 09/26/13 13:10 | 09/27/13 19:31 | EPA 3050B | 1,6010C    | TT      |
| Cadmium, Total       | 0.83               |           | mg/kg | 0.43  | 0.03  | 1        | 09/26/13 13:10 | 09/27/13 19:31 | EPA 3050B | 1,6010C    | ТТ      |
| Copper, Total        | 20                 |           | mg/kg | 0.43  | 0.09  | 1        | 09/26/13 13:10 | 09/27/13 19:31 | EPA 3050B | 1,6010C    | ТТ      |
| Lead, Total          | 270                |           | mg/kg | 2.2   | 0.09  | 1        | 09/26/13 13:10 | 09/27/13 19:31 | EPA 3050B | 1,6010C    | тт      |
| Mercury, Total       | 0.70               |           | mg/kg | 0.09  | 0.02  | 1        | 09/27/13 09:10 | 09/27/13 14:26 | EPA 7471B | 1,7471B    | MC      |
| Silver, Total        | ND                 |           | mg/kg | 0.43  | 0.09  | 1        | 09/26/13 13:10 | 09/27/13 19:31 | EPA 3050B | 1,6010C    | тт      |
| Zinc, Total          | 99                 |           | mg/kg | 2.2   | 0.30  | 1        | 09/26/13 13:10 | 09/30/13 12:44 | EPA 3050B | 1,6010C    | тт      |
|                      |                    |           |       |       |       |          |                |                |           |            |         |

| Project Name:        | 295 M    | IARYLAND   | ST    |       |       |          | Lab Nu         | mber:            | L13187    | 16         |       |
|----------------------|----------|------------|-------|-------|-------|----------|----------------|------------------|-----------|------------|-------|
| Project Number:      | 0222-0   | 001-101    |       |       |       |          | Report         | Date:            | 10/03/1   | 3          |       |
|                      |          |            |       | SAMPL | E RES | ULTS     |                |                  |           |            |       |
| Lab ID:              | L1318    | 716-07     |       |       |       |          | Date Co        | ollected:        | 09/19/1   | 3 14:15    |       |
| Client ID:           | TP-22    | -13 (6-8') |       |       |       |          | Date Re        | eceived:         | 09/20/1   | 3          |       |
| Sample Location:     | 295 M    | ARYLAND    | ST    |       |       |          | Field Pr       | ep:              | Not Spe   | ecified    |       |
| Matrix:              | Soil     |            |       |       |       |          |                |                  |           |            |       |
| Percent Solids:      | 86%      |            |       |       |       | Dilution | Date           | Date             | Prep      | Analytical |       |
| Parameter            | Result   | Qualifier  | Units | RL    | MDL   | Factor   | Prepared       | Analyzed         | Method    | Method     | Analy |
| Total Metals - Westb | orough L | _ab        |       |       |       |          |                |                  |           |            |       |
| Aluminum, Total      | 8000     |            | mg/kg | 9.1   | 1.8   | 2        | 09/26/13 13:10 | ) 09/27/13 18:16 | EPA 3050B | 1,6010C    | TT    |
| Antimony, Total      | ND       |            | mg/kg | 4.6   | 0.73  | 2        | 09/26/13 13:10 | ) 09/27/13 18:16 | EPA 3050B | 1,6010C    | ТТ    |
| Arsenic, Total       | 3.5      |            | mg/kg | 0.91  | 0.18  | 2        | 09/26/13 13:10 | ) 09/27/13 18:16 | EPA 3050B | 1,6010C    | ТТ    |
| Barium, Total        | 72       |            | mg/kg | 0.91  | 0.27  | 2        | 09/26/13 13:10 | ) 09/27/13 18:16 | EPA 3050B | 1,6010C    | ТТ    |
| Beryllium, Total     | 0.36     | J          | mg/kg | 0.46  | 0.09  | 2        | 09/26/13 13:10 | 09/27/13 18:16   | EPA 3050B | 1,6010C    | тт    |
| Cadmium Total        | 0.72     | 1          | ma/ka | 0.01  | 0.06  | 2        | 00/26/13 13.10 | 09/27/13 18.16   | EPA 3050B | 1 6010C    | тт    |

| Beryllium, Total | 0.36  | J | mg/kg | 0.46 | 0.09 | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | TT |
|------------------|-------|---|-------|------|------|---|---|---------|----|
| Cadmium, Total   | 0.72  | J | mg/kg | 0.91 | 0.06 | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | TT |
| Calcium, Total   | 67000 |   | mg/kg | 9.1  | 2.7  | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | TT |
| Chromium, Total  | 13    |   | mg/kg | 0.91 | 0.18 | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | TT |
| Cobalt, Total    | 6.3   |   | mg/kg | 1.8  | 0.46 | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | TT |
| Copper, Total    | 19    |   | mg/kg | 0.91 | 0.18 | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | ТТ |
| Iron, Total      | 16000 |   | mg/kg | 4.6  | 1.8  | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | TT |
| Lead, Total      | 48    |   | mg/kg | 4.6  | 0.18 | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | тт |
| Magnesium, Total | 21000 |   | mg/kg | 9.1  | 0.91 | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | тт |
| Manganese, Total | 390   |   | mg/kg | 0.91 | 0.18 | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | TT |
| Mercury, Total   | 0.08  |   | mg/kg | 0.08 | 0.02 | 1 | 09/27/13 09:10 09/27/13 14:28 EPA 7471B | 1,7471B | MC |
| Nickel, Total    | 14    |   | mg/kg | 2.3  | 0.36 | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | тт |
| Potassium, Total | 1100  |   | mg/kg | 230  | 36.  | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | тт |
| Selenium, Total  | ND    |   | mg/kg | 1.8  | 0.27 | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | тт |
| Silver, Total    | ND    |   | mg/kg | 0.91 | 0.18 | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | тт |
| Sodium, Total    | 120   | J | mg/kg | 180  | 27.  | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | тт |
| Thallium, Total  | ND    |   | mg/kg | 1.8  | 0.36 | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | тт |
| Vanadium, Total  | 18    |   | mg/kg | 0.91 | 0.09 | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | тт |
| Zinc, Total      | 94    |   | mg/kg | 4.6  | 0.64 | 2 | 09/26/13 13:10 09/27/13 18:16 EPA 3050B | 1,6010C | TT |



| Project Name:        | 295 M    | IARYLAND     | ST    |       |       |          | Lab Nu         | mber:            | L13187    | 16         |         |
|----------------------|----------|--------------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Project Number:      | 0222-0   | 001-101      |       |       |       |          | Report         | Date:            | 10/03/1   | 3          |         |
|                      |          |              |       | SAMPL | E RES | ULTS     |                |                  |           |            |         |
| Lab ID:              | L1318    | 716-08       |       |       |       |          | Date Co        | ollected:        | 09/19/1   | 3 15:30    |         |
| Client ID:           | TP-23    | -13 (0.5-3') |       |       |       |          | Date Re        | eceived:         | 09/20/1   | 3          |         |
| Sample Location:     | 295 M    | ARYLAND      | ST    |       |       |          | Field Pr       | ep:              | Not Spe   | ecified    |         |
| Matrix:              | Soil     |              |       |       |       |          |                |                  |           |            |         |
| Percent Solids:      | 87%      |              |       |       |       | Dilution | Date           | Date             | Prep      | Analytical |         |
| Parameter            | Result   | Qualifier    | Units | RL    | MDL   | Factor   | Prepared       | Analyzed         | Method    | Method     | Analyst |
| Total Metals - Westb | orough L | _ab          |       |       |       |          |                |                  |           |            |         |
| Arsenic, Total       | 2.8      |              | mg/kg | 0.43  | 0.09  | 1        | 09/26/13 13:10 | ) 09/27/13 19:36 | EPA 3050B | 1,6010C    | TT      |
| Barium, Total        | 78       |              | mg/kg | 0.43  | 0.13  | 1        | 09/26/13 13:10 | 0 09/27/13 19:36 | EPA 3050B | 1,6010C    | TT      |
| Cadmium, Total       | 0.63     |              | mg/kg | 0.43  | 0.03  | 1        | 09/26/13 13:10 | 0 09/27/13 19:36 | EPA 3050B | 1,6010C    | TT      |
| Copper, Total        | 12       |              | mg/kg | 0.43  | 0.09  | 1        | 09/26/13 13:10 | 0 09/27/13 19:36 | EPA 3050B | 1,6010C    | TT      |
| Lead, Total          | 17       |              | mg/kg | 2.2   | 0.09  | 1        | 09/26/13 13:10 | 0 09/27/13 19:36 | EPA 3050B | 1,6010C    | TT      |
| Mercury, Total       | ND       |              | mg/kg | 0.09  | 0.02  | 1        | 10/01/13 08:33 | 3 10/01/13 11:28 | EPA 7471B | 1,7471B    | MC      |
| Silver, Total        | ND       |              | mg/kg | 0.43  | 0.09  | 1        | 09/26/13 13:10 | 0 09/27/13 19:36 | EPA 3050B | 1,6010C    | TT      |
| Zinc, Total          | 71       |              | mg/kg | 2.2   | 0.30  | 1        | 09/26/13 13:10 | 0 09/30/13 12:48 | EPA 3050B | 1,6010C    | TT      |
|                      |          |              |       |       |       |          |                |                  |           |            |         |

| Project Name:        | 295 M    | ARYLAND      | ST    |       |       |          | Lab Nu         | mber:            | L13187    | 16         |         |
|----------------------|----------|--------------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Project Number:      | 0222-0   | 001-101      |       |       |       |          | Report         | Date:            | 10/03/1   | 3          |         |
|                      |          |              |       | SAMPL | E RES | ULTS     |                |                  |           |            |         |
| Lab ID:              | L1318    | 716-09       |       |       |       |          | Date Co        | ollected:        | 09/19/1   | 3 17:00    |         |
| Client ID:           | TP-24    | -13 (0.5-4') |       |       |       |          | Date Re        | ceived:          | 09/20/1   | 3          |         |
| Sample Location:     | 295 M    | ARYLAND      | ST    |       |       |          | Field Pr       | ep:              | Not Spe   | ecified    |         |
| Matrix:              | Soil     |              |       |       |       |          |                |                  |           |            |         |
| Percent Solids:      | 88%      |              |       |       |       | Dilution | Date           | Date             | Prep      | Analytical |         |
| Parameter            | Result   | Qualifier    | Units | RL    | MDL   | Factor   | Prepared       | Analyzed         | Method    | Method     | Analyst |
| Total Metals - Westb | orough L | _ab          |       |       |       |          |                |                  |           |            |         |
| Arsenic, Total       | 4.4      |              | mg/kg | 0.43  | 0.09  | 1        | 09/26/13 13:10 | ) 09/27/13 19:40 | EPA 3050B | 1,6010C    | TT      |
| Barium, Total        | 72       |              | mg/kg | 0.43  | 0.13  | 1        | 09/26/13 13:10 | ) 09/27/13 19:40 | EPA 3050B | 1,6010C    | TT      |
| Cadmium, Total       | 0.60     |              | mg/kg | 0.43  | 0.03  | 1        | 09/26/13 13:10 | ) 09/27/13 19:40 | EPA 3050B | 1,6010C    | TT      |
| Copper, Total        | 18       |              | mg/kg | 0.43  | 0.09  | 1        | 09/26/13 13:10 | ) 09/27/13 19:40 | EPA 3050B | 1,6010C    | TT      |
| Lead, Total          | 110      |              | mg/kg | 2.2   | 0.09  | 1        | 09/26/13 13:10 | ) 09/27/13 19:40 | EPA 3050B | 1,6010C    | TT      |
| Mercury, Total       | 3.7      |              | mg/kg | 0.09  | 0.02  | 1        | 10/01/13 08:33 | 3 10/01/13 11:39 | EPA 7471B | 1,7471B    | MC      |
| Silver, Total        | ND       |              | mg/kg | 0.43  | 0.09  | 1        | 09/26/13 13:10 | ) 09/27/13 19:40 | EPA 3050B | 1,6010C    | TT      |
| Zinc, Total          | 84       |              | mg/kg | 2.2   | 0.30  | 1        | 09/26/13 13:10 | ) 09/30/13 12:52 | EPA 3050B | 1,6010C    | TT      |
|                      |          |              |       |       |       |          |                |                  |           |            |         |



| Project Name:        | 295 M    | ARYLAND      | ST    |       |       |          | Lab Nu         | mber:            | L13187    | 16         |         |
|----------------------|----------|--------------|-------|-------|-------|----------|----------------|------------------|-----------|------------|---------|
| Project Number:      | 0222-0   | 001-101      |       |       |       |          | Report         | Date:            | 10/03/1   | 3          |         |
|                      |          |              |       | SAMPL | E RES | ULTS     |                |                  |           |            |         |
| Lab ID:              | L1318    | 716-10       |       |       |       |          | Date Co        | ollected:        | 09/20/1   | 3 11:30    |         |
| Client ID:           | TP-25    | -13 (0.5-4') |       |       |       |          | Date Re        | eceived:         | 09/20/1   | 3          |         |
| Sample Location:     | 295 M    | ARYLAND      | ST    |       |       |          | Field Pr       | ep:              | Not Spe   | ecified    |         |
| Matrix:              | Soil     |              |       |       |       |          |                |                  |           |            |         |
| Percent Solids:      | 86%      |              |       |       |       | Dilution | Date           | Date             | Prep      | Analytical |         |
| Parameter            | Result   | Qualifier    | Units | RL    | MDL   | Factor   | Prepared       | Analyzed         | Method    | Method     | Analyst |
| Total Metals - Westb | orough L | _ab          |       |       |       |          |                |                  |           |            |         |
| Arsenic, Total       | 3.4      |              | mg/kg | 0.44  | 0.09  | 1        | 09/26/13 13:10 | ) 09/27/13 19:44 | EPA 3050B | 1,6010C    | TT      |
| Barium, Total        | 69       |              | mg/kg | 0.44  | 0.13  | 1        | 09/26/13 13:10 | ) 09/27/13 19:44 | EPA 3050B | 1,6010C    | TT      |
| Cadmium, Total       | 1.1      |              | mg/kg | 0.44  | 0.03  | 1        | 09/26/13 13:10 | ) 09/27/13 19:44 | EPA 3050B | 1,6010C    | TT      |
| Copper, Total        | 37       |              | mg/kg | 0.44  | 0.09  | 1        | 09/26/13 13:10 | ) 09/27/13 19:44 | EPA 3050B | 1,6010C    | TT      |
| Lead, Total          | 120      |              | mg/kg | 2.2   | 0.09  | 1        | 09/26/13 13:10 | ) 09/27/13 19:44 | EPA 3050B | 1,6010C    | TT      |
| Mercury, Total       | 4.0      |              | mg/kg | 0.17  | 0.04  | 2        | 10/01/13 08:33 | 3 10/01/13 12:25 | EPA 7471B | 1,7471B    | MC      |
| Silver, Total        | ND       |              | mg/kg | 0.44  | 0.09  | 1        | 09/26/13 13:10 | ) 09/27/13 19:44 | EPA 3050B | 1,6010C    | TT      |
| Zinc, Total          | 87       |              | mg/kg | 2.2   | 0.30  | 1        | 09/26/13 13:10 | ) 09/30/13 12:56 | EPA 3050B | 1,6010C    | TT      |
|                      |          |              |       |       |       |          |                |                  |           |            |         |



Project Name:295 MARYLAND STProject Number:0222-001-101

 Lab Number:
 L1318716

 Report Date:
 10/03/13

### Method Blank Analysis Batch Quality Control

| Parameter               | Result    | Qualifier   | Units      | RL    | MDL    | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------|-----------|-------------|------------|-------|--------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Westboro | ugh Lab f | or sample(s | ): 01-02,0 | 04,07 | Batch: | WG639236-          | 1                |                  |                      |         |
| Mercury, Total          | ND        |             | mg/kg      | 0.08  | 0.02   | 1                  | 09/27/13 09:10   | 09/27/13 13:53   | 8 1,7471B            | MC      |

### **Prep Information**

Digestion Method: EPA 7471B

| Parameter              | Result Qua     | lifier Units    | RL         | MDL     | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method |    |
|------------------------|----------------|-----------------|------------|---------|--------------------|------------------|------------------|----------------------|----|
| Total Metals - Westbor | ough Lab for s | ample(s): 01-02 | 2,04,07-10 | ) Batcl | n: WG6392          | 248-1            |                  |                      |    |
| Aluminum, Total        | ND             | mg/kg           | 4.0        | 0.80    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | TT |
| Antimony, Total        | ND             | mg/kg           | 2.0        | 0.32    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | TT |
| Arsenic, Total         | ND             | mg/kg           | 0.40       | 0.08    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | TT |
| Barium, Total          | ND             | mg/kg           | 0.40       | 0.12    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | TT |
| Beryllium, Total       | ND             | mg/kg           | 0.20       | 0.04    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | ТТ |
| Cadmium, Total         | ND             | mg/kg           | 0.40       | 0.03    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | TT |
| Calcium, Total         | ND             | mg/kg           | 4.0        | 1.2     | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | TT |
| Chromium, Total        | ND             | mg/kg           | 0.40       | 0.08    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | ТТ |
| Cobalt, Total          | ND             | mg/kg           | 0.80       | 0.20    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | тт |
| Copper, Total          | ND             | mg/kg           | 0.40       | 0.08    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | ТТ |
| Iron, Total            | ND             | mg/kg           | 2.0        | 0.80    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | TT |
| Lead, Total            | ND             | mg/kg           | 2.0        | 0.08    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | TT |
| Magnesium, Total       | ND             | mg/kg           | 4.0        | 0.40    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | TT |
| Manganese, Total       | ND             | mg/kg           | 0.40       | 0.08    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | ТТ |
| Nickel, Total          | ND             | mg/kg           | 1.0        | 0.16    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | ТТ |
| Potassium, Total       | ND             | mg/kg           | 100        | 16.     | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | ТТ |
| Selenium, Total        | ND             | mg/kg           | 0.80       | 0.12    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | TT |
| Silver, Total          | ND             | mg/kg           | 0.40       | 0.08    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | тт |
| Sodium, Total          | ND             | mg/kg           | 80         | 12.     | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | ТТ |
| Thallium, Total        | ND             | mg/kg           | 0.80       | 0.16    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | ТТ |
| Vanadium, Total        | ND             | mg/kg           | 0.40       | 0.04    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | ТТ |
| Zinc, Total            | ND             | mg/kg           | 2.0        | 0.28    | 1                  | 09/26/13 13:10   | 09/27/13 17:23   | 1,6010C              | ТТ |



Project Name:295 MARYLAND STProject Number:0222-001-101

 Lab Number:
 L1318716

 Report Date:
 10/03/13

### Method Blank Analysis Batch Quality Control

| Prep | Information |
|------|-------------|
|------|-------------|

Digestion Method: EPA 3050B

| Parameter            | Result       | Qualifier   | Units     | RL     | MDL  | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|----------------------|--------------|-------------|-----------|--------|------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Westb | orough Lab f | for sample( | s): 08-10 | Batch: | WG64 | 0061-1             |                  |                  |                      |         |
| Mercury, Total       | ND           |             | mg/kg     | 0.08   | 0.02 | 1                  | 10/01/13 08:33   | 10/01/13 11:17   | 7 1,7471B            | MC      |

### **Prep Information**

Digestion Method: EPA 7471B



**Project Name:** 295 MARYLAND ST **Project Number:** 0222-001-101

| Parameter                                    | LCS<br>%Recovery   | Qual     | LCSD<br>%Recovery | Qual    | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|--|--------------------|----------|-------------------|---------|---------------------|-----|------|------------|
| Total Metals - Westborough Lab Associated sa | ample(s): 01-02,04 | ,07 Bate | ch: WG639236-2    | SRM Lot | Number: 0518-10-02  |     |      |            |
| Mercury, Total                               | 124                |          | -                 |         | 67-133              | -   |      |            |



**Project Name:** 295 MARYLAND ST

**Project Number:** 0222-001-101

|                                | LCS                                  | LCSD              | %Recovery               |      |            |
|--------------------------------|--------------------------------------|-------------------|-------------------------|------|------------|
| Parameter                      | %Recovery                            | %Recovery         | Limits                  | RPD  | RPD Limits |
| Total Metals - Westborough Lab | Associated sample(s): 01-02,04,07-10 | Batch: WG639248-2 | SRM Lot Number: 0518-10 | )-02 |            |
| Aluminum, Total                | 82                                   | -                 | 29-171                  | -    |            |
| Antimony, Total                | 122                                  | -                 | 4-196                   | -    |            |
| Arsenic, Total                 | 104                                  | -                 | 81-119                  | -    |            |
| Barium, Total                  | 96                                   | -                 | 83-118                  | -    |            |
| Beryllium, Total               | 104                                  | -                 | 83-117                  | -    |            |
| Cadmium, Total                 | 94                                   | -                 | 82-117                  | -    |            |
| Calcium, Total                 | 90                                   | -                 | 83-117                  | -    |            |
| Chromium, Total                | 97                                   | -                 | 80-119                  | -    |            |
| Cobalt, Total                  | 99                                   | -                 | 83-117                  | -    |            |
| Copper, Total                  | 101                                  | -                 | 83-117                  | -    |            |
| Iron, Total                    | 94                                   | -                 | 51-150                  | -    |            |
| Lead, Total                    | 94                                   | -                 | 80-120                  | -    |            |
| Magnesium, Total               | 83                                   | -                 | 74-126                  | -    |            |
| Manganese, Total               | 100                                  | -                 | 83-117                  | -    |            |
| Nickel, Total                  | 99                                   | -                 | 82-117                  | -    |            |
| Potassium, Total               | 99                                   | -                 | 74-126                  | -    |            |
| Selenium, Total                | 106                                  | -                 | 80-120                  | -    |            |
| Silver, Total                  | 104                                  | -                 | 66-134                  | -    |            |
| Sodium, Total                  | 106                                  | -                 | 74-127                  | -    |            |
| Thallium, Total                | 96                                   | -                 | 79-120                  | -    |            |
| Vanadium, Total                | 98                                   | -                 | 79-121                  | -    |            |
|                                |                                      |                   |                         |      |            |



**Project Name:** 295 MARYLAND ST **Project Number:** 0222-001-101

| Parameter                                    | LCS<br>%Recovery         | LCSD<br>%Recovery | %Recovery<br>Limits      | RPD | RPD Limits |
|--|--------------------------|-------------------|--------------------------|-----|------------|
| Total Metals - Westborough Lab Associated sa | ample(s): 01-02,04,07-10 | Batch: WG639248-2 | SRM Lot Number: 0518-10- | 02  |            |
| Zinc, Total                                  | 97                       | -                 | 82-119                   | -   |            |
| Total Metals - Westborough Lab Associated sa | ample(s): 08-10 Batch:   | WG640061-2 SRM Lo | t Number: 0518-10-02     |     |            |
| Mercury, Total                               | 121                      | -                 | 67-133                   | -   |            |



|                 |                 | Matrix Spike Analysis<br>Batch Quality Control |              |          |
|-----------------|-----------------|--|--------------|----------|
| Project Name:   | 295 MARYLAND ST |  | Lab Number:  | L1318716 |
| Project Number: | 0222-001-101    |  | Report Date: | 10/03/13 |
|                 |                 |  |              |          |

| Parameter                     | Native<br>Sample | MS<br>Added  | MS<br>Found | MS<br>%Recovery |           | MSD<br>ound | MSD<br>%Recovery | Recove<br>Qual Limit |              | RPD<br>Qual Limits |
|-------------------------------|------------------|--------------|-------------|-----------------|-----------|-------------|------------------|----------------------|--------------|--------------------|
| Total Metals - Westborough La | b Associated     | l sample(s): | 01-02,04,07 | QC Batch II     | D: WG6392 | 236-4       | QC Sample: L1    | 1317777-02 0         | Client ID: N | VIS Sample         |
| Mercury, Total                | ND               | 0.159        | 0.24        | 151             | Q         | -           | -                | 70-130               | -            | 35                 |



#### **Matrix Spike Analysis Batch Quality Control**

Lab Number: L1318716 **Report Date:** 10/03/13

**Project Name:** 295 MARYLAND ST **Project Number:** 0222-001-101

MS MSD RPD Native MS MS MSD Recovery Sample %Recovery Limits Added Found Found Limits %Recovery RPD Parameter Client ID: TP-4-13 (0-3') Total Metals - Westborough Lab Associated sample(s): 01-02,04,07-10 QC Batch ID: WG639248-4 QC Sample: L1318716-01 Aluminum, Total 8700 181 9100 Q 75-125 35 221 -ND 45.2 39 86 75-125 35 Antimony, Total ---Arsenic, Total 7.0 10.8 16 83 75-125 35 ---Barium, Total 140 181 280 78 75-125 35 -\_ -Beryllium, Total 0.44 4.52 4.6 102 -75-125 35 --Cadmium, Total 0.96 4.61 4.9 86 75-125 35 ---Calcium, Total 40000 903 52000 Q 75-125 35 1330 ---Chromium, Total 20. 18.1 35 83 75-125 35 ---Cobalt, Total 6.0 45.2 44 84 75-125 35 -\_ -Copper, Total 32. 22.6 51 84 -75-125 35 --Iron, Total 16000 90.3 16000 Q 75-125 35 0 ---Lead, Total 920 880 Q 46.1 0 --75-125 35 -Magnesium, Total Q 75-125 13000 903 15000 221 --\_ 35 Manganese, Total 45.2 340 390 111 -75-125 35 --Nickel, Total 12. 45.2 50 84 -75-125 35 --903 2000 75-125 35 Potassium, Total 950 116 -\_ \_ 10.8 10 92 75-125 Selenium, Total ND -\_ 35 -75-125 ND 27.1 26 96 35 Silver, Total ---88.J 903 1000 35 Sodium, Total 111 --75-125 \_ Thallium, Total ND 10.8 6.8 63 Q --75-125 \_ 35 Vanadium, Total 19. 45.2 60 91 75-125 35 \_ --



|                 |                |             |             |                  | Spike Analy<br>Quality Contr |     |              |          |
|-----------------|----------------|-------------|-------------|------------------|------------------------------|-----|--------------|----------|
| Project Name:   | 295 MARYLAND S | Т           |             | Baton            | Quality Conti                |     | Lab Number:  | L1318716 |
| Project Number: | 0222-001-101   |             |             |                  |                              |     | Report Date: | 10/03/13 |
|                 | Native         | MS<br>Addod | MS<br>Found | MS<br>% Pacavary | MSD<br>Found                 | MSD | Recovery     | RPD      |

| Parameter      |                   | Sample     | Added        | Found      | %Recovery     |          | und    | %Recovery        | Limits       | RPD        | Limits        |
|----------------|-------------------|------------|--------------|------------|---------------|----------|--------|------------------|--------------|------------|---------------|
| Total Metals - | Westborough Lab A | Associated | sample(s): 0 | 1-02,04,07 | -10 QC Batch  | ID: WG63 | 9248-4 | QC Sample: L1    | 318716-01    | Client ID: | TP-4-13 (0-3' |
| Zinc, Total    |                   | 210        | 45.2         | 200        | 0             | Q        | -      | -                | 75-125       | -          | 35            |
| Total Metals - | Westborough Lab A | Associated | sample(s): 0 | 8-10 QC    | Batch ID: WG6 | 40061-4  | QC Sa  | mple: L1318716-0 | B Client ID: | TP-23-13   | 3 (0.5-3')    |
| Mercury, Total |                   | ND         | 0.185        | 0.22       | 119           |          | -      | -                | 70-130       | -          | 35            |



| Project Name:<br>Project Number: | 295 MARYLAND ST<br>0222-001-101 | Li            | ab Duplicate Analy<br>Batch Quality Control |       |     | ab Number<br>eport Date |            |  |
|----------------------------------|---------------------------------|---------------|---|-------|-----|-------------------------|------------|--|
| arameter                         |                                 | Native Sample | Dunlicate Sample                            | Units | RPD | Qual                    | RPD Limits |  |

| Parameter                      | Native San                        | nple D       | Duplicate Sampl | le Units       | RPD      | Qual       | RPD Limits |
|--------------------------------|-----------------------------------|--------------|-----------------|----------------|----------|------------|------------|
| Total Metals - Westborough Lab | Associated sample(s): 01-02,04,07 | QC Batch ID: | WG639236-3      | QC Sample: L13 | 17777-02 | Client ID: | DUP Sample |
| Mercury, Total                 | ND                                |              | 0.02J           | mg/kg          | NC       |            | 35         |



#### Lab Duplicate Analysis Batch Quality Control

**Project Name:** 295 MARYLAND ST Project Number:

0222-001-101

Lab Number: Report Date:

L1318716 10/03/13

**Native Sample Duplicate Sample** Units RPD **RPD** Limits Parameter Total Metals - Westborough Lab Associated sample(s): 01-02,04,07-10 QC Batch ID: WG639248-3 QC Sample: L1318716-01 Client ID: TP-4-13 (0-3') Aluminum. Total 8700 8400 mg/kg 4 35 Antimony, Total NC ND ND mg/kg 35 Arsenic, Total 7.0 7.8 mg/kg 11 35 Barium, Total 140 130 mg/kg 7 35 Beryllium, Total 0.44 0.43J mg/kg NC 35 Cadmium, Total 0.96 1.0 mg/kg 4 35 Calcium, Total 40000 40000 mg/kg 0 35 Chromium, Total 20. 22 mg/kg 10 35 Cobalt, Total 6.0 6.2 mg/kg 3 35 Copper, Total 32. 38 mg/kg 17 35 Iron, Total 16000 16000 mg/kg 0 35 Lead, Total 920 930 mg/kg 35 1 Magnesium, Total 13000 14000 7 35 mg/kg Manganese, Total 340 370 mg/kg 8 35 Nickel, Total 12. 13 8 35 mg/kg Potassium, Total 950 970 mg/kg 2 35 Selenium, Total ND ND mg/kg NC 35 Silver, Total ND ND mg/kg NC 35 35 Sodium, Total 88.J 91J mg/kg NC



### Lab Duplicate Analysis Batch Quality Control

Project Name:295 MARYLAND STProject Number:0222-001-101

 Lab Number:
 L1318716

 Report Date:
 10/03/13

| arameter  | Native Sample  | Duplicate Sample        | Units         | RPD            | RPD Limits                |
|---|----------------|-------------------------|---------------|----------------|---------------------------|
| otal Metals - Westborough Lab Associated sample(s): 0 | 01-02,04,07-10 | QC Batch ID: WG639248-3 | QC Sample:    | L1318716-01    | Client ID: TP-4-13 (0-3') |
| Thallium, Total                                       | ND             | ND                      | mg/kg         | NC             | 35                        |
| Vanadium, Total                                       | 19.            | 18                      | mg/kg         | 5              | 35                        |
| Zinc, Total   | 210            | 190                     | mg/kg         | 10             | 35                        |
| otal Metals - Westborough Lab Associated sample(s): 0 | 08-10 QC Batch | n ID: WG640061-3 QC Sam | nple: L131871 | 6-08 Client ID | : TP-23-13 (0.5-3')       |
| Mercury, Total  | ND             | ND                      | mg/kg         | NC             | 35                        |



# INORGANICS & MISCELLANEOUS



| Serial No:10031311:13 |
|-----------------------|
|-----------------------|

| Project Name:<br>Project Number:                     | 295 MARYLAND ST<br>0222-001-101                          | Lab Number:<br>Report Date:                      | L1318716<br>10/03/13                        |
|--|--|--|---|
|  | SA   | MPLE RESULTS                                     |   |
| Lab ID:<br>Client ID:<br>Sample Location:<br>Matrix: | L1318716-01<br>TP-4-13 (0-3')<br>295 MARYLAND ST<br>Soil | Date Collected:<br>Date Received:<br>Field Prep: | 09/18/13 16:30<br>09/20/13<br>Not Specified |

| Parameter             | Result          | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - V | Vestborough Lat | )         |       |       |     |                    |                  |                  |                      |         |
| Solids, Total         | 86.1            |           | %     | 0.100 | NA  | 1                  | -                | 09/24/13 21:45   | 30,2540G             | RT      |



|  | Serial | No:10031311:13 |
|--|--------|----------------|
|--|--------|----------------|

| Project Name:<br>Project Number:                     | 295 MARYLAND ST<br>0222-001-101                          | Lab Number:<br>Report Date:                      | L1318716<br>10/03/13                        |
|--|--|--|---|
|  | SAMPLE RESULTS   |  |   |
| Lab ID:<br>Client ID:<br>Sample Location:<br>Matrix: | L1318716-02<br>TP-5-13 (0-3')<br>295 MARYLAND ST<br>Soil | Date Collected:<br>Date Received:<br>Field Prep: | 09/18/13 11:50<br>09/20/13<br>Not Specified |

| Parameter           | Result          | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|---------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - | Westborough Lab | )         |       |       |     |                    |                  |                  |                      |         |
| Solids, Total       | 85.8            |           | %     | 0.100 | NA  | 1                  | -                | 09/24/13 21:45   | 30,2540G             | RT      |



|  | Serial | No:10031311:13 |
|--|--------|----------------|
|--|--------|----------------|

| Project Name:<br>Project Number:                     | 295 MARYLAND ST<br>0222-001-101                          | Lab Number:<br>Report Date:                      | L1318716<br>10/03/13                        |
|--|--|--|---|
|  | SAMPLE RESULTS   |  |   |
| Lab ID:<br>Client ID:<br>Sample Location:<br>Matrix: | L1318716-03<br>TP-6-13 (7-9')<br>295 MARYLAND ST<br>Soil | Date Collected:<br>Date Received:<br>Field Prep: | 09/18/13 15:30<br>09/20/13<br>Not Specified |

| Parameter             | Result          | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - V | Westborough Lab | )         |       |       |     |                    |                  |                  |                      |         |
| Solids, Total         | 86.2            |           | %     | 0.100 | NA  | 1                  | -                | 09/24/13 21:45   | 30,2540G             | RT      |



|  | Serial | No:10031311:13 |
|--|--------|----------------|
|--|--------|----------------|

| Project Name:    | 295 MARYLAND ST |                | Lab Number:     | L1318716       |
|------------------|-----------------|----------------|-----------------|----------------|
| Project Number:  | 0222-001-101    |                | Report Date:    | 10/03/13       |
|                  |                 | SAMPLE RESULTS |                 |                |
| Lab ID:          | L1318716-04     |                | Date Collected: | 09/19/13 08:40 |
| Client ID:       | TP-7-13 (0-3')  |                | Date Received:  | 09/20/13       |
| Sample Location: | 295 MARYLAND ST |                | Field Prep:     | Not Specified  |

| Parameter             | Result         | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-----------------------|----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - W | estborough Lab | )         |       |       |     |                    |                  |                  |                      |         |
| Solids, Total         | 86.6           |           | %     | 0.100 | NA  | 1                  | -                | 09/24/13 21:45   | 30,2540G             | RT      |



Matrix:

Soil

|  | Serial | No:10031311:13 |
|--|--------|----------------|
|--|--------|----------------|

| Project Name:<br>Project Number:                     | 295 MARYLAND ST<br>0222-001-101                           | Lab Number:<br>Report Date:                      | L1318716<br>10/03/13                        |
|--|---|--|---|
|  | SAMPLE RESULTS  |  |   |
| Lab ID:<br>Client ID:<br>Sample Location:<br>Matrix: | L1318716-05<br>TP-9-13 (9-12')<br>295 MARYLAND ST<br>Soil | Date Collected:<br>Date Received:<br>Field Prep: | 09/19/13 09:30<br>09/20/13<br>Not Specified |

| Parameter             | Result          | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - W | /estborough Lab | )         |       |       |     |                    |                  |                  |                      |         |
| Solids, Total         | 86.3            |           | %     | 0.100 | NA  | 1                  | -                | 09/24/13 21:45   | 30,2540G             | RT      |



| Project Name:    | 295 MARYLAND ST |                | Lab Number:     | L1318716       |
|------------------|-----------------|----------------|-----------------|----------------|
| Project Number:  | 0222-001-101    |                | Report Date:    | 10/03/13       |
|                  |                 | SAMPLE RESULTS |                 |                |
| Lab ID:          | L1318716-06     |                | Date Collected: | 09/19/13 16:00 |
| Client ID:       | TP-13-13 (8-9') |                | Date Received:  | 09/20/13       |
| Sample Location: | 295 MARYLAND ST |                | Field Prep:     | Not Specified  |

| Parameter             | Result          | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - \ | Westborough Lab |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total         | 85.6            |           | %     | 0.100 | NA  | 1                  | -                | 09/24/13 21:45   | 30,2540G             | RT      |



Matrix: Soil

|  | Serial | No:10031311:13 |
|--|--------|----------------|
|--|--------|----------------|

| Project Name:<br>Project Number:                     | 295 MARYLAND ST<br>0222-001-101                           | Lab Number:<br>Report Date:                      | L1318716<br>10/03/13                        |
|--|---|--|---|
|  | SAMPLE RESULTS  |  |   |
| Lab ID:<br>Client ID:<br>Sample Location:<br>Matrix: | L1318716-07<br>TP-22-13 (6-8')<br>295 MARYLAND ST<br>Soil | Date Collected:<br>Date Received:<br>Field Prep: | 09/19/13 14:15<br>09/20/13<br>Not Specified |

| Parameter           | Result          | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|---------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - | Westborough Lab | •         |       |       |     |                    |                  |                  |                      |         |
| Solids, Total       | 85.5            |           | %     | 0.100 | NA  | 1                  | -                | 09/24/13 21:45   | 30,2540G             | RT      |



|  | Serial | No:10031311:13 |
|--|--------|----------------|
|--|--------|----------------|

| Project Name:               | 295 MARYLAND ST         | Lab Number:     | L1318716       |
|-----------------------------|-------------------------|-----------------|----------------|
| Project Number:             | 0222-001-101            | Report Date:    | 10/03/13       |
|                             | SAMPLE RES              | ULTS            |                |
| Lab ID:                     | L1318716-08             | Date Collected: | 09/19/13 15:30 |
| Client ID:                  | TP-23-13 (0.5-3')       | Date Received:  | 09/20/13       |
| Sample Location:<br>Matrix: | 295 MARYLAND ST<br>Soil | Field Prep:     | Not Specified  |

| Parameter           | Result          | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|---------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - | Westborough Lab | )         |       |       |     |                    |                  |                  |                      |         |
| Solids, Total       | 87.3            |           | %     | 0.100 | NA  | 1                  | -                | 09/24/13 21:45   | 30,2540G             | RT      |



| Project Name:<br>Project Number:                     | 295 MARYLAND ST<br>0222-001-101                             |                | Lab Number:<br>Report Date:                      | L1318716<br>10/03/13                        |
|--|---|----------------|--|---|
|  | :   | SAMPLE RESULTS |  |   |
| Lab ID:<br>Client ID:<br>Sample Location:<br>Matrix: | L1318716-09<br>TP-24-13 (0.5-4')<br>295 MARYLAND ST<br>Soil |                | Date Collected:<br>Date Received:<br>Field Prep: | 09/19/13 17:00<br>09/20/13<br>Not Specified |

| Parameter           | Result          | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|---------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - | Westborough Lab | )         |       |       |     |                    |                  |                  |                      |         |
| Solids, Total       | 87.6            |           | %     | 0.100 | NA  | 1                  | -                | 09/24/13 21:45   | 30,2540G             | RT      |



|  | Serial | No:10031311:13 |
|--|--------|----------------|
|--|--------|----------------|

| Project Name:<br>Project Number:                     | 295 MARYLAND ST<br>0222-001-101                             |                | Lab Number:<br>Report Date:                      | L1318716<br>10/03/13                        |
|--|---|----------------|--|---|
|  |   | SAMPLE RESULTS |  |   |
| Lab ID:<br>Client ID:<br>Sample Location:<br>Matrix: | L1318716-10<br>TP-25-13 (0.5-4')<br>295 MARYLAND ST<br>Soil |                | Date Collected:<br>Date Received:<br>Field Prep: | 09/20/13 11:30<br>09/20/13<br>Not Specified |

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 86.3   |           | %     | 0.100 | NA  | 1                  | -                | 09/24/13 21:45   | 30,2540G             | RT      |



| Project Name:   | 295 MARYLAND ST | Lab Duplicate Analysis<br>Batch Quality Control | Lab Number:  | L1318716 |
|-----------------|-----------------|---|--------------|----------|
| Project Number: | 0222-001-101    |   | Report Date: | 10/03/13 |
|                 |                 |   |              |          |

| Parameter                           | Native Sam                  | ple Duplicate Sam       | ple Units     | RPD       | Qual       | RPD Limits     |
|-------------------------------------|-----------------------------|-------------------------|---------------|-----------|------------|----------------|
| General Chemistry - Westborough Lab | Associated sample(s): 01-10 | QC Batch ID: WG638744-1 | QC Sample: L1 | 318716-01 | Client ID: | TP-4-13 (0-3') |
| Solids, Total                       | 86.1                        | 85.1                    | %             | 1         |            | 20             |



Lab Number: L1318716 Report Date: 10/03/13

# Project Name:295 MARYLAND STProject Number:0222-001-101

### **Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Absent

### Reagent H2O Preserved Vials Frozen on: NA

### Cooler Information Custody Seal Cooler

A

**Container Information** Temp deg C **Container ID Container Type** Cooler pН Pres Seal Analysis(\*) L1318716-01A Vial Large Septa unpreserved Υ NYTCL-8260(14) A N/A 4.3 Absent L1318716-01B Amber 250ml unpreserved А N/A 4.3 Y Absent BE-TI(180),NYTCL-8270(14), AS-TI(180), BA-TI(180),ÁG-TI(180),ÁL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14), V-TI(180), FE-TI(180),HERB-8151(14),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) L1318716-01C Amber 250ml unpreserved N/A 4.3 Absent BE-TI(180),NYTCL-А Υ 8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180), SE-TI(180), ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HERB-8151(14),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) L1318716-02A Vial Large Septa unpreserved А N/A 4.3 Absent NYTCL-8260(14) Y L1318716-02B Amber 250ml unpreserved Α N/A 4.3 BE-TI(180),NYTCL-Y Absent 8270(14),AS-TI(180),BA-TI(180), AG-TI(180), AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HERB-8151(14),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180).K-



TI(180),NA-TI(180)

Project Name:295 MARYLAND STProject Number:0222-001-101

Lab Number: L1318716 Report Date: 10/03/13

| Container Info | ormation                     |        |     | Temp  |      |        |  |
|----------------|------------------------------|--------|-----|-------|------|--------|--|
| Container ID   | Container Type               | Cooler | рΗ  | deg C | Pres | Seal   | Analysis(*)  |
| L1318716-02C   | Amber 250ml unpreserved      | A      | N/A | 4.3   | Υ    | Absent | BE-TI(180),NYTCL-<br>8270(14),AS-TI(180),BA-<br>TI(180),AG-TI(180),AL-<br>TI(180),CR-TI(180),NI-<br>TI(180),TL-TI(180),TS(7),CU-<br>TI(180),PB-TI(180),SB-<br>TI(180),CO-TI(180),NYTCL-<br>8081(14),V-TI(180),NYTCL-<br>8081(14),V-TI(180),MN-<br>TI(180),HERB-8151(14),HG-<br>T(28),MG-TI(180),MN-<br>TI(180),NYTCL-8082(14),CA-<br>TI(180),CD-TI(180),K-<br>TI(180),NA-TI(180) |
| L1318716-03A   | Vial Large Septa unpreserved | A      | N/A | 4.3   | Y    | Absent | TCLP-EXT-ZHE(14),NYTCL-<br>8260(14)  |
| L1318716-03B   | Amber 250ml unpreserved      | А      | N/A | 4.3   | Y    | Absent | NYTCL-8270(14),TS(7)   |
| L1318716-03C   | Amber 250ml unpreserved      | А      | N/A | 4.3   | Y    | Absent | NYTCL-8270(14),TS(7)   |
| L1318716-03X   | Vial unpreserved split       | А      | N/A | 4.3   | Y    | Absent | TCLP-VOA(14)   |
| L1318716-03Y   | Vial unpreserved split       | А      | N/A | 4.3   | Y    | Absent | TCLP-VOA(14)   |
| L1318716-04A   | Amber 250ml unpreserved      | А      | N/A | 4.3   | Y    | Absent | TS(7)  |
| L1318716-04B   | Amber 250ml unpreserved      | A      | N/A | 4.3   | Y    | Absent | NYTCL-8270(14),AS-<br>TI(180),BA-TI(180),AG-<br>TI(180),TS(7),CU-TI(180),PB-<br>TI(180),ZN-TI(180),HG-<br>T(28),NYTCL-8082(14),CD-<br>TI(180)  |
| L1318716-04C   | Amber 250ml unpreserved      | A      | N/A | 4.3   | Y    | Absent | NYTCL-8270(14),AS-<br>TI(180),BA-TI(180),AG-<br>TI(180),TS(7),CU-TI(180),PB-<br>TI(180),ZN-TI(180),HG-<br>T(28),NYTCL-8082(14),CD-<br>TI(180)  |
| L1318716-05A   | Vial Large Septa unpreserved | A      | N/A | 4.3   | Y    | Absent | TCLP-EXT-ZHE(14),NYTCL-<br>8260(14)  |
| L1318716-05B   | Amber 250ml unpreserved      | А      | N/A | 4.3   | Y    | Absent | NYTCL-8270(14),TS(7)   |
| L1318716-05C   | Amber 250ml unpreserved      | А      | N/A | 4.3   | Y    | Absent | NYTCL-8270(14),TS(7)   |
| L1318716-05X   | Vial unpreserved split       | А      | N/A | 4.3   | Y    | Absent | TCLP-VOA(14)   |
| L1318716-05Y   | Vial unpreserved split       | А      | N/A | 4.3   | Y    | Absent | TCLP-VOA(14)   |
| L1318716-06A   | Vial Large Septa unpreserved | А      | N/A | 4.3   | Y    | Absent | NYTCL-8260(14)   |
| L1318716-06B   | Amber 250ml unpreserved      | А      | N/A | 4.3   | Υ    | Absent | NYTCL-8270(14),TS(7)   |
| L1318716-06C   | Amber 250ml unpreserved      | А      | N/A | 4.3   | Y    | Absent | NYTCL-8270(14),TS(7)   |
| L1318716-07A   | Vial Large Septa unpreserved | A      | N/A | 4.3   | Y    | Absent | NYTCL-8260(14)   |



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Lab Number: L1318716 Report Date: 10/03/13

| Container Info | ormation                |        |     | Temp  |      |        |   |
|----------------|-------------------------|--------|-----|-------|------|--------|---|
| Container ID   | Container Type          | Cooler | рН  | deg C | Pres | Seal   | Analysis(*)   |
| L1318716-07B   | Amber 250ml unpreserved | A      | N/A | 4.3   | Υ    | Absent | BE-TI(180),NYTCL-<br>8270(14),AS-TI(180),BA-<br>TI(180),AG-TI(180),AL-<br>TI(180),CR-TI(180),NI-<br>TI(180),TL-TI(180),TS(7),CU-<br>TI(180),PB-TI(180),SB-<br>TI(180),SE-TI(180),ZN-<br>TI(180),SE-TI(180),NYTCL-<br>8081(14),V-TI(180),FE-<br>TI(180),HERB-8151(14),HG-<br>T(28),MG-TI(180),MN-<br>TI(180),NYTCL-8082(14),CA-<br>TI(180),CD-TI(180),K-<br>TI(180),NA-TI(180)   |
| L1318716-07C   | Amber 250ml unpreserved | A      | N/A | 4.3   | Y    | Absent | BE-TI(180),NYTCL-<br>8270(14),AS-TI(180),BA-<br>TI(180),AG-TI(180),AL-<br>TI(180),CR-TI(180),NI-<br>TI(180),TL-TI(180),TS(7),CU-<br>TI(180),PB-TI(180),SB-<br>TI(180),SE-TI(180),XTCL-<br>8081(14),V-TI(180),NYTCL-<br>8081(14),V-TI(180),FE-<br>TI(180),HERB-8151(14),HG-<br>T(28),MG-TI(180),MN-<br>TI(180),NYTCL-8082(14),CA-<br>TI(180),CD-TI(180),K-<br>TI(180),NA-TI(180) |
| L1318716-08A   | Amber 250ml unpreserved | А      | N/A | 4.3   | Y    | Absent | TS(7)   |
| L1318716-08B   | Amber 250ml unpreserved | A      | N/A | 4.3   | Y    | Absent | NYTCL-8270(14),AS-<br>TI(180),BA-TI(180),AG-<br>TI(180),TS(7),CU-TI(180),PB-<br>TI(180),ZN-TI(180),HG-<br>T(28),NYTCL-8082(14),CD-<br>TI(180)   |
| L1318716-08C   | Amber 250ml unpreserved | A      | N/A | 4.3   | Y    | Absent | NYTCL-8270(14),AS-<br>TI(180),BA-TI(180),AG-<br>TI(180),TS(7),CU-TI(180),PB-<br>TI(180),ZN-TI(180),HG-<br>T(28),NYTCL-8082(14),CD-<br>TI(180)   |
| L1318716-09A   | Amber 250ml unpreserved | А      | N/A | 4.3   | Y    | Absent | TS(7)   |
| L1318716-09B   | Amber 250ml unpreserved | A      | N/A | 4.3   | Y    | Absent | NYTCL-8270(14),AS-<br>TI(180),BA-TI(180),AG-<br>TI(180),TS(7),CU-TI(180),PB-<br>TI(180),ZN-TI(180),HG-<br>T(28),NYTCL-8082(14),CD-<br>TI(180)   |
| L1318716-09C   | Amber 250ml unpreserved | A      | N/A | 4.3   | Y    | Absent | NYTCL-8270(14),AS-<br>TI(180),BA-TI(180),AG-<br>TI(180),TS(7),CU-TI(180),PB-<br>TI(180),ZN-TI(180),HG-<br>T(28),NYTCL-8082(14),CD-<br>TI(180)   |
| L1318716-10A   | Amber 250ml unpreserved | А      | N/A | 4.3   | Y    | Absent | TS(7)   |



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| Container Info | ormation                |        |     | Temp  |      |        |   |
|----------------|-------------------------|--------|-----|-------|------|--------|---|
| Container ID   | Container Type          | Cooler | рΗ  | deg Ċ | Pres | Seal   | Analysis(*)   |
| L1318716-10B   | Amber 250ml unpreserved | A      | N/A | 4.3   | Y    | Absent | NYTCL-8270(14),AS-<br>TI(180),BA-TI(180),AG-<br>TI(180),TS(7),CU-TI(180),PB-<br>TI(180),ZN-TI(180),HG-<br>T(28),NYTCL-8082(14),CD-<br>TI(180) |
| L1318716-10C   | Amber 250ml unpreserved | A      | N/A | 4.3   | Y    | Absent | NYTCL-8270(14),AS-<br>TI(180),BA-TI(180),AG-<br>TI(180),TS(7),CU-TI(180),PB-<br>TI(180),ZN-TI(180),HG-<br>T(28),NYTCL-8082(14),CD-<br>TI(180) |

### **Container Comments**

L1318716-01B

L1318716-07B

L1318716-07C



### Project Name: 295 MARYLAND ST

**Project Number:** 0222-001-101

### Lab Number: L1318716

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### GLOSSARY

#### Acronyms

- EDL Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EPA Environmental Protection Agency.
- LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD Laboratory Control Sample Duplicate: Refer to LCS.
- LFB Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD Matrix Spike Sample Duplicate: Refer to MS.
- NA Not Applicable.
- NC Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI Not Ignitable.
- RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

#### Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

#### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

#### Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit for common lab contaminants) in the analyte above the reporting limit.
- C -Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with "J" Qualifiers



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### Project Name: 295 MARYLAND ST

Project Number: 0222-001-101

Lab Number: L1318716

**Report Date:** 10/03/13

#### Data Qualifiers

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- **P** The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.



Project Name: 295 MARYLAND ST Project Number: 0222-001-101 
 Lab Number:
 L1318716

 Report Date:
 10/03/13

### REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

### LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



### **Certificate/Approval Program Summary**

Last revised October 1, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

#### Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

*Drinking Water* (<u>Inorganic Parameters</u>: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. <u>Organic Parameters</u>: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). <u>Microbiology Parameters</u>: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

*Wastewater/Non-Potable Water* (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. <u>Organic Parameters</u>: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. <u>Microbiology Parameters</u>: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

*Solid Waste/Soil* (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. <u>Organic Parameters</u>: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270). )

### State of Illinois Certificate/Lab ID: 003155. NELAP Accredited.

*Drinking Water* (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. <u>Organic Parameters</u>: EPA 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. <u>Organic Parameters</u>: EPA 608, 624, 625.)

*Hazardous and Solid Waste* (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. <u>Organic Parameters</u>: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

### Maine Department of Human Services Certificate/Lab ID: 2009024.

*Drinking Water* (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. <u>Organic Parameters</u>: 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. <u>Organic Parameters</u>: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

*Solid Waste/Soil* (<u>Inorganic Parameters</u>: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. <u>Organic Parameters</u>: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

### Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

*Drinking Water* (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. <u>Organic Parameters</u>: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. <u>Microbiology Parameters</u>: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water* (Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

<u>Organic Parameters</u>: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. <u>Microbiology Parameters</u>: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services <u>Certificate/Lab ID</u>: 200307. NELAP Accredited. Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. <u>Organic Parameters</u>: 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. <u>Organic Parameters</u>: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

*Solid & Chemical Materials* (<u>Inorganic Parameters</u>: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. <u>Organic Parameters</u>: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services <u>Certificate/Lab ID</u>: 2064. NELAP Accredited. Drinking Water (<u>Organic Parameters</u>: EPA 524.2: Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: EPA 8260C: 1,3,5-Trichlorobenzene. EPA 8015C(M): TPH.)

Solid & Chemical Materials (Organic Parameters: EPA 8260C: 1,3,5-Trichlorobenzene.)

#### New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

*Drinking Water* (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. <u>Organic Parameters</u>: EPA 332, 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310C, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, 4500SO4-E, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. <u>Organic Parameters</u>: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 5030C, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Page Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010Å, 1030, 1311, 1312, 3005Å, 3050B, 7471Å, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. <u>Organic Parameters</u>: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5030C, 5035L, 5035H, NJ EPH.)

#### New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

*Drinking Water* (<u>Inorganic Parameters</u>: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. <u>Organic Parameters</u>: EPA 524.2, 504.1.)

*Non-Potable Water* (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 9010C, 9030B. <u>Organic Parameters</u>: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330A, 8082A, EPA 3510C, 5030B, 5030C, 8015C, 8011.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. <u>Organic Parameters:</u> EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330A, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources <u>Certificate/Lab ID</u>: 666. (<u>Inorganic</u> <u>Parameters</u>: SM2310B, 2320B, 4500CI-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. <u>Organic Parameters</u>: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

*Drinking Water Program* <u>Certificate/Lab ID</u>: 25700. (Inorganic Parameters: Chloride EPA 300.0. <u>Organic Parameters</u>: 524.2)

Pennsylvania Department of Environmental Protection <u>Certificate/Lab ID</u>: 68-03671. *NELAP Accredited. Drinking Water* (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. <u>Organic Parameters</u>: EPA 524.2, 504.1)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500CI-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. <u>Organic Parameters</u>: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

*Solid & Hazardous Waste* (<u>Inorganic Parameters</u>: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. <u>Organic Parameters</u>: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health <u>Certificate/Lab ID</u>: LAO00065. *NELAP Accredited via NJ-DEP.* Refer to MA-DEP Certificate for Potable and Non-Potable Water. Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. NELAP Accredited.

*Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2<sup>-</sup> D, 510C, 5210B, 5220D, 5310C, 5540C. <u>Organic Parameters</u>: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services <u>Certificate/Lab ID</u>: 460195. *NELAP Accredited. Drinking Water* (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. <u>Organic Parameters</u>: EPA 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-Page 00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C,

4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm 9030B, 9040C. <u>Organic Parameters</u>: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, )

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. <u>Organic Parameters</u>: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

**Department of Defense, L-A-B** <u>Certificate/Lab ID</u>: L2217. *Drinking Water* (<u>Inorganic Parameters</u>: SM 4500H-B. <u>Organic Parameters</u>: EPA 524.2, 504.1.)

*Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO3-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. <u>Organic Parameters</u>: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, <u>Organic Parameters</u>: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

### The following analytes are not included in our current NELAP/TNI Scope of Accreditation:

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

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| Email: <u>by reace</u> turnkey/le<br>These samples have been previously analyze<br>Other Project Specific Requirement<br>K COC PAHS = Benzo(a) anthe<br>Benzo(4) flueron theme, Chryse   | ents/Comments/De                       | 10/1/13                     |          | ie:              |                                       | ANALO       |                       | avec (52,0) | These and         | des + Hand   | TC/ D. (Forz) micules | KO.        | TAHS #          | Vernize AL            |    |             | SAMPLE HANDI<br>Filtration<br>Done<br>Not needed<br>Lab to do<br>Preservation   | LING T<br>A<br>LING T<br>A<br>L<br>B<br>O  |
| ## COC Inorganics = As       ALPHA Lab ID.       (Lab Use Only)  | ple ID                                 | , Hg , Ag , Z<br>Collection | n.<br>Sa |                  | Sampler's<br>Initials                 | 1.52        | -/ .                  | 10/15/      |                   |              | TC/ Ferl              | ز<br>کر    | 0/<br>0/        |                       |    |             | Lab to do<br>(Please specify below)<br>Sample Specific Comm   | T<br>T<br>E<br>ents S                      |
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# **APPENDIX F**

LAND USE EVALUATION



NYSDEC's Part 375 regulations require that the reasonableness of the anticipated future land be factored into the evaluation of remedial alternatives. The regulations identify 16 criteria that must be considered. These criteria and the resultant outcome for the 295 Maryland Street Site are presented below.

- 1. Current use and historical and/or recent development patterns: The 295 Maryland Street Site was a former manufacturing facility, located in a historically residential area in the City of Buffalo, New York. The Site is currently undeveloped and vacant. Accordingly, residential site redevelopment would be consistent with the development patterns in the area.
- 2. Applicable zoning laws and maps: The Site is located in an area of the City zoned residential. Reuse of the Site in a residential capacity is therefore consistent with current zoning.
- 3. Brownfield opportunity areas as designated set forth in GML 970-r: The Brownfield Opportunity Area (BOA) Program provides municipalities and community based organizations with assistance to complete revitalization plans and implementation strategies for areas or communities affected by the presence of brownfield sites, and site assessments for strategic sites. The subject property does not lie within a BOA.
- 4. Applicable comprehensive community master plans, local waterfront revitalization plans as provided for in EL article 42, or any other applicable land use plan formally adopted by a municipality: The project site is not in a municipality or waterfront revitalization plan. However, it is important that affordable housing be provided, which is precisely what the project intends. Apartments on the west side of Buffalo will provide the requisite housing for approximately 70-living units. Site redevelopment is consistent with the general principles of revitalizing Buffalo for the future.
- 5. Proximity to real property currently used for residential use, and to urban, commercial, industrial, agricultural, and recreational areas: The surrounding land is residential. Nearby and adjacent property is residential. Reuse of the Site in a residential capacity is consistent with the surrounding property.



- 6. Any written and oral comments submitted by members of the public on the proposed use as part of the activities performed pursuant to the citizen participation plan: No comments have been received from the public relevant to Site use concerns.
- 7. Environmental justice concerns, which include the extent to which the proposed use may reasonably be expected to cause or increase a disproportionate burden on the community in which the site is located, including low-income minority communities, or to result in a disproportionate concentration of commercial or industrial uses in what has historically been a mixed use or residential community: Nearby and adjacent property is actively used in a residential capacity. Reuse of the site in a residential capacity does not pose environmental justice issues.
- 8. Federal or State land use designations: The property is designated Urban Land (U2) by the Soil Conservation Service. Urban land typically contains ubiquitous contaminants. Reuse in a restricted capacity (residential) is typical in areas where background conditions preclude achieving unrestricted use soil cleanup objectives.
- 9. *Population growth patterns and projections:* The City of Buffalo, NY, encompassing 40 square miles, has an estimated population of 261,310 (2010 U.S. Census Bureau), a decrease of 14,749 from the 2006 U.S. Census. A declining population indicates a surplus housing market. Reuse of the Site as apartments for multi-family opportunities will be entirely consistent with the anticipated needs for this community.
- 10. *Accessibility to existing infrastructure:* Access to the Site is from Maryland Street and West Avenue. Utilities (sewer, water, electric) are present along all of these neighboring streets. **Existing infrastructure supports reuse in a residential capacity**.
- 11. Proximity of the site to important cultural resources, including federal or State historic or heritage sites or Native American religious sites: The Site is in an archeological sensitive area, and there are several cultural resources within <sup>1</sup>/<sub>2</sub> mile of the Site including the:
  - Allentown Historic District
  - West Village Historic District
  - Delaware Avenue Methodist Episcopal Church
  - William Dorsheimer House
  - Birge-Horton House



- Theodore Roosevelt Inaugural National Historic Site (from NYSDEC Environmental Resource Mapper website).
- 12. Natural resources, including proximity of the site to important federal, State, or local natural resources, including waterways, wildlife refuges, wetlands, or critical habitats of endangered or threatened species: The Erie County Internet Mapping System shows that State or Federal wetlands do not exist on or within <sup>1</sup>/<sub>2</sub>-mile of the subject property. The Niagara River is located approximately one mile west of the Site. The absence of significant ecological resources on or adjacent to the Site indicates that reuse of the site and cleanup to restricted use conditions will not pose an ecological threat.
- 13. Potential vulnerability of groundwater to contamination that might emanate from the site, including proximity to wellhead protection and groundwater recharge areas and other areas identified by the Department and the State's comprehensive groundwater remediation and protection program established set forth in ECL article 15 Title 31: Groundwater at the Site is assigned Class "GA" by 6NYCRR Part 701.15. Four groundwater monitoring wells exist on the Site. Groundwater data obtained during the site characterization indicates residual impacts from volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). There are no groundwater supply wells present on the Site. Regionally, groundwater in the area has not been developed for industrial, agriculture, or public supply purposes. Potable water service is provided off-site and on-site by the local municipal water authority. The absence of potable wells, wellhead protection, and groundwater recharge areas indicates that cleanup to restricted use conditions will not pose a drinking water threat.
- 14. *Proximity to flood plains:* The Erie County Internet Mapping System indicates that the Niagara River, located approximately one mile west of the Site, is a FEMA-designated and 500-year flood zone. No flood zones are present on or within ½-mile of the property; there is no risk of significant soil erosion due to flooding. As such, cleanup to restricted use SCOs does not pose a threat to surface water.
- 15. Geography and geology: The Site is located within the Erie-Ontario lake plain physiographic province, which is typified by little topographic relief and gentle slope toward the Niagara River/Lake Erie, except in the immediate vicinity of major drainage ways. Surface soils within the City are characterized as urban land with level to gently sloping land in which 80 percent or more of the soil surface is covered by asphalt, concrete, buildings, or other impervious structures typical of an urban environment. Geography and geology are consistent with residential re-use.



# 16. *Current institutional controls applicable to the site:* No institutional controls are currently present that would affect redevelopment options.

Based on the above analysis, reuse of the Site in a residential capacity is consistent with past and current development and zoning on and around the Site, and does not pose additional environmental or human health risk.



# **APPENDIX G**

SITE HEALTH AND SAFETY PLAN AND COMMUNITY AIR MONITORING PLAN



# SITE HEALTH & SAFETY PLAN FOR BROWNFIELD CLEANUP PROGRAM

295 Maryland Street Site Buffalo, New York

July 2011

0222-001-100

Prepared for:

### 295 MARYLAND, LLC

Prepared By:



Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218 (716) 856-0599

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### ACKNOWLEDGEMENT

### Plan Reviewed by (initial):

Corporate Health and Safety Director:

Project Manager:

Designated Site Safety and Health Officer:

### Acknowledgement:

I acknowledge that I have reviewed the information contained in this site-specific Health and Safety Plan, and understand the hazards associated with performance of the field activities described herein. I agree to comply with the requirements of this plan.

| NAME (PRINT) | SIGNATURE | DATE |
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- Appendix B Hot Work Permit Form
- Appendix C NYSDOH Generic Community Air Monitoring Plan

# 1.0 INTRODUCTION

## 1.1 General

In accordance with OSHA requirements contained in 29 CFR 1910.120, this Health and Safety Plan (HASP) describes the specific health and safety practices and procedures to be employed by Benchmark Environmental Engineering & Science, PLLC (Benchmark) employees during Brownfield Cleanup Program (BCP) activities on the 295 Maryland Street Site (Site) located in the City of Buffalo, New York. This HASP presents procedures for Benchmark employees who will be involved with remedial field activities; it does not cover the activities of other contractors, subcontractors, or other individuals on the Site. Non-Benchmark site personnel will be required to develop and enforce their own HASPs as discussed in Section 2.0. Benchmark accepts no responsibility for the health and safety of contractor, subcontractor, or other personnel.

This HASP presents information on known Site health and safety hazards using available historical information, and identifies the equipment, materials and procedures that will be used to eliminate or control these hazards. Environmental monitoring will be performed during the course of field activities to provide real-time data for on-going assessment of potential hazards.

## 1.2 Background

The Site was historically used in a residential and commercial capacity, with the property at 295 Maryland Street most recently occupied by Lamar Advertising, Inc., a firm specializing in the sale of billboard advertising space and erection of billboard signs. Lamar relocated within the City of Buffalo in December 2000; the associated commercial buildings and facilities on 295 Maryland Street as well as the residences at 121-129 West Avenue have been demolished. Currently, the Site is vacant and undeveloped.

A Phase I Environmental Site Assessment (ESA) was performed for the former Lamar Advertising property in January 2000 prior to facility demolition. A separate Phase I ESA was prepared in 2001 for 121-129 West Avenue on behalf of the Buffalo Niagara Renaissance Corporation. The ESA reports indicated that 121-129 West Avenue was historically used for residential purposes, with 295 Maryland Street historically improved



with an office, commercial building, two multiple bay garages, and a parking area. Several identified prior use activities on 295 Maryland, including vehicle maintenance and the use and storage of paints, adhesives, and other flammables, were cited in the Phase I ESA's as indicators of potential environmental conditions on the property. The Phase I also identified a 550-gallon underground gasoline storage tank (UST) and a 4,000-gallon gasoline UST that were reportedly removed from the Site in 1974 and 1997, respectively. A small UST containing benzene was also reportedly discovered and removed during facility decommissioning.

A Phase II Site Investigation was completed at 295 Maryland Street by Benchmark in November 2001 based on Phase I ESA findings. The Phase II identified surface and subsurface soil/fill materials exceeding NY State soil cleanup guidance values (i.e., as compared to TAGM 4046, the applicable NYSDEC guidance in place at that time) for certain parameters, including arsenic, lead, mercury and several polyaromatic hydrocarbons (PAHs). These same parameters are elevated with respect to more recent Soil Cleanup Objectives (SCOs) for restricted residential use as published in 6NYCRR Part 375.

### 1.3 Known and Suspected Environmental Conditions

Portions of the 295 Maryland Street Site were formerly used to house automotive repair facilities containing USTs and hydraulic lifts. Surficial and subsurface soil testing identified seven polyaromatic hydrocarbons (PAHs) at levels in excess of the NYSDEC soil cleanup objectives (SCOs) for restricted residential use. The compounds detected in at least one of the samples include: benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k) fluoranthene, benzo(a)pyrene, indeno(1,2,3)pyrene, and dibenz(a,h)anthracene. In addition, the inorganic compounds detected in excess of the restricted residential SCOs include: arsenic, barium, cadmium, lead and mercury. While not exceeding restricted residential SCOs, low levels of volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs) were detected. In addition, groundwater results show that VOCs were detected in the sample from well MW-2 at concentrations exceeding NYSDEC groundwater quality standards (GWQSs). The VOCs detected include benzene, ethylbenzene, toluene, and xylenes (BTEX), which are characteristic of gasoline contamination.



### **1.4 Parameters of Interest**

Potential parameters of interest at the Site include:

- Volatile Organic Compounds (VOCs) VOCs present in groundwater may include benzene, toluene, ethylbenzene, and xylene (i.e., BTEX). These VOCs are typically associated with storage and handling of petroleum products such as gasoline.
- Polyaromatic Hydrocarbons (PAHs) PAHs present at the Site include derivatives from oils, greases, and fuels associated with the operation of historic automotive repair operations; specifically, PAHs that are byproducts of incomplete combustion and impurities in petroleum products. Although PAHs are commonly found in urban soil environments, they may be present at the Site at concentrations that are elevated compared to typical "background" levels.
- **Inorganic Compounds** Inorganic compounds potentially present at elevated concentrations in soil/fill due to accidental spillage or misguided disposal may include arsenic, cadmium, chromium, lead, and mercury.

## 1.5 **Overview of BCP Activities**

Benchmark personnel will be on-site to observe BCP remedial activities. General field activities to be completed are described below. Detailed BCP activities are more fully described in the Interim Remedial Measures (IRM) Work Plan.

- **1. Soil/Fill Excavation:** Benchmark will monitor all soil/fill excavations and related activities to visually inspect soil/fill for evidence of contamination.
- 2. Soil/Fill Verification Sampling: Benchmark will collect subsurface verification samples following excavation and prior to backfilling operations.
- **3.** Surface Water Management: During excavation, surface water and/or perched groundwater infiltration may occur. Benchmark will direct the contractor to collect and characterize the surface water for proper disposal.
- **4. Subgrade Work:** Significant grading of the Site may be required before implementation of remedial measures.



## 2.0 ORGANIZATIONAL STRUCTURE

This chapter of the HASP describes the lines of authority, responsibility, and communication as they pertain to health and safety functions at the Site. The purpose of this chapter is to identify the personnel who impact the development and implementation of the HASP and to describe their roles and responsibilities. This chapter also identifies other contractors and subcontractors involved in work operations, and establishes the lines of communications among them for health and safety matters. The organizational structure described in this chapter is consistent with the requirements of 29 CFR 1910.120(b)(2). This section will be reviewed by the Project Manager and updated as necessary to reflect the current organizational structure at the Site.

## 2.1 Roles and Responsibilities

All Benchmark personnel on the Site must comply with the minimum requirements of this HASP. The specific responsibilities and authority of management, safety and health, and other personnel on this Site are detailed in the following paragraphs.

## 2.1.1 Corporate Health and Safety Director

The Benchmark Corporate Health and Safety Director is *Mr. Thomas H. Forbes, P.E.* The Corporate Health and Safety Director responsible for developing and implementing the Health and Safety program and policies for Benchmark Environmental Engineering & Science, PLLC and consulting with corporate management to ensure adequate resources are available to properly implement these programs and policies. The Corporate Health and Safety Director coordinates Benchmark's Health and Safety training and medical monitoring programs and assists project management and field staff in developing site-specific health and safety plans.

## 2.1.2 Project Manager

The Project Manager for this site is *Thomas H. Forbes, P.E.* The Project Manager has the responsibility and authority to direct all Benchmark work operations at the Site. The Project Manager coordinates safety and health functions with the Site Safety and Health Officer, and bears ultimate responsibility for proper implementation of this HASP. He may



delegate authority to expedite and facilitate any application of the program, including modifications to the overall project approach as necessary to circumvent unsafe work conditions. Specific duties of the Project Manager include:

- Preparing and coordinating the site work plan.
- Providing Benchmark workers with work assignments and overseeing their performance.
- Coordinating health and safety efforts with the Site Safety and Health Officer (SSHO).
- Reviewing the emergency response coordination plan to assure its effectiveness.
- Serving as the primary liaison with site contractors and the property owner.

### 2.1.3 Site Safety and Health Officer

The Site Safety and Health Officer (SSHO) for this site is *Mr. Richard L. Dubisz*. The qualified alternate SSHO is *Mr. Thomas Behrendt*. The SSHO reports to the Project Manager. The SSHO is on-site or readily accessible to the site during all work operations and has the authority to halt site work if unsafe conditions are detected. The specific responsibilities of the SSHO are:

- Managing the safety and health functions for Benchmark personnel on the Site.
- Serving as the point of contact for safety and health matters.
- Ensuring that Benchmark field personnel working on the Site have received proper training (per 29 CFR Part 1910.120(e)), that they have obtained medical clearance to wear respiratory protection (per 29 CFR Part 1910.134), and that they are properly trained in the selection, use and maintenance of personal protective equipment, including qualitative respirator fit testing.
- Performing or overseeing site monitoring as required by the HASP.
- Assisting in the preparation and review of the HASP
- Maintaining site-specific safety and health records as described in this HASP
- Coordinating with the Project Manager, Site Workers and Contractor's SSHO as necessary for safety and health efforts.

#### 2.1.4 Site Workers

Site workers are responsible for: complying with this HASP or a more stringent



HASP, if appropriate (i.e., Contractor and Subcontractor's HASP); using proper PPE; reporting unsafe acts and conditions to the SSHO; and following the safety and health instructions of the Project Manager and SSHO.

#### 2.1.5 Other Site Personnel

Other site personnel who will have health and safety responsibilities will include the Remedial Contractor, who will be responsible for developing, implementing, and enforcing a Health and Safety Plan equally stringent or more stringent than Benchmark's HASP. Benchmark assumes no responsibility for the health and safety of anyone outside its direct employ. Each Contractor's HASP shall cover all non-Benchmark site personnel. Each Contractor shall assign a SSHO who will coordinate with Benchmark's SSHO as necessary to ensure effective lines of communication and consistency between contingency plans.

In addition to Benchmark and Contractor personnel, other individuals who may have responsibilities in the work zone include subcontractors and governmental agencies performing site inspection work (i.e., the New York State Department of Environmental Conservation). The Contractor shall be responsible for ensuring that these individuals have received OSHA-required training (29 CFR 1910.120(e)), including initial, refresher, and site-specific training, and shall be responsible for the safety and health of these individuals while they are on-site.



# 3.0 HAZARD EVALUATION

Due to the presence of certain contaminants at the Site, the possibility exists that workers will be exposed to hazardous substances during field activities. The principal points of exposure would be through direct contact with and incidental ingestion of soil/fill, and through the inhalation of contaminated particles or vapors, during soil/fill excavation activities and monitoring well installation. In addition, the use of heavy construction equipment (e.g., excavator) will also present conditions for potential physical injury to workers. Further, since work will be performed outdoors, the potential exists for heat/cold stress to impact workers, especially those wearing protective equipment and clothing. Adherence to the medical evaluations, worker training relative to chemical hazards, safe work practices, proper personal protection, environmental monitoring, establishment work zones and site control, appropriate decontamination procedures and contingency planning outlined herein will reduce the potential for chemical exposures and physical injuries.

## 3.1 Chemical Hazards

As discussed in Section 1.3, historic activities related to the former steelmanufacturing operations and facilities have resulted in elevated concentrations of VOCs, SVOCs, PCBs, and inorganic compounds in Site soils and groundwater. Table 1 identifies maximum concentrations of COPCs detected throughout the Site. Table 2 lists exposure limits for airborne concentrations of the COPCs identified in Section 1.4 of this HASP. Brief descriptions of the toxicology of the prevalent constituents of potential concern and related health and safety guidance and criteria are provided below.

- Arsenic (CAS #7440-38-2) is a naturally occurring element and is usually found combined with one or more elements, such as oxygen or sulfur. Inhalation is a more important exposure route than ingestion. First phase exposure symptoms include nausea, vomiting, diarrhea and pain in the stomach. Prolonged contact is corrosive to the skin and mucus membranes. Arsenic is considered a Group A human carcinogen by the USEPA. Exposure via inhalation is associated with an increased risk of lung cancer. Exposure via the oral route is associated with an increased risk of skin cancer.
- Barium (CAS # 7440-39-3) is a silver white metal, produced by the reduction of barium oxide. Local effects and symptoms of exposure to barium compounds, such as the hydroxide or carbonate, may include irritation of the eyes, throat, nose and skin. Systemic effects from ingestion include increased muscle contractility,



reduction of heart rate/potential arrest, intestinal peristalsis, vascular constriction, and bladder contraction.

- Benzene (CAS #71-43-2) poisoning occurs most commonly through inhalation of the vapor; however, benzene can also penetrate the skin and poison in that way. Locally, benzene has a comparatively strong irritating effect, producing erythema and burning and, in more severe cases, edema and blistering. Exposure to high concentrations of the vapor (i.e., 3,000 ppm or higher) may result in acute poisoning characterized by the narcotic action of benzene on the central nervous system. In acute poisoning, symptoms include confusion, dizziness, tightening of the leg muscles, and pressure over the forehead. Chronic exposure to benzene (i.e., long-term exposure to concentrations of 100 ppm or less) may lead to damage of the blood-forming system. Benzene is very flammable when exposed to heat or flame and can react vigorously with oxidizing materials.
- **Cadmium** is a natural element and is usually combined with one or more elements, such as oxygen, chloride or sulfur. Breathing high levels of cadmium severely damages the lungs and can cause death. Ingestion of high levels of cadmium severely irritates the stomach, leading to vomiting and diarrhea. Long term exposure to lower levels of cadmium leads to a buildup of this substance in the kidneys and possible kidney disease. Other potential long term effects are lung damage and fragile bones. Cadmium is suspected to be a human carcinogen.
- Ethylbenzene (CAS #100-41-4) is a component of automobile gasoline. Overexposure may cause kidney, skin liver and/or respiratory disease. Signs of exposure may include dermatitis, irritation of the eyes and mucus membranes, headache. Narcosis and coma may result in more severe cases.
- Lead (CAS #7439-92-1) can affect almost every organ and system in our bodies. The most sensitive is the central nervous system, particularly in children. Lead also damages kidneys and the immune system. The effects are the same whether it is breathed or swallowed. Lead may decrease reaction time, cause weakness in fingers, wrists or ankles and possibly affect memory. Lead may cause anemia.
- Mercury (CAS #7439-97-6) is used in industrial applications for the production of caustic and chlorine, and in electrical control equipment and apparatus. Over-exposure to mercury may cause coughing, chest pains, bronchitis, pneumonia, indecision, headaches, fatigue and salivation. Mercury is a skin and eye irritant.
- **Polycyclic Aromatic Hydrocarbons (PAHs)** are formed as a result of the pyrolysis and incomplete combustion of organic matter such as fossil fuel. PAH aerosols formed during the combustion process disperse throughout the atmosphere, resulting in the deposition of PAH condensate in soil, water and on vegetation. In addition, several products formed from petroleum processing operations (e.g., roofing materials and asphalt) also contain elevated levels of



PAHs. Hence, these compounds are widely dispersed in the environment. PAHs are characterized by a molecular structure containing three or more fused, unsaturated carbon rings. Seven of the PAHs are classified by USEPA as probable human carcinogens (USEPA Class B2). These are: benzo(a)pyrene; benzo(a)anthracene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; dibenz(a,h)anthracene; and indeno(1,2,3-cd)pyrene. The primary route of exposure to PAHs is through incidental ingestion and inhalation of contaminated particulates. PAHs are characterized by an organic odor, and exist as oily liquids in pure form. Acute exposure symptoms may include acne-type blemishes in areas of the skin exposed to sunlight.

- Toluene (CAS #108-88-3) is a common component of paint thinners and automobile fuel. Acute exposure predominantly results in central nervous system depression. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness, and coordination loss. Repeated exposures may cause removal of lipids from the skin, resulting in dry, fissured dermatitis.
- Xylenes (o, m, and p) (CAS #95-47-6, 108-38-3, and 106-42-3) are colorless, flammable liquids present in paint thinners and fuels. Acute exposure may cause central nervous system depression, resulting in headache, dizziness, fatigue, muscular weakness, drowsiness, and coordination loss. Repeated exposures may also cause removal of lipids from the skin, producing dry, fissured dermatitis. Exposure of high concentrations of vapor may cause eye irritation and damage, as well as irritation of the mucus membranes.

With respect to the anticipated BCP activities discussed in Section 1.5, possible routes of exposure to the above-mentioned contaminants are presented in Table 3. The use of proper respiratory equipment, as outlined in Section 7.0 of this HASP, will minimize the potential for exposure to airborne contamination. Exposure to contaminants through dermal and other routes will also be minimized through the use of protective clothing (Section 7.0), safe work practices (Section 6.0), and proper decontamination procedures (Section 12.0).

## 3.2 Physical Hazards

BCP remedial activities at the Site may present the following physical hazards:

- The potential for physical injury during heavy construction equipment use, such as grading equipment, excavators, and tandem trucks.
- The potential for heat/cold stress to employees during the summer/winter months (see Section 10.0).
- The potential for slip and fall injuries due to rough, uneven terrain and/or open



#### excavations.

These hazards represent only some of the possible means of injury that may be present during remedial activities at the Site. Since it is impossible to list all potential sources of injury, it shall be the responsibility of each individual to exercise proper care and caution during all phases of the work.



# 4.0 TRAINING

## 4.1 Site Workers

All personnel performing remedial activities at the Site (such as, but not limited to, equipment operators, general laborers, and supervisors) and who may be exposed to hazardous substances, health hazards, or safety hazards and their supervisors/ managers responsible for the Site shall receive training in accordance with 29 CFR 1910.120(e) before they are permitted to engage in operations in the exclusion zone or contaminant reduction zone. This training includes an initial 40-hour Hazardous Waste Site Worker Protection Course, an 8-hour Annual Refresher Course subsequent to the initial 40-hour training, and 3 days of actual field experience under the direct supervision of a trained, experienced supervisor. Additional site-specific training shall also be provided by the SSHO prior to the start of field activities. A description of topics to be covered by this training is provided below.

## 4.1.1 Initial and Refresher Training

Initial and refresher training is conducted by a qualified instructor as specified under OSHA 29 CFR 1910.120(e)(5), and is specifically designed to meet the requirements of OSHA 29 CFR 1910.120(e)(3) and 1910.120(e)(8). The training covers, as a minimum, the following topics:

- OSHA HAZWOPER regulations.
- Site safety and hazard recognition, including chemical and physical hazards.
- Medical monitoring requirements.
- Air monitoring, permissible exposure limits, and respiratory protection level classifications.
- Appropriate use of personal protective equipment (PPE), including chemical compatibility and respiratory equipment selection and use.
- Work practices to minimize risk.
- Work zones and site control.
- Safe use of engineering controls and equipment.
- Decontamination procedures.



- Emergency response and escape.
- Confined space entry procedures.
- Heat and cold stress monitoring.
- Elements of a Health and Safety Plan.
- Spill containment.

Initial training also incorporates workshops for PPE and respiratory equipment use (Levels A, B and C), and respirator fit testing. Records and certification received from the course instructor documenting each employee's successful completion of the training identified above are maintained on file at Benchmark's Buffalo, NY office. Contractors and Subcontractors are required to provide similar documentation of training for all their personnel who will be involved in on-site work activities.

Any employee who has not been certified as having received health and safety training in conformance with 29 CFR 1910.120(e) is prohibited from working in the exclusion and contamination reduction zones, or to engage in any on-site work activities that may involve exposure to hazardous substances or wastes.

## 4.1.2 Site Training

Site workers are given a copy of the HASP and provided a site-specific briefing prior to the commencement of work to ensure that employees are familiar with the HASP and the information and requirements it contains. The site briefing shall be provided by the SSHO prior to initiating field activities and shall include:

- Names of personnel and alternates responsible for site safety and health.
- Safety, health and other hazards present on the Site.
- The Site lay-out including work zones and places of refuge.
- The emergency communications system and emergency evacuation procedures.
- Use of PPE.
- Work practices by which the employee can minimize risks from hazards.
- Safe use of engineering controls and equipment on the site.
- Medical surveillance, including recognition of symptoms and signs of overexposure as described in Chapter 5 of this HASP.



- Decontamination procedures as detailed in Chapter 12 of this HASP.
- The emergency response plan as detailed in Chapter 15 of this HASP.
- Confined space entry procedures, if required, as detailed in Chapter 13 of this HASP.
- The spill containment program as detailed in Chapter 9 of this HASP.
- Site control as detailed in Chapter 11 of this HASP.

Supplemental health and safety briefings will also be conducted by the SSHO on an as-needed basis during the course of the work. Supplemental briefings are provided as necessary to notify employees of any changes to this HASP as a result of information gathered during ongoing site characterization and analysis. Conditions for which the SSHO may schedule additional briefings include, but are not limited to: a change in Site conditions (i.e., based on monitoring results); changes in the work schedule/plan; newly discovered hazards; and safety incidents occurring during Site work.

# 4.2 Supervisor Training

On-site safety and health personnel who are directly responsible for or who supervise the safety and health of workers engaged in hazardous waste operations (i.e., SSHO) shall receive, in addition to the appropriate level of worker training described in Section 4.1, above, 8 additional hours of specialized supervisory training, in compliance with 29 CFR 1910.120(e)(4).

## 4.3 Emergency Response Training

Emergency response training is addressed in Appendix A of this HASP, Emergency Response Plan.

## 4.4 Site Visitors

Each Contractor's SSHO will provide a site-specific briefing to all site visitors and other non-Benchmark personnel who enter the Site beyond the site entry point. The sitespecific briefing will provide information about site hazards, the site layout including work



zones and places of refuge, the emergency communications system and emergency evacuation procedures, and other pertinent safety and health requirements as appropriate.

Site visitors will not be permitted to enter the exclusion zone or contaminant reduction zones unless they have received the level of training required for site workers as described in Section 4.1.



# 5.0 MEDICAL MONITORING

Medical monitoring examinations are provided to Benchmark employees as stipulated under 29 CFR Part 1910.120(f). These exams include initial employment, annual, and employment termination physicals for all Benchmark employees involved in hazardous waste site field operations. Post-exposure examinations are also provided for employees who may have been injured, received a health impairment, or developed signs or symptoms of overexposure to hazardous substances or were accidentally exposed to substances at concentrations above the permissible exposure limits without necessary personal protective equipment. Such exams are performed as soon as possible following development of symptoms or the known exposure event.

Medical evaluations are performed by ADP Screening & Selection Services, an occupational health care provider under contract with Benchmark. ADP's local facility is Health Works WNY, Seneca Square Plaza, 1900 Ridge Road, West Seneca, New York 14224. The facility can be reached at (716) 823-5050 to schedule routine appointments or post-exposure examinations.

Medical evaluations are conducted according to the Benchmark Medical Monitoring Program and include an evaluation of the workers' ability to use respiratory protective equipment. The purpose of the medical evaluation is to determine an employee's fitness for duty on hazardous waste sites; and to establish baseline medical data. The examinations include:

- Occupational/medical history review.
- Physical exam, including vital sign measurement.
- Spirometry testing.
- Eyesight testing.
- Audio testing (minimum baseline and exit, annual for employees routinely exposed to greater than 85db).
- EKG (for employees >40 yrs age or as medical conditions dictate).
- Chest X-ray (baseline and exit, and every 5 years).
- Blood biochemistry (including blood count, white cell differential count, serum multiplastic screening).
- Medical certification of physical requirements (i.e., sight, musculoskeletal, cardiovascular) for safe job performance and to wear respiratory protection



## equipment.

In conformance with OSHA regulations, Benchmark will maintain and preserve medical records for a period of 30 years following termination of employment. Employees are provided a copy of the physician's post-exam report, and have access to their medical records and analyses.



# 6.0 SAFE WORK PRACTICES

All Benchmark employees shall conform to the following safe work practices during all on-site work activities conducted within the exclusion and contamination reduction zones:

- Eating, drinking, chewing gum or tobacco, smoking, or any practice that increases the probability of hand-to-mouth contact is strictly prohibited.
- The hands and face must be thoroughly washed upon leaving the work area and prior to engaging in any activity indicated above.
- Respiratory protective equipment and clothing must be worn by all personnel entering the site as required by the HASP or as modified by the site safety officer. Excessive facial hair (i.e., beards, long mustaches or sideburns) that interferes with the satisfactory respirator-to-face seal is prohibited.
- Contact with surfaces/materials either suspected or known to be contaminated will be avoided to minimize the potential for transfer to personnel, cross contamination and need for decontamination.
- Medicine and alcohol can synergize the effects of exposure to toxic chemicals. Due to possible contraindications, use of prescribed drugs should be reviewed with the Benchmark occupational physician. Alcoholic beverage and illegal drug intake are strictly forbidden during the workday.
- All personnel shall be familiar with standard operating safety procedures and additional instructions contained in this Health and Safety Plan.
- On-site personnel shall use the "buddy" system. No one may work alone (i.e., out of earshot or visual contact with other workers) in the exclusion zone.
- Personnel and equipment in the contaminated area shall be minimized, consistent with effective site operations.
- All employees have the obligation to immediately report and if possible, correct unsafe work conditions.
- Use of contact lenses on-site will not be permitted. Spectacle kits for insertion into full-face respirators will be provided for Benchmark employees, as requested and required.

The recommended specific safety practices for working around the contractor's equipment (e.g., backhoes, bulldozers, excavators, etc.) are as follows:

• Although the Contractor and subcontractors are responsible for their equipment and safe operation of the site, Benchmark personnel are also responsible for their



own safety.

- Subsurface work will not be initiated without first clearing underground utility services.
- Heavy equipment should not be operated within 20 feet of overhead wires. This distance may be increased if windy conditions are anticipated or if lines carry high voltage. The site should also be sufficiently clear to ensure the project staff can move around the heavy machinery safely.
- Care should be taken to avoid overhead wires when moving heavy-equipment from location to location.
- Hard hats, safety boots and safety glasses should be worn at all times in the vicinity of heavy equipment. Hearing protection is also recommended.
- The work site should be kept neat. This will prevent personnel from tripping and will allow for fast emergency exit from the site.
- Proper lighting must be provided when working at night.
- Construction activities should be discontinued during an electrical storm or severe weather conditions.
- The presence of combustible gases should be checked before igniting any open flame.
- Personnel shall stand upwind of any construction operation when not immediately involved in sampling/logging/observing activities.
- Personnel will not approach the edge of an unsecured trench/excavation closer than 2 feet.



# 7.0 PERSONAL PROTECTIVE EQUIPMENT

## 7.1 Equipment Selection

Personal protective equipment (PPE) will be donned when work activities may result in exposure to physical or chemical hazards beyond acceptable limits, and when such exposure can be mitigated through appropriate PPE. The selection of PPE will be based on an evaluation of the performance characteristics of the PPE relative to the requirements and limitations of the Site, the task-specific conditions and duration, and the hazards and potential hazards identified at the site.

Equipment designed to protect the body against contact with known or suspect chemical hazards are grouped into four categories according to the degree of protection afforded. These categories designated A through D consistent with USEPA Level of Protection designation, are:

- Level A: Should be selected when the highest level of respiratory, skin and eye protection is needed.
- Level B: Should be selected when the highest level of respiratory protection is needed, but a lesser level of skin protection is required. Level B protection is the minimum level recommended on initial site entries until the hazards have been further defined by on-site studies. Level B (or Level A) is also necessary for oxygen-deficient atmospheres.
- Level C: Should be selected when the types of airborne substances are known, the concentrations have been measured and the criteria for using air-purifying respirators are met. In atmospheres where no airborne contaminants are present, Level C provides dermal protection only.
- Level D: Should not be worn on any site with elevated respiratory or skin hazards. This is generally a work uniform providing minimal protection.

OSHA requires the use of certain PPE under conditions where an immediate danger to life and health (IDLH) may be present. Specifically, OSHA 29 CFR 1910.120(g)(3)(iii) requires use of a positive pressure self-contained breathing apparatus, or positive pressure air-line respirator equipped with an escape air supply when chemical exposure levels present a substantial possibility of immediate serious injury, illness or death, or impair the ability to escape. Similarly, OSHA 29 CFR 1910.120(g)(3)(iv) requires donning totally encapsulating chemical protective suits (with a protection level equivalent to Level A protection) in



conditions where skin absorption of a hazardous substance may result in a substantial possibility of immediate serious illness, injury or death, or impair the ability to escape.

In situations where the types of chemicals, concentrations, and possibilities of contact are unknown, the appropriate level of protection must be selected based on professional experience and judgment until the hazards can be further characterized. The individual components of clothing and equipment must be assembled into a full protective ensemble to protect the worker from site-specific hazards, while at the same time minimizing hazards and drawbacks of the personal protective gear itself. Ensemble components are detailed below for levels A/B, C, and D protection.

## 7.2 **Protection Ensembles**

### 7.2.1 Level A/B Protection Ensemble

Level A/B ensembles include similar respiratory protection, however Level A provides a higher degree of dermal protection than Level B. Use of Level A over Level B is determined by: comparing the concentrations of identified substances in the air with skin toxicity data, and assessing the effect of the substance (by its measured air concentrations or splash potential) on the small area of the head and neck unprotected by Level B clothing. The recommended PPE for level A/B is:

- Pressure-demand, full-face piece self-contained breathing apparatus (MSHA/-NIOSH approved) or pressure-demand supplied-air respirator with escape selfcontained breathing apparatus (SCBA).
- Chemical-resistant clothing. For Level A, clothing consists of totallyencapsulating chemical resistant suit. Level B incorporates hooded one-or twopiece chemical splash suit.
- Inner and outer chemical resistant gloves.
- Chemical-resistant safety boots/shoes.
- Hardhat.

## 7.2.2 Level C Protection Ensemble

Level C protection is distinguished from Level B by the equipment used to protect the respiratory system, assuming the same type of chemical-resistant clothing is used. The



main selection criterion for Level C is that conditions permit wearing an air-purifying device. The device (when required) must be an air-purifying respirator (MSHA/NIOSH approved) equipped with filter cartridges. Cartridges must be able to remove the substances encountered. Respiratory protection will be used only with proper fitting, training and the approval of a qualified individual. In addition, an air-purifying respirator can be used only if: oxygen content of the atmosphere is at least 19.5% in volume; substances are identified and concentrations measured; substances have adequate warning properties; the individual passes a qualitative fit-test for the mask; and an appropriate cartridge/canister is used, and its service limit concentration is not exceeded. Recommended PPE for Level C conditions includes:

- Full-face piece, air-purifying respirator equipped with MSHA and NIOSH approved organic vapor/acid gas/dust/mist combination cartridges or as designated by the SSHO.
- Chemical-resistant clothing (hooded, one or two-piece chemical splash suit or disposable chemical-resistant one-piece suit).
- Inner and outer chemical-resistant gloves.
- Chemical-resistant safety boots/shoes.
- Hardhat.

An air-monitoring program is part of all response operations when atmospheric contamination is known or suspected. It is particularly important that the air be monitored thoroughly when personnel are wearing air-purifying respirators. Continual surveillance using direct-reading instruments is needed to detect any changes in air quality necessitating a higher level of respiratory protection.

# 7.2.3 Level D Protection Ensemble

As indicated above, Level D protection is primarily a work uniform. It can be worn in areas where only boots can be contaminated, where there are no inhalable toxic substances and where the atmospheric contains at least 19.5% oxygen. Recommended PPE for Level D includes:

- Coveralls.
- Safety boots/shoes.



- Safety glasses or chemical splash goggles.
- Hardhat.
- Optional gloves; escape mask; face shield.

### 7.2.4 Recommended Level of Protection for Site Tasks

Based on current information regarding both the contaminants suspected to be present at the Site and the various tasks that are included in the remedial activities, the minimum required Levels of Protection for these tasks shall be as identified in Table 4.



## 8.0 EXPOSURE MONITORING

## 8.1 General

Based on the results of historic sample analysis and the nature of the proposed work activities at the Site, the possibility exists that organic vapors and/or particulates may be released to the air during intrusive construction activities. Ambient breathing zone concentrations may at times, exceed the permissible exposure limits (PELs) established by OSHA for the individual compounds (see Table 2), in which case respiratory protection will be required. Respiratory and dermal protection may be modified (upgraded or downgraded) by the SSHO based upon real-time field monitoring data.

## 8.1.1 On-Site Work Zone Monitoring

Benchmark personnel will conduct routine, real-time air monitoring during all intrusive construction phases such as excavation, backfilling, drilling, etc. The work area will be monitored at regular intervals using a photo-ionization detector (PID), combustible gas meter and a particulate meter. Observed values will be recorded and maintained as part of the permanent field record.

Additional air monitoring measurements may be made by Benchmark personnel to verify field conditions during subcontractor oversight activities. Monitoring instruments will be protected from surface contamination during use. Additional monitoring instruments may be added if the situations or conditions change. Monitoring instruments will be calibrated in accordance with manufacturer's instructions before use.

## 8.1.2 Off-Site Community Air Monitoring

In addition to on-site monitoring within the work zone(s), monitoring at the downwind portion of the Site perimeter will be conducted. This will provide a real-time method for determination of substantial vapor and/or particulate releases to the surrounding community as a result of ground intrusive work.

Ground intrusive activities are defined by NYSDOH Generic Community Air Monitoring Plan (Ref. 1, Appendix 1A of DER-10) and attached as Appendix C. Ground intrusive activities include soil/waste excavation and handling, test pitting or trenching, and



the installation of soil borings or monitoring wells. Non-intrusive activities include the collection of soil and sediment samples or the collection of groundwater samples from existing wells. Continuous monitoring is required for ground intrusive activities and periodic monitoring is required for non-intrusive activities. Periodic monitoring consists of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring while bailing a well, and taking a reading prior to leaving a sampling location. This may be upgraded to continuous if the sampling location is in close proximity to individuals not involved in the site activity (i.e., on a curb of a busy street). The action levels below will be used during periodic monitoring. This will provide a real-time method for determination of substantial vapor and/or particulate releases to the surrounding community because of intrusive activities.

### 8.2 Monitoring Action Levels

#### 8.2.1 On-Site Work Zone Action Levels

The PID, explosimeter, or other appropriate instrument(s), will be used by Benchmark personnel to monitor organic vapor concentrations as specified in this HASP. In addition, fugitive dust/particulate concentrations will be monitored during major soil intrusion using a real-time particulate monitor as specified in this plan. In the absence of such monitoring, appropriate respiratory protection for particulates shall be donned. Sustained readings obtained in the breathing zone may be interpreted (with regard to other site conditions) as follows for Benchmark personnel:

- Total atmospheric concentrations of unidentified vapors or gases ranging from 0 to 1 ppm above background on the PID) - Continue operations under Level D (see Appendix A).
- Total atmospheric concentrations of unidentified vapors or gases yielding sustained readings from >1 ppm to 5 ppm above background on the PID (vapors not suspected of containing high levels of chemicals toxic to the skin) - Continue operations under Level C (see Appendix A).
- Total atmospheric concentrations of unidentified vapors or gases yielding sustained readings of >5 ppm to 50 ppm above background on the PID -Continue operations under Level B (see Attachment 1), re-evaluate and alter (if possible) construction methods to achieve lower vapor concentrations.



• Total atmospheric concentrations of unidentified vapors or gases above 50 ppm on the PID - Discontinue operations and exit the work zone immediately.

The explosimeter will be used to monitor levels of both combustible gases and oxygen during RD activities involving deep excavation, if required. Action levels based on the instrument readings shall be as follows:

- Less than 10% LEL Continue engineering operations with caution.
- 10-25% LEL Continuous monitoring with extreme caution, determine source/cause of elevated reading.
- Greater than 25% LEL Explosion hazard, evaluate source and leave the Work Zone.
- 19.5-21% oxygen Proceed with extreme caution; attempt to determine potential source of oxygen displacement.
- Less than 19.5% oxygen Leave work zone immediately.
- 21-25% oxygen Continue engineering operations with caution.
- Greater than 25% oxygen Fire hazard potential, leave Work Zone immediately.

The particulate monitor will be used to monitor respirable dust concentrations during all intrusive activities and during handling of site soil/fill. Action levels based on the instrument readings shall be as follows:

- Less than 50 μg/m<sup>3</sup> Continue field operations.
- 50-150 μg/m<sup>3</sup> Don dust/particulate mask or equivalent
- Greater than 150 µg/m<sup>3</sup> Don dust/particulate mask or equivalent. Initiate engineering controls to reduce respirable dust concentration (i.e., wetting of excavated soils or tools at discretion of SSHO).

Readings with the organic vapor analyzer, combustible gas meter, and particulate monitor will be recorded and documented on the appropriate Project Field Forms. All instruments will be calibrated before use on a daily basis and the procedure will be documented on the appropriate Project Field Forms.



#### 8.2.2 Community Air Monitoring Action Levels

In addition to the action levels prescribed in Section 8.2.1 for Benchmark personnel on-site, the following criteria shall also be adhered to for the protection of downwind receptors consistent with NYSDOH requirements (Appendix C):

#### O ORGANIC VAPOR PERIMETER MONITORING:

- If the <u>sustained</u> ambient air concentration of organic vapors at the downwind perimeter of the exclusion zone <u>exceeds 5 ppm</u> above background, work activities will be halted and monitoring continued. If the <u>sustained</u> organic vapor decreases below 5 ppm over background, work activities can resume but more frequent intervals of monitoring, as directed by the SSHO, must be conducted.
- If the <u>sustained</u> ambient air concentration of organic vapors at the downwind perimeter of the exclusion zone are <u>greater than 5 ppm</u> over background <u>but</u> <u>less than 25 ppm</u>, activities can resume provided that: the organic vapor level 200 feet downwind of the working site or half the distance to the nearest off-site residential or commercial structure, whichever is less, is below 5 ppm over background; and more frequent intervals of monitoring, as directed by the SSHO, are conducted.
- If the <u>sustained</u> organic vapor level is <u>above 25 ppm</u> at the perimeter of the exclusion zone, the SSHO must be notified and work activities shut down. The SSHO will determine when re-entry of the exclusion zone is possible and will implement downwind air monitoring to ensure vapor emissions do not impact the nearest off-site residential or commercial structure at levels exceeding those specified in the *Organic Vapor Contingency Monitoring Plan* below. All readings will be recorded and will be available for New York State Department of Environmental Conservation (NYSDEC) and Department of Health (NYSDOH) personnel to review.

#### O ORGANIC VAPOR CONTINGENCY MONITORING PLAN:

- If the <u>sustained</u> organic vapor level is <u>greater than 5 ppm</u> over background 200 feet downwind from the work area or half the distance to the nearest offsite residential or commercial property, whichever is less, all work activities must be halted.
- If, following the cessation of the work activities or as the result of an emergency, <u>sustained</u> organic levels <u>persist above 5 ppm</u> above background 200 feet downwind or half the distance to the nearest off-site residential or commercial property from the work area, then the air quality must be



monitored within 20 feet of the perimeter of the nearest off-site residential or commercial structure (20-foot zone).

If efforts to abate the emission source are unsuccessful and if <u>sustained</u> organic vapor levels approach or exceed 5 ppm above background within the 20-foot zone for more than 30 minutes, or are sustained at levels greater than 10 ppm above background for longer than one minute, then the *Major Vapor Emission Response Plan* (see below) will automatically be placed into effect.

### o <u>Major Vapor Emission Response Plan</u>:

Upon activation, the following activities will be undertaken:

- 1. All Emergency Response Contacts as listed in this Health and Safety Plan and the Emergency Response Plan (Appendix A) will be advised.
- 2. The local police authorities will immediately be contacted by the SSHO and advised of the situation.
- 3. Frequent air monitoring will be conducted at 30-minute intervals within the 20-foot zone. If two <u>sustained</u> successive readings below action levels are measured, air monitoring may be halted or modified by the SSHO.

The following personnel are to be notified in the listed sequence in the event that a Major Vapor Emission Plan is activated:

| Responsible Person | Contact                          | Phone Number   |
|--------------------|----------------------------------|----------------|
| SSHO               | Police                           | 911            |
| SSHO               | State Emergency Response Hotline | (800) 457-7362 |

Additional emergency numbers are listed in the Emergency Response Plan included as Appendix A.

#### • EXPLOSIVE VAPORS:

- <u>Sustained</u> atmospheric concentrations of greater than 10% LEL in the work area Initiate combustible gas monitoring at the downwind portion of the Site perimeter.
- <u>Sustained</u> atmospheric concentrations of greater than 10% LEL at the downwind Site perimeter Halt work and contact local Fire Department.



#### o Airborne Particulate Community Air Monitoring

Respirable (PM-10) particulate monitoring will be performed on a continuous basis at the upwind and downwind perimeter of the exclusion zone. The monitoring will be performed using real-time monitoring equipment capable of measuring PM-10 and integrating over a period of 15-minutes for comparison to the airborne particulate action levels. The equipment will be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration will be visually assessed during all work activities. All readings will be recorded and will be available for NYSDEC and NYSDOH review. Readings will be interpreted as follows:

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (µg/m<sup>3</sup>) greater than the background (upwind perimeter) reading for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression provided that the downwind PM-10 particulate levels do not exceed 150 µg/m<sup>3</sup> above the upwind level and that visible dust is not migrating from the work area.
- If, after implementation of dust suppression techniques downwind PM-10 levels are greater than 150 µg/m<sup>3</sup> above the upwind level, work activities must be stopped and dust suppression controls re-evaluated. Work can resume provided that supplemental dust suppression measures and/or other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 µg/m<sup>3</sup> of the upwind level and in preventing visible dust migration.

Pertinent emergency response information including the telephone number of the Fire Department is included in the Emergency Response Plan (Appendix A).



# 9.0 SPILL RELEASE/RESPONSE

This chapter of the HASP describes the potential for and procedures related to spills or releases of known or suspected petroleum and/or hazardous substances on the Site. The purpose of this Section of the HASP is to plan appropriate response, control, countermeasures and reporting, consistent with OSHA requirements in 29 CFR 1910.120(b)(4)(ii)(J) and (j)(1)(viii). The spill containment program addresses the following elements:

- Potential hazardous material spills and available controls.
- Initial notification and evaluation.
- Spill response.
- Post-spill evaluation.

## 9.1 Potential Spills and Available Controls

An evaluation was conducted to determine the potential for hazardous material and oil/petroleum spills at this site. For the purpose of this evaluation, hazardous materials posing a significant spill potential are considered to be:

- CERCLA Hazardous Substances as identified in 40 CFR Part 302, where such materials pose the potential for release in excess of their corresponding Reportable Quantity (RQ).
- Extremely Hazardous Substances as identified in 40 CFR Part 355, Appendix A, where such materials pose the potential for release in excess of their corresponding RQ.
- Hazardous Chemicals as defined under Section 311(e) of the Emergency Planning and Community Right-To-Know Act of 1986, where such chemicals are present or will be stored in excess of 10,000 lbs.
- Toxic Chemicals as defined in 40 CFR Part 372, where such chemicals are present or will be stored in excess of 10,000 lbs.
- Chemicals regulated under 6NYCRR Part 597, where such materials pose the potential for release in excess of their corresponding RQ.

Oil/petroleum products are considered to pose a significant spill potential whenever the following situations occur:

• The potential for a "harmful quantity" of oil (including petroleum and nonpetroleum-based fuels and lubricants) to reach navigable waters of the U.S. exists (40 CFR Part 112.4). Harmful quantities are considered by USEPA to be



volumes that could form a visible sheen on the water or violate applicable water quality standards.

- The potential for any amount of petroleum to reach any waters of NY State, including groundwater, exists. Petroleum, as defined by NY State in 6NYCRR Part 612, is a petroleum-based heat source, energy source, or engine lubricant/maintenance fluid.
- The potential for any release, to soil or water, of petroleum from a bulk storage facility regulated under 6NYCRR Part 612. A regulated petroleum storage facility is defined by NY State as a site having stationary tank(s) and intra-facility piping, fixtures and related equipment with an aggregate storage volume of 1,100 gallons or greater.

The evaluation indicates that, based on site history and decommissioning records, a hazardous material spill and/or a petroleum product spill is not likely to occur during Remedial efforts.

## 9.2 Initial Spill Notification and Evaluation

Any worker who discovers a hazardous substance or oil/petroleum spill will immediately notify the Project Manager and SSHO. The worker will, to the best of his/her ability, report the material involved, the location of the spill, the estimated quantity of material spilled, the direction/flow of the spill material, related fire/explosion incidents, if any, and any associated injuries. The Emergency Response Plan presented as Appendix A of this HASP will immediately be implemented if an emergency release has occurred.

Following initial report of a spill, the Project Manager will make an evaluation as to whether the release exceeds RQ levels. If an RQ level is exceeded, the Project Manager will notify the site owner and NYSDEC at 1-800-457-7362 within 2 hours of spill discovery. The Project Manager will also determine what additional agencies (e.g., USEPA) are to be contacted regarding the release, and will follow-up with written reports as required by the applicable regulations.

## 9.3 Spill Response

For all spill situations, the following general response guidelines will apply:

• Only those personnel involved in overseeing or performing containment operations will be allowed within the spill area. If necessary, the area will be



roped, ribboned, or otherwise blocked off to prevent unauthorized access.

- Appropriate PPE, as specified by the SSHO, will be donned before entering the spill area.
- Ignition points will be extinguished/removed if fire or explosion hazards exist.
- Surrounding reactive materials will be removed.
- Drains or drainage in the spill area will be blocked to prevent inflow of spilled materials or applied materials.

For minor spills, the Contractor will maintain a Spill Control and Containment Kit in the Field Office or other readily accessible storage location. The kit will consist of, at a minimum, a 50 lb. bag of "speedy dry" granular absorbent material, absorbent pads, shovels, empty 5-gallon pails and an empty open-top 55-gallon drum. Spilled materials will be absorbed, and shoveled into a 55-gallon drum for proper disposal (NYSDEC approval will be secured for on-site treatment of the impacted soils/absorbent materials, if applicable). Impacted soils will be hand-excavated to the point that no visible signs of contamination remains, and will be drummed with the absorbent.

In the event of a major release or a release that threatens surface water, a spill response contractor will be called to the site. The response contractor may use heavy equipment (i.e., excavator, backhoe, etc.) to berm the soils surrounding the spill site or create diversion trenching to mitigate overland migration or release to navigable waters. Where feasible, pumps will be used to transfer free liquid to storage containers. Spill control/ cleanup contractors in the Western New York area that may be contacted for assistance include:

- The Environmental Service Group of NY, Inc: (716) 695-6720
- Op-Tech: (716) 525-1962

## 9.4 Post-Spill Evaluation

If a reportable quantity of hazardous material or oil/petroleum is spilled as determined by the Project Manager, a written report will be prepared as indicated in Section 9.2. The report will identify the root cause of the spill, type and amount of material released, date/time of release, response actions, agencies notified and/or involved in cleanup, and procedures to be implemented to avoid repeat incidents. In addition, all re-useable spill



cleanup and containment materials will be decontaminated, and spill kit supplies/disposable items will be replenished.



## 10.0 HEAT/COLD STRESS MONITORING

Since some of the work activities at the Site may be scheduled for both summer and winter months, measures will be taken to minimize heat/cold stress to Benchmark employees. The SSHO and/or his or her designee will be responsible for monitoring Benchmark field personnel for symptoms of heat/cold stress.

## 10.1 Heat Stress Monitoring

Personal protective equipment may place an employee at risk of developing heat stress, a common and potentially serious illnesses often encountered at construction, landfill, waste disposal, industrial or other unsheltered sites. The potential for heat stress is dependent on a number of factors, including environmental conditions, clothing, workload, physical conditioning and age. Personal protective equipment may severely reduce the body's normal ability to maintain temperature equilibrium (via evaporation and convection), and require increased energy expenditure due to its bulk and weight.

Proper training and preventive measures will mitigate the potential for serious illness. Heat stress prevention is particularly important because once a person suffers from heat stroke or heat exhaustion, that person may be predisposed to additional heat related illness. To avoid heat stress, the following steps should be taken:

- Adjust work schedules.
- Modify work/rest schedules according to monitoring requirements.
- Mandate work slowdowns as needed.
- Perform work during cooler hours of the day if possible or at night if adequate lighting can be provided.
- Provide shelter (air-conditioned, if possible) or shaded areas to protect personnel during rest periods.
- Maintain worker's body fluids at normal levels. This is necessary to ensure that the cardiovascular system functions adequately. Daily fluid intake must approximately equal the amount of water lost in sweat (i.e., eight fluid ounces must be ingested for approximately every 1 lb of weight lost). The normal thirst mechanism is not sensitive enough to ensure that enough water will be consumed to replace lost perspiration. When heavy sweating occurs, workers should be encouraged to drink more.
- Train workers to recognize the symptoms of heat related illness.



#### Heat-Related Illness - Symptoms:

- Heat rash may result from continuous exposure to heat or humid air.
- Heat cramps are caused by heavy sweating with inadequate electrolyte replacement. Signs and symptoms include: muscle spasms; pain in the hands, feet and abdomen.
- Heat exhaustion occurs from increased stress on various body organs including inadequate blood circulation due to cardiovascular insufficiency or dehydration. Signs and symptoms include: pale, cool, moist skin; heavy sweating; dizziness; nausea; fainting.
- Heat stroke is the most serious form of heat stress. Temperature regulation fails and the body temperature rises to critical levels. Immediate action must be taken to cool the body before serious injury and death occur. Competent medical help must be obtained. Signs and symptoms are: red, hot, usually dry skin; lack of or reduced perspiration; nausea; dizziness and confusion; strong, rapid pulse; coma.

The monitoring of personnel wearing protective clothing should commence when the ambient temperature is 70 degrees Fahrenheit or above. For monitoring the body's recuperative ability to excess heat, one or more of the following techniques should be used as a screening mechanism.

- Heart rate may be measured by the radial pulse for 30 seconds as early as possible in the resting period. The rate at the beginning of the rest period should not exceed 100 beats per minute. If the rate is higher, the next work period should be shortened by 10 minutes (or 33%), while the length of the rest periods stay the same. If the pulse rate is 100 beats per minute at the beginning of the nest rest period, the following work cycle should be further shortened by 33%.
- Body temperature may be measured orally with a clinical thermometer as early as possible in the resting period. Oral temperature at the beginning of the rest period should not exceed 99.6 degrees Fahrenheit. If it does, the next work period should be shortened by 10 minutes (or 33%), while the length of the rest period remains the same. However, if the oral temperature exceeds 99.6 degrees Fahrenheit at the beginning of the next period, the work cycle may be further shortened by 33%. Oral temperature should be measured at the end of the rest period to make sure that it has dropped below 99.6 degrees Fahrenheit. No Benchmark employee will be permitted to continue wearing semi-permeable or impermeable garments when his/her oral temperature exceeds 100.6 degrees Fahrenheit.



## 10.2 Cold Stress Monitoring

Exposure to cold conditions may result in frostbite or hypothermia, each of which progresses in stages as shown below.

- **Frostbite** occurs when body tissue (usually on the extremities) begins to freeze. The three states of frostbite are:
  - 1) **Frost nip** This is the first stage of the freezing process. It is characterized by a whitened area of skin, along with a slight burning or painful sensation. Treatment consists of removing the victim from the cold conditions, removal of boots and gloves, soaking the injured part in warm water (102 to 108 degrees Fahrenheit) and drinking a warm beverage. Do not rub skin to generate friction/ heat.
  - 2) **Superficial Frostbite** This is the second stage of the freezing process. It is characterized by a whitish gray area of tissue, which will be firm to the touch but will yield little pain. The treatment is identical for Frost nip.
  - 3) **Deep Frostbite** In this final stage of the freezing process the affected tissue will be cold, numb and hard and will yield little to no pain. Treatment is identical to that for Frost nip.
- **Hypothermia** is a serious cold stress condition occurring when the body loses heat at a rate faster than it is produced. If untreated, hypothermia may be fatal. The stages of hypothermia may not be clearly defined or visible at first, but generally include:
  - 1) Shivering
  - 2) Apathy (i.e., a change to an indifferent or uncaring mood)
  - 3) Unconsciousness
  - 4) Bodily freezing

Employees exhibiting signs of hypothermia should be treated by medical professionals. Steps that can be taken while awaiting help include:

- 1) Remove the victim from the cold environment and remove wet or frozen clothing. (Do this carefully as frostbite may have started.)
- 2) Perform active re-warming with hot liquids for drinking (Note: do not give the victim any liquid containing alcohol or caffeine) and a warm water bath (102 to 108 degrees Fahrenheit).
- 3) Perform passive re-warming with a blanket or jacket wrapped around the victim.



In any potential cold stress situation, it is the responsibility of the Site Health and Safety Officer to encourage the following:

- Education of workers to recognize the symptoms of frostbite and hypothermia.
- Workers should dress warmly, with more layers of thin clothing as opposed to one thick layer.
- Personnel should remain active and keep moving.
- Personnel should be allowed to take shelter in a heated areas, as necessary.
- Personnel should drink warm liquids (no caffeine or alcohol if hypothermia has set in).
- For monitoring the body's recuperation from excess cold, oral temperature recordings should occur:
  - At the Site Safety Technicians discretion when suspicion is based on changes in a worker's performance or mental status.
  - At a workers request.
  - As a screening measure, two times per shift, under unusually hazardous conditions (e.g., wind chill less than 20 degrees Fahrenheit or wind chill less than 30 degrees Fahrenheit with precipitation).
  - As a screening measure whenever anyone worker on site develops hypothermia.

Any person developing moderate hypothermia (a core body temperature of 92 degrees Fahrenheit) will not be allowed to return to work for 48 hours without the recommendation of a qualified medical doctor.



# 11.0 WORK ZONES & SITE CONTROL

Work zones around the areas designated for construction activities will be established on a daily basis and communicated to all employees and other site users by the SSHO. It shall be each Contractor's SSHO's responsibility to ensure that all site workers are aware of the work zone boundaries and to enforce proper procedures in each area. The zones will include:

- Exclusion Zone ("Hot Zone"): The area where contaminated materials may be exposed, excavated or handled and all areas where contaminated equipment or personnel may travel. The zone will be delineated by flagging tape. All personnel entering the Exclusion Zone must wear the prescribed level of personal protective equipment identified in Section 7.
- Contamination Reduction Zone: The zone where decontamination of personnel and equipment takes place. Any potentially contaminated clothing, equipment and samples must remain in the Contamination Reduction Zone until decontaminated.
- Support Zone: The part of the site that is considered non-contaminated or "clean." Support equipment will be located in this zone, and personnel may wear normal work clothes within this zone.

In the absence of other task-specific work zone boundaries established by the SSHO, the following boundaries will apply to all construction activities involving disruption or handling of site soils or groundwater:

- Exclusion Zone: 50 foot radius from the outer limit of the sampling/construction activity.
- Contaminant Reduction Zone: 100 foot radius from the outer limit of the sampling/construction activity.
- Support Zone: Areas outside the Contaminant Reduction Zone.

Access of non-essential personnel to the Exclusion and Contamination Reduction Zones will be strictly controlled by the SSHO. Only personnel who are essential to the completion of the task will be allowed access to these areas and only if they are wearing the prescribed level of protection. Entrance of all personnel must be approved by the SSHO.

The SSHO will maintain a Health and Safety Logbook containing the names of Benchmark workers and their level of protection. The zone boundaries may be changed by the SSHO as environmental conditions warrant, and to respond to the necessary changes in work locations on-site.



# 12.0 DECONTAMINATION

### 12.1 Decontamination for Benchmark Employees

The degree of decontamination required is a function of a particular task and the environment within which it occurs. The following decontamination procedure will remain flexible, thereby allowing the decontamination crew to respond appropriately to the changing environmental conditions that may arise at the site. All Benchmark personnel onsite shall follow the procedure below, or the Contractor's procedure (if applicable), whichever is more stringent.

**Station 1 - Equipment Drop:** Deposit visibly contaminated (if any) re-useable equipment used in the contamination reduction and exclusion zones (tools, containers, monitoring instruments, radios, clipboards, etc.) on plastic sheeting.

Station 2 - Boots and Gloves Wash and Rinse: Scrub outer boots and outer gloves.

**Station 3 - Tape, Outer Boot and Glove Removal:** Remove tape, outer boots and gloves. Deposit tape and gloves in waste disposal container.

**Station 4 - Canister or Mask Change:** If worker leaves exclusive zone to change canister (or mask), this is the last step in the decontamination procedure. Worker's canister is exchanged, new outer gloves and boot cover donned, and worker returns to duty.

Station 5 - Outer Garment/Face Piece Removal: Protective suit removed and deposited in separate container provided by Contractor. Face piece or goggles are removed if used. Avoid touching face with fingers. Face piece and/or goggles deposited on plastic sheet. Hard hat removed and placed on plastic sheet.

**Station 6 - Inner Glove Removal:** Inner gloves are the last PPE to be removed. Avoid touching the outside of the gloves with bare fingers. Dispose of these gloves in waste disposal container.

Following PPE removal, personnel shall wash hands, face and forearms with absorbent wipes. If field activities proceed for a duration of 6 consecutive months or longer, shower facilities will be provided for worker use in accordance with OSHA 29 CFR 1910.120(n).



#### 12.2 Decontamination for Medical Emergencies

In the event of a minor, non-life threatening injury, personnel should follow the decontamination procedures as defined, and then administer first-aid.

In the event of a major injury or other serious medical concern (e.g., heat stroke), immediate first-aid is to be administered and the victim transported to the hospital in lieu of further decontamination efforts unless exposure to a site contaminant would be considered "Immediately Dangerous to Life or Health."

#### 12.3 Decontamination of Field Equipment

Decontamination of heavy equipment will be conducted by the Contractor in accordance with his approved Health and Safety Plan in the Contamination Reduction Zone. As a minimum, this will include manually removing heavy soil contamination, followed by steam cleaning on an impermeable pad.

Decontamination of all tools used for sample collection purposes will be conducted by Benchmark personnel. It is expected that all tools will be constructed of nonporous, nonabsorbent materials (i.e., metal), which will aid in the decontamination effort. Any tool or part of a tool made of porous, absorbent material (i.e., wood) will be placed into suitable containers and prepared for disposal.

Decontamination of bailers, split-spoons, spatula knives, and other tools used for environmental sampling and examination shall be as follows:

- Disassemble the equipment.
- Water wash to remove all visible foreign matter.
- Wash with detergent.
- Rinse all parts with distilled-deionized water.
- Allow to air dry.
- Wrap all parts in aluminum foil or polyethylene.



## 13.0 CONFINED SPACE ENTRY

OSHA 29 CFR 1910.146 identifies a confined space as a space that is large enough and so configured that an employee can physically enter and do assigned work, has limited or restricted means for entry and exit, and is not intended for continuous employee occupancy. Confined spaces include, but are not limited to, trenches, storage tanks, process vessels, pits, sewers, tunnels, underground utility vaults, pipelines, sumps, wells, and excavations.

Confined space entry by Benchmark employees is not anticipated to be necessary to complete the remedial activities identified in Section 2.0. In the event that the scope of work changes or confined space entry appears necessary, the Project Manager will be consulted to determine if feasible engineering alternatives to confined space entry can be implemented. If confined space entry by Benchmark employees cannot be avoided through reasonable engineering measures, task-specific confined space entry procedures will be developed and a confined-space entry permit will be issued through Benchmark's corporate Health and Safety Director. Benchmark employees shall not enter a confined space without these procedures and permits in place.



## 14.0 FIRE PREVENTION & PROTECTION

#### 14.1 General Approach

Recommended practices and standards of the National Fire Protection Association (NFPA) and other applicable regulations will be followed in the development and application of Project Fire Protection Programs. When required by regulatory authorities, the project management will prepare and submit a Fire Protection Plan for the approval of the contracting officers, authorized representative or other designated official. Essential considerations for the Fire Protection Plan will include:

- Proper site preparation and safe storage of combustible and flammable materials.
- Availability of coordination with private and public fire authorities.
- Adequate job-site fire protection and inspections for fire prevention.
- Adequate indoctrination and training of employees.

### 14.2 Equipment and Requirements

Fire extinguishers will be provided by each Contractor and are required on all heavy equipment and in each field trailer. Fire extinguishers will be inspected, serviced, and maintained in accordance with the manufacturer's instructions. As a minimum, all extinguishers shall be checked monthly and weighed semi-annually, and recharged if necessary. Recharge or replacement shall be mandatory immediately after each use.

### 14.3 Flammable and Combustible Substances

All storage, handling or use of flammable and combustible substances will be under the supervision of qualified persons. All tanks, containers and pumping equipment, whether portable or stationary, used for the storage and handling of flammable and combustible liquids, will meet the recommendations of the NFPA.



## 14.4 Hot Work

If the scope of work necessitates welding or blowtorch operation, the hot work permit presented in Appendix B will be completed by the SSHO and reviewed/issued by the Project Manager.



## **15.0 Emergency Information**

In accordance with OSHA 29 CFR Part 1910, an Emergency Response Plan is attached to this HASP as Appendix A. Figure A-1 is the hospital route map.



## **16.0 REFERENCES**

1. New York State Department of Health. 2010. Generic Community Air Monitoring Plan, Appendix 1A, DER-10 Technical Guidance for Site Investigation and Remediation. May.







#### PARAMETERS OF INTEREST

#### Site Health & Safety Plan 295 Maryland Street Site **Buffalo, New York**

|                             |              | Maximum               | Detected Conce               | ected Concentration <sup>2</sup>   |  |  |  |
|-----------------------------|--------------|-----------------------|------------------------------|------------------------------------|--|--|--|
| Parameter <sup>1</sup>      | CAS No.      | Groundwater<br>(µg/L) | Surface Soil/Fill<br>(mg/kg) | Subsurface<br>Soil/Fill<br>(mg/kg) |  |  |  |
| Volatile Organic Compounds  | (VOCs):      |                       |                              |                                    |  |  |  |
| Benzene                     | 71-43-2      | 38                    | ND                           | 0.8                                |  |  |  |
| Ethylbenzene                | 100-41-4     | 39                    | ND                           | ND                                 |  |  |  |
| Toluene                     | 108-88-3     | 18                    | ND                           | ND                                 |  |  |  |
| Xylene, Total               | 1330-20-7    | 97                    | ND                           | ND                                 |  |  |  |
| Polycyclic Aromatic Hydroca | rbons (PAHs) | ):                    |                              |                                    |  |  |  |
| Benz(a)anthracene           | 56-55-3      | 0.35                  | 17                           | 2                                  |  |  |  |
| Benzo(a)pyrene              | 50-32-8      | ND                    | 13                           | 1.6                                |  |  |  |
| Benzo(b)fluoranthene        | 205-99-2     | ND                    | 19                           | 2.6                                |  |  |  |
| Benzo(k)fluoranthene        | 207-08-9     | ND                    | 8.1                          | 0.98                               |  |  |  |
| Chrysene                    | 218-01-9     | ND                    | 14                           | 1.7                                |  |  |  |
| Dibenz(ah)anthracene        | 53-70-3      | ND                    | 0.61                         | ND                                 |  |  |  |
| Indeno(1,2,3-cd)pyrene      | 193-39-5     | ND                    | 7                            | 0.74                               |  |  |  |
| Inorganic Compounds:        |              |                       |                              |                                    |  |  |  |
| Arsenic                     | 7440-38-2    | ND                    | 23                           | 7.8                                |  |  |  |
| Barium                      | 7440-39-3    | 0.332                 | 516                          | 552                                |  |  |  |
| Cadmium                     | 7440-43-9    | ND                    | 4.2                          | 2.26                               |  |  |  |
| Lead                        | 7439-92-1    | ND                    | 8,160                        | 1,420                              |  |  |  |
| Mercury                     | 7439-97-6    | ND                    | 1                            | 0.92                               |  |  |  |

#### Notes:

1. Constituents were identified as parameters of interest during the Phase II and RAWP investigation.

2. Maximum detected concentrations as presented in the RAWP.

Acronyms: NA = Not analyzed.

ND = Parameter not detected above method detection limits.



#### TOXICITY DATA FOR PARAMETERS OF INTEREST

#### Site Health & Safety Plan 295 Maryland Street Site Buffalo, New York

|  |                               |           |       | Concentration Limits 1 |          |      |  |  |  |  |
|--|-------------------------------|-----------|-------|------------------------|----------|------|--|--|--|--|
| Parameter  | Synonyms                      | CAS No.   | Code  | PEL                    | TLV      | IDLH |  |  |  |  |
| Volatile Organic Compoun                                   |                               | <u> </u>  |       |                        |          |      |  |  |  |  |
| Benzene  | Benzol, Phenyl hydride        | 71-43-2   | Ca    | 1                      | 0.5      | 500  |  |  |  |  |
| Ethylbenzene   | Ethylbenzol, Phenylethane     | 100-41-4  | none  | 100                    | 100      | 800  |  |  |  |  |
| Toluene  | Methyl benzene, Methyl benzol | 108-88-3  | C-300 | 200                    | 50       | 500  |  |  |  |  |
| Xylene, Total  | o-, m-, p-isomers             | 1330-20-7 | none  | 100                    | 100      | 900  |  |  |  |  |
| Polycyclic Aromatic Hydrocarbons (PAHs) <sup>2</sup> : ppm |                               |           |       |                        |          |      |  |  |  |  |
| Benz(a)anthracene  | none                          | 56-55-3   | none  |                        |          |      |  |  |  |  |
| Benzo(a)pyrene   | none                          | 50-32-8   | none  |                        |          |      |  |  |  |  |
| Benzo(b)fluoranthene                                       | none                          | 205-99-2  | none  |                        |          |      |  |  |  |  |
| Benzo(k)fluoranthene                                       | none                          | 207-08-9  | none  |                        |          |      |  |  |  |  |
| Chrysene   | none                          | 218-01-9  | none  |                        |          |      |  |  |  |  |
| Dibenz(ah)anthracene                                       | none                          | 53-70-3   | none  |                        |          |      |  |  |  |  |
| Indeno(1,2,3-cd)pyrene                                     | none                          | 193-39-5  | none  |                        |          |      |  |  |  |  |
| Inorganic Compounds: mg                                    | /m <sup>3</sup>               |           |       |                        |          |      |  |  |  |  |
| Arsenic  | none                          | 7440-38-2 | Ca    | 0.01                   | 0.01     | 5    |  |  |  |  |
| Barium   | none                          | 7440-39-3 | none  | 0.5                    | 0.5      | 50   |  |  |  |  |
| Cadmium  | none                          | 7440-43-9 | Ca    | 0.005                  | 0.01     | 9    |  |  |  |  |
| Lead   | none                          | 7439-92-1 | none  | 0.05                   | 0.15     | 100  |  |  |  |  |
| Mercury  | none                          | 7439-97-6 | C-0.1 | 0.1                    | 0.1 0.05 |      |  |  |  |  |

Notes:

1. Concentration limits as reported by NIOSH Pocket Guide to Chemical Hazards, February 2004 (NIOSH Publication No. 97-140, fourth printing with changes and updates).

Individual parameters listed are those most commonly detected at steel/coke manufacturing sites.
 " -- " = concentration limit not available; exposure should be minimized to the extent feasible through appropriate engineering controls & PPE.

#### Explanation:

Ca = NIOSH considers constituent to be a potential occupational carcinogen.

C-## = Ceiling Level equals the maximum exposure concentration allowable during the work day.

IDLH = Immediately Dangerous to Life or Health.

ND indicates that an IDLH has not as yet been determined. TLV = Threshold Limit Value, established by American Conference of Industrial Hygienists (ACGIH), equals the maximum exposure concentration allowable for 8 hours/day @ 40 hours/week.

TLVs are the amounts of chemicals in the air that almost all healthy adult workers are predicted to be able to tolerate without adverse effects. There are three types.

TLV-TWA (TLV-Time-Weighted Average) which is averaged over the normal eight-hour day/forty-hour work week. (Most TLVs.)

TLV-STEL or Short Term Exposure Limits are 15 minute exposures that should not be exceeded for even an instant. It is not a stand alone value but is accompanied by the TLV-TWA. It indicates a higher exposure that can be tolerated for a short time without adverse effect as long as the total time weighted average is not exceeded.

TLV-C or Ceiling limits are the concentration that should not be exceeded during any part of the working exposure.

Unless the initials "STEL" or "C" appear in the Code column, the TLV value should be considered to be the eight-hour TLV-TWA.

PEL = Permissible Exposure Limit, established by OSHA, equals the maximium exposure conconcentration allowable for 8 hours per day @ 40 hours per week



#### POTENTIAL ROUTES OF EXPOSURE TO PARAMETERS OF INTEREST

#### Site Health and Safety Plan 295 Maryland Street Site Buffalo, New York

| Activity <sup>1</sup>              | Direct<br>Contact<br>with Soil/Fill | Inhalation of<br>Vapors or<br>Dust | Direct<br>Contact with<br>Groundwater |
|------------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
| 1. Soil/Fill Excavation            | x                                   | х                                  |                                       |
| 2. Soil/Fill Verification Sampling | x                                   | x                                  |                                       |
| 3. Surface Water Management        |                                     |                                    | х                                     |
| 4. Subgrade Work                   | x                                   | x                                  |                                       |

#### Notes:

1. Activity as described in Section 1.5 of the Health and Safety Plan



#### **REQUIRED LEVELS OF PROTECTION FOR REMEDIAL ACTIVITIES**

#### Site Health and Safety Plan 295 Maryland Street Site Buffalo, New York

| Activity                           | Respiratory<br>Protection <sup>1</sup>       | Clothing                 | Gloves <sup>2</sup> | Boots <sup>2,3</sup>    | Other Required<br>PPE/Modifications <sup>2,4</sup> |
|------------------------------------|--|--------------------------|---------------------|-------------------------|--|
| 1. Soil/Fill Excavation            | Level D<br>(upgrade to Level C if necessary) | Work Uniform or<br>Tyvek | L                   | outer: L<br>inner: STSS | HH<br>SGSS   |
| 2. Soil/Fill Verification Sampling | Level D<br>(upgrade to Level C if necessary) | Work Uniform or<br>Tyvek | L                   | outer: L<br>inner: STSS | HH<br>SGSS   |
| 3. Surface Water Management        | Level D<br>(upgrade to Level C if necessary) | Work Uniform or<br>Tyvek | L/N                 | outer: L<br>inner: STSS | HH<br>SGSS   |
| 4. Subgrade Work                   | Level D<br>(upgrade to Level C if necessary) | Work Uniform or<br>Tyvek | L                   | outer: L<br>inner: STSS | HH<br>SGSS   |

Notes:

1. Respiratory equipment shall conform to guidelines presented in Section 7.0 of this HASP. The Level C requirement is an air-purifying respirator equiped with organic compound/acid gas/dust

2. HH = hardhat; L= Latex; L/N = latex inner glove, nitrile outer glove; N = Nitrile; S = Saranex; SG = safety glasses; SGSS = safety glasses with sideshields; STSS = steel toe safety shoes.

3. Latex outer boot (or approved overboot) required whenever contact with contaminated materials may occur. SSHO may downgrade to STSS (steel-toed safety shoes) if contact will be limited to cover/replacement soils.

4. Dust masks shall be donned as directed by the SSHO (site safety and health officer) or site safety technician whenever potentially contaminated airborne particulates (i.e., dust) are present in significant

## **APPENDIX A**

**EMERGENCY RESPONSE PLAN** 



## SITE HASP – APPENDIX A

## EMERGENCY RESPONSE PLAN FOR BROWNFIELD CLEANUP PROGRAM

295 MARYLAND STREET SITE BUFFALO, NEW YORK

July 2011

0222-001-100

Prepared for:

295 MARYLAND, LLC

Prepared By:



Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218 (716)856-0599

## SITE HEALTH AND SAFETY PLAN 295 Maryland Street Site Appendix A: Emergency Response Plan

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Figure A-1 Hospital Route Map



## 1.0 GENERAL

This report presents the site-specific Emergency Response Plan (ERP) referenced in the Site Health and Safety Plan (HASP) prepared for remedial activities conducted at the 295 Maryland Street Site in Buffalo, New York. This appendix of the HASP describes potential emergencies that may occur at the Site; procedures for responding to those emergencies; roles and responsibilities during emergency response; and training all workers must receive in order to follow emergency procedures. This ERP also describes the provisions this Site has made to coordinate its emergency response planning with other contractors on-site and with off-site emergency response organizations. This ERP is consistent with the requirements of 29 CFR 1910.120(l) and provides the following site-specific information:

- Pre-emergency planning.
- Personnel roles, lines of authority, and communication.
- Emergency recognition and prevention.
- Safe distances and places of refuge.
- Evacuation routes and procedures.
- Decontamination procedures.
- Emergency medical treatment and first aid.
- Emergency alerting and response procedures.
- Critique of response and follow-up.
- Emergency personal protective equipment (PPE) and equipment.



## 2.0 PRE-EMERGENCY PLANNING

This Site has been evaluated for potential emergency occurrences, based on site hazards, the required work tasks, the site topography, and prevailing weather conditions. The results of that evaluation indicate the potential for the following site emergencies to occur at the locations indicated.

#### Type of Emergency:

- 1. Medical, due to physical injury
- 2. Fire

Source of Emergency:

- 1. Slip/trip/fall
- 2. Fire

Location of Source: Non-specific



### 3.0 ON-SITE EMERGENCY RESPONSE EQUIPMENT

Emergency procedures may require specialized equipment to facilitate worker rescue, contamination control and reduction, or post-emergency clean up. Emergency response equipment available on the Site is listed below. The equipment inventory and storage locations are based on the potential emergencies described above. This equipment inventory is designed to meet on-site emergency response needs and any specialized equipment needs that off-site responders might require because of the hazards at this Site but not ordinarily stocked.

Any additional personal protective equipment (PPE) required and stocked for emergency response is also listed in below. During an emergency, the Emergency Response Coordinator (ERC) is responsible for specifying the level of PPE required for emergency response. At a minimum, PPE used by emergency responders will comply with Section 7.0, Personal Protective Equipment, of this HASP. Emergency response equipment is inspected at regular intervals and maintained in good working order. The equipment inventory is replenished as necessary to maintain response capabilities.

| Emergency Equipment        | Quantity    | Location                                |
|----------------------------|-------------|---|
| Spill Response Kit         | 1           | Site Vehicle                            |
| First Aid Kit              | 1           | Site Vehicle                            |
| Chemical Fire Extinguisher | 2 (minimum) | All heavy equipment and Site<br>Vehicle |

| Emergency PPE            | Quantity          | Location     |
|--------------------------|-------------------|--------------|
| Full-face respirator     | 1 for each worker | Site Vehicle |
| Chemical-resistant suits | 4 (minimum)       | Site Vehicle |



### 4.0 EMERGENCY PLANNING MAPS

An area-specific map of the Site will be developed on a daily basis during performance of field activities. The map will be marked to identify critical on-site emergency planning information, including: emergency evacuation routes, a place of refuge, an assembly point, and the locations of key site emergency equipment. Site zone boundaries will be shown to alert responders to known areas of contamination. There are no major topographical features; however, the direction of prevailing winds/weather conditions that could affect emergency response planning are also marked on the map. The map will be posted at site-designated place of refuge and inside the Benchmark personnel field vehicle.



## 5.0 Emergency Contacts

The following identifies the emergency contacts for this ERP.

#### Emergency Telephone Numbers:

#### Project Manager: Thomas H. Forbes

Work: (716) 856-0599 Mobile: (716) 864-1730

#### Corporate Health and Safety Director: Thomas H. Forbes

Work: (716) 856-0599 Mobile: (716) 864-1730

#### Site Safety and Health Officer (SSHO): Richard L. Dubisz

Work: (716) 856-0599 Mobile: (716) 998-4334

#### Alternate SSHO: Thomas Behrendt

Work: (716) 856-0599 Mobile: (716) 818-8358

| BUFFALO GENERAL HOSPITAL:         | (716)859-5600  |
|-----------------------------------|----------------|
| FIRE                              | 911            |
| AMBULANCE:                        | 911            |
| BUFFALO POLICE:                   | 911            |
| STATE EMERGENCY RESPONSE HOTLINE: | (800) 457-7362 |
| NATIONAL RESPONSE HOTLINE:        | (800) 424-8802 |
| NYSDOH:                           | (716) 847-4385 |
| NYSDEC:                           | (716) 851-7220 |
| NYSDEC 24-HOUR SPILL HOTLINE:     | (800) 457-7252 |
|                                   |                |

#### The Site location is:

295 Maryland Street Buffalo, New York 14201 Site Phone Number: (Insert Cell Phone or Field Trailer):



### 6.0 EMERGENCY ALERTING & EVACUATION

Internal emergency communication systems are used to alert workers to danger, convey safety information, and maintain site control. Any effective system can be employed. Two-way radio headsets or field telephones are often used when work teams are far from the command post. Hand signals and air-horn blasts are also commonly used. Every system <u>must</u> have a backup. It shall be the responsibility of each contractor's SSHO to ensure an adequate method of internal communication is understood by all personnel entering the site. Unless all personnel are otherwise informed, the following signals shall be used.

- 1) Emergency signals by portable air horn, siren, or whistle: two short blasts, personal injury; continuous blast, emergency requiring site evacuation.
- 2) Visual signals: hand gripping throat, out of air/cannot breathe; hands on top of head, need assistance; thumbs up, affirmative/ everything is OK; thumbs down, no/negative; grip partner's wrist or waist, leave area immediately.

If evacuation notice is given, site workers leave the worksite with their respective buddies, if possible, by way of the nearest exit. Emergency decontamination procedures detailed in Section 12.0 of the HASP are followed to the extent practical without compromising the safety and health of site personnel. The evacuation routes and assembly area will be determined by conditions at the time of the evacuation based on wind direction, the location of the hazard source, and other factors as determined by rehearsals and inputs from emergency response organizations. Wind direction indicators are located so that workers can determine a safe up wind or cross wind evacuation route and assembly area if not informed by the emergency response coordinator at the time the evacuation alarm sounds. Since work conditions and work zones within the site may be changing on daily basis, it shall be the responsibility of the construction Site Health and Safety Officer to review evacuation routes and procedures as necessary and to inform all Benchmark workers of any changes.

Personnel exiting the site will gather at a designated assembly point. To determine that everyone has successfully exited the site, personnel will be accounted for at the assembly site. If any worker cannot be accounted for, notification is given to the SSHO (*Thomas Behrendt* or *Richard Dubisz*) so that appropriate action can be initiated. Contractors and subcontractors on this site have coordinated their emergency response plans to ensure that



these plans are compatible and that source(s) of potential emergencies are recognized, alarm systems are clearly understood, and evacuation routes are accessible to all personnel relying upon them.



## 7.0 EXTREME WEATHER CONDITIONS

In the event of adverse weather conditions, the SSHO in conjunction with the Contractor's SSHO will determine if engineering operations can continue without sacrificing the health and safety of site personnel. Items to be considered prior to determining if work should continue include but are not limited to:

- Potential for heat/cold stress.
- Weather-related construction hazards (i.e., flooding or wet conditions producing undermining of structures or sheeting, high wind threats, etc).
- Limited visibility.
- Potential for electrical storms.
- Limited site access/egress (e.g., due to heavy snow)

### 8.0 EMERGENCY MEDICAL TREATMENT & FIRST AID

#### Personnel Exposure:

The following general guidelines will be employed in instances where health impacts threaten to occur acute exposure is realized:

- <u>Skin Contact</u>: Use copious amounts of soap and water. Wash/rinse affected area for at least 15 minutes. Decontaminate and provide medical attention. Eyewash stations will be provided on site. If necessary, transport to Mercy Hospital.
- <u>Inhalation</u>: Move to fresh air and, if necessary, transport to Mercy Hospital.
- <u>Ingestion</u>: Decontaminate and transport to Mercy Hospital.

#### Personal Injury:

Minor first-aid will be applied on-site as deemed necessary. In the event of a life threatening injury, the individual should be transported to Mercy Hospital via ambulance. The SSHO will supply available chemical specific information to appropriate medical personnel as requested.

First aid kits will conform to Red Cross and other applicable good health standards, and shall consist of a weatherproof container with individually sealed packages for each type of item. First aid kits will be fully equipped before being sent out on each job and will be checked weekly by the SSHO to ensure that the expended items are replaced.

#### Directions to Buffalo General Hospital (see Figure A-1):

The following directions describe the best route to Buffalo General Hospital:

- From the intersection of Maryland Street and West Avenue, proceed northeast (toward West Tupper Street).
- Turn right onto Cottage Street (street name changes to Virginia Street).
- Turn left onto Main Street.
- Turn right on Goodrich Street. Buffalo General Hospital will be on right hand side. Follow signs to emergency room (ER).



### 9.0 EMERGENCY RESPONSE CRITIQUE & RECORD KEEPING

Following an emergency, the SSHO and Project Manager shall review the effectiveness of this Emergency Response Plan (ERP) in addressing notification, control and evacuation requirements. Updates and modifications to this ERP shall be made accordingly. It shall be the responsibility of each contractor to establish and assure adequate records of the following:

- Occupational injuries and illnesses.
- Accident investigations.
- Reports to insurance carrier or State compensation agencies.
- Reports required by the client.
- Records and reports required by local, state, federal and/or international agencies.
- Property or equipment damage.
- Third party injury or damage claims.
- Environmental testing logs.
- Explosive and hazardous substances inventories and records.
- Records of inspections and citations.
- Safety training.



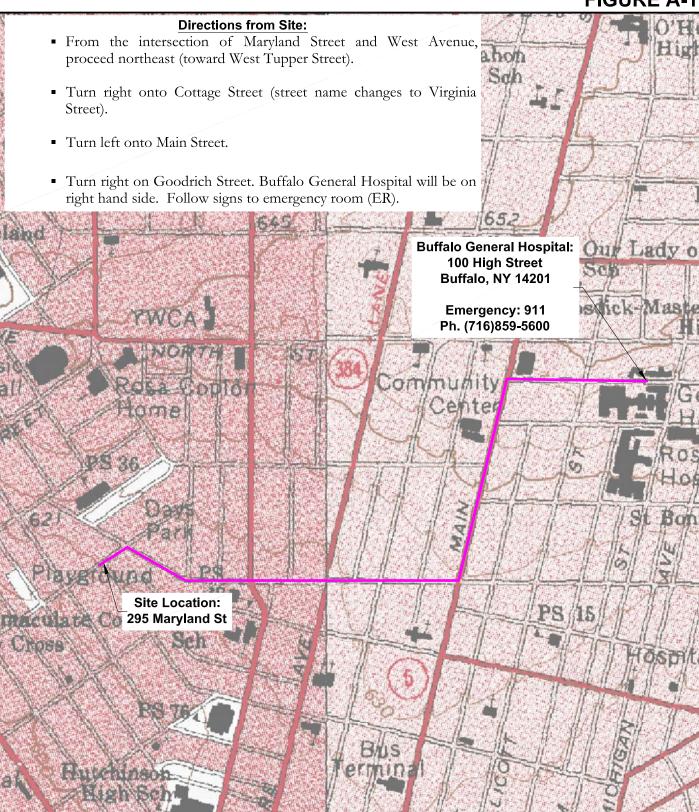
## **10.0 Emergency Response Training**

All persons who enter the worksite, including visitors, shall receive a site-specific briefing about anticipated emergency situations and the emergency procedures by the SSHO. Where this site relies on off-site organizations for emergency response, the training of personnel in those off-site organizations has been evaluated and is deemed adequate for response to this site.



# FIGURES







DATE: JUNE 2011

DRAFTED BY: JCT

PROJECT NO .: 0222-001-100

2558 HAMBURG TURNPIKE SUITE 300 BUFFALO, NY 14218 (716) 856-0599

## HOSPITAL ROUTE MAP

REMEDIAL ACTION WORK PLAN

295 MARYLAND STREET SITE 295 MARYLAND STREET BUFFALO, NEW YORK PREPARED FOR 295 MARYLAND, LLC

## **APPENDIX B**

HOT WORK PERMIT FORM





| Issue Date:  |                                     |
|--|-------------------------------------|
| Date Work to be Performed: Start:  | Finish (permit terminated):         |
| Performed By:  |                                     |
| Work Area:   |                                     |
| Object to be Worked On:  |                                     |
| ART 2 - APPROVAL   |                                     |
| (for 1, 2 or 3: mark Yes, No or NA)*                                     |                                     |
| Will working be on or in:  | Finish (permit terminated):         |
| 1. Metal partition, wall, ceiling covered by combustible material?       | yes no                              |
| 2. Pipes, in contact with combustible material?                          | yes no                              |
| 3. Explosive area?   | yes no                              |
| ART 3 - REQUIRED CONDITIONS**<br>(Check all conditions that must be met) |                                     |
| PROTECTIVE ACTION  | PROTECTIVE EQUIPMENT                |
| Specific Risk Assessment Required  | Goggles/visor/welding screen        |
| Fire or spark barrier  | Apron/fireproof clothing            |
| Cover hot surfaces   | Welding gloves/gauntlets/other:     |
| Move movable fire hazards, specifically                                  | Wellintons/Knee pads                |
| Erect screen on barrier  | Ear protection: Ear muffs/Ear plugs |
| Restrict Access  | B.A.: SCBA/Long Breather            |
| Wet the ground   | Respirator: Type:                   |
| Ensure adequate ventilation  | Cartridge:                          |
| Provide adequate supports  | Local Exhaust Ventilation           |
| Cover exposed drain/floor or wall cracks                                 | Extinguisher/Fire blanket           |
| Fire watch (must remain on duty during duration of permit)               | Personal flammable gas monitor      |
| Issue additional permit(s):  |                                     |
| Other precautions:   |                                     |
|  |                                     |
|  |                                     |
| ** Permit will not be issued until these conditions are me               | et.                                 |
| GNATURES   |                                     |
| Orginating Employee:   | Date:                               |
|  | Date:                               |
| Project Manager:   | Date:                               |

Prepared By: \_\_\_\_\_

\_\_\_\_

# **APPENDIX C**

## NYSDOH GENERIC COMMUNITY AIR MONITORING PLAN



#### Appendix 1A New York State Department of Health Generic Community Air Monitoring Plan

#### Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

#### Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

**Continuous monitoring** will be required for all <u>ground intrusive</u> activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

**Periodic monitoring** for VOCs will be required during <u>non-intrusive</u> activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

#### VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

#### Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter  $(mcg/m^3)$  greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m<sup>3</sup> above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m<sup>3</sup> above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m<sup>3</sup> of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

#### Appendix 1B Fugitive Dust and Particulate Monitoring

A program for suppressing fugitive dust and particulate matter monitoring at hazardous waste sites is a responsibility on the remedial party performing the work. These procedures must be incorporated into appropriate intrusive work plans. The following fugitive dust suppression and particulate monitoring program should be employed at sites during construction and other intrusive activities which warrant its use:

1. Reasonable fugitive dust suppression techniques must be employed during all site activities which may generate fugitive dust.

2. Particulate monitoring must be employed during the handling of waste or contaminated soil or when activities on site may generate fugitive dust from exposed waste or contaminated soil. Remedial activities may also include the excavation, grading, or placement of clean fill. These control measures should not be considered necessary for these activities.

3. Particulate monitoring must be performed using real-time particulate monitors and shall monitor particulate matter less than ten microns (PM10) with the following minimum performance standards:

- (a) Objects to be measured: Dust, mists or aerosols;
- (b) Measurement Ranges: 0.001 to 400 mg/m3 (1 to 400,000 :ug/m3);

(c) Precision (2-sigma) at constant temperature: +/- 10 :g/m3 for one second averaging; and +/- 1.5 g/m3 for sixty second averaging;

(d) Accuracy: +/- 5% of reading +/- precision (Referred to gravimetric calibration with SAE fine test dust (mmd= 2 to 3 :m, g= 2.5, as aerosolized);

- (e) Resolution: 0.1% of reading or 1g/m3, whichever is larger;
- (f) Particle Size Range of Maximum Response: 0.1-10;
- (g) Total Number of Data Points in Memory: 10,000;

(h) Logged Data: Each data point with average concentration, time/date and data point number

(i) Run Summary: overall average, maximum concentrations, time/date of maximum, total number of logged points, start time/date, total elapsed time (run duration), STEL concentration and time/date occurrence, averaging (logging) period, calibration factor, and tag number;

(j) Alarm Averaging Time (user selectable): real-time (1-60 seconds) or STEL (15 minutes), alarms required;

(k) Operating Time: 48 hours (fully charged NiCd battery); continuously with charger;

(1) Operating Temperature: -10 to  $50^{\circ}$  C (14 to  $122^{\circ}$  F);

(m) Particulate levels will be monitored upwind and immediately downwind at the working site and integrated over a period not to exceed 15 minutes.

4. In order to ensure the validity of the fugitive dust measurements performed, there must be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the remedial party to adequately supplement QA/QC Plans to include the following critical features: periodic instrument calibration, operator training, daily instrument performance (span) checks, and a record keeping plan.

5. The action level will be established at 150 ug/m3 (15 minutes average). While conservative,

this short-term interval will provide a real-time assessment of on-site air quality to assure both health and safety. If particulate levels are detected in excess of 150 ug/m3, the upwind background level must be confirmed immediately. If the working site particulate measurement is greater than 100 ug/m3 above the background level, additional dust suppression techniques must be implemented to reduce the generation of fugitive dust and corrective action taken to protect site personnel and reduce the potential for contaminant migration. Corrective measures may include increasing the level of personal protection for on-site personnel and implementing additional dust suppression techniques (see paragraph 7). Should the action level of 150 ug/m3 continue to be exceeded work must stop and DER must be notified as provided in the site design or remedial work plan. The notification shall include a description of the control measures implemented to prevent further exceedances.

6. It must be recognized that the generation of dust from waste or contaminated soil that migrates off-site, has the potential for transporting contaminants off-site. There may be situations when dust is being generated and leaving the site and the monitoring equipment does not measure PM10 at or above the action level. Since this situation has the potential to allow for the migration of contaminants off-site, it is unacceptable. While it is not practical to quantify total suspended particulates on a real-time basis, it is appropriate to rely on visual observation. If dust is observed leaving the working site, additional dust suppression techniques must be employed. Activities that have a high dusting potential-such as solidification and treatment involving materials like kiln dust and lime--will require the need for special measures to be considered.

7. The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:

- (a) Applying water on haul roads;
- (b) Wetting equipment and excavation faces;
- (c) Spraying water on buckets during excavation and dumping;
- (d) Hauling materials in properly tarped or watertight containers;
- (e) Restricting vehicle speeds to 10 mph;
- (f) Covering excavated areas and material after excavation activity ceases; and
- (g) Reducing the excavation size and/or number of excavations.

Experience has shown that the chance of exceeding the 150ug/m3 action level is remote when the above-mentioned techniques are used. When techniques involving water application are used, care must be taken not to use excess water, which can result in unacceptably wet conditions. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

8. The evaluation of weather conditions is necessary for proper fugitive dust control. When extreme wind conditions make dust control ineffective, as a last resort remedial actions may need to be suspended. There may be situations that require fugitive dust suppression and particulate monitoring requirements with action levels more stringent than those provided above. Under some circumstances, the contaminant concentration and/or toxicity may require additional monitoring to protect site personnel and the public. Additional integrated sampling and chemical analysis of the dust may also be in order. This must be evaluated when a health and safety plan is developed and when appropriate suppression and monitoring requirements are established for protection of health and the environment.

## **APPENDIX H**

**PROJECT DOCUMENTATION FORMS** 





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|  |                            |        |        |      |     |       |         |         |       |        |       |             |               |      |      |        |     |        |       |        |       |                                    |       |                |       |        |           |          |    |
|  |                            |        |        |      |     |       |         |         |       |        |       |             |               |      |      |        |     |        |       |        |       |                                    |       |                |       |        |           |          |    |
|  |                            |        |        |      |     |       |         |         |       |        |       |             |               |      |      |        |     |        |       |        |       |                                    |       |                |       |        |           |          |    |
|  |                            |        |        |      |     |       |         |         |       |        |       |             |               |      |      |        |     |        |       |        |       |                                    |       |                |       |        |           |          |    |
|  |                            |        |        |      |     |       |         |         |       |        |       |             |               |      |      |        |     |        |       |        |       |                                    |       |                |       |        |           |          |    |
|  |                            |        |        |      |     |       |         |         |       |        |       |             |               |      |      |        |     |        |       |        |       |                                    |       |                |       |        |           |          |    |
|  |                            |        |        |      |     |       |         |         |       |        |       |             |               |      |      |        |     |        |       |        |       |                                    |       |                |       |        |           |          |    |
|  |                            |        |        |      |     |       |         |         |       |        |       |             |               |      |      |        |     |        |       |        |       |                                    |       |                |       |        |           |          |    |
|  |                            |        |        |      |     |       |         |         |       |        |       |             |               |      |      |        |     |        |       |        |       |                                    |       |                |       |        |           |          |    |
|  |                            |        |        |      |     |       |         |         |       |        |       |             |               |      |      |        |     |        |       |        |       |                                    |       |                |       |        |           |          |    |
|  |                            |        |        |      |     |       |         |         |       |        |       |             |               |      |      |        |     |        |       |        |       |                                    |       |                |       |        | $\vdash$  |          |    |
|  |                            |        |        |      |     |       |         |         |       |        |       |             |               |      |      |        |     |        |       |        |       |                                    |       |                |       |        |           |          |    |
|  |                            |        |        |      |     |       |         |         |       |        |       |             |               |      |      |        |     |        |       |        |       |                                    |       |                |       |        |           |          |    |
|  |                            |        |        |      |     |       |         |         |       |        |       |             |               |      |      |        |     |        |       |        |       |                                    |       |                |       |        |           |          |    |
|  |                            |        |        |      |     |       |         |         |       |        |       |             |               |      |      |        |     |        |       |        |       |                                    |       |                |       |        |           |          |    |
|  |                            |        |        |      |     |       |         |         |       |        |       |             |               |      |      |        |     |        |       |        |       |                                    |       |                |       |        |           |          |    |
| RE   | FER                        | ENC    | ED     | PR   | OJE | СТ    | FIEL    | D F     |       | IS:    |       |             |               |      |      | 11     |     |        |       |        |       |                                    |       |                | 1     | 1      |           |          |    |
|  | Aqu                        |        |        |      |     |       |         |         | -     |        |       | Imp         | acted         | Soil | Exca | /ation | Log |        |       |        |       | Soil                               | Gas   | Surve          | y Lo  | 9      |           |          |    |
|  | Cha                        | in-of- | Custo  | dy F | orm |       |         |         |       |        |       |             | acted         |      |      |        |     | Log    |       |        |       | Step                               | -Drav | wdow           | n Tes | st Dat | a She     | et       |    |
| Construction Sample Summary Log                  |                            |        |        |      |     |       | itorin  |         |       |        |       |             |               |      |      |        |     | evatio |       |        |       |                                    |       |                |       |        |           |          |    |
| Corrective Measures Report Daily Drilling Report |                            |        |        |      |     |       | lear D  |         |       | er Fie | ld Lo | og          |               |      | H    | -      | -   |        |       | ting F | orm   |                                    |       |                |       |        |           |          |    |
|  |                            |        | afety  |      |     |       |         |         |       |        | ⊢     |             | togra<br>Leał | -    | -    | ายได   | a   |        |       |        | ⊣     |                                    |       | xcava<br>und/C |       | -      | Jtility ( | Checklis | st |
|  |                            |        | nt Cal |      |     | og    |         |         |       |        |       |             | t-Clos        | -    |      | -      | -   | Repo   | ort   |        |       |                                    | ance  |                |       |        |           |          |    |
|  |                            |        | ehole  |      |     |       |         |         |       |        |       |             | ssure         |      |      |        |     |        |       |        |       | Wate                               | er Le | vel M          | onito | ring R | ecord     | 1        |    |
|  |                            |        |        |      |     | -     | ll Inst | allatio | on Lo | g      |       |             | olem I        |      |      |        | •   |        |       |        |       | Water Quality Field Collection Log |       |                |       |        |           |          |    |
| 11   | Field Investigation Report |        |        |      |     |       |         | Pop     | I_Tim | o Air  | Monit | oring       | 100           |      |      |        |     | \A/ata | or Sa | mnlo   | Colle | otion                              | 100   |                |       |        |           |          |    |

| Aquifer Test Data Sheet                         | Impacted Soil Excavation Log         | Soil Gas Survey Log                    |
|---|--------------------------------------|--|
| Chain-of-Custody Form                           | Impacted Soil Transportation Log     | Step-Drawdown Test Data Sheet          |
| Construction Sample Summary Log                 | Monitoring Well Inspection Form      | Survey Elevation Log                   |
| Corrective Measures Report                      | Nuclear Densitometer Field Log       | Tailgate Safety Meeting Form           |
| Daily Drilling Report                           | Photographic Log                     | Test Pit Excavation Log                |
| Drilling Safety Checklist                       | Pipe Leakage Testing Log             | Underground/Overhead Utility Checklist |
| Equipment Calibration Log                       | Post-Closure Field Inspection Report | Variance Log                           |
| Field Borehole Log                              | Pressure Packer Testing Log          | Water Level Monitoring Record          |
| Field Borehole/Monitoring Well Installation Log | Problem Identification Report        | Water Quality Field Collection Log     |
| Field Investigation Report                      | Real-Time Air Monitoring Log         | Water Sample Collection Log            |
| Field Slug Test Log                             | Record of Telecom Meeting            | Well Abandonment/Decomm. Log           |
| Groundwater Elevation Log                       | Sample Summary Collection Log        | Well Completion Detail                 |
| GW Well Development and Purge Log               | Sediment Sample Collection Log       |  |
| Hot Work Permit                                 | Seep Sample Collection Log           |  |
| DW Container Log                                | Seepage Meter Sample Collection Log  |  |
| SIGNATURE                                       |                                      | DATE:                                  |



Date: Project:

| OG | DATE   |  |    |  |
|----|--------|--|----|--|
|    | REPORT |  |    |  |
| DA | PAGE   |  | OF |  |

| PROBLEM IDENTIFICATION REPORT |
|-------------------------------|
|                               |

| Job No:  | WEATHER CONDITIONS:    |
|--|------------------------|
| Location:  | Ambient Air Temp A.M.: |
| CQA Monitor(s):  | Ambient Air Temp P.M.: |
| Client:  | Wind Direction:        |
| Contractor:  | Wind Speed:            |
| Contractor's Supervisor:   | Precipitation:         |
| Decklars Decemetics  |                        |
| Problem Description:   |                        |
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|  |                        |
|  |                        |
| Problem Location (reference test location, sketch on back of form as | s appropriate):        |
|  |                        |
|  |                        |
|  |                        |
|  |                        |
|  |                        |
| Problem Causes:  |                        |
|  |                        |
|  |                        |
|  |                        |
|  |                        |
|  |                        |
| Suggested Corrective Measures or Variances:                          |                        |
|  |                        |
|  |                        |
|  |                        |
|  | nce Log No.            |
| Approvals (initial):   |                        |
| CQA Engineer:  |                        |
|  |                        |
| Project Manager:   |                        |
|  |                        |

Signed:

CQA Representative



| 90     | DATE       |  |    |  |  |  |  |  |  |
|--------|------------|--|----|--|--|--|--|--|--|
| ΑΙΕΥ Ε | REPORT NO. |  |    |  |  |  |  |  |  |
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### CORRECTIVE MEASURES REPORT

| Date:                                     | CORRECTIVE MEASURES REPORT           |
|---|--------------------------------------|
| Project:                                  |                                      |
| Job No:                                   | WEATHER CONDITIONS:                  |
| Location:                                 | Ambient Air Temp A.M.:               |
| CQA Monitor(s):                           | Ambient Air Temp P.M.:               |
| Client:                                   | Wind Direction:                      |
| Contractor:                               | Wind Speed:                          |
| Contractor's Supervisor:                  | Precipitation:                       |
| Corrective Measures Undertaken (reference | e Problem Identification Report No.) |
|   |                                      |
|   |                                      |
|   |                                      |
|   |                                      |
|   |                                      |
|   |                                      |
|   |                                      |
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| Retesing Location:                        |                                      |
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|   |                                      |
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|   |                                      |
|   |                                      |
| Suggested Method of Minimizing Re-Occur   | rrence:                              |
|   |                                      |
|   |                                      |
|   |                                      |
|   |                                      |
| Approvals (initial):                      |                                      |
|   |                                      |
| CQA Engineer:                             |                                      |
| Project Manager:                          |                                      |
|   |                                      |

Signed:

CQA Representative